

TECHNICAL DATA BOOK R410A

INVERTER / HYPER HEATING INVERTER

<Indoor unit>
[Model names]

**PLA-A·EA7
PKA-A·HA7
PKA-A·KA7
PCA-A·KA7
PEAD-A·AA7
PVA-A·AA7**

<Outdoor unit>
[Model names]

**PUZ-A12/18/36/42NKA7(-BS)
PUY-A12/18/36/42NKA7(-BS)
PUZ-A24/30NHA7(-BS)
PUY-A24/30NHA7(-BS)
PUZ-HA30/36NHA5
PUZ-HA42NKA**

*This data book is revised version of OCS14 and OCS15.

Revision F
• Added operating range.

Please void DOCS14, DOCS15
REVISED EDITION-E.

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Mr. SLIM

1 | REFERENCE SERVICE MANUAL

For information on service, please refer to the service manual as follows.

1-1. INDOOR UNIT

Model name	Service Ref.	Service Manual No.
PLA-A12/18/24/30/36/42EA7	PLA-A12/18/24/30/36/42EA7	OCH640 OBH640
PKA-A12/18HA7	PKA-A12/18HA7	OCH637 OBH637
PKA-A24/30/36KA7	PKA-A24/30/36KA7.TH	OCH639 OBH639
PCA-A24/30/36/42KA7	PCA-A24/30/36/42KA7.TH	OCH638 OBH638
PEAD-A12/18/24/30/36/42AA7	PEAD-A12/18/24/30/36/42AA7	HWE16080
PVA-A12/18/24/30/36/42AA7	PVA-A12/18/24/30/36/42AA7	MD-1404-K011

1-2. OUTDOOR UNIT

Model name	Service Ref.	Service Manual No.
PUZ-A12/18/36/42NKA7 PUZ-A24/30NHA7 PUZ-A12/18/36/42NKA7-BS PUZ-A24/30NHA7-BS PUY-A12/18/36/42NKA7 PUY-A24/30NHA7-BS PUY-A12/18/36/42NKA7-BS PUY-A24/30NHA7-BS	PUZ-A12/18/36/42NKA7 PUZ-A24/30NHA7 PUZ-A12/18/36/42NKA7-BS PUZ-A24/30NHA7-BS PUY-A12/18/36/42NKA7 PUY-A24/30NHA7-BS PUY-A12/18/36/42NKA7-BS PUY-A24/30NHA7-BS	OCH636 OCB636
PUZ-HA30/36NHA5	PUZ-HA30/36NHA5	OCH607 OCB607
PUZ-HA42NKA	PUZ-HA42NKA	OCH567 OCB567

2 | SPECIFICATIONS

2-1. INVERTER CEILING CASSETTE TYPE

Model name	Indoor unit		PLA-A12EA7	PLA-A18EA7	PLA-A24EA7	PLA-A30EA7	PLA-A36EA7	PLA-A42EA7	
	Outdoor unit		PUY-A12NKA7	PUY-A18NKA7	PUY-A24NHA7	PUY-A30NHA7	PUY-A36NKA7	PUY-A42NKA7-BS	
Cooling	Max. Capacity	Btu/h	12,000	18,000	24,000	30,000	36,000	42,000	
	Rated Capacity	Btu/h	12,000	18,000	24,000	30,000	36,000	42,000	
	Min. Capacity	Btu/h	5,800	8,000	10,000	9,000	16,000	16,000	
	Total Input	W	730	1,250	1,670	2,540	2,780	3,590	
	EER	Btu/h/W	16.4	14.4	14.3	11.8	12.9	11.6	
	SEER	Btu/h/W	27.0	24.6	24.2	22.8	21.8	21.0	
	Moisture Removal	Pints/h	1.2	2.4	3.0	5.4	4.5	7.9	
	SHF		0.89	0.85	0.86	0.80	0.86	0.79	
	Power factor	%	93.4	95.3	94.3	95.2	93.7	94.6	
	Heating	Max. Capacity	Btu/h	-	-	-	-	-	-
Rated Capacity		Btu/h	-	-	-	-	-	-	
Min. Capacity		Btu/h	-	-	-	-	-	-	
Total Input		W	-	-	-	-	-	-	
COP		W/W	-	-	-	-	-	-	
HSPF(I/V)		Btu/h/W	-	-	-	-	-	-	
Power factor		%	-	-	-	-	-	-	
Heating at low ambient	Rated Capacity	Btu/h	-	-	-	-	-	-	
	Total Input	W	-	-	-	-	-	-	
	COP	W/W	-	-	-	-	-	-	
Power supply	Phase, Cycle, Voltage	1phase, 60Hz, 208/230V							
	Breaker size	A	15		25		30		
Voltage	Indoor - Outdoor S1-S2	AC208V / 230V							
	Indoor - Outdoor S2-S3	DC24V							
	Indoor - Remote controller	DC12V							
Indoor unit	MCA	A	1				2		
	MOCP	A	15						
	Fan Motor	F.L.A	0.36		0.60	0.74		0.95	
	Fan Motor Output	W	50		120	120			
	Air flow DRY	CMM	12-13-14-15	13-14-16-17	15-18-20-23	16-19-22-25	19-24-29-34	21-26-30-34	
	(Lo-M2-M1-Hi) WET	CMM	10-11-12-14	11-13-15-17	14-17-19-22	15-18-21-24	18-23-28-33	20-25-29-33	
	Air flow DRY	CFM	420-460-490-530	460-490-570-600	530-640-710-810	570-670-780-880	670-850-1,020-1,200	740-920-1,060-1,200	
	(Lo-M2-M1-Hi) WET	CFM	380-420-450-490	420-450-530-560	490-600-670-770	530-630-740-840	630-810-980-1,160	700-880-1,020-1,160	
	External pressure	in.WG[Pa]	0						
	Sound level (Lo-M2-M1-Hi)	dB(A)	27-28-29-30	28-29-31-32	28-30-33-36	28-32-35-38	32-37-41-44	34-38-42-45	
	External finish		White Munsell 6.4Y 8.9/0.4						
	Dimension	W:mm[inch]	840(950)[33-3/32(37-13/32)]						
	Unit (Panel)	D:mm[inch]	840(950)[33-3/32(37-13/32)]						
		H:mm[inch]	258(40)[10-3/16(1-9/16)]			298(40)[11-3/4(1-9/16)]			
	Weight Unit	kg	21			25		56	
		lbs	46			56		56	
	Field Drain pipe size	mm[inch]	32[1-1/4]						
Remote controller		Attached in indoor unit							
Outdoor unit	MCA	A	11		19		25		
	MOCP	A	28		26		31		
	Fan Motor	F.L.A	0.5		0.4		0.5 + 0.5		
	Fan Motor Output	W	46		86		74		
	Compressor	Type	SNB092FNCM	SNB130FNCM2	SNB172FVWHM1		MNB333FBRMC-L		
		R.L.A	7			8		8	
		L.R.A	12			11		13	
	Air flow	CMM[CFM]	45[1,590]		55[1,940]		110[3,880]		
	Refrigerant Control		Electronic Expansion Valve						
	Defrost Method		-						
	Sound level at cooling	dB(A)	44			47		52	
	Sound level at heating	dB(A)	-						
	External finish		Ivory Munsell 3Y 7.8/1.1						
	Dimension	W:mm[inch]	809+62 [31-13/16 + 7/16]			950 [37-13/32]		1,050 [41-5/16]	
		D:mm[inch]	300 [11-3/16]			330 + 30 [13 + 1-3/16]			
H:mm[inch]		630 [24-13/16]			943 [37-1/8]		1,338 [52-11/16]		
Weight	kg[lbs]	41[92]	44[99]	68[151]		96[211]			
Refrigerant	Type	R410A							
	Charge	kg[lbs,oz]	2.0 [4 lbs 7 oz]	2.2 [4 lbs 14 oz]	3.5 [7 lbs 11 oz]		4.7 [10 lbs 6 oz]		
	Oil	L[oz]	0.35 (FV50S) [12]	0.50 (FV50S) [16]	0.70 (FV50S) [23]		1.40 (FV50S) [45]		
Refrigerant pipe size	Gas side O.D.	mm[inch]	12.7[1/2]		15.88[5/8]		15.88[5/8]		
	Liquid side O.D.	mm[inch]	6.35[1/4]		9.52[3/8]		9.52[3/8]		
Refrigerant pipe length	Height difference	Max. 30m [Max.100ft]							
	Length	Max. 50m [Max.165ft]			Max. 30m [Max.100ft]		Max. 69m [Max.225ft]		
Refrigerant piping		Not Supplied							
Connection Method		Flared							

NOTES : *1. Rating conditions (cooling)-Indoor : D.B. 26.7°C(80°F), W.B. 19.4°C(67°F) Outdoor : D.B. 35°C(95°F), W.B. 23.9°C(75°F)

Operating range

Cooling	Indoor intake air temperature		Outdoor intake air temperature	
	Maximum	D.B. 32°C(90°F), W.B. 23°C(73°F)	D.B. 46°C(115°F)	
Minimum	D.B. 19°C(66°F), W.B. 15°C(59°F)	D.B. -5°C(23°F) D.B. -28.9°C(-20°F)*		

* In case that the wind baffle is installed. (In case that the wind baffle is not installed, the minimum temperature will be -5°C(23°F)DB.)

Model name	Indoor unit	Outdoor unit	PLA-A12EA7 PUZ-A12NKA7-BS	PLA-A18EA7 PUZ-A18NKA7-BS	PLA-A24EA7 PUZ-A24NHA7-BS	PLA-A30EA7 PUZ-A30NHA7-BS	PLA-A36EA7 PUZ-A36NKA7-BS	PLA-A42EA7 PUZ-A42NKA7-BS	
Cooling	Max. Capacity	Btu/h	12,000	18,000	24,000	30,000	36,000	42,000	
	Rated Capacity	Btu/h	12,000	18,000	24,000	30,000	36,000	42,000	
	Min. Capacity	Btu/h	5,800	8,000	10,000	9,000	16,000	16,000	
	Total Input	W	730	1,250	1,670	2,540	2,780	3,590	
	EER	Btu/h/W	16.4	14.4	14.3	11.8	12.9	11.6	
	SEER	Btu/h/W	27.0	24.6	24.2	22.8	21.8	21.0	
	Moisture Removal	Pints/h	1.2	2.4	3.0	5.4	4.5	7.9	
	SHF		0.89	0.85	0.86	0.80	0.86	0.79	
	Power factor	%	93.4	95.3	94.3	95.2	93.7	94.6	
	Heating	Max. Capacity	Btu/h	20,000	23,000	29,000	33,000	42,000	48,000
Rated Capacity		Btu/h	14,000	19,000	26,000	32,000	38,000	45,000	
Min. Capacity		Btu/h	5,500	7,900	9,000	9,000	18,000	18,000	
Total Input		W	830	1,300	1,750	2,400	2,540	3,290	
COP		W/W	4.94	4.28	4.35	3.90	4.38	4.00	
HSPF(IV/V)		Btu/h/W	12.8/8.8	11.0/7.8	11.2/8.1	11.6/8.4	10.4/7.6	9.3/7.3	
Power factor		%	95.0	95.8	95.1	95.7	93.6	94.1	
Rated Capacity		Btu/h	10,100	11,000	14,900	18,100	22,000	28,000	
Total Input		W	1,170	1,300	1,600	1,880	2,490	3,070	
COP		W/W	2.53	2.47	2.72	2.82	2.58	2.67	
Power supply	Phase,Cycle,Voltage	1phase, 60Hz, 208/230V							
Voltage	Breaker size	A	15		25		30		
	Indoor - Outdoor S1-S2	AC208V / 230V							
	Indoor - Outdoor S2-S3	DC24V							
Indoor unit	Indoor - Remote controller	DC12V							
	MCA	A	1				2		
	MOCP	A	15						
	Fan Motor	F.L.A	0.36		0.60		0.74		0.95
	Fan Motor Output	W	50		120		120		
	Air flow DRY	CMM	12-13-14-15		13-14-16-17		15-18-20-23		16-19-22-25
	(Lo-M2-M1-Hi) WET	CMM	10-11-12-14		11-13-15-17		14-17-19-22		15-18-21-24
	Air flow DRY	CFM	420-460-490-530		460-490-570-600		530-640-710-810		570-670-780-880
	(Lo-M2-M1-Hi) WET	CFM	380-420-450-490		420-450-530-560		490-600-670-770		530-630-740-840
	External pressure	in.WG[Pa]	0						
	Sound level (Lo-M2-M1-Hi)	dB(A)	27-28-29-30		28-29-31-32		28-30-33-36		28-32-35-38
	External finish	White Munsell 6.4Y 8.9/0.4							
	Dimension Unit (Panel)	W:mm[inch]	840(950)[33-3/32(37-13/32)]						
		D:mm[inch]	840(950)[33-3/32(37-13/32)]						
		H:mm[inch]	258(40)[10-3/16(1-9/16)]			298(40)[11-3/4(1-9/16)]			
Weight Unit	kg	21				25			
	lbs	46				56			
Field Drain pipe size	mm[inch]	32[1-1/4]							
Remote controller	Attached in indoor unit								
Outdoor unit	MCA	A	11		19		25		
	MOCP	A	28		26		31		
	Fan Motor	F.L.A	0.5		0.4		0.5 + 0.5		
	Fan Motor Output	W	46		86		74		
	Compressor	Type	SNB092FNCM SNB130FNCM2		SNB172FVWHM1		MNB33FBRMC-L		
		R.L.A	7				8		
		L.R.A	12		11		13		
	Air flow	CMM[CFM]	45[1,590]		55[1,940]		110[3,880]		
	Refrigerant Control	Electronic Expansion Valve							
	Defrost Method	Reverse Cycle							
	Sound level at cooling	dB(A)	44		47		52		
	Sound level at heating	dB(A)	46		48		53		
	External finish	Ivory Munsell 3Y 7.8/1.1							
	Dimension	W:mm[inch]	809+62 [31-13/16 + 7/16]			950 [37-13/32]		1,050 [41-5/16]	
		D:mm[inch]	300 [11-3/16]			330 + 30 [13 + 1-3/16]			
	H:mm[inch]	630 [24-13/16]			943 [37-1/8]		1,338 [52-11/16]		
Weight	kg[lbs]	42 [93]		45[100]		69[153]		97[214]	
Refrigerant	Type	R410A							
Charge	kg[lbs,oz]	2.0 [4 lbs 7 oz]		2.2 [4 lbs 14 oz]		3.5 [7 lbs 11 oz]		4.7 [10 lbs 6 oz]	
Oil	L[oz]	0.35 (FV50S) [12]		0.50 (FV50S) [16]		0.70 (FV50S) [23]		1.40 (FV50S) [45]	
Refrigerant pipe size	Gas side O.D.	12.7[1/2F]				15.88[5/8]			
	Liquid side O.D.	6.35[1/4F]				9.52[3/8]			
Refrigerant pipe length	Height difference								
	Length	Max. 30m [Max.100ft]			Max. 30m [Max.100ft]		Max. 50m [Max.165ft]		
Refrigerant piping	Not Supplied								
Connection Method	Flared								

NOTES : *1.Rating conditions (cooling)-Indoor : D.B. 26.7°C(80°F), W.B. 19.4°C(67°F) Outdoor : D.B. 35°C(95°F), W.B. 23.9°C(75°F)
(heating)-Indoor : D.B. 21.1°C(70°F), W.B. 15.6°C(60°F) Outdoor : D.B. 8.3°C(47°F), W.B. 6.1°C(43°F)
*2.Rating conditions (heating)-Indoor : D.B. 21.1°C(70°F), W.B. 15.6°C(60°F) Outdoor : D.B. -8.3°C(17°F), W.B. -9.4°C(15°F)

Operating range (For A12/18 model)

Cooling	Maximum	Indoor intake air temperature		Outdoor intake air temperature	
		D.B. 32°C(90°F), W.B. 23°C(73°F)	D.B. 46°C(115°F)		
Heating	Minimum	D.B. 19°C(66°F), W.B. 15°C(59°F)		D.B. -5°C(23°F)	
		D.B. 28°C(82°F)		D.B. -18°C(0°F)*	
Heating	Maximum	D.B. 21°C(70°F), W.B. 15°C(59°F)		D.B. 21°C(70°F), W.B. 15°C(59°F)	
		Minimum	D.B. 10°C(50°F)		D.B. -11°C(12°F), W.B. -12°C(10°F)

Operating range (For A24/30/36/42 model)

Cooling	Maximum	Indoor intake air temperature		Outdoor intake air temperature	
		D.B. 32°C(90°F), W.B. 23°C(73°F)	D.B. 46°C(115°F)		
Heating	Minimum	D.B. 19°C(66°F), W.B. 15°C(59°F)		D.B. -5°C(23°F)	
		D.B. 28°C(82°F)		D.B. -18°C(0°F)*	
Heating	Maximum	D.B. 21°C(70°F), W.B. 15°C(59°F)		D.B. 21°C(70°F), W.B. 15°C(59°F)	
		Minimum	D.B. 10°C(50°F)		D.B. -20°C(-4°F), W.B. -20°C(-4°F)

* In case that the wind baffle is installed. (In case that the wind baffle is not installed, the minimum temperature will be -5°C(23°F)DB.)

2-2. INVERTER WALL-MOUNTED TYPE

Model name	Indoor unit		PKA-A12HA7	PKA-A18HA7	PKA-A24KA7	PKA-A30KA7	PKA-A36KA7	
	Outdoor unit		PUY-A12NKA7	PUY-A18NKA7	PUY-A24NHA7	PUY-A30NHA7	PUY-A36NKA7	
			PUY-A12NKA7-BS	PUY-A18NKA7-BS	PUY-A24NHA7-BS	PUY-A30NHA7-BS	PUY-A36NKA7-BS	
Cooling	Max. Capacity	Btu/h	12,000	18,000	24,000	30,000	36,000	
	Rated Capacity	Btu/h	12,000	18,000	24,000	30,000	36,000	
	Min. Capacity	Btu/h	5,800	8,000	10,000	9,000	16,000	
	Total Input	W	1,000	1,820	1,960	3,150	3,330	
	EER	Btu/h/W	12.0	9.9	12.2	9.5	10.8	
	SEER	Btu/h/W	20.8	18.5	21.4	19.8	18.8	
	Moisture Removal	Pints/h	2.0	5.2	5.0	8.1	9.7	
	SHF		0.81	0.68	0.77	0.70	0.70	
	Power factor	%	94.5	95.3	95.7	96.4	96.5	
	Heating	Max. Capacity	Btu/h	-	-	-	-	-
Rated Capacity		Btu/h	-	-	-	-	-	
Min. Capacity		Btu/h	-	-	-	-	-	
Total Input		W	-	-	-	-	-	
COP		W/W	-	-	-	-	-	
HSPF(IVV)		Btu/h/W	-	-	-	-	-	
Power factor		%	-	-	-	-	-	
Heating at low ambient	Rated Capacity	Btu/h	-	-	-	-	-	
	Total Input	W	-	-	-	-	-	
	COP	W/W	-	-	-	-	-	
Power supply	Phase,Cycle,Voltage		1phase, 60Hz, 208/230V					
	Breaker size	A	15		25		30	
Voltage	Indoor - Outdoor S1-S2		AC208V / 230V					
	Indoor - Outdoor S2-S3		DC24V					
	Indoor - Remote controller		DC12V					
Indoor unit	MCA	A	1					
	MOCP	A	15					
	Fan Motor	F.L.A	0.33		0.36		0.57	
	Fan Motor Output	W	30		56			
	Air flow DRY	CMM	9-10.5-12		18-20-22		20-23-26	
	(Lo-Mid-Hi) WET	CMM	8-9.5-11		16-18-20		18-21-23	
	Air flow DRY	CFM	320-370-425		635-705-775		705-810-920	
	(Lo-Mid-Hi) WET	CFM	290-335-380		570-635-700		635-730-830	
	External pressure	in.WG[Pa]	0					
	Sound level (Lo-Mid-Hi)	dB(A)	36-40-43		39-42-45		43-46-49	
	External finish		White Munsell 1.0Y 9.2/0.2					
	Dimension	W:mm[inch]	898[35-3/8]		1,170[46-1/16]			
	Unit (Panel)	D:mm[inch]	249[9-13/16]		295[11-5/8]			
		H:mm[inch]	295[11-5/8]		365[14-3/8]			
	Weight Unit	kg	13		21			
		lbs	29		46			
	Field Drain pipe size	mm[inch]	16[5/8]					
Remote controller	Attached in indoor unit							
Outdoor unit	MCA	A	11		19		25	
	MOCP	A	28		26		31	
	Fan Motor	F.L.A	0.5		0.4		0.5 + 0.5	
	Fan Motor Output	W	46		86		74	
	Compressor	Type	SNB092FNCM	SNB130FNCM2	SNB172FVWHM1		MNB333FBRMC-L	
		R.L.A	7					8
		L.R.A	12		11		13	
	Air flow	CMM[CFM]	45[1,590]		55[1,940]		110[3,880]	
	Refrigerant Control		Electronic Expansion Valve					
	Defrost Method		-					
	Sound level at cooling	dB(A)	44		47		52	
	Sound level at heating	dB(A)	-					
	External finish		Ivory Munsell 3Y 7.8/1.1					
	Dimension	W:mm[inch]	809+62 [31-13/16 + 7/16]		950 [37-13/32]		1,050 [41-5/16]	
		D:mm[inch]	300 [11-3/16]		330 + 30 [13 + 1-3/16]			
		H:mm[inch]	630 [24-13/16]		943 [37-1/8]		1,338 [52-11/16]	
	Weight	kg[lbs]	41[92]	44[99]	68[151]		96[211]	
Type		R410A						
Charge	kg[lbs,oz]	2.0 [4 lbs 7 oz]	2.2 [4 lbs 14 oz]	3.5 [7 lbs 11 oz]		4.7 [10 lbs 6 oz]		
	Oil	L[oz]	0.35 (FV50S) [12]	0.50 (FV50S) [16]	0.70 (FV50S) [23]		1.40 (FV50S) [45]	
Refrigerant pipe size	Gas side O.D.	mm[inch]	12.7[1/2]		15.88[5/8]			
	Liquid side O.D.	mm[inch]	6.35[1/4]		9.52[3/8]			
Refrigerant pipe length	Height difference	Max. 30m [Max.100ft]						
	Length	Max. 50m [Max.165ft]		Max. 69m [Max.225ft]				
Refrigerant piping	Not Supplied							
Connection Method	Flared							

NOTES : *1.Rating conditions (cooling)-Indoor : D.B. 26.7°C(80°F), W.B. 19.4°C(67°F) Outdoor : D.B. 35°C(95°F), W.B. 23.9°C(75°F)

Operating range

Cooling	Indoor intake air temperature		Outdoor intake air temperature	
	Maximum	D.B. 32°C(90°F), W.B. 23°C(73°F)	Maximum	D.B. 46°C(115°F)
Cooling	Minimum	D.B. 19°C(66°F), W.B. 15°C(59°F)	Minimum	D.B. -5°C(23°F)
			Minimum	D.B. -28.9°C(-20°F)*

* In case that the wind baffle is installed. (In case that the wind baffle is not installed, the minimum temperature will be -5°C(23°F)DB.)

Model name	Indoor unit	Outdoor unit	PKA-A12HA7 PUZ-A12NKA7 PUZ-A12NKA7-BS	PKA-A18HA7 PUZ-A18NKA7 PUZ-A18NKA7-BS	PKA-A24KA7 PUZ-A24NHA7 PUZ-A24NHA7-BS	PKA-A30KA7 PUZ-A30NHA7 PUZ-A30NHA7-BS	PKA-A36KA7 PUZ-A36NKA7 PUZ-A36NKA7-BS	
Cooling	Max. Capacity	Btu/h	12,000	18,000	24,000	30,000	36,000	
	Rated Capacity	Btu/h	12,000	18,000	24,000	30,000	36,000	
	Min. Capacity	Btu/h	5,800	8,000	10,000	9,000	16,000	
	Total Input	W	1,000	1,820	1,960	3,150	3,330	
	EER	Btu/h/W	12.0	9.9	12.2	9.5	10.8	
	SEER	Btu/h/W	20.8	18.5	21.4	19.8	18.8	
	Moisture Removal	Pints/h	2.0	5.2	5.0	8.1	9.7	
	SHF		0.81	0.68	0.77	0.70	0.70	
	Power factor	%	94.5	95.3	95.7	96.4	96.5	
	Heating	Max. Capacity	Btu/h	18,000	22,000	28,000	34,000	40,000
Rated Capacity		Btu/h	14,000	19,000	26,000	32,000	38,000	
Min. Capacity		Btu/h	5,500	7,700	9,000	8,900	18,200	
Total Input		W	950	1,300	1,750	2,460	2,460	
COP		W/W	4.31	4.28	4.35	3.81	4.52	
HSPF(IV/V)		Btu/h/W	10.2/7.6	10.2/7.5	11.0/8.2	9.9/7.4	9.2/7.0	
Power factor		%	93.9	94.2	96.3	96.4	95.5	
Rated Capacity		Btu/h	9,200	11,300	15,700	18,300	22,400	
Total Input		W	1,020	1,340	1,750	1,960	2,610	
COP		W/W	2.64	2.47	2.62	2.73	2.51	
Power supply	Phase,Cycle,Voltage		1phase, 60Hz, 208/230V					
Voltage	Breaker size	A	15		25		30	
	Indoor - Outdoor S1-S2	AC208V / 230V						
	Indoor - Outdoor S2-S3	DC24V						
	Indoor - Remote controller	DC12V						
Indoor unit	MCA	A	1					
	MOCP	A	15					
	Fan Motor	F.L.A	0.33		0.36		0.57	
	Fan Motor Output	W	30		56			
	Air flow DRY	CMM	9-10.5-12		18-20-22		20-23-26	
	(Lo-Mid-Hi) WET	CMM	8-9.5-11		16-18-20		18-21-23	
	Air flow DRY	CFM	320-370-425		635-705-775		705-810-920	
	(Lo-Mid-Hi) WET	CFM	290-335-380		570-635-700		635-730-830	
	External pressure	in.WG[Pa]	0					
	Sound level (Lo-Mid-Hi)	dB(A)	36-40-43		39-42-45		43-46-49	
	External finish	White Munsell 1.0Y 9.2/0.2						
	Dimension	W:mm[inch]	898[35-3/8]			1,170[46-1/16]		
	Unit (Panel)	D:mm[inch]	249[9-13/16]			295[11-5/8]		
		H:mm[inch]	295[11-5/8]			365[14-3/8]		
		Weight Unit	kg	13			21	
		lbs	29			46		
Field Drain pipe size	mm[inch]	16[5/8]						
Remote controller	Attached in indoor unit							
Outdoor unit	MCA	A	11		19		25	
	MOCP	A	28		26		31	
	Fan Motor	F.L.A	0.5		0.4		0.5 + 0.5	
	Fan Motor Output	W	46		86		74	
	Compressor	Type	SNB092FNCM	SNB130FNCM2	SNB172FVHM1		MNB33FBRMC-L	
		R.L.A	7					
		L.R.A	12		11		13	
	Air flow	CMM[CFM]	45[1,590]		55[1,940]		110[3,880]	
	Refrigerant Control	Electronic Expansion Valve						
	Defrost Method	Reverse Cycle						
	Sound level at cooling	dB(A)	44		47		52	
	Sound level at heating	dB(A)	46		48		53	
	External finish	Ivory Munsell 3Y 7.8/1.1						
	Dimension	W:mm[inch]	809+62 [31-13/16 + 7/16]			950 [37-13/32]		1,050 [41-5/16]
		D:mm[inch]	300 [11-3/16]			330 + 30 [13 + 1-3/16]		
		H:mm[inch]	630 [24-13/16]			943 [37-1/8]		1,338 [52-11/16]
Weight	kg[lbs]	42 [93]	45 [100]	69 [153]		97 [214]		
Refrigerant	Type	R410A						
	Charge	kg[lbs,oz]	2.0 [4 lbs 7 oz]	2.2 [4 lbs 14 oz]	3.5 [7 lbs 11 oz]		4.7 [10 lbs 6 oz]	
	Oil	L[oz]	0.35 (FV50S) [12]	0.50 (FV50S) [16]	0.70 (FV50S) [23]		1.40 (FV50S) [45]	
Refrigerant pipe size	Gas side O.D.	mm[inch]	12.71[1/2F]		15.88[5/8]			
	Liquid side O.D.	mm[inch]	6.35[1/4F]		9.52[3/8]			
Refrigerant pipe length	Height difference	Max. 30m [Max.100ft]						
	Length	Max. 30m [Max.100ft]		Max. 30m [Max.100ft]		Max. 50m [Max.165ft]		
Refrigerant piping	Not Supplied							
Connection Method	Flared							

NOTES : *1.Rating conditions (cooling)-Indoor : D.B. 26.7°C(80°F), W.B. 19.4°C(67°F) Outdoor : D.B. 35°C(95°F), W.B. 23.9°C(75°F)
(heating)-Indoor : D.B. 21.1°C(70°F), W.B. 15.6°C(60°F) Outdoor : D.B. 8.3°C(47°F), W.B. 6.1°C(43°F)
*2.Rating conditions (heating)-Indoor : D.B. 21.1°C(70°F), W.B. 15.6°C(60°F) Outdoor : D.B. -8.3°C(17°F), W.B. -9.4°C(15°F)

Operating range (For A12/18 model)

		Indoor intake air temperature		Outdoor intake air temperature	
		Maximum	D.B. 32°C(90°F), W.B. 23°C(73°F)	D.B. 46°C(115°F)	Minimum
Cooling	Minimum	D.B. 19°C(66°F), W.B. 15°C(59°F)	D.B. -5°C(23°F)	D.B. -18°C(0°F)*	
	Maximum	D.B. 28°C(82°F)	D.B. 21°C(70°F), W.B. 15°C(59°F)		
Heating	Minimum	D.B. 10°C(50°F)	D.B. -11°C(12°F), W.B. -12°C(10°F)		

Operating range (For A24/30/36/42 model)

		Indoor intake air temperature		Outdoor intake air temperature	
		Maximum	D.B. 32°C(90°F), W.B. 23°C(73°F)	D.B. 46°C(115°F)	Minimum
Cooling	Minimum	D.B. 19°C(66°F), W.B. 15°C(59°F)	D.B. -5°C(23°F)	D.B. -18°C(0°F)*	
	Maximum	D.B. 28°C(82°F)	D.B. 21°C(70°F), W.B. 15°C(59°F)		
Heating	Minimum	D.B. 10°C(50°F)	D.B. -20°C(-4°F), W.B. -20°C(-4°F)		

* In case that the wind baffle is installed. (In case that the wind baffle is not installed, the minimum temperature will be -5°C(23°F)DB.)

2-3. INVERTER CEILING-SUSPENDED TYPE

Model name	Indoor unit		PCA-A24KA7	PCA-A30KA7	PCA-A36KA7	PCA-A42KA7
	Outdoor unit		PUY-A24NHA7 PUY-A24NHA7-BS	PUY-A30NHA7 PUY-A30NHA7-BS	PUY-A36NKA7 PUY-A36NKA7-BS	PUY-A42NKA7 PUY-A42NKA7-BS
Cooling	Max. Capacity	Btu/h	24,000	30,000	36,000	42,000
	Rated Capacity	Btu/h	24,000	30,000	36,000	42,000
	Min. Capacity	Btu/h	10,000	9,000	16,000	16,000
	Total Input	W	1,960	3,190	3,270	4,110
	EER	Btu/h/W	12.2	9.4	11.0	10.2
	SEER	Btu/h/W	21.2	19.6	19.1	17.6
	Moisture Removal	Pints/h	5.8	8.3	8.7	11.7
	SHF		0.73	0.69	0.73	0.69
	Power factor	%	94.7	96.3	94.2	95.6
	Heating	Max. Capacity	Btu/h	-	-	-
Rated Capacity		Btu/h	-	-	-	-
Min. Capacity		Btu/h	-	-	-	-
Total Input		W	-	-	-	-
COP		W/W	-	-	-	-
HSPF(I/V)		Btu/h/W	-	-	-	-
Power factor		%	-	-	-	-
Heating at low ambient	Rated Capacity	Btu/h	-	-	-	-
	Total Input	W	-	-	-	-
	COP	W/W	-	-	-	-
Power supply	Phase,Cycle,Voltage	1phase, 60Hz, 208/230V				
	Breaker size	A	25		30	
Voltage	Indoor - Outdoor S1-S2	AC208V / 230V				
	Indoor - Outdoor S2-S3	DC24V				
	Indoor - Remote controller	DC12V				
Indoor unit	MCA	A	1		2	
	MOCP	A		15		
	Fan Motor	F.L.A	0.54		0.97	
	Fan Motor Output	W	95		160	
	Air flow DRY (LoLo-Lo-Mid-Hi) WET	CMM	15-16-17-19	16-17-18-20	22-24-26-28	23-25-27-29
	Air flow DRY (LoLo-Lo-Mid-Hi) WET	CMM	14-15-16-18	15-16-17-19	20-22-24-26	21-23-25-27
	Air flow DRY (LoLo-Lo-Mid-Hi) WET	CFM	530-565-600-670	565-600-635-705	775-850-920-990	810-885-955-1,025
	Air flow DRY (LoLo-Lo-Mid-Hi) WET	CFM	495-530-565-635	530-565-600-670	705-775-850-920	740-810-885-955
	External pressure	in.WG[Pa]	0			
	Sound level (LoLo-Lo-Mid-Hi)	dB(A)	33-35-37-40	35-37-39-41	37-39-41-43	39-41-43-45
	External finish	White Munsell 6.4Y 8.9/0.4				
	Dimension Unit (Panel)	W:mm[inch]	1,280[50-3/8]		1,600[63]	
		D:mm[inch]	680[26-3/4]			
		H:mm[inch]	230[9-1/16]			
	Weight Unit	kg	32		36	39
lbs		71		79	86	
Field Drain pipe size	mm[inch]	26[1-1/32]				
Remote controller	Attached in Indoor Unit					
Outdoor unit	MCA	A	19		25	
	MOCP	A	26		31	
	Fan Motor	F.L.A	0.4		0.5 + 0.5	
	Fan Motor Output	W	86		74	
	Compressor	Type	SNB172FVWHM1			MNB333FBRMC-L
		R.L.A	7		8	
		L.R.A	11		13	
	Air flow	CMM[CFM]	55[1,940]		110[3,880]	
	Refrigerant Control	Electronic Expansion Valve				
	Defrost Method	-				
	Sound level at cooling	dB(A)	47		52	
	Sound level at heating	dB(A)	0			
	External finish	Ivory Munsell 3Y 7.8/1.1				
	Dimension	W:mm[inch]	950 [37-13/32]		1,050 [41-5/16]	
		D:mm[inch]	330 + 30 [13 + 1-3/16]			
H:mm[inch]		943 [37-1/8]		1,338 [52-11/16]		
Weight	kg[lbs]	68[151]		96[211]		
Refrigerant	Type	R410A				
	Charge	kg[lbs.oz]	3.5 [7 lbs 11 oz]		4.7 [10 lbs 6 oz]	
	Oil	L[oz]	0.70 (FV50S) [23]		1.40 (FV50S) [45]	
Refrigerant pipe size	Gas side O.D.	mm[inch]			15.88[5/8]	
	Liquid side O.D.	mm[inch]			9.52[3/8]	
Refrigerant pipe length	Height difference	Max. 30m [Max.100ft]				
	Length	Max. 69m [Max.225ft]				
Refrigerant piping Connection Method	Not Supplied Flared					

NOTES : *1.Rating conditions (cooling)-Indoor : D.B. 26.7°C(80°F), W.B. 19.4°C(67°F) Outdoor : D.B. 35°C(95°F), W.B. 23.9°C(75°F)

Operating range

Cooling	Indoor intake air temperature		Outdoor intake air temperature	
	Maximum	D.B. 32°C(90°F), W.B. 23°C(73°F)	Maximum	D.B. 46°C(115°F)
	Minimum	D.B. 19°C(66°F), W.B. 15°C(59°F)	Minimum	D.B. -5°C(23°F)
				D.B.-28.9°C(-20°F)*

* In case that the wind baffle is installed. (In case that the wind baffle is not installed, the minimum temperature will be -5°C(23°F)DB.)

Model name	Indoor unit	PCA-A24KA7 PUZ-A24NHA7 PUZ-A24NHA7-BS	PCA-A30KA7 PUZ-A30NHA7 PUZ-A30NHA7-BS	PCA-A36KA7 PUZ-A36NKA7 PUZ-A36NKA7-BS	PCA-A42KA7 PUZ-A42NKA7 PUZ-A42NKA7-BS		
Cooling	Max. Capacity	Btu/h	24,000	30,000	36,000	42,000	
	Rated Capacity	Btu/h	24,000	30,000	36,000	42,000	
	Min. Capacity	Btu/h	10,000	9,000	16,000	16,000	
	Total Input	W	1,960	3,190	3,270	4,110	
	EER	Btu/h/W	12.2	9.4	11.0	10.2	
	SEER	Btu/h/W	21.2	19.6	19.1	17.6	
	Moisture Removal	Pints/h	5.8	8.3	8.7	11.7	
	SHF		0.73	0.69	0.73	0.69	
	Power factor	%	94.7	96.3	94.2	95.6	
	Heating	Max. Capacity	Btu/h	28,000	34,000	40,000	48,000
		Rated Capacity	Btu/h	26,000	32,000	38,000	45,000
Min. Capacity		Btu/h	8,800	8,600	17,900	18,100	
Total Input		W	1,800	2,520	2,410	3,480	
COP		W/W	4.23	3.72	4.62	3.78	
HSPF (I/V)		Btu/h/W	10.8/8.1	10.0/7.9	10.2/7.2	10.2/8.2	
Power factor		%	94.3	96.1	92.7	94.6	
Heating at low ambient	Rated Capacity	Btu/h	15,400	18,800	21,100	31,800	
	Total Input	W	1,700	2,050	2,430	3,160	
	COP	W/W	2.65	2.68	2.54	2.94	
Power supply	Phase, Cycle, Voltage	1phase, 60Hz, 208/230V					
Voltage	Breaker size	A	25		30		
	Indoor - Outdoor S1-S2	AC208V / 230V					
	Indoor - Outdoor S2-S3	DC24V					
Indoor unit	Indoor - Remote controller	DC12V					
	MCA	A	1		2		
	MOCP	A		15			
	Fan Motor	F.L.A	0.54		0.97		
	Fan Motor Output	W	95		160		
	Air flow DRY (Lo-M2-M1-Hi) WET	CMM	15-16-17-19	16-17-18-20	22-24-26-28	23-25-27-29	
	Air flow DRY (Lo-M2-M1-Hi) WET	CMM	14-15-16-18	15-16-17-19	20-22-24-26	21-23-25-27	
	Air flow DRY (Lo-M2-M1-Hi) WET	CFM	530-565-600-670	565-600-635-705	775-850-920-990	810-885-955-1,025	
	Air flow DRY (Lo-M2-M1-Hi) WET	CFM	495-530-565-635	530-565-600-670	705-775-850-920	740-810-885-955	
	External pressure	in.WG[Pa]	0				
	Sound level (Lo-M2-M1-Hi)	dB(A)	33-35-37-40	35-37-39-41	37-39-41-43	39-41-43-45	
	External finish		White Munsell 6.4Y 8.9/0.4				
	Dimension Unit (Panel)	W:mm[inch]	1,280[50-3/8]		1,600[63]		
		D:mm[inch]	680[26-3/4]				
		H:mm[inch]	230[9-1/16]				
	Weight Unit	kg	32		36	39	
		lbs	71		79	86	
Field Drain pipe size	mm[inch]	26[1-1/32]					
Remote controller		Attached in Indoor Unit					
Outdoor unit	MCA	A	19		25		
	MOCP	A	26		31		
	Fan Motor	F.L.A	0.4		0.5 + 0.5		
	Fan Motor Output	W	86		74		
	Compressor	Type	SNB172FVWHM1			MNB33FBRMC-L	
		R.L.A	7		8		
		L.R.A	11		13		
	Air flow	CMM[CFM]	55[1,940]		110[3,880]		
	Refrigerant Control		Electronic Expansion Valve				
	Defrost Method		Reverse Cycle				
	Sound level at cooling	dB(A)	47		52		
	Sound level at heating	dB(A)	48		53		
	External finish		Ivory Munsell 3Y 7.8/1.1				
	Dimension	W:mm[inch]	950 [37-13/32]		1,050 [41-5/16]		
		D:mm[inch]	330 + 30 [13 + 1-3/16]				
		H:mm[inch]	943 [37-1/8]		1,338 [52-11/16]		
	Weight	kg[lbs]	69[153]		97[214]		
Refrigerant	Type	R410A					
	Charge	kg[lbs,oz]	3.5 [7 lbs 11 oz]		4.7 [10 lbs 6 oz]		
	Oil	L[oz]	0.70 (FV50S) [23]		1.40 (FV50S) [45]		
Refrigerant pipe size	Gas side O.D.	mm[inch]	15.88[5/8]				
	Liquid side O.D.	mm[inch]	9.52[3/8]				
Refrigerant pipe length	Height difference	Max. 30m [Max. 100ft]					
	Length	Max. 50m [Max. 165ft]					
Refrigerant piping		Not Supplied					
Connection Method		Flared					

NOTES : *1.Rating conditions (cooling)-Indoor : D.B. 26.7°C(80°F), W.B. 19.4°C(67°F) Outdoor : D.B. 35°C(95°F), W.B. 23.9°C(75°F)
(heating)-Indoor : D.B. 21.1°C(70°F), W.B. 15.6°C(60°F) Outdoor : D.B. 8.3°C(47°F), W.B. 6.1°C(43°F)
*2.Rating conditions (heating)-Indoor : D.B. 21.1°C(70°F), W.B. 15.6°C(60°F) Outdoor : D.B. -8.3°C(17°F), W.B. -9.4°C(15°F)

Operating range

Cooling	Maximum	Indoor intake air temperature		Outdoor intake air temperature	
		D.B. 32°C(90°F), W.B. 23°C(73°F)	D.B. 46°C (115°F)		
Heating	Minimum	D.B. 19°C (66°F), W.B. 15°C (59°F)		D.B. -5°C (23°F)	
		D.B. 10°C (50°F)		D.B. -18°C (0°F)*	
Cooling	Minimum	D.B. 28°C (82°F)		D.B. 21°C (70°F), W.B. 15°C (59°F)	
		D.B. 10°C (50°F)		D.B. -20°C (-4°F), W.B. -20°C (-4°F)	

* In case that the wind baffle is installed. (In case that the wind baffle is not installed, the minimum temperature will be -5°C(23°F)DB.)

2-4. INVERTER CEILING CONCEALED TYPE (PEAD)

Model name	Indoor unit		PEAD-A12AA7	PEAD-A18AA7	PEAD-A24AA7	PEAD-A30AA7	PEAD-A36AA7	PEAD-A42AA7	
	Outdoor unit		PUY-A12NKA7	PUY-A18NKA7	PUY-A24NHA7	PUY-A30NHA7	PUY-A36NKA7	PUY-A42NKA7	
			PUY-A12NKA7-BS	PUY-A18NKA7-BS	PUY-A24NHA7-BS	PUY-A30NHA7-BS	PUY-A36NKA7-BS	PUY-A42NKA7-BS	
Cooling	Max. Capacity	Btu/h	12,000	18,000	24,000	30,000	36,000	42,000	
	Rated Capacity	Btu/h	12,000	18,000	24,000	30,000	36,000	42,000	
	Min. Capacity	Btu/h	5,000	8,000	10,000	9,000	16,000	16,000	
	Total Input	W	920	1,660	2,050	3,000	3,000	3,920	
	EER	Btu/h/W	13.0	10.8	11.7	10.0	12.0	10.7	
	SEER	Btu/h/W	21.1	19.9	19.6	19.1	19.1	16.1	
	Moisture Removal	Pints/h	1.8	3.7	6.9	8.6	8.1	9	
	SHF		0.83	0.77	0.68	0.68	0.75	0.76	
	Power factor	%	90.9	91.4	92.8	93.8	93.8	93.6	
	Heating	Max. Capacity	Btu/h	-	-	-	-	-	-
Rated Capacity		Btu/h	-	-	-	-	-	-	
Min. Capacity		Btu/h	-	-	-	-	-	-	
Total Input		W	-	-	-	-	-	-	
COP		W/W	-	-	-	-	-	-	
HSPF(IV)		Btu/h/W	-	-	-	-	-	-	
Power factor		%	-	-	-	-	-	-	
Heating at low ambient	Rated Capacity	Btu/h	-	-	-	-	-	-	
	Total Input	W	-	-	-	-	-	-	
	COP	W/W	-	-	-	-	-	-	
Power supply	Phase, Cycle, Voltage	1phase, 60Hz, 208/230V							
	Breaker size	A	15		25		30		
Voltage	Indoor - Outdoor S1-S2	AC208V / 230V							
	Indoor - Outdoor S2-S3	DC24V							
	Indoor - Remote controller	DC12V							
Indoor unit	MCA	A	1.45	1.69	2.63	2.73	3.30	3.50	
	MOCP	A				15			
	Fan Motor	F.L.A	1.16	1.35	2.10	2.18	2.64	2.80	
	Fan Motor Output	W		85		121		244	
	Air flow DRY	CMM	10.0-12.0-14.0	12.0-14.5-17.0	14.5-18.0-21.0	17.5-21.0-25.0	24.0-29.0-34.0	29.5-35.5-42.0	
	(LoLo-Lo-Mid-Hi) WET	CMM	9.0-11.0-13.0	11.0-13.5-16.0	13.5-17.0-20.0	16.5-20.0-24.0	23.0-28.0-33.0	28.5-34.5-41.0	
	Air flow DRY	CFM	353-424-494	424-512-600	512-635-741	618-742-883	847-1,024-1,201	1,042-1,254-1,483	
	(LoLo-Lo-Mid-Hi) WET	CFM	313-384-454	384-472-560	472-595-701	578-702-843	807-984-1,161	1,002-1,214-1,443	
	External pressure	in.WG[Pa]	[35/50/70/100/150]						
	Sound level (LoLo-Lo-Mid-Hi)	dB(A)	28-30-34	30-33-37	30-33-37	30-34-39	33-38-42	36-40-44	
	External finish		Galvanized						
	Dimension	W:mm[inch]	900[35-7/16]			1,100[43-5/16]		1,400[55-1/8]	
	Unit (Panel)	D:mm[inch]	732[28-7/8]						
		H:mm[inch]	250[9-7/8]						
	Weight Unit	kg	26	28	31	39	41		
		lbs	58	62	69	86	91		
	Field Drain pipe size	mm[inch]	OD. φ32[1-1/4]						
Remote controller		Attached in indoor unit							
Outdoor unit	MCA	A	11		19		25		
	MOCP	A	28		26		31		
	Fan Motor	F.L.A	0.5		0.4		0.5 + 0.5		
	Fan Motor Output	W	46		86		74		
	Compressor	Type	SNB092FNCM	SNB130FNCM2	SNB172FVHM1		MNB333FBRMC-L		
		R.L.A		7				8	
		L.R.A	12		11			13	
	Air flow	CMM[CFM]	45[1,590]		55[1,940]		110[3,880]		
	Refrigerant Control		Electronic Expansion Valve						
	Defrost Method		-						
	Sound level at cooling	dB(A)	44		47		52		
	Sound level at heating	dB(A)	-						
	External finish		Ivory Munsell 3Y 7.8/1.1						
	Dimension	W:mm[inch]	809+62 [31-13/16 + 7/16]			950 [37-13/32]		1,050 [41-5/16]	
		D:mm[inch]	300 [11-3/16]						
		H:mm[inch]	630 [24-13/16]			943 [37-1/8]		330 + 30 [13 + 1-3/16]	
	Weight	kg[lbs]	41[92]	44[99]	68[151]		1,338 [52-11/16]	96[211]	
Refrigerant	Type	R410A							
	Charge	kg[lbs,oz]	2.0 [4 lbs 7 oz]	2.2 [4 lbs 14 oz]	3.5 [7 lbs 11 oz]		4.7 [10 lbs 6 oz]		
	Oil	L[oz]	0.35 (FV50S) [12]	0.50 (FV50S) [16]	0.70 (FV50S) [23]		1.40 (FV50S) [45]		
Refrigerant pipe size	Gas side O.D.	mm[inch]	12.7[1/2]		15.88[5/8]				
	Liquid side O.D.	mm[inch]	6.35[1/4]		9.52[3/8]				
Refrigerant pipe length	Height difference	Max. 30m [Max.100ft]							
	Length	Max. 50m [Max.165ft]			Max. 69m [Max.225ft]				
Refrigerant piping		Not Supplied							
Connection Method		Flared							

NOTES : *1.Rating conditions (cooling)-Indoor : D.B. 26.7°C(80°F), W.B. 19.4°C(67°F) Outdoor : D.B. 35°C(95°F), W.B. 23.9°C(75°F)

Operating range

Cooling	Indoor intake air temperature		Outdoor intake air temperature	
	Maximum	D.B. 32°C(90°F), W.B. 23°C(73°F)	D.B. 46°C(115°F)	D.B. -5°C(23°F)
Minimum	D.B. 19°C(66°F), W.B. 15°C(59°F)	D.B. -28.9°C(-20°F)*		

* In case that the wind baffle is installed. (In case that the wind baffle is not installed, the minimum temperature will be -5°C(23°F)DB.)

Model name	Indoor unit	Outdoor unit	PEAD-A12AA7 PUZ-A12NKA7-BS	PEAD-A18AA7 PUZ-A18NKA7-BS	PEAD-A24AA7 PUZ-A24NHA7-BS	PEAD-A30AA7 PUZ-A30NHA7-BS	PEAD-A36AA7 PUZ-A36NKA7-BS	PEAD-A42AA7 PUZ-A42NKA7-BS	
Cooling	Max. Capacity	Btu/h	12,000	18,000	24,000	30,000	36,000	42,000	
	Rated Capacity	Btu/h	12,000	18,000	24,000	30,000	36,000	42,000	
	Min. Capacity	Btu/h	5,000	8,000	10,000	9,000	16,000	16,000	
	Total Input	W	920	1,660	2,050	3,000	3,000	3,920	
	EER	Btu/h/W	13.0	10.8	11.7	10.0	12.0	10.7	
	SEER	Btu/h/W	21.1	19.9	19.6	19.1	19.1	16.1	
	Moisture Removal	Pints/h	1.8	3.7	6.9	8.6	8.1	9.0	
	SHF		0.83	0.77	0.68	0.68	0.75	0.76	
	Power factor	%	90.9	91.4	92.8	93.8	93.8	93.6	
	Heating	Max. Capacity	Btu/h	18,000	22,000	28,000	34,000	40,000	48,000
Rated Capacity		Btu/h	14,000	19,000	26,000	32,000	38,000	45,000	
Min. Capacity		Btu/h	5,800	7,900	9,000	8,800	18,200	18,100	
Total Input		W	1,030	1,400	1,750	2,490	2,410	3,290	
COP		W/W	3.98	3.97	4.35	3.76	4.62	4.00	
HSPF(I/V)		Btu/h/W	10.2/7.5	10.2/7.6	10.8/8.0	10.8/7.7	9.9/7.3	10.0/7.9	
Power factor		%	91.4	92.0	92.8	93.3	92.7	92.9	
Heating at low ambient	Rated Capacity	Btu/h	8,700	11,000	14,800	18,500	20,900	30,600	
	Total Input	W	1,100	1,350	1,630	1,980	2,350	3,040	
	COP	W/W	2.31	2.38	2.66	2.73	2.60	2.95	
Power supply	Phase,Cycle,Voltage	1phase, 60Hz, 208/230V							
Voltage	Breaker size	A	15			25		30	
	Indoor - Outdoor S1-S2	AC208V / 230V							
	Indoor - Outdoor S2-S3	DC24V							
Indoor unit	Indoor - Remote controller	DC12V							
	MCA	A	1.45	1.69	2.63	2.73	3.30	3.50	
	MOCP	A	15						
	Fan Motor	F.L.A	1.16	1.35	2.10	2.18	2.64	2.80	
	Fan Motor Output	W	85		121		244		
	Air flow DRY	CMM	10.0-12.0-14.0	12.0-14.5-17.0	14.5-18.0-21.0	17.5-21.0-25.0	24.0-29.0-34.0	29.5-35.5-42.0	
	(Lo-Mid-Hi) WET	CMM	9.0-11.0-13.0	11.0-13.5-16.0	13.5-17.0-20.0	16.5-20.0-24.0	23.0-28.0-33.0	28.5-34.5-41.0	
	Air flow DRY	CFM	353-424-494	424-512-600	512-635-741	618-742-883	847-1,024-1,201	1,042-1,254-1,483	
	(Lo-Mid-Hi) WET	CFM	313-384-454	384-472-560	472-595-701	578-702-843	807-984-1,161	1,002-1,214-1,443	
	External pressure	in.WG[Pa]	[35/50/70/100/150]						
	Sound level (Lo-Mid-Hi)	dB(A)	28-30-34	30-33-37	30-33-37	30-34-39	33-38-42	36-40-44	
	External finish	Galvanized							
	Dimension Unit (Panel)	W:mm[inch]	900[35-7/16]			1,100[43-5/16]		1,400[55-1/8]	
		D:mm[inch]	732[28-7/8]						
		H:mm[inch]	250[9-7/8]						
Weight Unit	kg	26	28	31	39	41			
	lbs	58	62	69	86	91			
Field Drain pipe size	mm[inch]	OD. φ32[1-1/4]							
Remote controller	Attached in indoor unit								
Outdoor unit	MCA	A	11	19	25				
	MOCP	A	28	26	31				
	Fan Motor	F.L.A	0.5	0.4	0.5 + 0.5				
	Fan Motor Output	W	46	86	74				
	Compressor	Type	SNB092FNCM	SNB130FNCM2	SNB172FVWHM1	MNB33FBRMC-L			
		R.L.A	7			8			
		L.R.A	12			13			
	Air flow	CMM[CFM]	45[1,590]			55[1,940]		110[3,880]	
	Refrigerant Control	Electronic Expansion Valve							
	Defrost Method	Reverse Cycle							
	Sound level at cooling	dB(A)	44			47		52	
	Sound level at heating	dB(A)	46			48		53	
	External finish	Ivory Munsell 3Y 7.8/1.1							
	Dimension	W:mm[inch]	809+62 [31-13/16 + 7/16]			950 [37-13/32]		1,050 [41-5/16]	
		D:mm[inch]	300 [11-3/16]			330 + 30 [13 + 1-3/16]			
	H:mm[inch]	630 [24-13/16]			943 [37-1/8]		1,338 [52-11/16]		
Weight	kg[lbs]	42 [93]	45[100]	69[153]	97[214]				
Refrigerant	Type	R410A							
	Charge	kg[lbs,oz]	2.0 [4 lbs 7 oz]	2.2 [4 lbs 14 oz]	3.5 [7 lbs 11 oz]	4.7 [10 lbs 6 oz]			
	Oil	L[oz]	0.35 (FV50S) [12]	0.50 (FV50S) [16]	0.70 (FV50S) [23]	15.88[5/8]		1.40 (FV50S) [45]	
Refrigerant pipe size	Gas side O.D.	mm[inch]	12.71[1/2F]			15.88[5/8]			
	Liquid side O.D.	mm[inch]	6.35[1/4F]			9.52[3/8]			
Refrigerant pipe length	Height difference	Max. 30m [Max.100ft]							
	Length	Max. 30m [Max.100ft]			Max. 30m [Max.100ft]		Max. 50m [Max.165ft]		
Refrigerant piping	Not Supplied								
Connection Method	Flared								

NOTES : *1.Rating conditions (cooling)-Indoor : D.B. 26.7°C(80°F), W.B. 19.4°C(67°F) Outdoor : D.B. 35°C(95°F), W.B. 23.9°C(75°F)
(heating)-Indoor : D.B. 21.1°C(70°F), W.B. 15.6°C(60°F) Outdoor : D.B. 8.3°C(47°F), W.B. 6.1°C(43°F)
*2.Rating conditions (heating)-Indoor : D.B. 21.1°C(70°F), W.B. 15.6°C(60°F) Outdoor : D.B. -8.3°C(17°F), W.B. -9.4°C(15°F)

Operating range (For A12/18 model)

Cooling	Maximum	Indoor intake air temperature		Outdoor intake air temperature	
		Minimum	D.B. 32°C(90°F), W.B. 23°C(73°F)	D.B. 19°C(66°F), W.B. 15°C(59°F)	D.B. 46°C(115°F)
Heating	Maximum	D.B. 28°C(82°F)	D.B. 21°C(70°F), W.B. 15°C(59°F)	D.B. -18°C(0°F)*	
	Minimum	D.B. 10°C(50°F)	D.B. -11°C(12°F), W.B. -12°C(10°F)		

Operating range (For A24/30/36/42 model)

Cooling	Maximum	Indoor intake air temperature		Outdoor intake air temperature	
		Minimum	D.B. 32°C(90°F), W.B. 23°C(73°F)	D.B. 19°C(66°F), W.B. 15°C(59°F)	D.B. 46°C(115°F)
Heating	Maximum	D.B. 28°C(82°F)	D.B. 21°C(70°F), W.B. 15°C(59°F)	D.B. -18°C(0°F)*	
	Minimum	D.B. 10°C(50°F)	D.B. -20°C(-4°F), W.B. -20°C(-4°F)		

* In case that the wind baffle is installed. (In case that the wind baffle is not installed, the minimum temperature will be -5°C(23°F)DB.)

2-5. INVERTER MULTI POSITION TYPE (PVA)

Model name	Indoor unit		PVA-A12AA7	PVA-A18AA7	PVA-A24AA7	PVA-A30AA7	PVA-A36AA7	PVA-A42AA7	
	Outdoor unit		PUY-A12NKA7 PUY-A12NKA7-BS	PUY-A18NKA7 PUY-A18NKA7-BS	PUY-A24NHA7 PUY-A24NHA7-BS	PUY-A30NHA7 PUY-A30NHA7-BS	PUY-A36NKA7 PUY-A36NKA7-BS	PUY-A42NKA7 PUY-A42NKA7-BS	
Cooling	Max. Capacity	Btu/h	12,000	18,000	24,000	30,000	36,000	42,000	
	Rated Capacity	Btu/h	12,000	18,000	24,000	30,000	36,000	42,000	
	Min. Capacity	Btu/h	4,800	7,000	10,000	10,000	14,600	15,000	
	Total Input	W	890	1,570	1,960	3,000	3,250	4,150	
	EER	Btu/h/W	13.4	11.4	12.2	10.0	9.8	10.1	
	SEER	Btu/h/W	21.4	20.2	20.5	19.0	19.3	18.0	
	Moisture Removal	Pints/h	2.5	3.9	3.7	7.0	7.4	7.2	
	SHF		0.77	0.76	0.83	0.74	0.77	0.81	
	Power factor	%	87.9	89.8	89.7	93.2	88.3	87.6	
	Heating	Max. Capacity	Btu/h	-	-	-	-	-	-
Rated Capacity		Btu/h	-	-	-	-	-	-	
Min. Capacity		Btu/h	-	-	-	-	-	-	
Total Input		W	-	-	-	-	-	-	
COP		W/W	-	-	-	-	-	-	
HSPF(I/V)		Btu/h/W	-	-	-	-	-	-	
Power factor		%	-	-	-	-	-	-	
Rated Capacity		Btu/h	-	-	-	-	-	-	
Heating at low ambient	Total Input	W	-	-	-	-	-	-	
	COP	W/W	-	-	-	-	-	-	
Power supply	Phase,Cycle,Voltage	1phase, 60Hz, 208/230V							
	Breaker size	A	15		25		30		
Voltage	Indoor - Outdoor S1-S2	AC208V / 230V							
	Indoor - Outdoor S2-S3	DC24V							
	Indoor - Remote controller	DC12V							
Indoor unit	MCA	A	3.00		4.13		5.50	5.63	
	MOCP	A			15				
	Fan Motor	F.L.A	2.4		3.3		4.4	4.5	
	Fan Motor Output	W	121		244		430		
	Air flow DRY (LoLo-Lo-Mid-Hi) WET	CMM	7.9-9.6-11.3	14.6-17.7-20.8	17.3-21.1-24.8		22.3-27.1-31.9	29.4-35.7-42.0	
	Air flow DRY (LoLo-Lo-Mid-Hi) WET	CFM	280-340-400	515-625-735	613-744-875		788-956-1,125	1,040-1,262-1,485	
	(LoLo-Lo-Mid-Hi) WET	CFM							
	External pressure	in.WG[Pa]	<75>-125-<200>						
	Sound level (LoLo-Lo-Mid-Hi)	75Pa dB(A)	24-28-32	28-33-36	30-34-38		30-34-38	34-38-42	
		125Pa dB(A)	27-31-35	30-34-38	32-36-40		32-36-40	36-40-44	
		200Pa dB(A)	32-36-42	34-38-42	35-39-43		37-42-45	39-43-47	
	External finish	Galvanized steel cabinet-Powder coated Slate Gray							
	Dimension	W:mm[inch]	432[17]		534[21]		635[25]		
	Unit (Panel)	D:mm[inch]			548[21-5/8]				
		H:mm[inch]	1,275[50-1/4]		1,378[54-1/4]		1,511[59-1/2]		
Weight Unit	kg	51		64		78			
	lbs	113		141		172			
Field Drain pipe size	mm[inch]	19.05[3/4] FPT							
Remote controller	Attached in indoor unit								
Outdoor unit	MCA	A	11		19		25		
	MOCP	A	28		26		31		
	Fan Motor	F.L.A	0.5		0.4		0.5 + 0.5		
	Fan Motor Output	W	46		86		74		
	Compressor	Type	SNB092FNCM	SNB130FNCM2	SNB172FVHM1		MNB33FBRMC-L		
		R.L.A		7			8		
		L.R.A		12		11	13		
	Air flow	CMM[CFM]	45[1,590]		55[1,940]		110[3,880]		
	Refrigerant Control	Electronic Expansion Valve							
	Defrost Method								
	Sound level at cooling	dB(A)	44		47		52		
	Sound level at heating	dB(A)							
	External finish	Ivory Munsell 3Y 7.8/1.1							
	Dimension	W:mm[inch]	809+62 [31-13/16 + 7/16]		950 [37-13/32]		1,050 [41-5/16]		
		D:mm[inch]	300 [11-3/16]			330 + 30 [13 + 1- 3/16]			
	H:mm[inch]	630 [24-13/16]		943 [37-1/8]		1,338 [52-11/16]			
Weight	kg[lbs]	41[92]	44[99]	68[151]		96[211]			
Refrigerant	Type	R410A							
Charge	kg[lbs,oz]	2.0 [4 lbs 7 oz]	2.2 [4 lbs 14 oz]	3.5 [7 lbs 11 oz]		4.7 [10 lbs 6 oz]			
Oil	L[oz]	0.35 (FV50S) [12]	0.50 (FV50S) [16]	0.70 (FV50S) [23]		1.40 (FV50S) [45]			
Refrigerant pipe size	Gas side O.D.	mm[inch]	12.7[1/2]			15.88[5/8]			
	Liquid side O.D.	mm[inch]	6.35[1/4]			9.52[3/8]			
Refrigerant pipe length	Height difference	Max. 30m [Max.100ft]							
	Length	Max. 50m [Max.165ft]			Max. 69m [Max.225ft]				
Refrigerant piping	Not Supplied								
Connection Method	Flared								

NOTES : *1.Rating conditions (cooling)-Indoor : D.B. 26.7°C(80°F), W.B. 19.4°C(67°F) Outdoor : D.B. 35°C(95°F), W.B. 23.9°C(75°F)

Operating range

Cooling	Indoor intake air temperature		Outdoor intake air temperature	
	Maximum	D.B. 32°C(90°F), W.B. 23°C(73°F)	D.B. 46°C(115°F)	
Minimum	D.B. 19°C(66°F), W.B. 15°C(59°F)	D.B. -5°C(23°F) D.B. -28.9°C(-20°F)*		

* In case that the wind baffle is installed. (In case that the wind baffle is not installed, the minimum temperature will be -5°C(23°F)DB.)

Model name	Indoor unit		PVA-A12AA7	PVA-A18AA7	PVA-A24AA7	PVA-A30AA7	PVA-A36AA7	PVA-A42AA7	
	Outdoor unit		PUZ-A12NKA7	PUZ-A18NKA7	PUZ-A24NHA7	PUZ-A30NHA7	PUZ-A36NKA7	PUZ-A42NKA7	
			PUZ-A12NKA7-BS	PUZ-A18NKA7-BS	PUZ-A24NHA7-BS	PUZ-A30NHA7-BS	PUZ-A36NKA7-BS	PUZ-A42NKA7-BS	
Cooling	Max. Capacity	Btu/h	12,000	18,000	24,000	30,000	36,000	42,000	
	Rated Capacity	Btu/h	12,000	18,000	24,000	30,000	36,000	42,000	
	Min. Capacity	Btu/h	4,800	7,000	10,000	10,000	14,600	15,000	
	Total Input	W	890	1,570	1,960	3,000	3,250	4,150	
	EER	Btu/h/W	13.4	11.4	12.2	10.0	9.8	10.1	
	SEER	Btu/h/W	21.4	20.2	20.5	19.0	19.3	18.0	
	Moisture Removal	Pints/h	2.5	3.9	3.7	7.0	7.4	7.2	
	SHF		0.77	0.76	0.83	0.74	0.77	0.81	
	Power factor	%	87.9	89.8	89.7	93.2	88.3	87.6	
	Heating	Max. Capacity	Btu/h	19,000	23,000	28,000	34,000	42,000	48,000
Rated Capacity		Btu/h	14,000	19,000	26,000	32,000	38,000	46,000	
Min. Capacity		Btu/h	5,700	7,700	12,000	12,000	17,700	18,100	
Total Input		W	1,070	1,470	1,920	2,640	3,030	3,900	
COP		W/W	3.83	3.78	3.96	3.55	3.67	3.45	
HSPF(I/V)		Btu/h/W	10.3/7.8	10.4/7.6	9.3/7.0	10.0/7.5	9.5/7.3	9.3/7.3	
Power factor		%	96.4	96.2	96.8	96.8	96.0	95.4	
Rated Capacity		Btu/h	9,900	12,000	15,000	18,000	24,000	28,500	
Total Input		W	1,400	1,520	1,760	2,110	2,990	3,440	
COP		W/W	2.07	2.31	2.49	2.50	2.35	2.42	
Power supply	Phase,Cycle,Voltage		1phase, 60Hz, 208/230V						
	Breaker size	A	15			25		30	
Voltage	Indoor - Outdoor S1-S2		AC208V / 230V						
	Indoor - Outdoor S2-S3		DC24V						
	Indoor - Remote controller		DC12V						
Indoor unit	MCA	A	3.00		4.13		5.50		
	MOCP	A	15						
	Fan Motor	F.L.A	2.4		3.3		4.4		
	Fan Motor Output	W	121		244		430		
	Air flow DRY(Lo-Mid-Hi)	CMM	7.9-9.6-11.3		14.6-17.7-20.8		17.3-21.1-24.8		
	Air flow WET(Lo-Mid-Hi)	CMM					22.3-27.1-31.9		
	Air flow DRY(Lo-Mid-Hi)	CFM	280-340-400		515-625-735		613-744-875		
	Air flow WET(Lo-Mid-Hi)	CFM					788-956-1,125		
	External pressure	in.WG[Pa]	<75>-125-<200>						
	Sound level (Lo-Mid-Hi)	75Pa	dB(A)	24-28-32		28-33-36		30-34-38	
		125Pa	dB(A)	27-31-35		30-34-38		32-36-40	
		200Pa	dB(A)	32-36-42		34-38-42		35-39-43	
	External finish		Galvanized steel cabinet-Powder coated Slate Gray						
	Dimension Unit (Panel)	W:mm[inch]		432[17]		534[21]		635[25]	
D:mm[inch]			548[21-5/8]						
H:mm[inch]			1,275[50-1/4]		1,378[54-1/4]		1,511[59-1/2]		
Weight Unit	kg		51		64		78		
	lbs		113		141		172		
Field Drain pipe size	mm[inch]		19.05[3/4] FPT						
Remote controller			Attached in indoor unit						
Outdoor unit	MCA	A	11		19		25		
	MOCP	A	28						
	Fan Motor	F.L.A	0.5		0.4		0.5 + 0.5		
	Fan Motor Output	W	46		86		74		
	Compressor	Type		SNB092FNCM	SNB130FNCM2	SNB172FVHM1		MNB33FBRMC-L	
		R.L.A		7					
		L.R.A		12		11		8	
	Air flow	CMM[CFM]	45[1,590]		55[1,940]		110[3,880]		
	Refrigerant Control		Electronic Expansion Valve						
	Defrost Method		Reverse Cycle						
	Sound level at cooling	dB(A)	44		47		52		
	Sound level at heating	dB(A)	46		48		53		
	External finish		Ivory Munsell 3Y 7.8/1.1						
	Dimension	W:mm[inch]		809+62 [31-13/16 + 7/16]		950 [37-13/32]		1,050 [41-5/16]	
D:mm[inch]			300 [11-3/16]		330 + 30 [13 + 1-3/16]				
H:mm[inch]			630 [24-13/16]		943 [37-1/8]		1,338 [52-11/16]		
Weight	kg[lbs]	42 [93]		45[100]		69[153]			
Refrigerant	Type		R410A						
	Charge	kg[lbs.oz]	2.0 [4 lbs 7 oz]		2.2 [4 lbs 14 oz]		3.5 [7 lbs 11 oz]		
	Oil	L[oz]	0.35 (FV50S) [12]		0.50 (FV50S) [16]		0.70 (FV50S) [23]		
Refrigerant pipe size	Gas side O.D.	mm[inch]	12.7[1/2]		15.88[5/8]		15.88[5/8]		
	Liquid side O.D.	mm[inch]	6.35[1/4]		9.52[3/8]		9.52[3/8]		
Refrigerant pipe length	Height difference		Max. 30m [Max.100ft]						
	Length		Max. 30m [Max.100ft]			Max. 50m [Max.165ft]			
Refrigerant piping		Not Supplied							
Connection Method		Flared							

NOTES : *1.Rating conditions (cooling)-Indoor : D.B. 26.7°C(80°F), W.B. 19.4°C(67°F) Outdoor : D.B. 35°C(95°F), W.B. 23.9°C(75°F)
(heating)-Indoor : D.B. 21.1°C(70°F), W.B. 15.6°C(60°F) Outdoor : D.B. 8.3°C(47°F), W.B. 6.1°C(43°F)
*2.Rating conditions (heating)-Indoor : D.B. 21.1°C(70°F), W.B. 15.6°C(60°F) Outdoor : D.B. -8.3°C(17°F), W.B. -9.4°C(15°F)

Operating range (For A12/18 model)

Cooling	Maximum	Indoor intake air temperature		Outdoor intake air temperature	
		D.B. 32°C(90°F), W.B. 23°C(73°F)	D.B. 46°C(115°F)		
Heating	Minimum	D.B. 19°C(66°F), W.B. 15°C(59°F)		D.B. -5°C(23°F)	
		D.B. 28°C(82°F)		D.B. -18°C(0°F)*	
Heating	Maximum	D.B. 28°C(82°F)		D.B. 21°C(70°F), W.B. 15°C(59°F)	
		D.B. 10°C(50°F)		D.B. -11°C(12°F), W.B. -12°C(10°F)	

Operating range (For A24/30/36/42 model)

Cooling	Maximum	Indoor intake air temperature		Outdoor intake air temperature	
		D.B. 32°C(90°F), W.B. 23°C(73°F)	D.B. 46°C (115°F)		
Heating	Minimum	D.B. 19°C (66°F), W.B. 15°C (59°F)		D.B. -5°C (23°F)	
		D.B. 28°C (82°F)		D.B. -18°C (0°F)*	
Heating	Maximum	D.B. 28°C (82°F)		D.B. 21°C (70°F), W.B. 15°C (59°F)	
		D.B. 10°C (50°F)		D.B. -20°C (-4°F), W.B. -20°C (-4°F)	

* In case that the wind baffle is installed. (In case that the wind baffle is not installed, the minimum temperature will be -5°C(23°F)DB.)

2-6. HYPER HEATING INVERTER

Model name	Indoor unit		PLA-A30EA7	PLA-A36EA7	PLA-A42EA7
Cooling	Outdoor unit		PUZ-HA30NHA5	PUZ-HA36NHA5	PUZ-HA42NKA
	Max. Capacity	Btu/h	30,000	36,000	42,000
	Rated Capacity	Btu/h	30,000	36,000	42,000
	Min. Capacity	Btu/h	18,000	18,000	19,000
	Total Input	W	2,400	2,850	4,160
	EER	Btu/h/W	12.5	12.6	10.1
	SEER	Btu/h/W	15.6	17.0	14.8
	Moisture Removal	Pints/h	7.2	7.1	10.9
	SHF		0.73	0.71	0.71
	*1 Power factor	%	94.9	93.9	94.7
	Heating	Max. Capacity	Btu/h	34,000	40,000
Rated Capacity		Btu/h	32,000	38,000	48,000
Min. Capacity		Btu/h	18,000	18,000	21,000
Total Input		W	3,330	3,130	4,560
COP		W/W	2.81	3.55	3.08
HSPF (I/V)		Btu/h/W	9.6/7.3	10.2/8.2	10.1/8.4
*1 Power factor		%	96.5	95.5	96.5
Heating at 17°F (-8.3°C)	Max. Capacity	Btu/h	32,000	38,000	48,000
	Total Input	W	5,720	5,300	7,100
	*2 COP	W/W	1.69	2.12	1.98
Heating at 5°F (-15°C)	Max. Capacity	Btu/h	32,000	38,000	48,000
	Total Input	W	6,460	5,790	7,770
	*3 COP	W/W	1.45	1.92	1.81
Power supply	Phase, Cycle, Voltage		1phase, 60Hz, 208/230V		
	Breaker size	A	30		40
Voltage	Indoor - Outdoor S1-S2		AC208/230V		
	Indoor - Outdoor S2-S3		DC24V		
	Indoor - Remote Controller		DC12V		
Indoor unit	MCA	A	1		2
	MOCP	A		15	
	Fan motor	F.L.A.	0.74		0.95
	Fan motor output	W		120	
	Air flow DRY(Lo-M2-M1-Hi)	CMM	16.0-19.0-22.0-25.0	19.0-24.0-29.0-34.0	21.0-26.0-30.0-34.0
	Air flow WET(Lo-M2-M1-Hi)	CMM	15.0-18.0-21.0-24.0	18.0-23.0-28.0-33.0	20.0-25.0-29.0-33.0
	Air flow DRY(Lo-M2-M1-Hi)	CFM	570-670-780-880	670-850-1,020-1,200	740-920-1,060-1,200
	Air flow WET(Lo-M2-M1-Hi)	CFM	530-630-740-840	630-810-980-1,160	700-880-1,020-1,160
	External pressure	in.WG [Pa]	0		
	Sound level (Lo-M2-M1-Hi)	dB(A)	28-32-35-38	32-37-41-44	34-38-41-45
	External finish (panel)		White Munsell 6.4Y 8.9/0.4		
	Dimension Unit (panel)	W: mm [inch]	840 (950) [33-3/32 (37-13/32)]		
		D: mm [inch]	840 (950) [33-3/32 (37-13/32)]		
		H: mm [inch]	298 (40) [11-3/4 (1-9/16)]		
	Weight Unit(panel)	kg[lbs]	25 (5) [56 (11)]		
Field drain pipe size O.D.		32 [1-1/4]			
Remote Controller	Attached in indoor unit				
Outdoor unit	MCA	A	28		37
	MOCP	A	40		44
	Fan motor	F.L.A.		0.4 + 0.4	
	Fan motor output	W		86 + 86	
	Compressor	Type	ANB33FJEMT		ANB42FJTMT
		R.L.A.	18.0		19.0
		L.R.A.	27.5		28.0
	Air flow	CMM [CFM]	100 [3,530]		94 [3,320]
	Refrigerant Control		Electronic Expansion Valve		
	Defrost Method		Reverse cycle		
	Sound level at cooling	dB(A)	52		49
	Sound level at heating	dB(A)	53		51
	External finish		Munsell 3Y 7.8/1.1		
	Dimension Unit	W: mm [inch]	950 [37-3/8]		1,050 [41-6/16]
		D: mm [inch]	300+30 [13 + 1-3/16]		
H: mm [inch]		1,350 [53-1/8]		1,338 [52-11/16]	
Weight Unit	kg[lbs]	120 [265]		130 [287]	
Refrigerant	Type	R410A			
	Charge	kg [lbs.oz]	5.5 [12lbs 2oz]	6.0 [13lbs 4oz]	
	Oil	L [oz]	1.4(FV50S) [45]	1.7(FVC68D) [54]	
Refrigerant pipe size	Gas side O.D.	15.88 [5/8]			
	Liquid side O.D.	9.52 [3/8]			
Refrigerant pipe length	Height difference IU-OU	Max. 30m [Max.100ft]			
	Length	Max. 75m [Max.245ft]			
Refrigerant Piping	Not Supplied				
Connection Method	Flared				

NOTES : *1.Rating conditions (cooling)-Indoor : D.B. 26.7°C(80°F), W.B. 19.4°C(67°F) Outdoor : D.B. 35°C(95°F), W.B. 23.9°C(75°F)
 (heating)-Indoor : D.B. 21.1°C(70°F), W.B. 15.6°C(60°F) Outdoor : D.B. 8.3°C(47°F), W.B. 6.1°C(43°F)
 *2.Conditions (heating)-Indoor : D.B. 21.1°C(70°F), W.B. 15.6°C(60°F) Outdoor : D.B. -8.3°C(17°F), W.B. -9.4°C(15°F)
 *3.Conditions (heating)-Indoor : D.B. 21.1°C(70°F), W.B. 15.6°C(60°F) Outdoor : D.B. -15°C(5°F), W.B. -15°C(5°F)

Operating range

Cooling	Indoor intake air temperature		Outdoor intake air temperature	
	Maximum	D.B. 32°C(90°F), W.B. 23°C(73°F)	D.B. 46°C(115°F)	
Minimum	D.B. 19°C(66°F), W.B. 15°C(59°F)	D.B. -5°C(23°F) D.B. -18°C(0°F)*		
Heating	Maximum	D.B. 28°C(83°F)		D.B. 21.1°C(70°F), W.B. 15°C(59°F)
	Minimum	D.B. 10°C(50°F)		D.B. -25°C(-13°F), W.B. -25°C(-13°F)

* In case that the wind baffle is installed. (In case that the wind baffle is not installed, the minimum temperature will be -5°C(23°F)DB.)

Model name	Indoor unit		PKA-A30EA7	PKA-A36EA7
Cooling	Outdoor unit		PUZ-HA30NHA5	PUZ-HA36NHA5
	Max. Capacity	Btu/h	30,000	34,200
	Rated Capacity	Btu/h	30,000	33,500
	Min. Capacity	Btu/h	18,000	18,000
	Total Input	W	2,500	2,790
	EER	Btu/h/W	12.0	12.0
	SEER	Btu/h/W	16.5	16.2
	Moisture Removal	Pints/h	8.1	8.7
	SHF		0.70	0.71
	*1	Power factor	%	96.2
Heating	Max. Capacity	Btu/h	34,000	40,000
	Rated Capacity	Btu/h	32,000	38,000
	Min. Capacity	Btu/h	18,000	18,000
	Total Input	W	2,930	3,410
	COP	W/W	3.20	3.27
	HSPF (I/V)	Btu/h/W	9.5/7.3	10.0/7.8
*1	Power factor	%	96.5	96.3
Heating at 17°F (-8.3°C)	Max. Capacity	Btu/h	32,000	38,000
	Total Input	W	5,080	6,010
	*2	COP	W/W	1.85
Heating at 5°F (-15°C)	Max. Capacity	Btu/h	32,000	38,000
	Total Input	W	5,770	6,760
	*3	COP	W/W	1.63
Power supply	Phase, Cycle, Voltage		1phase, 60Hz, 208/230V	
	Breaker size		A 30	
Voltage	Indoor - Outdoor S1-S2		AC208/230V	
	Indoor - Outdoor S2-S3		DC24V	
	Indoor - Remote Controller		DC12V	
Indoor unit	MCA	A	1	
	MOCP	A	15	
	Fan motor	F.L.A.	0.36	0.57
	Fan motor output	W	56	
	Air flow DRY(Lo-Mid-Hi)	CMM	18.0-20.0-22.0	20.0-23.0-26.0
	Air flow WET(Lo-Mid-Hi)	CMM	16.0-18.0-20.0	18.0-21.0-23.0
	Air flow DRY(Lo-Mid-Hi)	CFM	635-705-775	705-810-920
	Air flow WET(Lo-Mid-Hi)	CFM	570-635-700	635-730-830
	External pressure	in.WG [Pa]	0	
	Sound level (Lo-Mid-Hi)	dB(A)	39-42-45	43-46-49
	External finish		White Munsell 1.0Y 9.2/0.2	
	Dimension Unit	W: mm [inch]	1,170 [46-1/16]	
		D: mm [inch]	295 [11-5/8]	
		H: mm [inch]	365 [14-3/8]	
	Weight Unit	kg[lbs]	21 [46]	
Field drain pipe size O.D.	mm[inch]	16 [5/8]		
Remote Controller			Attached in indoor unit	
Outdoor unit	MCA	A	28	
	MOCP	A	40	
	Fan motor	F.L.A.	0.4 + 0.4	
	Fan motor output	W	86 + 86	
	Compressor	Type	ANB33FJEMT	
		R.L.A.	18.0	
		L.R.A.	27.5	
	Air flow	CMM [CFM]	100 [3,530]	
	Refrigerant Control		Electronic Expansion Valve	
	Defrost Method		Reverse cycle	
	Sound level at cooling	dB(A)	52	
	Sound level at heating	dB(A)	53	
	External finish		Munsell 3Y 7.8/1.1	
	Dimension Unit	W: mm [inch]	950 [37-3/8]	
		D: mm [inch]	300+30 [13 + 1-3/16]	
H: mm [inch]		1,350 [53-1/8]		
Weight Unit	kg[lbs]	120 [265]		
Refrigerant	Type	R410A		
	Charge	kg [lbs,oz]	5.5 [12lbs 2oz]	
	Oil	L [oz]	1.4(FV50S) [45]	
Refrigerant pipe size	Gas side O.D.	mm [inch]	15.88 [5/8]	
	Liquid side O.D.	mm [inch]	9.52 [3/8]	
Refrigerant pipe length	Height difference IU-OU	Max. 30m [Max.100ft]		
	Length	Max. 75m [Max.245ft]		
Refrigerant Piping		Not Supplied		
Connection Method		Flared		

NOTES : *1.Rating conditions (cooling)-Indoor : D.B. 26.7°C(80°F), W.B. 19.4°C(67°F) Outdoor : D.B. 35°C(95°F), W.B. 23.9°C(75°F)
(heating)-Indoor : D.B. 21.1°C(70°F), W.B. 15.6°C(60°F) Outdoor : D.B. 8.3°C(47°F), W.B. 6.1°C(43°F)
*2.Conditions (heating)-Indoor : D.B. 21.1°C(70°F), W.B. 15.6°C(60°F) Outdoor : D.B. -8.3°C(17°F), W.B. -9.4°C(15°F)
*3.Conditions (heating)-Indoor : D.B. 21.1°C(70°F), W.B. 15.6°C(60°F) Outdoor : D.B. -15°C(5°F), W.B. -15°C(5°F)

Operating range

Cooling	Maximum	Indoor intake air temperature		Outdoor intake air temperature	
		Minimum	D.B. 32°C(90°F), W.B. 23°C(73°F)	D.B. 19°C(66°F), W.B. 15°C(59°F)	D.B. 46°C(115°F)
Heating	Maximum	D.B. 28°C(83°F)		D.B. 21.1°C(70°F), W.B. 15°C(59°F)	
	Minimum	D.B. 10°C(50°F)		D.B. -25°C(-13°F), W.B. -25°C(-13°F)	

* In case that the wind baffle is installed. (In case that the wind baffle is not installed, the minimum temperature will be -5°C(23°F)DB.)

Model name	Indoor unit	PCA-A30KA7	PCA-A36KA7	PCA-A42KA7	
Cooling	Outdoor unit	PUZ-HA30NHA5	PUZ-HA36NHA5	PUZ-HA42NKA	
	Max. Capacity	Btu/h	30,000	36,000	42,000
	Rated Capacity	Btu/h	30,000	34,000	42,000
	Min. Capacity	Btu/h	18,000	18,000	19,000
	Total Input	W	2,480	2,810	4,200
	EER	Btu/h/W	12.1	12.1	10.0
	SEER	Btu/h/W	16.1	16.6	14.5
	Moisture Removal	Pints/h	8.3	8.2	11.7
	SHF		0.69	0.73	0.69
	*1 Power factor	%	96.3	93.3	95.6
Heating	Max. Capacity	Btu/h	34,000	40,000	54,000
	Rated Capacity	Btu/h	32,000	38,000	48,000
	Min. Capacity	Btu/h	18,000	18,000	21,000
	Total Input	W	2,990	3,270	4,150
	COP	W/W	3.14	3.41	3.39
Heating at 17°F (-8.3°C)	HSPF (I/V)	Btu/h/W	9.3/7.2	10.3/8.2	10.4/9.0
	*1 Power factor	%	96.3	94.2	95.5
Heating at 5°F (-15°C)	Max. Capacity	Btu/h	32,000	38,000	48,000
	Total Input	W	5,170	5,720	7,020
	*2 COP	W/W	1.81	1.95	2.00
Power supply	Max. Capacity	Btu/h	32,000	38,000	48,000
	Total Input	W	5,830	6,550	7,580
Voltage	*3 COP	W/W	1.61	1.70	1.85
	Phase, Cycle, Voltage		1phase, 60Hz, 208/230V		
Indoor unit	Breaker size	A	30	40	
	Indoor - Outdoor S1-S2		AC208/230V		
	Indoor - Outdoor S2-S3		DC24V		
Indoor unit	Indoor - Remote Controller		DC12V		
	MCA	A	1	2	
	MOCP	A	15		
	Fan motor	F.L.A.	0.54	0.97	
	Fan motor output	W	95	160	
	Air flow DRY(Lo-M2-M1-Hi)	CMM	16.0-17.0-18.0-20.0	22.0-24.0-26.0-28.0	23.0-25.0-27.0-29.0
	Air flow WET(Lo-M2-M1-Hi)	CMM	15.0-16.0-17.0-19.0	20.0-22.0-24.0-26.0	21.0-23.0-25.0-27.0
	Air flow DRY(Lo-M2-M1-Hi)	CFM	565-600-635-705	775-850-920-990	810-885-955-1,025
	Air flow WET(Lo-M2-M1-Hi)	CFM	530-565-600-670	705-775-850-920	740-810-885-955
	External pressure	in.WG [Pa]	0		
	Sound level (Lo-M2-M1-Hi)	dB(A)	35-37-39-41	37-39-41-43	39-41-43-45
	External finish		White Munsell 6.4Y 8.9/0.4		
	Dimension Unit	W: mm [inch]	1,280 [50-3/8]	1,600 [63]	
		D: mm [inch]		680 [26-3/4]	
		H: mm [inch]		230 [9-1/16]	
Weight Unit	kg[lbs]	32 [71]	36 [79]	39[86]	
	Field drain pipe size O.D.	mm[inch]	26 [1-1/32]		
Remote Controller		Attached in indoor unit			
Outdoor unit	MCA	A	28	37	
	MOCP	A	40	44	
	Fan motor	F.L.A.	0.4 + 0.4		
	Fan motor output	W	86 + 86		
	Compressor	Type	ANB33FJEMT		ANB42FJTMT
		R.L.A.	18.0		19.0
		L.R.A.	27.5		28.0
	Air flow	CMM [CFM]	100 [3,530]	94 [3,320]	
	Refrigerant Control		Electronic Expansion Valve		
	Defrost Method		Reverse cycle		
	Sound level at cooling	dB(A)	52	49	
	Sound level at heating	dB(A)	53	51	
	External finish		Munsell 3Y 7.8/1.1		
	Dimension Unit	W: mm [inch]	950 [37-3/8]	1,050 [41-6/16]	
		D: mm [inch]		300+30 [13 + 1-3/16]	
H: mm [inch]		1,350 [53-1/8]	1,338 [52-11/16]		
Weight Unit	kg[lbs]	120 [265]	130 [287]		
Refrigerant	Type	R410A			
	Charge	kg [lbs.oz]	5.5 [12lbs 2oz]	6.0 [13lbs 4oz]	
	Oil	L [oz]	1.4(FV50S) [45]	1.7(FVC68D) [54]	
Refrigerant pipe size	Gas side O.D.	mm [inch]	15.88 [5/8]		
	Liquid side O.D.	mm [inch]	9.52 [3/8]		
Refrigerant pipe length	Height difference IU-OU		Max. 30m [Max.100ft]		
	Length		Max. 75m [Max.245ft]		
Refrigerant Piping		Not Supplied			
Connection Method		Flared			

NOTES : *1.Rating conditions (cooling)-Indoor : D.B. 26.7°C(80°F), W.B. 19.4°C(67°F) Outdoor : D.B. 35°C(95°F), W.B. 23.9°C(75°F)
(heating)-Indoor : D.B. 21.1°C(70°F), W.B. 15.6°C(60°F) Outdoor : D.B. 8.3°C(47°F), W.B. 6.1°C(43°F)
*2.Conditions (heating)-Indoor : D.B. 21.1°C(70°F), W.B. 15.6°C(60°F) Outdoor : D.B. -8.3°C(17°F), W.B. -9.4°C(15°F)
*3.Conditions (heating)-Indoor : D.B. 21.1°C(70°F), W.B. 15.6°C(60°F) Outdoor : D.B. -15°C(5°F), W.B. -15°C(5°F)

Operating range

Cooling	Indoor intake air temperature		Outdoor intake air temperature	
	Maximum	D.B. 32°C(90°F), W.B. 23°C(73°F)	D.B. 46°C(115°F)	
Minimum	D.B. 19°C(66°F), W.B. 15°C(59°F)	D.B. -5°C(23°F) D.B. -18°C(0°F)*		
Heating	Maximum	D.B. 28°C(83°F)		D.B. 21.1°C(70°F), W.B. 15°C(59°F)
	Minimum	D.B. 10°C(50°F)		D.B. -25°C(-13°F), W.B. -25°C(-13°F)

* In case that the wind baffle is installed. (In case that the wind baffle is not installed, the minimum temperature will be -5°C(23°F)DB.)

Model name	Indoor unit		PEAD-A30AA7	PEAD-A36AA7	PEAD-A42AA7	
	Outdoor unit		PUZ-HA30NHA5	PUZ-HA36NHA5	PUZ-HA36NHA5	
Cooling	Max. Capacity	Btu/h	30,000	36,000	42,000	
	Rated Capacity	Btu/h	27,000	33,000	42,000	
	Min. Capacity	Btu/h	18,000	18,000	19,000	
	Total Input	W	2,160	2,640	4,200	
	EER	Btu/h/W	12.5	12.5	10.0	
	SEER	Btu/h/W	16.5	16.8	14.3	
	Moisture Removal	Pints/h	8.9	7.3	9.0	
	SHF		0.67	0.76	0.76	
*1	Power factor	%	93.0	93.3	94.1	
Heating	Max. Capacity	Btu/h	34,000	40,000	54,000	
	Rated Capacity	Btu/h	32,000	38,000	48,000	
	Min. Capacity	Btu/h	18,000	18,000	21,000	
	Total Input	W	2,750	3,150	3,800	
	COP	W/W	3.41	3.53	3.70	
	HSPF (IV/V)	Btu/h/W	9.57.3	10.4/8.2	10.8/9.2	
	*1	Power factor	%	94.1	93.8	93.3
	Heating at 17°F (-8.3°C)	Max. Capacity	Btu/h	32,000	38,000	48,000
Total Input		W	4,930	5,400	6,500	
*2		COP	W/W	1.90	2.06	2.16
Heating at 5°F (-15°C)	Max. Capacity	Btu/h	32,000	38,000	48,000	
	Total Input	W	5,420	6,100	7,030	
	*3	COP	W/W	1.73	1.82	2.00
Power supply	Phase, Cycle, Voltage		1phase, 60Hz, 208/230V			
	Breaker size	A	30		40	
Voltage	Indoor - Outdoor S1-S2		AC208/230V			
	Indoor - Outdoor S2-S3		DC24V			
	Indoor - Remote Controller		DC12V			
Indoor unit	MCA	A	2.73	3.30	3.50	
	MOCP	A		15		
	Fan motor	F.L.A.	2.18	2.64	2.80	
	Fan motor output	W	121		244	
	Air flow DRY(Lo-Mid-Hi)	CMM	17.5-21.0-25.0	24.0-29.0-34.0	29.5-35.5-42.0	
	Air flow WET(Lo-Mid-Hi)	CMM	16.5-20.0-24.0	23.0-28.0-33.0	28.5-34.5-41.0	
	Air flow DRY(Lo-Mid-Hi)	CFM	618-742-883	847-1,024-1,201	1,042-1,254-1,483	
	Air flow WET(Lo-Mid-Hi)	CFM	578-702-843	807-984-1,161	1,002-1,214-1,443	
	External pressure	in.WG [Pa]		[35/50/70/100/150]		
	Sound level (Lo-Mid-Hi)	dB(A)	30-34-39	33-38-42	36-40-44	
	External finish		Galvanized			
	Dimension Unit	W: mm [inch]	1,100[43-5/16]		1,400[55-1/8]	
		D: mm [inch]		732[28-7/8]		
		H: mm [inch]		250[9-7/8]		
	Weight Unit	kg[lbs]	31 [69]	39 [86]	41 [91]	
Field drain pipe size O.D.	mm[inch]		32[1-1/4]			
Remote Controller	Attached in indoor unit					
Outdoor unit	MCA	A	28		37	
	MOCP	A	40		44	
	Fan motor	F.L.A.		0.4 + 0.4		
	Fan motor output	W		86 + 86		
	Compressor	Type		ANB33FJEMT	ANB42FJTMT	
		R.L.A.		18.0	19.0	
		L.R.A.		27.5	28.0	
	Air flow	CMM [CFM]	100 [3,530]		94 [3,320]	
	Refrigerant Control	Electronic Expansion Valve				
	Defrost Method	Reverse cycle				
	Sound level at cooling	dB(A)		52	49	
	Sound level at heating	dB(A)		53	51	
	External finish	Munsell 3Y 7.8/1.1				
	Dimension Unit	W: mm [inch]		950 [37-3/8]	1,050 [41-6/16]	
		D: mm [inch]		300+30 [13 + 1-3/16]		
H: mm [inch]			1,350 [53-1/8]	1,338 [52-11/16]		
Weight Unit	kg[lbs]	120 [265]		130 [287]		
Refrigerant	Type	R410A				
	Charge	kg [lbs,oz]	5.5 [12lbs 2oz]		6.0 [13lbs 4oz]	
	Oil	L [oz]	1.4(FV50S) [45]		1.7(FVC68D) [54]	
Refrigerant pipe size	Gas side O.D.	mm [inch]	15.88 [5/8]			
	Liquid side O.D.	mm [inch]	9.52 [3/8]			
Refrigerant pipe length	Height difference IU-OU	Max. 30m [Max.100ft]				
	Length	Max. 75m [Max.245ft]				
Refrigerant Piping	Not Supplied					
Connection Method	Flared					

NOTES : *1.Rating conditions (cooling)-Indoor : D.B. 26.7°C(80°F), W.B. 19.4°C(67°F) Outdoor : D.B. 35°C(95°F), W.B. 23.9°C(75°F)
(heating)-Indoor : D.B. 21.1°C(70°F), W.B. 15.6°C(60°F) Outdoor : D.B. 8.3°C(47°F), W.B. 6.1°C(43°F)
*2.Conditions (heating)-Indoor : D.B. 21.1°C(70°F), W.B. 15.6°C(60°F) Outdoor : D.B. -8.3°C(17°F), W.B. -9.4°C(15°F)
*3.Conditions (heating)-Indoor : D.B. 21.1°C(70°F), W.B. 15.6°C(60°F) Outdoor : D.B. -15°C(5°F), W.B. -15°C(5°F)

Operating range

		Indoor intake air temperature		Outdoor intake air temperature	
		Maximum	D.B. 32°C(90°F), W.B. 23°C(73°F)	Maximum	D.B. 46°C(115°F)
Cooling	Minimum	D.B. 19°C(66°F), W.B. 15°C(59°F)	D.B. -5°C(23°F)	D.B. -18°C(0°F)*	
	Maximum	D.B. 28°C(83°F)	D.B. 21.1°C(70°F), W.B. 15°C(59°F)		
Heating	Minimum	D.B. 10°C(50°F)	D.B. -25°C(-13°F), W.B. -25°C(-13°F)		

* In case that the wind baffle is installed. (In case that the wind baffle is not installed, the minimum temperature will be -5°C(23°F)DB.)

Model name	Indoor unit		PVA-A30AA7	PVA-A36AA7	PVA-A42AA7	
Cooling	Outdoor unit		PUZ-HA30NHA5	PUZ-HA36NHA5	PUZ-HA42NKA	
	Max. Capacity	Btu/h	30,000	36,000	42,000	
	Rated Capacity	Btu/h	28,500	33,000	42,000	
	Min. Capacity	Btu/h	18,000	18,000	19,000	
	Total Input	W	2,280	2,640	4,270	
	EER	Btu/h/W	12.5	12.5	9.8	
	SEER	Btu/h/W	17.0	17.8	15.3	
	Moisture Removal	Pints/h	8.0	7.9	9.0	
	SHF		0.70	0.74	0.76	
	*1 Power factor	%	92.6	87.6	88.4	
Heating	Max. Capacity	Btu/h	34,000	40,000	54,000	
	Rated Capacity	Btu/h	32,000	38,000	48,000	
	Min. Capacity	Btu/h	18,000	18,000	18,000	
	Total Input	W	2,590	3,040	4,010	
	COP	W/W	3.62	3.66	3.50	
	HSPF	Btu/h/W	9.77/5	11.0/9.0	11.0/9.2	
	*1 Power factor	%	93.8	88.7	88.1	
	Max. Capacity	Btu/h	32,000	38,000	48,000	
	Total Input	W	4,930	5,400	6,700	
	*2 COP	W/W	1.90	2.06	2.09	
Heating at 17°F (-8.3°C)	Max. Capacity	Btu/h	32,000	38,000	48,000	
	Total Input	W	4,930	5,400	6,700	
Heating at 5°F (-15°C)	Max. Capacity	Btu/h	32,000	38,000	48,000	
	Total Input	W	5,320	6,100	7,360	
Power supply	Phase, Cycle, Voltage	1phase, 60Hz, 208/230V				
	Breaker size	A	30		40	
Voltage	Indoor - Outdoor S1-S2	AC208/230V				
	Indoor - Outdoor S2-S3	DC24V				
	Indoor - Remote Controller	DC12V				
Indoor unit	MCA	A	4.13	5.50	5.63	
	MOCP	A		15		
	Fan motor	F.L.A.	3.3	4.4	4.5	
	Fan motor output	W	244	430		
	Air flow DRY(Lo-Mid-Hi)	CMM	17.3-21.1-24.8	22.3-27.1-31.9	29.4-35.7-42.0	
	Air flow WET(Lo-Mid-Hi)	CMM				
	Air flow DRY(Lo-Mid-Hi)	CFM	613-744-875	788-956-1,125	1,040-1,262-1,485	
	Air flow WET(Lo-Mid-Hi)	CFM				
	External pressure	in.WG [Pa]	<75>-125-<200>			
	Sound level (Lo-Mid-Hi)	75Pa	dB(A)	30-34-38	30-34-38	34-38-42
		125Pa		32-36-40	32-36-40	36-40-44
		200Pa		35-39-43	37-42-45	39-43-47
	External finish	Galvanized steel cabinet-Powder coated Slate Gray				
	Dimension Unit	W: mm [inch]	534[21]	635[25]		
		D: mm [inch]	548[21-5/8]			
H: mm [inch]		1,378 [54-1/4]	1,511 [59-1/2]			
Weight Unit	kg[lbs]	64 [141]	78 [172]			
Field drain pipe size O.D.	mm[inch]	19.05 [3/4] FPT				
Remote Controller	Attached in indoor unit					
Outdoor unit	MCA	A	28	37		
	MOCP	A	40	44		
	Fan motor	F.L.A.	0.4 + 0.4			
	Fan motor output	W	86 + 86			
	Compressor	Type	ANB33FJEMT			
		R.L.A.	18.0			
		L.R.A.	27.5			
	Air flow	CMM [CFM]	100 [3,530]	94 [3,320]		
	Refrigerant Control	Electronic Expansion Valve				
	Defrost Method	Reverse cycle				
	Sound level at cooling	dB(A)	52	49		
	Sound level at heating	dB(A)	53	51		
	External finish	Munsell 3Y 7.8/1.1				
	Dimension Unit	W: mm [inch]	950 [37-3/8]	1,050 [41-6/16]		
		D: mm [inch]	300+30 [13 + 1-3/16]			
H: mm [inch]		1,350 [53-1/8]	1,338 [52-11/16]			
Weight Unit	kg[lbs]	120 [265]	130 [287]			
Refrigerant	Type	R410A				
	Charge	kg [lbs,oz]	5.5 [12lbs 2oz]	6.0 [13lbs 4oz]		
	Oil	L [oz]	1.4(FV50S) [45]	1.7(FVC68D) [54]		
Refrigerant pipe size	Gas side O.D.	mm [inch]	15.88 [5/8]			
	Liquid side O.D.	mm [inch]	9.52 [3/8]			
Refrigerant pipe length	Height difference IU-OU	Max. 30m [Max.100ft]				
	Length	Max. 75m [Max.245ft]				
Refrigerant Piping	Not Supplied					
Connection Method	Flared					

NOTES : *1.Rating conditions (cooling)-Indoor : D.B. 26.7°C(80°F), W.B. 19.4°C(67°F) Outdoor : D.B. 35°C(95°F), W.B. 23.9°C(75°F)
(heating)-Indoor : D.B. 21.1°C(70°F), W.B. 15.6°C(60°F) Outdoor : D.B. 8.3°C(47°F), W.B. 6.1°C(43°F)
*2.Conditions (heating)-Indoor : D.B. 21.1°C(70°F), W.B. 15.6°C(60°F) Outdoor : D.B. -8.3°C(17°F), W.B. -9.4°C(15°F)
*3.Conditions (heating)-Indoor : D.B. 21.1°C(70°F), W.B. 15.6°C(60°F) Outdoor : D.B. -15°C(5°F), W.B. -15°C(5°F)

Operating range		Indoor intake air temperature	Outdoor intake air temperature
Cooling	Maximum	D.B. 32°C(90°F), W.B. 23°C(73°F)	D.B. 46°C(115°F)
	Minimum	D.B. 19°C(66°F), W.B. 15°C(59°F)	D.B. -5°C(23°F) D.B. -18°C(0°F)*
Heating	Maximum	D.B. 28°C(83°F)	D.B. 21.1°C(70°F), W.B. 15°C(59°F)
	Minimum	D.B. 10°C(50°F)	D.B. -25°C(-13°F), W.B. -25°C(-13°F)

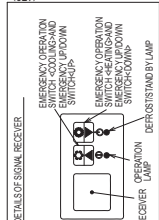
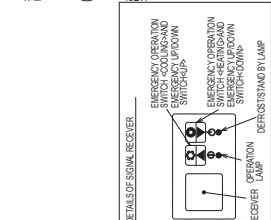
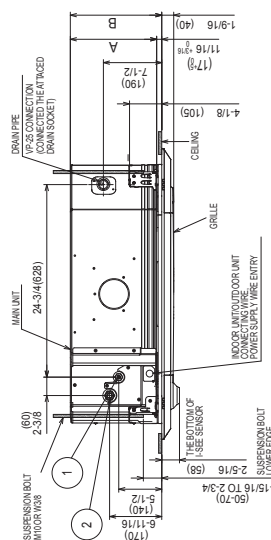
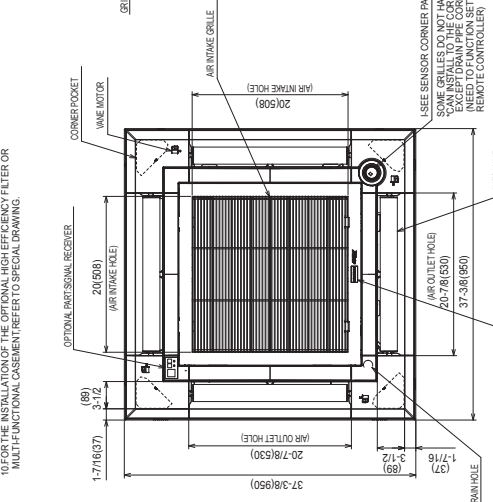
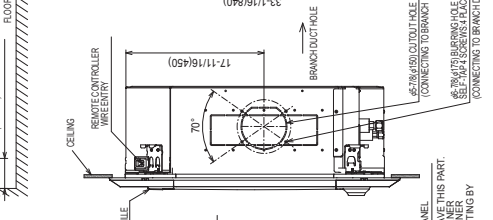
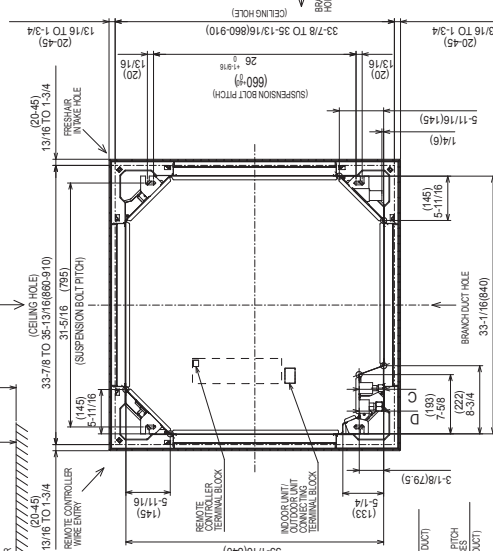
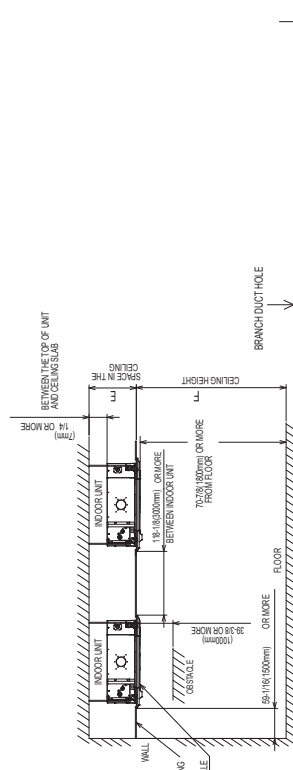
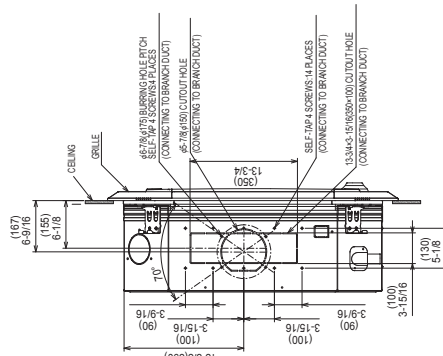
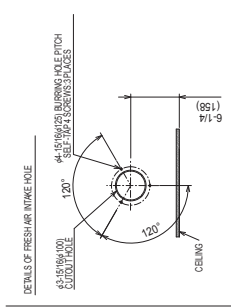
* In case that the wind baffle is installed. (In case that the wind baffle is not installed, the minimum temperature will be -5°C(23°F)DB.)

3 | OUTLINES AND DIMENSIONS

INDOOR UNIT

Unit: inch (mm)

PLA-A12EA7 PLA-A18EA7 PLA-A24EA7 PLA-A30EA7 PLA-A36EA7 PLA-A42EA7



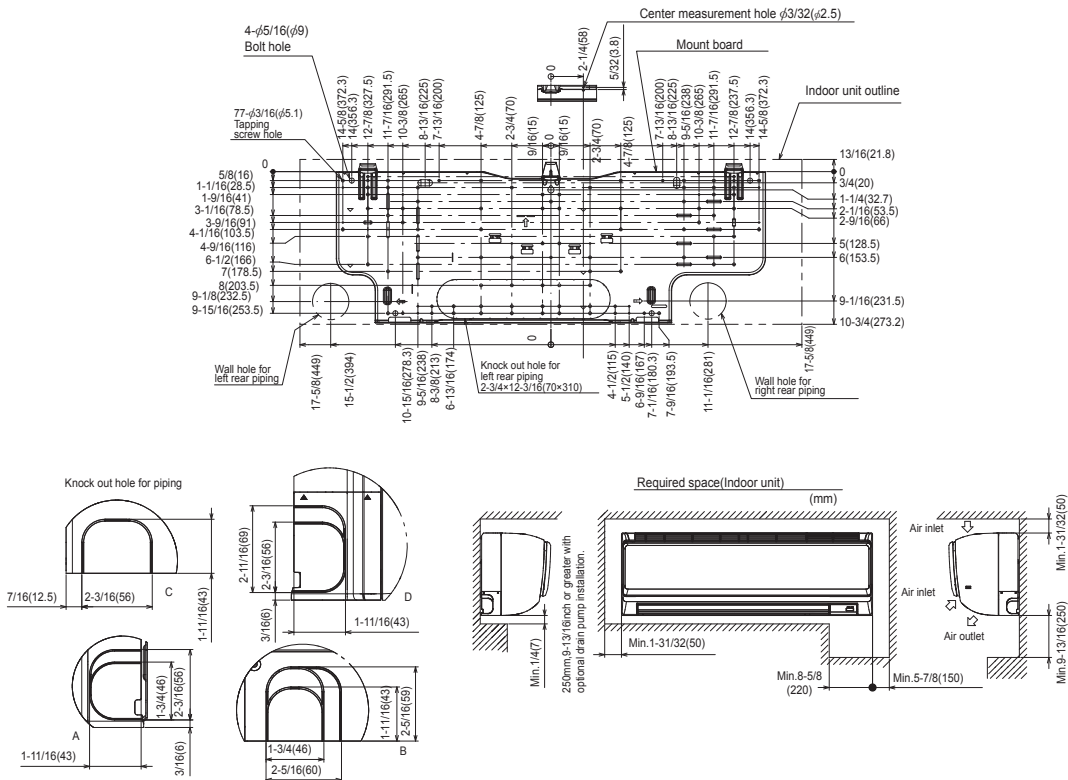
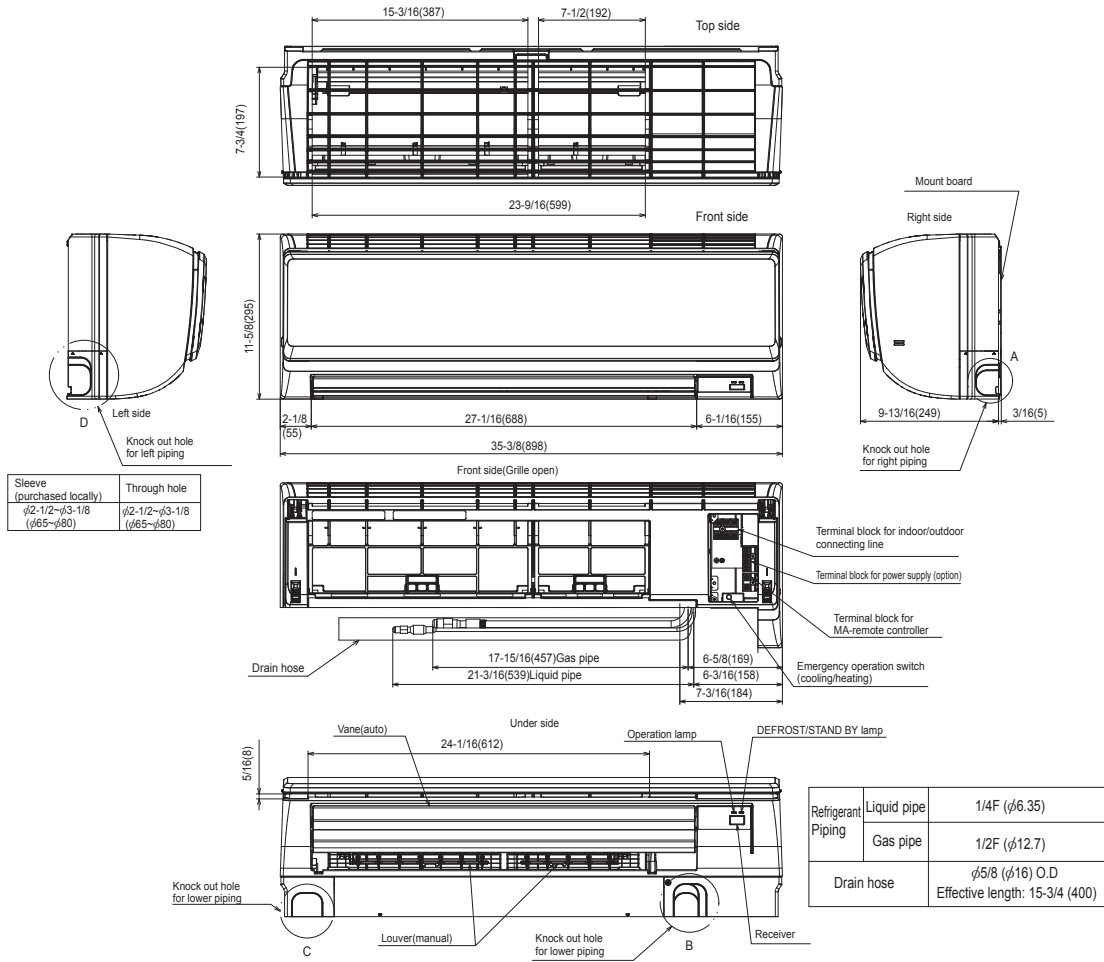
1. CHOOSE THE GRILLE AMONG THE DEDICATED GRILLES.
2. REINFORCE THE SUSPENSION BOLT FOR EARTHQUAKE-RESISTANCE AS NEEDED.
3. FOR THE SUSPENSION BOLT, USE M10 OR M8.
4. FOR DRAIN PIPE, USE VP-2500 D, 01-147(3 PVC TUBE).
5. DRAIN PUMP INCLUSION: (SEE P. 11) FROM THE CEILING.
6. ELECTRICAL BOX MAY BE REMOVED FOR THE SERVICE PURPOSE.
7. MAKE SURE TO SLACK THE ELECTRICAL WIRE LITTLE BIT FOR THE HEIGHT OF THE INDOOR UNIT IS ABLE TO BE ADJUSTED WITH THE GRILLE ATTACHED.
8. WHEN INSTALLING THE BRANCH DUCTS, BE SURE TO INSULATE ADEQUATELY OTHERWISE CONDENSATION AND DRIPPING MAY OCCUR.
9. THE BRANCH DUCTS CAN BE CONNECTED TO THE DRAIN PIPE.
10. FOR NECESSARY INSTALLATION SPACE, PLEASE REFER TO THE RIGHT FIGURE.
11. FOR THE INSTALLATION OF THE OPTIONAL HIGH-EFFICIENCY FILTER OR MULTI-FUNCTIONAL CASSETTE, REFER TO SPECIAL DRAWING.

PLA-A12EA7-1218EA7-36EA7

MODELS	①	A	B	C	D	E	F
PLA-A12EA7	REFRESHMENT UNIT FLARED CONNECTION LEF OR RAISE	241	228	376	376.5	107-13/16(2700)	137-13/16(3500)
PLA-A18EA7	REFRESHMENT UNIT FLARED CONNECTION RF OR RAISE	281	268	416	416.5	127-13/16(3200)	157-13/16(4000)
PLA-A24EA7	REFRESHMENT UNIT FLARED CONNECTION RF OR RAISE	321	298	456	456.5	137-13/16(3500)	167-13/16(4300)

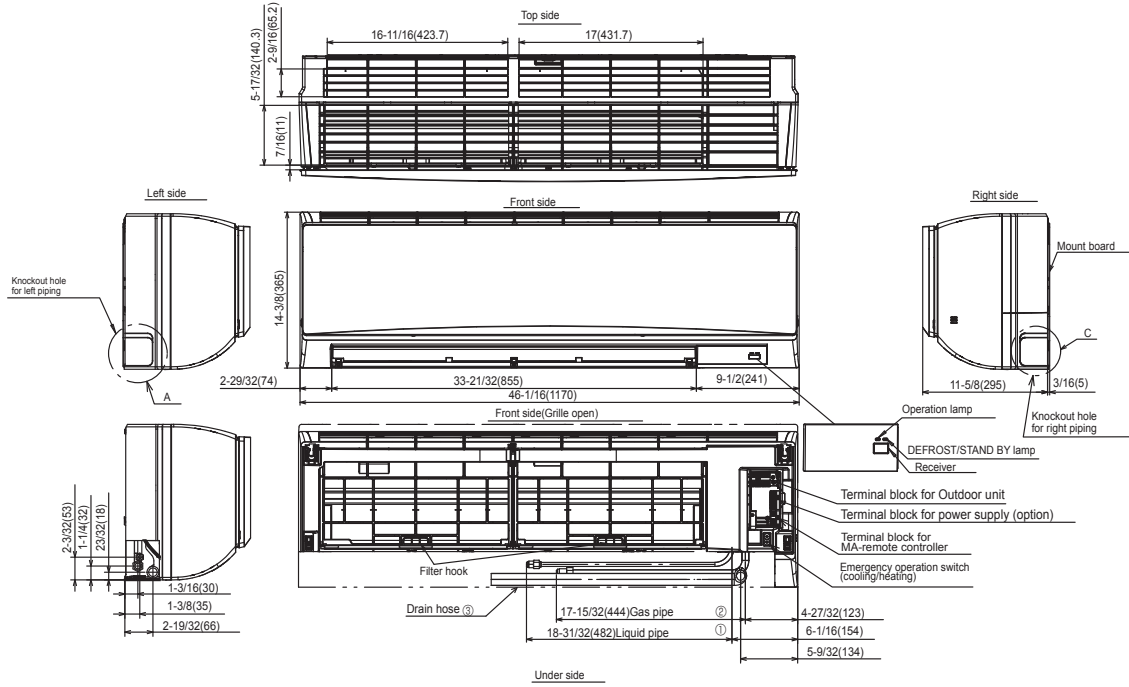
PKA-A12HA7 PKA-A18HA7

Unit: inch (mm)



PKA-A24KA7 PKA-A30KA7 PKA-A36KA7

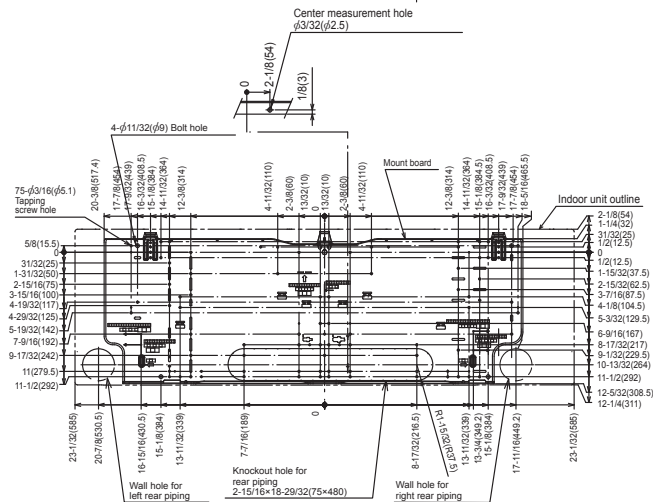
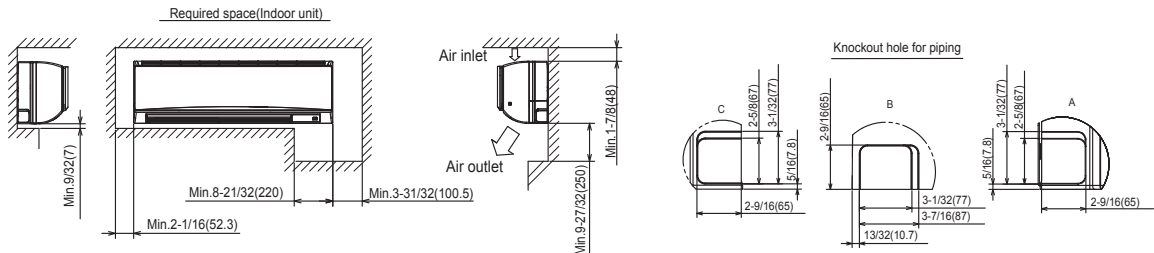
Unit: inch (mm)

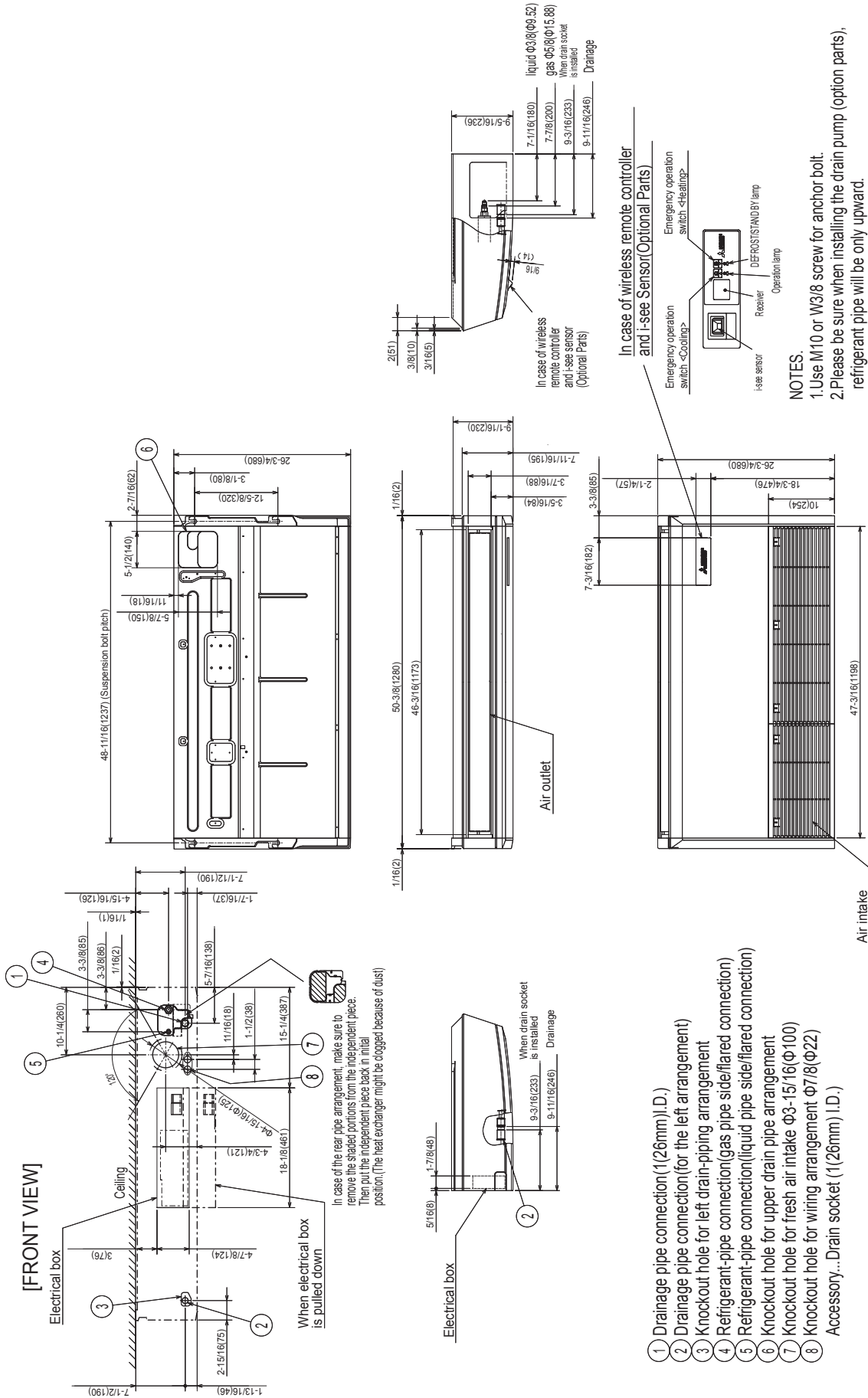


Sleeve (purchased locally)	Through hole
$\phi 2-15/16$ ($\phi 75$)	$\phi 2-15/16 - \phi 3-5/32$ ($\phi 75 - \phi 80$)

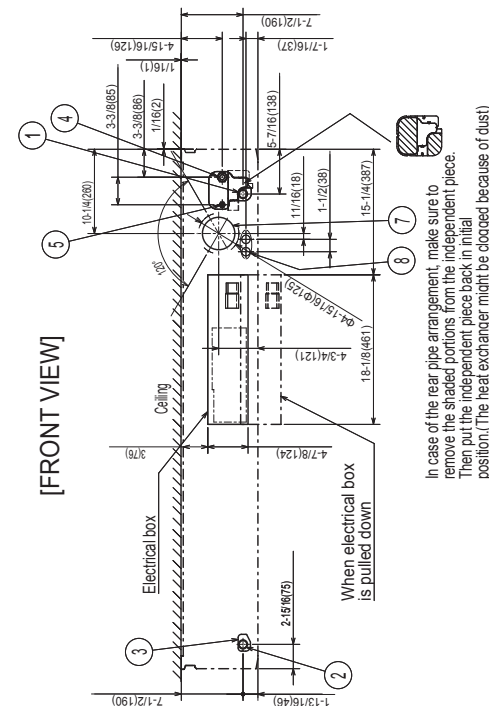
Piping connection

① Liquid pipe	Refrigerant pipe: 3/8 O.D($\phi 9.52$) Flared connection: 3/8F
② Gas pipe	Refrigerant pipe: 5/8 O.D($\phi 15.88$) Flared connection: 5/8F
③ Drain hose	5/8($\phi 16$) O.D Effective length: 23-1/32 (585)

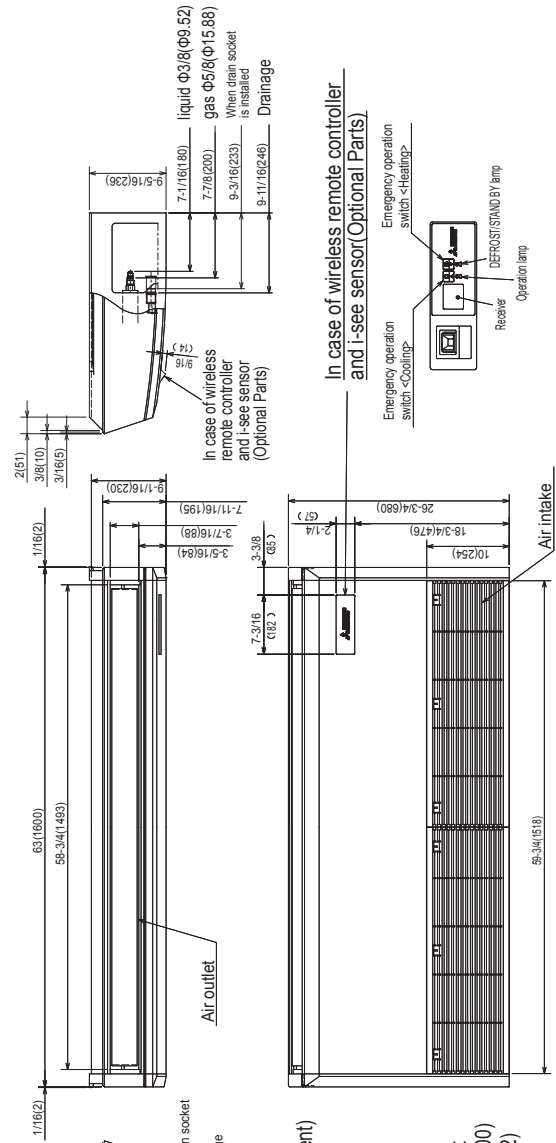
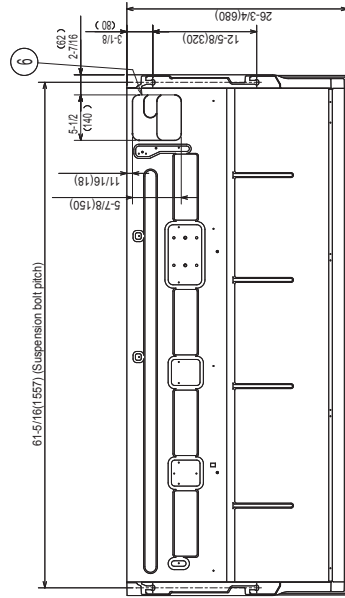




NOTES.
 1. Use M10 or W3/8 screw for anchor bolt.
 2. Please be sure when installing the drain pump (option parts),
 refrigerant pipe will be only upward.

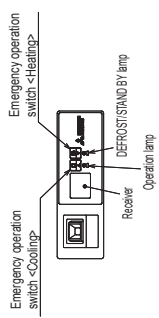


In case of the rear pipe arrangement, make sure to remove the shaded portions from the independent piece. Then put the independent piece back in initial position. (The heat exchanger might be clogged because of dust)



- ① Drainage pipe connection (1(26mm)I.D.)
 - ② Drainage pipe connection (for the left arrangement)
 - ③ Knockout hole for left drain-piping arrangement
 - ④ Refrigerant-pipe connection (gas pipe side/flared connection)
 - ⑤ Refrigerant-pipe connection (liquid pipe side/flared connection)
 - ⑥ Knockout hole for upper drain pipe arrangement
 - ⑦ Knockout hole for fresh air intake $\Phi 3-15/16(\Phi 100)$
 - ⑧ Knockout hole for wiring arrangement $\Phi 7/8(\Phi 22)$
- Accessory...Drain socket (1(26mm)I.D.)

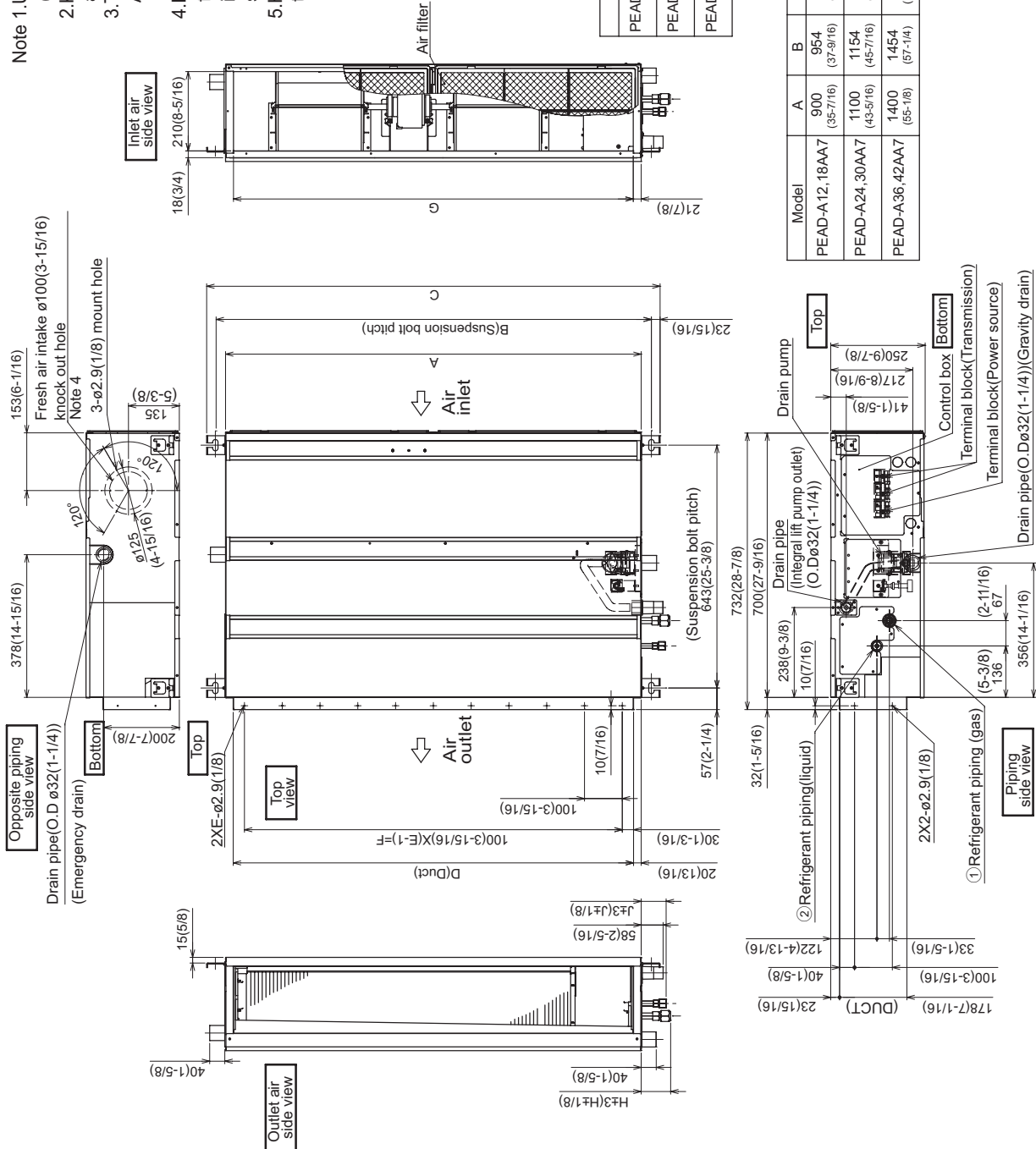
In case of wireless remote controller and i-see sensor (Optional Parts)



PEAD-A12AA7 PEAD-A18AA7 PEAD-A24AA7
PEAD-A30AA7 PEAD-A36AA7 PEAD-A42AA7

Unit: mm (inch)

- Note 1. Use an M10 screw for the suspension bolt (field supply).
 2. Keep the service space for maintenance at the bottom.
 3. This drawing is for PEAD-A24-30-36-42 AA7 models, which have 2 fans. PEAD-A12-18AA7 models have 1 fan.
 4. If the inlet duct is used, remove the air filter (supplied with the unit), then install the filter (field supply) at the suction side.
 5. Heat air to 0°C (32°F) or higher when taking fresh air with a fresh air intake.



Model	J	① Gas pipe	② Liquid pipe	Unit:mm(in.)
PEAD-A12,18AA7	62 (2-1/2)	ø12.7 (1/2)	ø6.35 (1/4)	
PEAD-A24,30AA7	66 (2-5/8)	ø15.88 (5/8)	ø9.52 (3/8)	
PEAD-A36,42AA7				

Model	A	B	C	D	E	F	G	H	Unit:mm(in.)
PEAD-A12,18AA7	900 (35-7/16)	954 (37-9/16)	1000 (39-3/8)	860 (33-7/8)	9	800 (31-1/2)	858 (33-13/16)	72 (2-7/8)	
PEAD-A24,30AA7	1100 (43-5/16)	1154 (45-7/16)	1200 (47-1/4)	1060 (41-3/4)	11	1000 (39-3/8)	1058 (41-11/16)	78 (3-1/8)	
PEAD-A36,42AA7	1400 (55-1/8)	1454 (57-1/4)	1500 (59-1/16)	1360 (53-9/16)	14	1300 (51-3/16)	1358 (53-1/2)		

[Maintenance access space]

Secure enough access space to allow for the maintenance, inspection, and replacement of the motor, fan, drain pump, heat exchanger, and control box in one of the following ways.

Select an installation site for the indoor unit so that its maintenance access space will not be obstructed by beams or other objects.

(1) When a space of 300mm or more is available below the unit between the unit and the ceiling. (Fig.1)

- Create access door 1 and 2 (450x450mm each) as shown in Fig.2.
- (Access door 2 is not required if enough space is available below the unit for a maintenance worker to work in.)

(2) When a space of less than 300mm is available below the unit between the unit and the ceiling.

(At least 20mm of space should be left below the unit as shown in Fig.3.)

- Create access door 1 diagonally below the control box and access door 3 below the unit as shown in Fig.4.
- or
- Create access door 4 below the control box and the unit as shown in Fig.5.

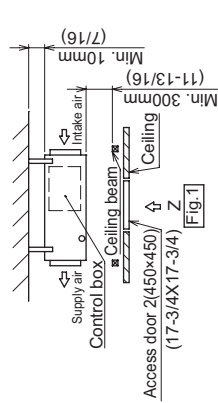
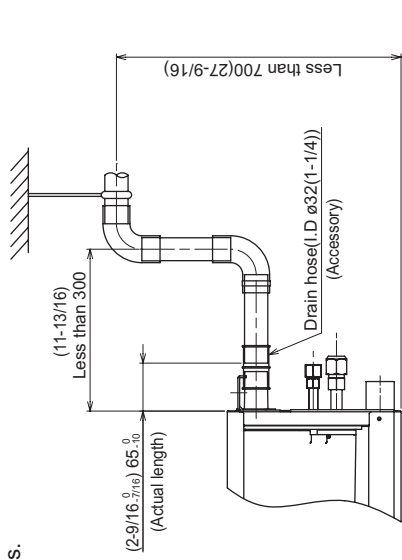


Fig.2 (Viewed from the direction of the arrow Z)

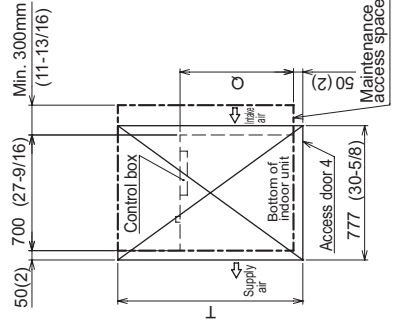


Fig.5 (Viewed from the direction of the arrow Y)

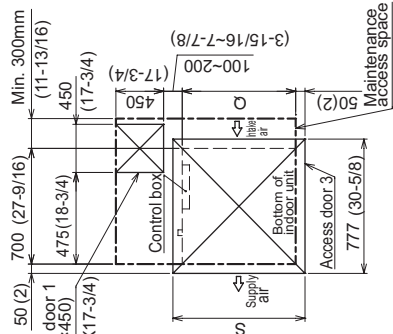


Fig.4 (Viewed from the direction of the arrow Y)

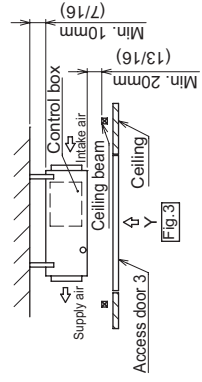
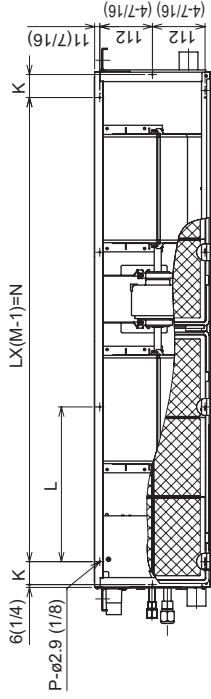


Fig.3



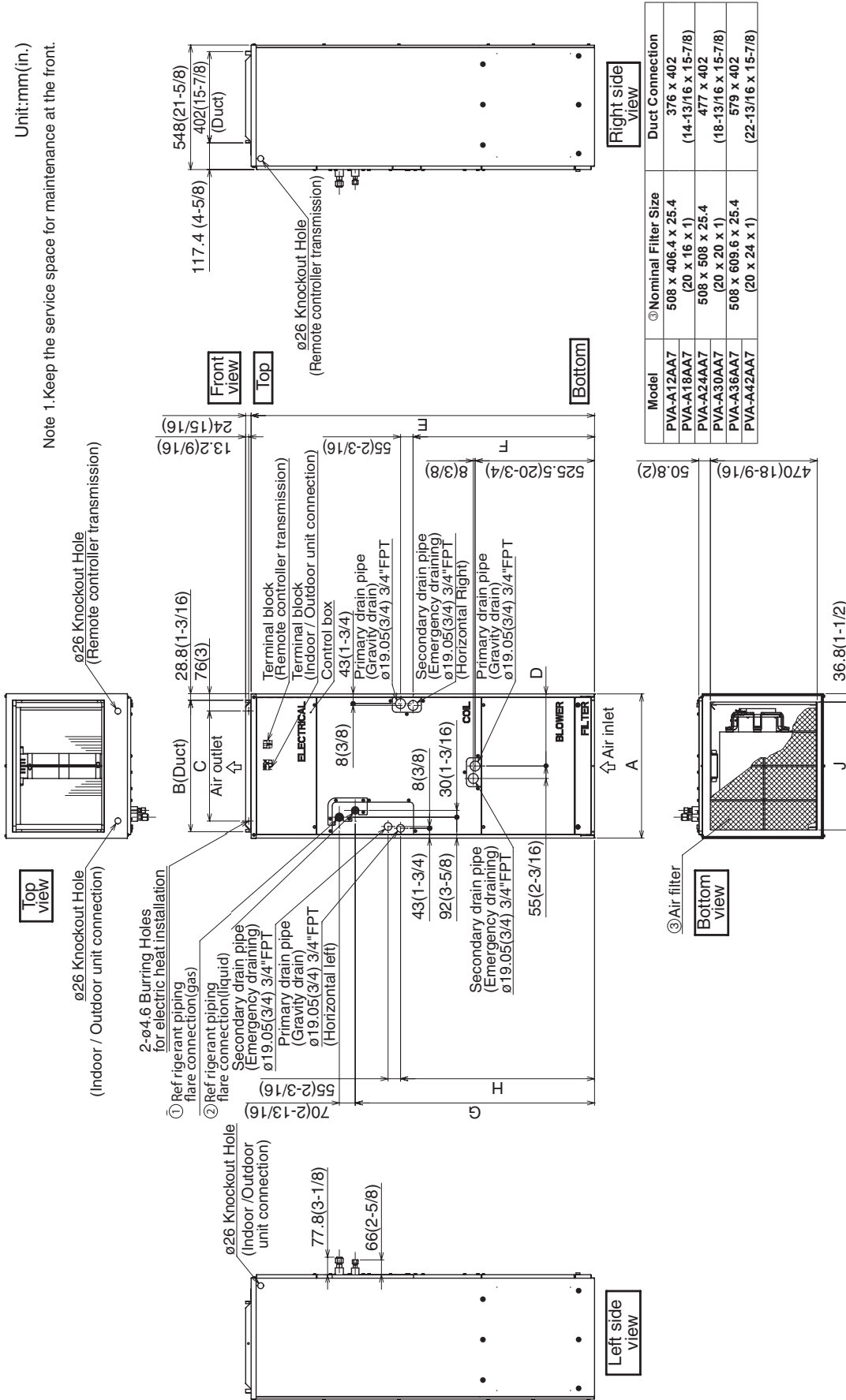
Model	K	L	M	N	P	Q	R	S	T
PEAD-A12,18AA7	54 (2-3/16)	260 (10-1/4)	4 (3/32)	780 (30-3/4)	10 (5/16)	900 (35-7/16)	150-250 (5-15/16)-(9-7/8)	1000 (39-3/8)	1500 (59-1/8)
PEAD-A24,30AA7	49 (1-15/16)	330 (13)	4 (3/32)	990 (39)	10 (43/5/16)	1100 (43-5/16)	250-350 (9-7/8)-(13-13/16)	1200 (47-1/4)	1700 (66-5/16)
PEAD-A36,48AA7	54 (2-3/16)	320 (12-5/8)	5 (5/16)	1280 (50-7/16)	12 (55-1/8)	1400 (55-1/8)	400-500 (15-3/4)-(19-11/16)	1500 (59-1/8)	2000 (78-3/4)

Unit:mm (in.)

PVA-A12AA7 PVA-A18AA7 PVA-A24AA7
PVA-A30AA7 PVA-A36AA7 PVA-A42AA7

Unit: mm (inch)

Unit:mm (in.)
Note 1.Keep the service space for maintenance at the front.



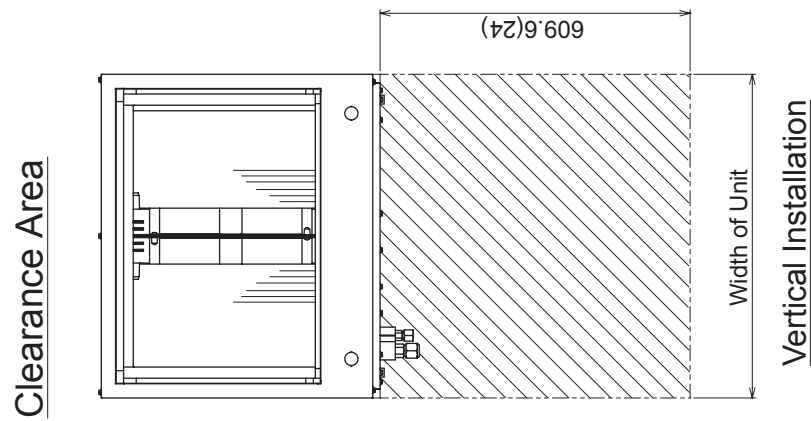
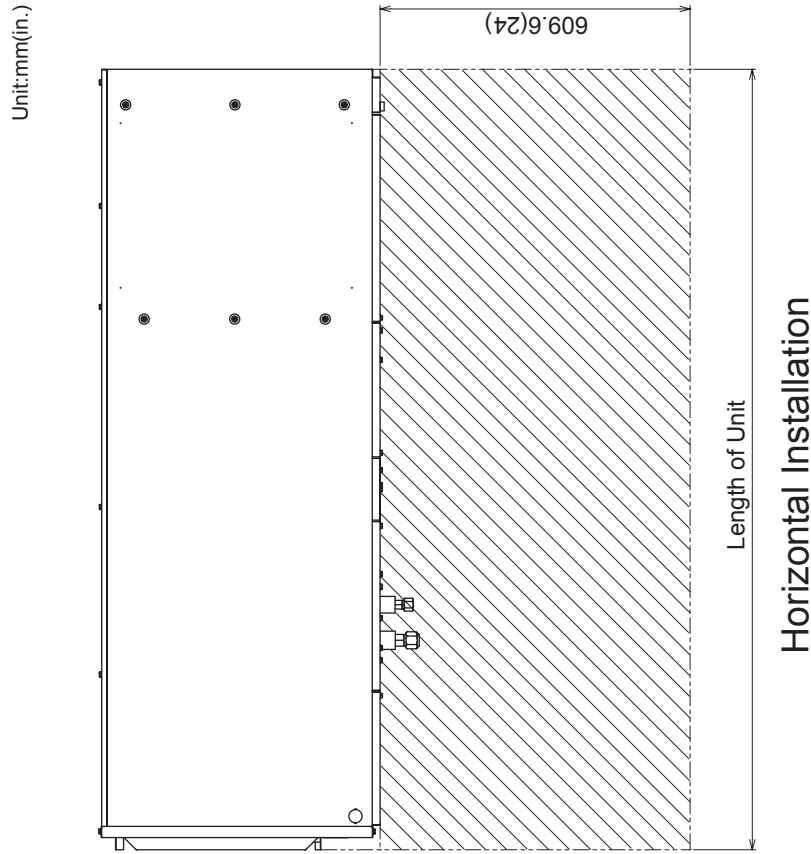
Model	③ Nominal Filter Size	Duct Connection
PVA-A12AA7	508 x 406.4 x 25.4 (20 x 16 x 1)	376 x 402 (14-13/16 x 15-7/8)
PVA-A18AA7	508 x 508 x 25.4 (20 x 20 x 1)	477 x 402 (18-13/16 x 15-7/8)
PVA-A24AA7	508 x 609.6 x 25.4 (20 x 24 x 1)	579 x 402 (22-13/16 x 15-7/8)

Model	Unit: mm (in.)										
	A	B	C	D	E	F	G	H	J	① Gas Pipe	② Liquid Pipe
PVA-A12AA7	432 (17)	376 (14-13/16)	281 (11-1/8)	224 (8-7/8)	1275 (50-1/4)	680 (26-13/16)	823 (32-7/16)	735.5 (29)	360 (14-3/16)	ϕ 12.7 (1/2)	ϕ 6.35 (1/4)
PVA-A18AA7	534 (21)	477 (18-13/16)	382.6 (15-1/8)	266.5 (10-1/2)	1378 (54-1/4)	737 (29-1/16)	953.5 (37-9/16)	792 (31-3/16)	461 (18-3/16)	ϕ 15.88 (5/8)	ϕ 9.52 (3/8)
PVA-A24AA7	635 (25)	579 (22-13/16)	484.6 (19-1/8)	317.5 (12-1/2)	1511 (59-1/2)	798.5 (31-7/16)	1053 (41-1/2)	853.5 (33-5/8)	563 (22-3/16)		

PVA-A12AA7 PVA-A18AA7 PVA-A24AA7
 PVA-A30AA7 PVA-A36AA7 PVA-A42AA7

Unit: mm (inch)

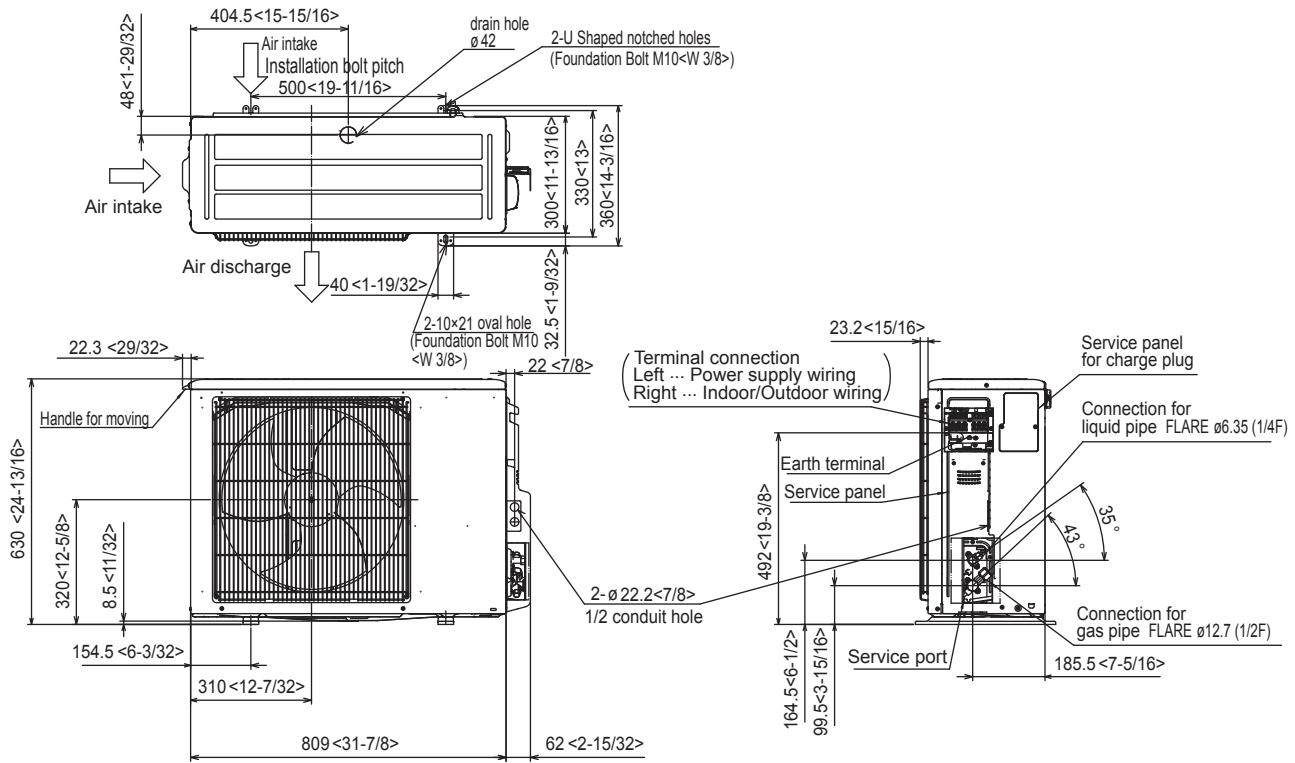
Service space



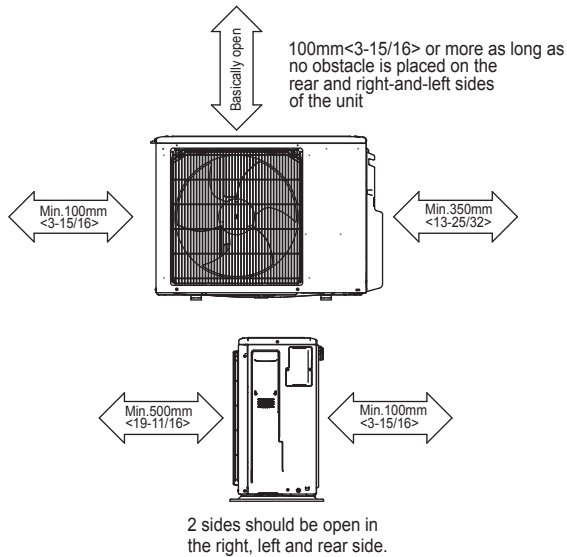
OUTDOOR UNIT

Unit: mm (inch)

PUZ-A12/18NKA7 PUZ-A12/18NKA7-BS PUY-A12/18NKA7 PUY-A12/18NKA7-BS



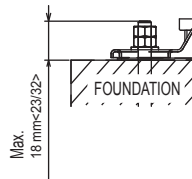
Free space around the outdoor unit (basic example)



FOUNDATION BOLTS

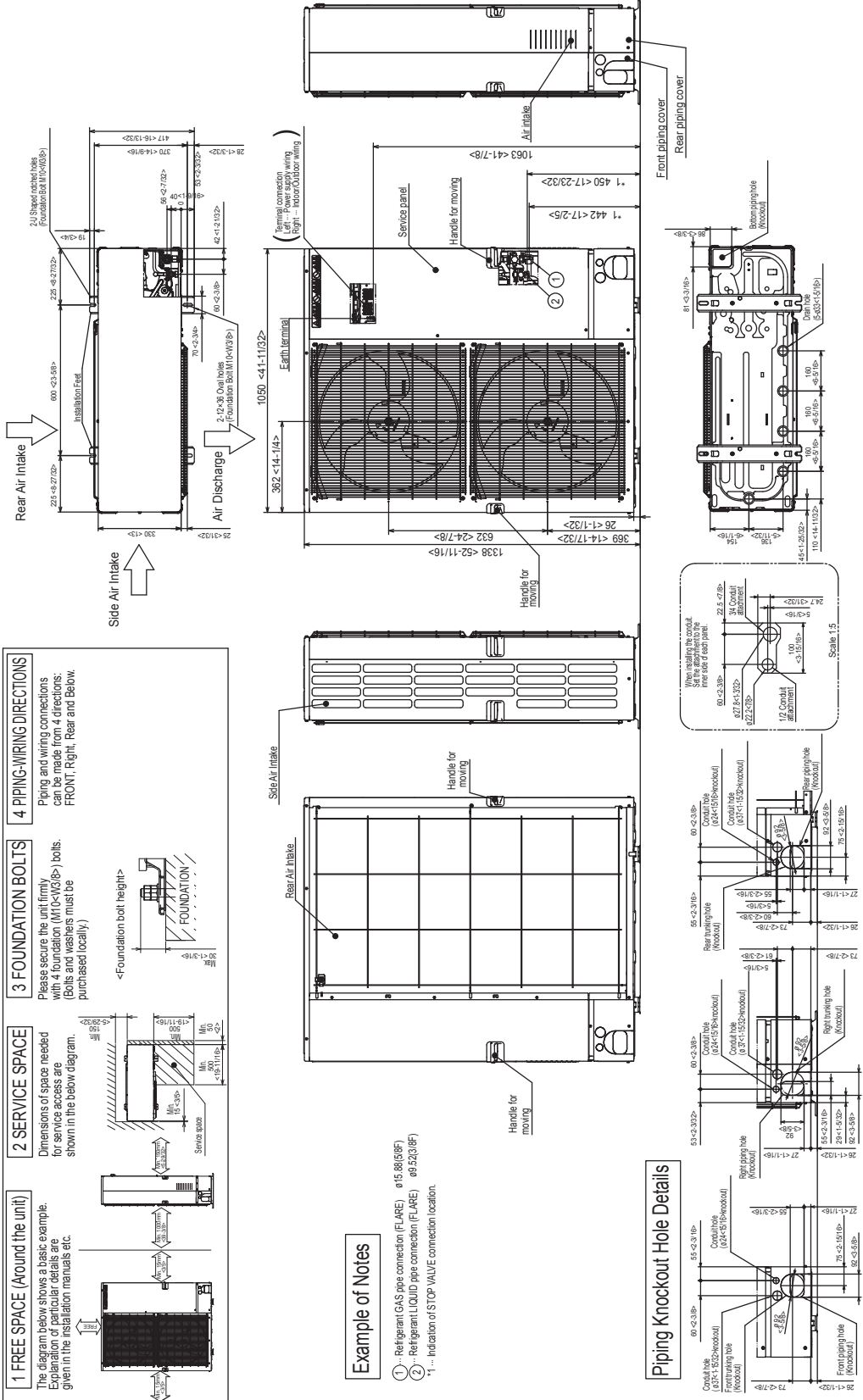
Please secure the unit firmly with 4 foundation (M10 <W3/8>) bolts. (Bolts, washers and nut must be purchased locally).

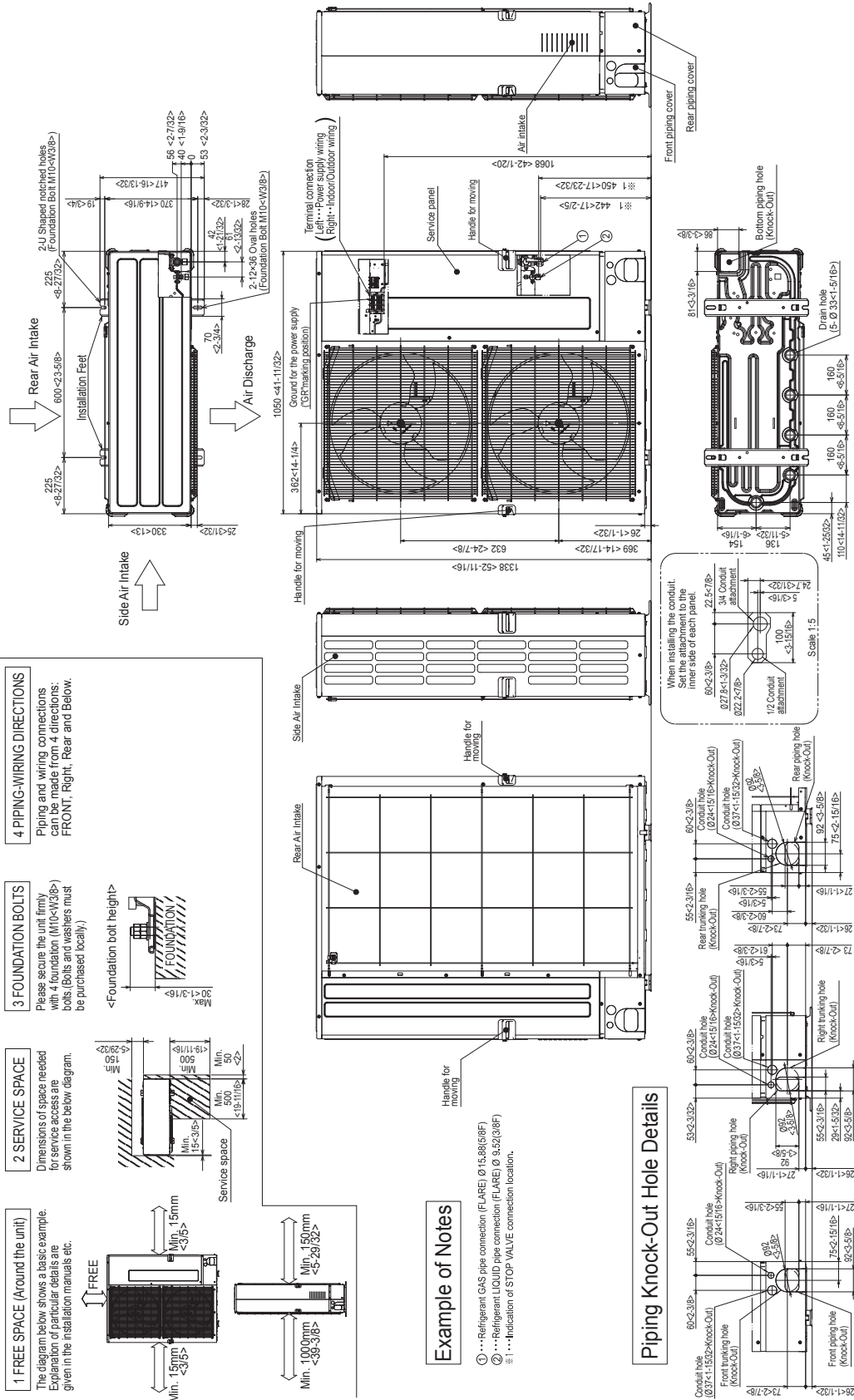
<Foundation bolt height>



PIPING-WIRING DIRECTION

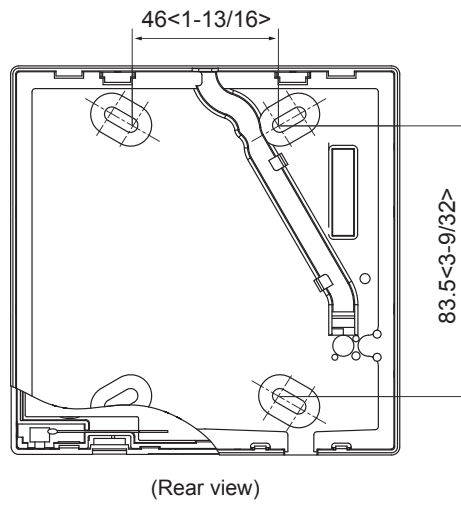
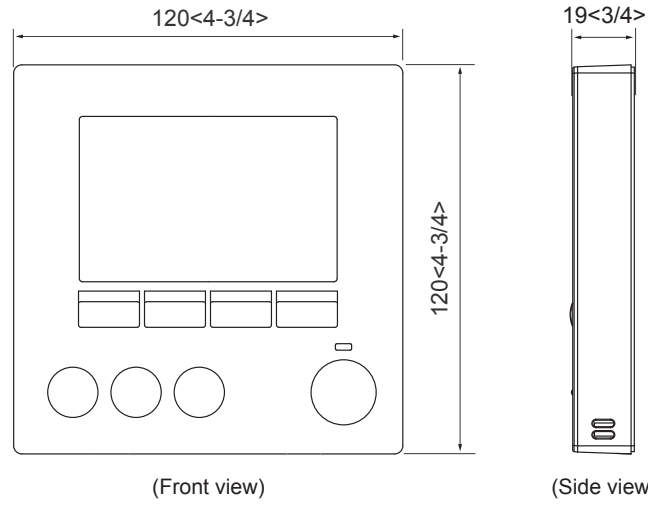
Piping and wiring connection can be made from the rear direction only.





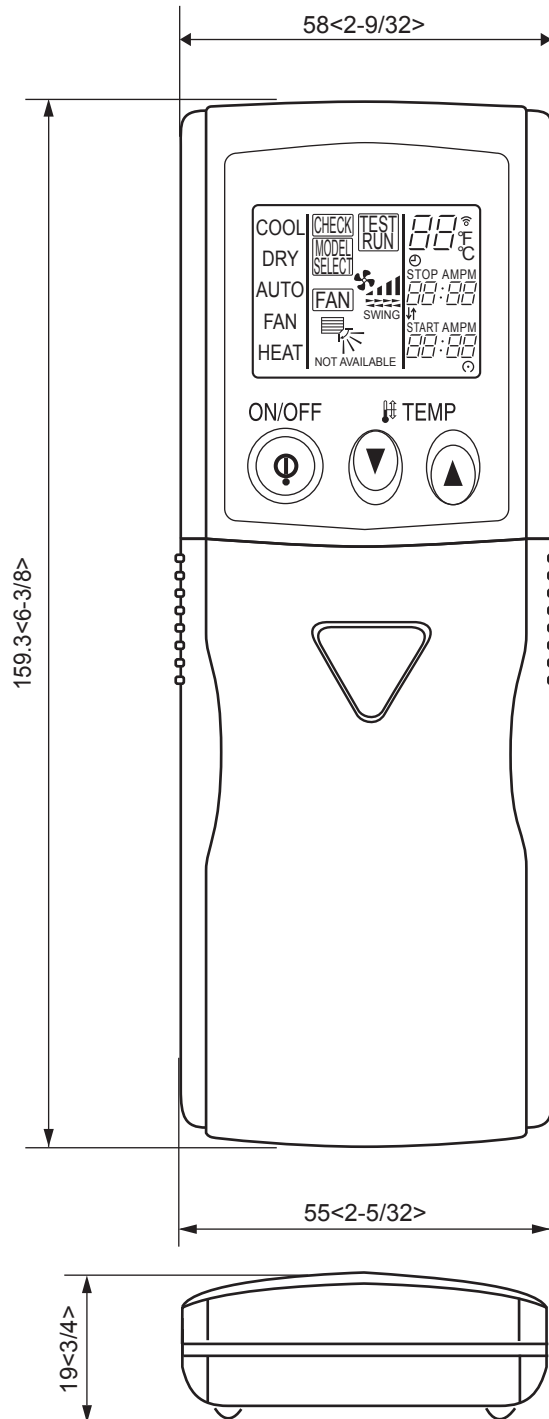
WIRED REMOTE CONTROLLER

Unit: mm (inch)



WIRELESS REMOTE CONTROLLER

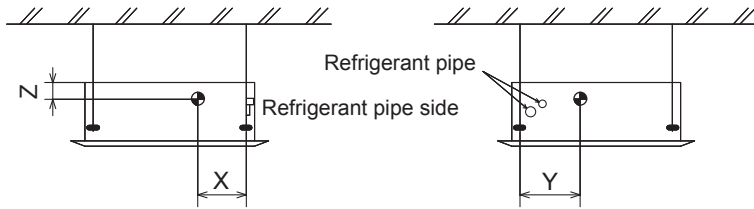
Unit: mm (inch)



4 | POSITION OF THE CENTER OF GRAVITY

4-1. INDOOR UNIT

PLA-A·EA7

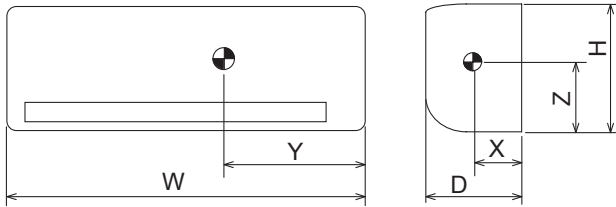


Unit: inch (mm)

Model name	X	Y	Z
PLA-A12EA7 PLA-A18EA7	12-13/16 (325)	15-3/8 (390)	4-9/16 (115)
PLA-A24EA7 PLA-A30EA7 PLA-A36EA7 PLA-A42EA7	12-13/16 (325)	14-31/32 (380)	3-15/16 (100)

PKA-A·HA7

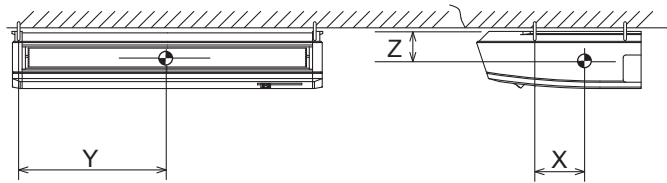
PKA-A·KA7



Unit: inch (mm)

Model name	W	D	H	X	Y	Z
PKA-A12HA7	35-3/8 (898)	9-13/16 (249)	11-5/8 (295)	4-3/4 (120)	15-3/8 (390)	6-5/16 (160)
PKA-A18HA7	35-3/8 (898)	9-13/16 (249)	11-5/8 (295)	4-3/4 (120)	15-3/8 (390)	6-5/16 (160)
PKA-A24KA7	46-1/8 (1170)	11-5/8 (295)	14-3/8 (365)	7-1/2 (190)	18-1/8 (460)	7-1/2 (190)
PKA-A30KA7	46-1/8 (1170)	11-5/8 (295)	14-3/8 (365)	7-1/2 (190)	18-1/8 (460)	7-1/2 (190)
PKA-A36KA7	46-1/8 (1170)	11-5/8 (295)	14-3/8 (365)	7-1/2 (190)	18-1/8 (460)	7-1/2 (190)

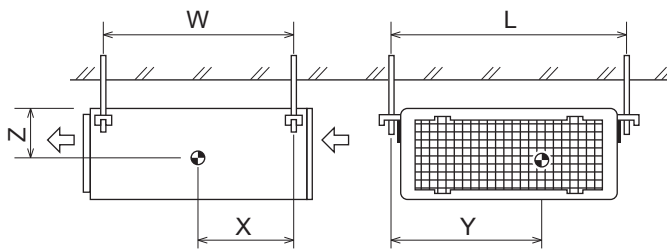
PCA-A·KA7



Unit: inch (mm)

Model name	X	Y	Z
PCA-A24KA7	4-3/8 (110)	24-1/16 (610)	4-9/16 (115)
PCA-A30KA7	4-3/8 (110)	24-1/16 (610)	4-9/16 (115)
PCA-A36KA7	4-3/8 (110)	30-3/8 (770)	4-9/16 (115)
PCA-A42KA7	4-3/8 (110)	30-3/8 (770)	4-9/16 (115)

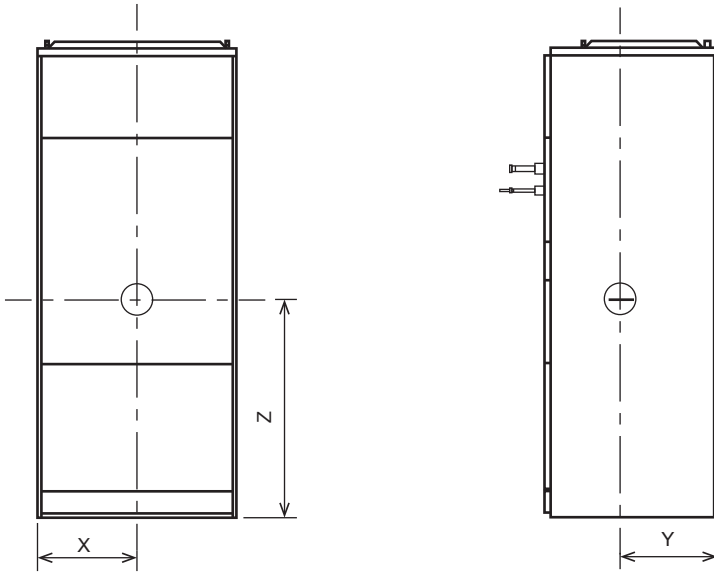
PEAD-A·AA7



Unit: inch (mm)

Model name	W	L	X	Y	Z
PEAD-A12AA7	25-5/16 (643)	37-9/16 (954)	13-3/8 (340)	14-3/4 (375)	5-1/8 (130)
PEAD-A18AA7	25-5/16 (643)	37-9/16 (954)	13-3/8 (340)	14-3/4 (375)	5-1/8 (130)
PEAD-A24AA7	25-5/16 (643)	45-7/16 (1154)	12-13/16 (325)	20-11/16 (525)	5-1/8 (130)
PEAD-A30AA7	25-5/16 (643)	45-7/16 (1154)	12-13/16 (325)	20-11/16 (525)	5-1/8 (130)
PEAD-A36AA7	25-5/16 (643)	57-1/4 (1454)	13 (330)	26-9/16 (675)	5-1/8 (130)
PEAD-A42AA7	25-5/16 (643)	57-1/4 (1454)	13 (330)	26-9/16 (675)	5-1/8 (130)

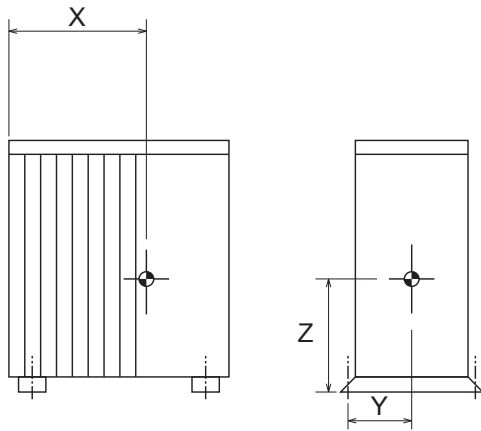
PVA-A•AA7



Unit: inch (mm)

Model name	X	Y	Z
PVA-A12AA7	8-7/8	11-1/4	24-1/16
PVA-A18AA7	(225)	(285)	(610)
PVA-A24AA7	11-1/16	11-7/16	26
PVA-A30AA7	(280)	(290)	(660)
PVA-A36AA7	13-7/16	11-13/16	28
PVA-A42AA7	(340)	(300)	(710)

4-2. OUTDOOR UNIT



Unit: inch (mm)

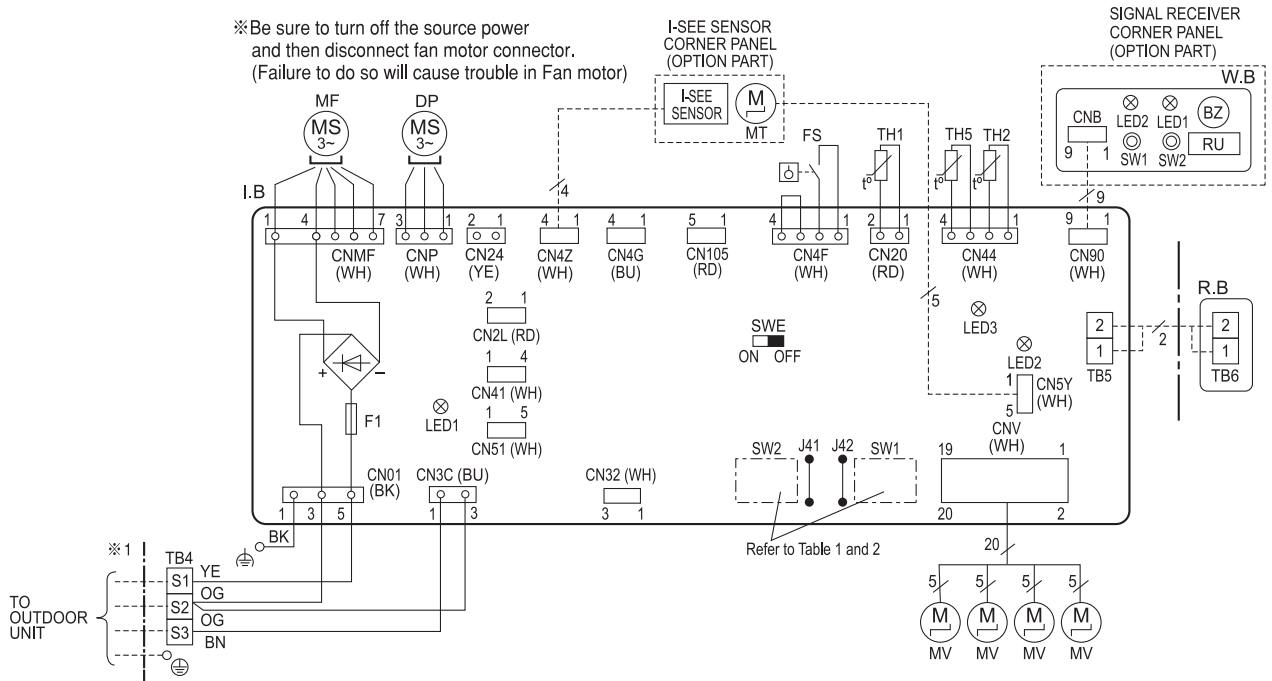
Model name	X	Y	Z
PUZ(Y)-A12/18NKA7	20-3/8	5-1/2	12-3/4
	(518)	(140)	(300)
PUZ(Y)-A24/30NHA7	21-5/8	7	17-5/8
	(549)	(180)	(450)
PUZ(Y)-A36/42NKA7	24-3/8	5-7/8	22-3/4
	(619)	(150)	(580)
PUZ-HA30/36NHA5	23-15/64	7-9/32	19-11/16
	(590)	(185)	(500)
PUZ-HA42NKA	26	7-3/32	21-27/32
	(660)	(180)	(555)

5 | WIRING DIAGRAM

PLA-A12EA7 PLA-A18EA7 PLA-A24EA7 PLA-A30EA7 PLA-A36EA7 PLA-A42EA7

[LEGEND]

SYMBOL	NAME	SYMBOL	NAME
I.B	INDOOR CONTROLLER BOARD	TB4	TERMINAL BLOCK (INDOOR/OUTDOOR CONNECTING LINE)
CN2L	CONNECTOR (LOSSNAY)	TB5, TB6	TERMINAL BLOCK (REMOTE CONTROLLER TRANSMISSION LINE)
CN24	CONNECTOR (BACK-UP HEATING)	TH1	ROOM TEMP. THERMISTOR (32°F / 15kΩ, 77°F / 5.4kΩ DETECT)
CN32	CONNECTOR (REMOTE SWITCH)	TH2	PIPE TEMP. THERMISTOR/LIQUID (32°F / 15kΩ, 77°F / 5.4kΩ DETECT)
CN41	CONNECTOR (HA TERMINAL-A)	TH5	COND. / EVA. TEMP. THERMISTOR (32°F / 15kΩ, 77°F / 5.4kΩ DETECT)
CN51	CONNECTOR (CENTRALLY CONTROL)	R.B	WIRED REMOTE CONTROLLER
F1	FUSE (T6.3AL250V)	OPTION PART	
LED1	POWER SUPPLY (I.B)	W.B	PCB OF SIGNAL RECEIVER
LED2	POWER SUPPLY (R.B)	BZ	BUZZER
LED3	TRANSMISSION (INDOOR-OUTDOOR)	LED1	LED (OPERATION INDICATION : GREEN)
SW1	SWITCH (MODEL SELECTION) Refer to <Table 1>.	LED2	LED (PREPARATION FOR HEATING : ORANGE)
SW2	SWITCH (CAPACITY CODE) Refer to <Table 2>.	RU	RECEIVING UNIT
SWE	CONNECTOR (EMERGENCY OPERATION)	SW1	EMERGENCY OPERATION (HEAT / DOWN)
DP	DRAIN PUMP	SW2	EMERGENCY OPERATION (COOL / UP)
FS	DRAIN FLOAT SWITCH	MT	I-SEE SENSOR MOTOR
MF	FAN MOTOR		
MV	VANE MOTOR		



<Table 1> SW1 (MODEL SELECTION)

Service
1 2 3 4 5 6 ON
1 2 3 4 5 6 OFF

<Table 2> SW2 (CAPACITY CODE)

CAPACITY	Service	CAPACITY	Service	CAPACITY	Service
12	1 2 3 4 5 ON 1 2 3 4 5 OFF	24	1 2 3 4 5 ON 1 2 3 4 5 OFF	36	1 2 3 4 5 ON 1 2 3 4 5 OFF
18	1 2 3 4 5 ON 1 2 3 4 5 OFF	30	1 2 3 4 5 ON 1 2 3 4 5 OFF	42	1 2 3 4 5 ON 1 2 3 4 5 OFF

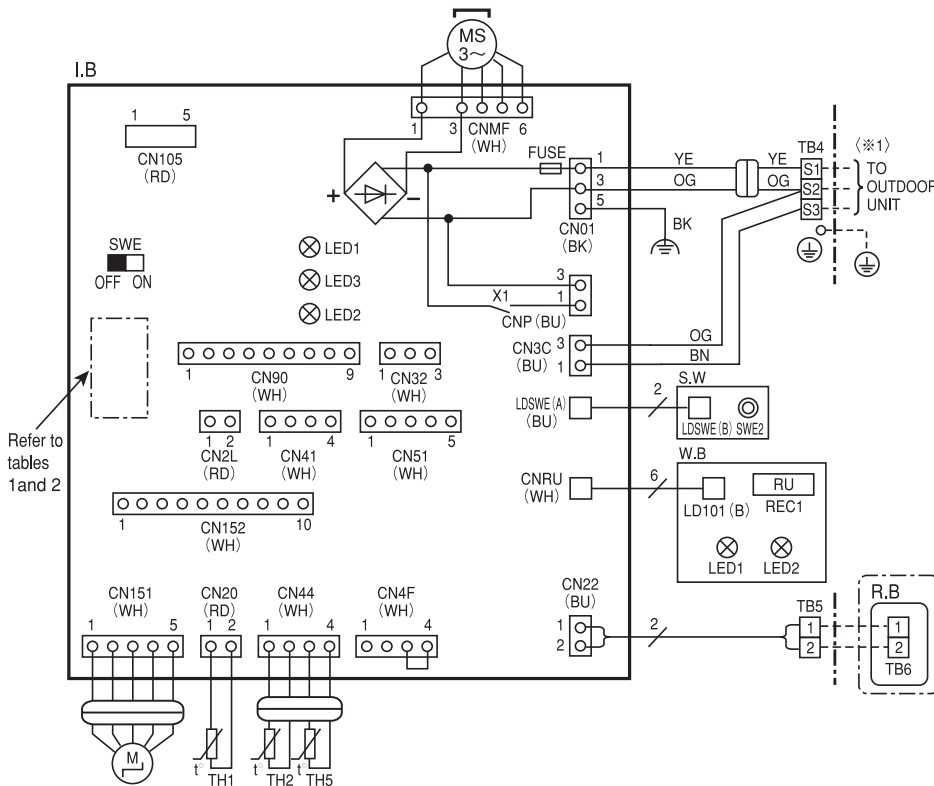
The black square (■) indicates a switch position.

- Notes:
1. Symbols used in wiring diagram above are, □: Terminal (block), ○: Connector.
 2. Indoor and outdoor connecting wires are made with polarities, make wiring matching terminal numbers (S1, S2, S3).
 3. Since the outdoor side electric wiring may change be sure to check the outdoor unit electric wiring for servicing.
 4. This diagram shows the wiring of indoor and outdoor connecting wires (specification of 208V/230V), adopting superimposed system of power and signal.
 - For power supply system of this unit, refer to the caution label located near this diagram.
- ※1. Use copper supply wires.
Utilisez des fils d'alimentation en cuivre.

PKA-A12HA7 PKA-A18HA7

[Explanation of symbols]

Symbol	Name	Symbol	Name
I.B	Indoor controller board	S.W	Switch board
CN2L	Connector (LOSSNAY)	SWE2	Emergency operation
CN32	Connector (Remote switch)	TB4	Terminal block (Indoor/outdoor connecting line)
CN41	Connector (HA terminal-A)	TB5	Terminal block (Remote controller transmission line)
CN51	Connector (Centrally control)	TH1	Room temp. Thermistor (32°F/15KΩ, 77°F/5.4KΩ Detect)
CN90	Connector (Remote operation adapter)	TH2	Pipe temp. Thermistor/liquid (32°F/15KΩ, 77°F/5.4KΩ Detect)
CN105	Connector	TH5	Cond./eva. temp. Thermistor (32°F/15KΩ, 77°F/5.4KΩ Detect)
CN152	Connector (Back-up heating)	W.B	Pcb for IR wireless remote controller
FUSE	FUSE(T3.15AL250V)	LED1	LED (Operation indication : Green)
LED1	Power supply (I.B)	LED2	LED (Preparation for heating: Orange)
LED2	Power supply (R.B)	REC1	Receiving unit
LED3	Transmission (Indoor-outdoor)	OPTION PART	
SW1	Switch (Model selection) Refer to <table1>	R,B	Wired remote controller board
SW2	Switch (Capacity code) Refer to <table2>	TB6	Terminal block (Remote controller transmission line)
SWE	Connector (Emergency operation)		
M	Vane motor		
MS	Fan motor		



<Table 1>
SW1
(MODEL SELECTION)



<Table 2>
SW2 (CAPACITY CODE)

MODELS	SETTING				
PKA-A12HA	1	2	3	4	5
	ON	ON	ON	ON	ON
	OFF	OFF	OFF	OFF	OFF
PKA-A18HA	1	2	3	4	5
	ON	ON	ON	ON	ON
	OFF	OFF	OFF	OFF	OFF

The black square (■) indicates a switch position.

Notes:

1. Symbols used in wiring diagram above are, : Connector, : Terminal (block).
2. Indoor and outdoor connecting wires have polarities, make sure to match terminal numbers (S1, S2, S3) for correct wirings.
3. Since the outdoor side electric wiring may change, be sure to check the outdoor unit electric wiring diagram for servicing.
4. This diagram shows the wiring of indoor and outdoor connecting wires. (specification of 208V/230V), adopting superimposed system of power and signal.

• For power supply system of this unit, refer to the caution label located near this diagram.

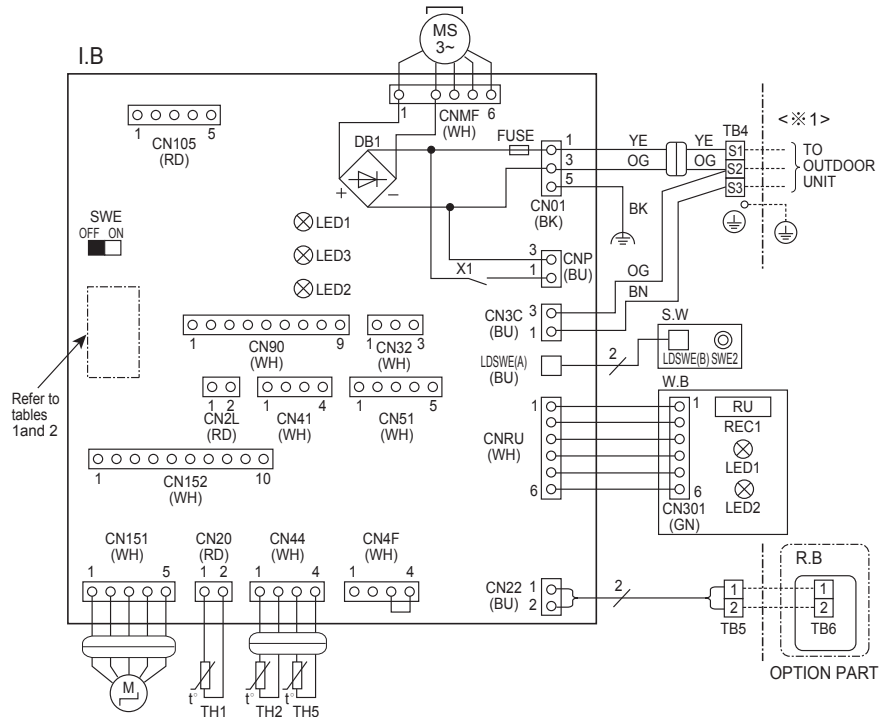
※1: Use copper supply wires.

Utilisez des fils d'alimentation en cuivre.

PKA-A24KA7 PKA-A30KA7 PKA-A36KA7

[LEGEND]

SYMBOL	NAME	SYMBOL	NAME
I.B	INDOOR CONTROLLER BOARD	M	VANE MOTOR
CN2L	CONNECTOR (LOSSNAY)	MS	FAN MOTOR
CN32	CONNECTOR (REMOTE SWITCH)	S.W	SWITCH BOARD
CN41	CONNECTOR (HA TERMINAL-A)	SWE2	EMERGENCY OPERATION
CN51	CONNECTOR (CENTRALLY CONTROL)	TB4	TERMINAL BLOCK (INDOOR/OUTDOOR CONNECTING LINE)
CN90	CONNECTOR (REMOTE OPERATION ADAPTER)	TB5	TERMINAL BLOCK (REMOTE CONTROLLER TRANSMISSION LINE)
CN105	CONNECTOR	TH1	ROOM TEMP. THERMISTOR (32°F/15KΩ, 77°F/5.4KΩ DETECT)
CN152	CONNECTOR (BACK-UP HEATING)	TH2	PIPE TEMP. THERMISTOR/LIQUID (32°F/15KΩ, 77°F/5.4KΩ DETECT)
FUSE	FUSE(T3.15AL250V)	TH5	COND./EVA. TEMP. THERMISTOR (32°F/15KΩ, 77°F/5.4KΩ DETECT)
LED1	POWER SUPPLY (I.B)	W.B	PCB FOR IR WIRELESS REMOTE CONTROLLER
LED2	POWER SUPPLY (R.B)	LED1	LED (OPERATION INDICATION : GREEN)
LED3	TRANSMISSION (INDOOR-OUTDOOR)	LED2	LED (PREPARATION FOR HEATING: ORANGE)
SW1	SWITCH (MODEL SELECTION) Refer to <Table 1>	REC1	RECEIVING UNIT
SW2	SWITCH (CAPACITY CODE) Refer to <Table 2>		
SWE	CONNECTOR (EMERGENCY OPERATION)		
R.B	WIRED REMOTE CONTROLLER BOARD		
TB6	TERMINAL BLOCK (REMOTE CONTROLLER TRANSMISSION LINE)		



<Table 1>
SW1 (MODEL SELECTION)

SETTING
1 2 3 4 5 ON OFF

<Table 2>
SW2 (CAPACITY CODE)

MODELS	SETTING	MODELS	SETTING	MODELS	SETTING
PKA-A24KA	1 2 3 4 5 ON OFF	PKA-A30KA	1 2 3 4 5 ON OFF	PKA-A36KA	1 2 3 4 5 ON OFF

The black square (■) indicates a switch position.

Notes:

- Symbols used in wiring diagram above are, : Connector, : Terminal (block).
- Indoor and outdoor connecting wires have polarities, make sure to match terminal numbers (S1, S2, S3) for correct wirings.
- Since the outdoor side electric wiring may change, be sure to check the outdoor unit electric wiring diagram for servicing.
- This diagram shows the wiring of indoor and outdoor connecting wires. (specification of 208V/230V), adopting superimposed system of power and signal.

- For power supply system of this unit, refer to the caution label located near this diagram.

※1: Use copper supply wires.

Utilisez des fils d'alimentation en cuivre.

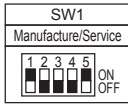
PCA-A24KA7 PCA-A30KA7 PCA-A36KA7 PCA-A42KA7

[LEGEND]

SYMBOL	NAME	SYMBOL	NAME
I.B	INDOOR CONTROLLER BOARD	TB4	TERMINAL BLOCK (INDOOR/OUTDOOR CONNECTING LINE)
CN2L	CONNECTOR (LOSSNAY)	TB5	TERMINAL BLOCK (REMOTE CONTROLLER TRANSMISSION LINE)
CN24	CONNECTOR (BACK-UP HEATING)	TH1	ROOM TEMP. THERMISTOR (32°F / 15kΩ, 77°F / 5.4kΩ DETECT)
CN32	CONNECTOR (REMOTE SWITCH)	TH2	PIPE TEMP. THERMISTOR/LIQUID (32°F / 15kΩ, 77°F / 5.4kΩ DETECT)
CN41	CONNECTOR (HA TERMINAL-A)	TH5	COND. / EVA. TEMP. THERMISTOR (32°F / 15kΩ, 77°F / 5.4kΩ DETECT)
CN51	CONNECTOR (CENTRALLY CONTROL)	OPTION PARTS	
CN105	CONNECTOR	W.B	PCB FOR IR WIRELESS REMOTE CONTROLLER
FUSE	FUSE (T6.3AL250V)	BZ	BUZZER
LED1	POWER SUPPLY (I.B)	LED1	LED (OPERATION INDICATION : GREEN)
LED2	POWER SUPPLY (R.B)	LED2	LED (PREPARATION FOR HEATING : ORANGE)
LED3	TRANSMISSION (INDOOR-OUTDOOR)	RU	RECEIVING UNIT
SW1	SWITCH (MODEL SELECTION) Refer to <Table 1>	SW1	EMERGENCY OPERATION (HEAT)
SW2	SWITCH (CAPACITY CODE) Refer to <Table 2>	SW2	EMERGENCY OPERATION (COOL)
SWE	CONNECTOR (EMERGENCY OPERATION)	DP	DRAIN PUMP
X1	RELAY (DRAIN PUMP)	FS	DRAIN FLOAT SWITCH
MF	FAN MOTOR	R.B	WIRED REMOTE CONTROLLER BOARD
MV	VANE MOTOR	TB6	TERMINAL BLOCK (REMOTE CONTROLLER TRANSMISSION LINE)
		MT	I-SEE SENSOR MOTOR

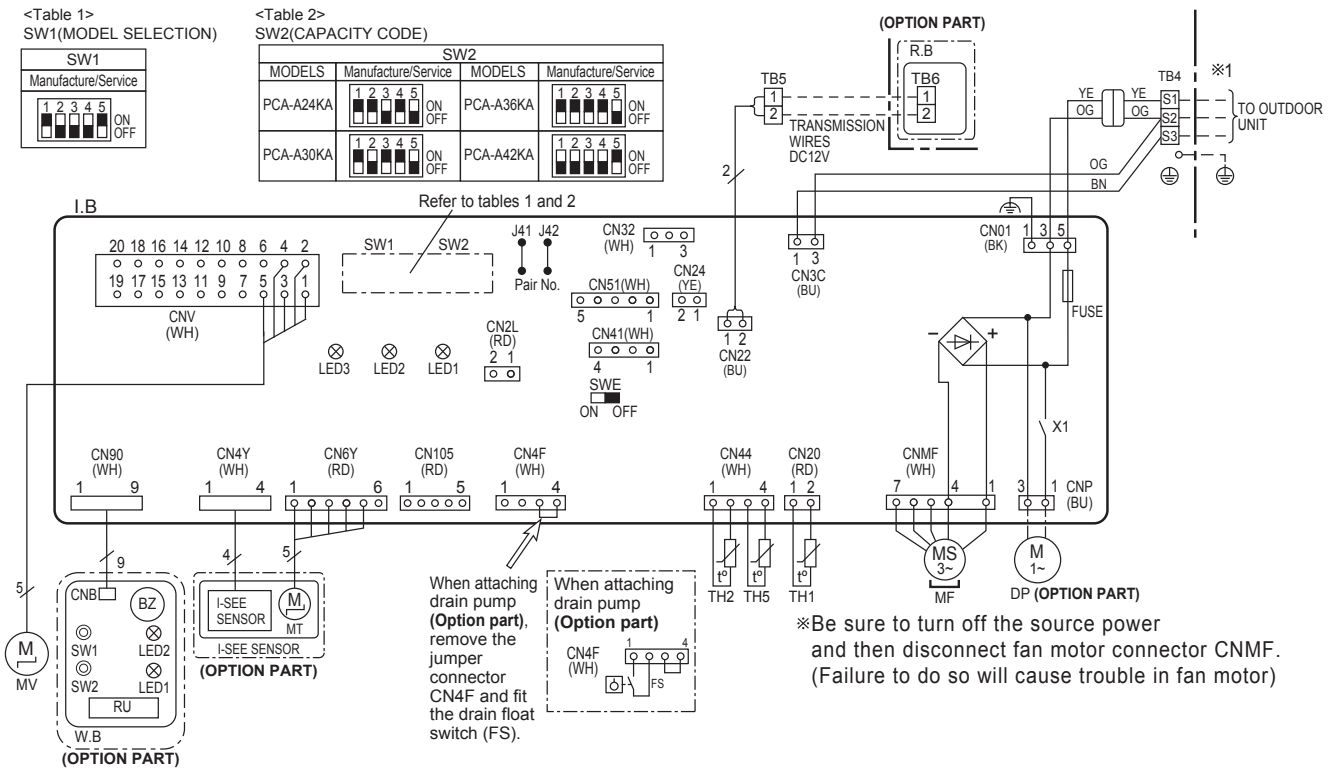
The black square(■)indicates a switch position.

<Table 1>
SW1(MODEL SELECTION)



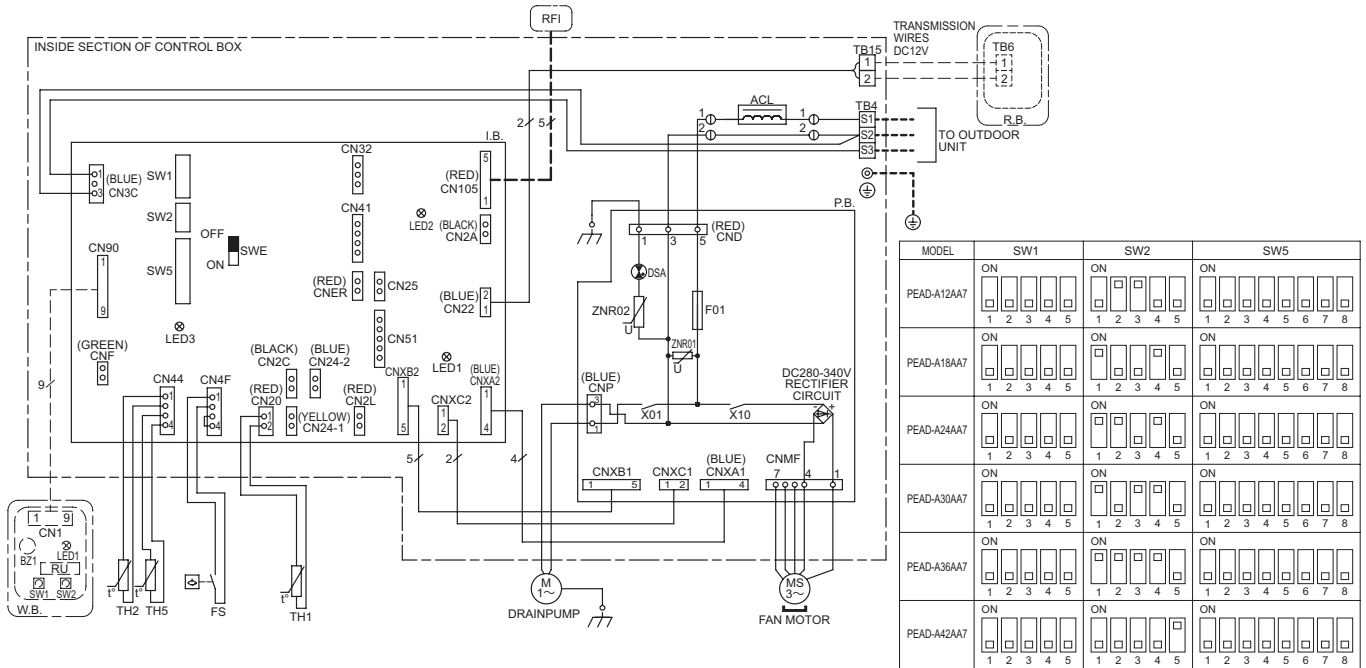
<Table 2>
SW2(CAPACITY CODE)

MODELS		SW2		MODELS		SW2	
Manufacturer/Service		ON OFF		Manufacturer/Service		ON OFF	
PCA-A24KA	1 2 3 4 5	ON	OFF	PCA-A36KA	1 2 3 4 5	ON	OFF
PCA-A30KA	1 2 3 4 5	ON	OFF	PCA-A42KA	1 2 3 4 5	ON	OFF



- Notes:
1. Symbols used in wiring diagram above are, []: Connector, []: Terminal block.
 2. Indoor and outdoor connecting wires are made with polarities, make wiring matching terminal numbers (S1, S2, S3).
 3. Since the outdoor side electric wiring may change, be sure to check the outdoor unit electric wiring for servicing.
 4. This diagram shows the wiring of indoor and outdoor connecting wires (specification of 208V/230V), adopting superimposed system of power and signal.
 - For power supply system of this unit, refer to the caution label located near this diagram.
- ※ 1: Use copper supply wire.
Utilisez des fils d'alimentation en cuivre.

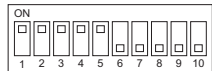
PEAD-A12AA7 PEAD-A18AA7 PEAD-A24AA7 PEAD-A30AA7 PEAD-A36AA7 PEAD-A42AA7



SYMBOL EXPLANATION

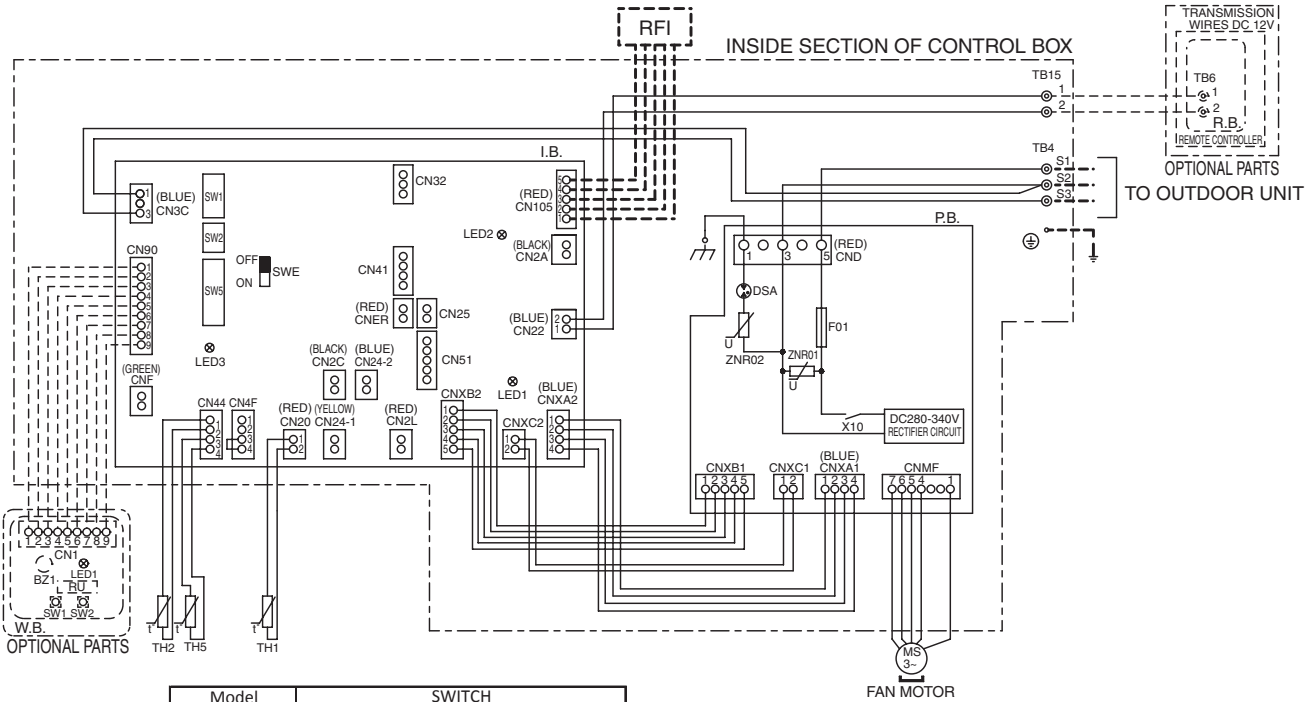
SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
I.B.	INDOOR CONTROLLER BOARD	I.B.	INDOOR CONTROLLER BOARD	TB4	TERMINAL BLOCK (INDOOR/OUTDOOR CONNECTING LINE)
CN24-1	CONNECTOR (HEATER CONTROL 1ST)	SW1	SWITCH (FOR MODEL SELECTION)	TB5	TERMINAL BLOCK (REMOTE CONTROLLER TRANSMISSION LINE)
CN24-2	CONNECTOR (HEATER CONTROL 2ND)	SW2	SWITCH (FOR CAPACITY CODE)		OPTIONAL PARTS
CN25	CONNECTOR (HUMIDITY OUTPUT)	SW5	SWITCH (FOR MODE SELECTION)	W.B.	IR WIRELESS REMOTE CONTROLLER BOARD
CN2A	CONNECTOR (0-10V ANALOG INPUT)	SWE	CONNECTOR (EMERGENCY OPERATION)	R.U.	RECEIVING UNIT
CN2C	CONNECTOR (ERV OUTPUT)			B.Z.	BUZZER
CN2L	CONNECTOR (LOSSWAY)	P.B.	POWER SUPPLY BOARD	LED1	LED (RUN INDICATOR)
CN32	CONNECTOR (REMOTE SWITCH)	F01	FUSE AC250V 6.3A	X01	AUX. RELAY (HEATING ON/OFF)
CN41	CONNECTOR (HA TERMINAL-A)	ZNR01,02	VARISTOR	X10	AUX. RELAY (COOLING ON/OFF)
CN51	CONNECTOR (CENTRAL CONTROL)	DSA	ARRESTOR		
CN90	CONNECTOR (WIRELESS)	X01	AUX. RELAY	R.B.	WIRED REMOTE CONTROLLER BOARD
CN105	CONNECTOR (RADIO FREQUENCY INTERFACE)	TH1	INTAKE AIR TEMP. THERMISTOR	TB6	TERMINAL BLOCK (REMOTE CONTROLLER TRANSMISSION LINE)
LED1	LED (POWER SUPPLY)	TH2	PIPE TEMP. THERMISTOR/LIQUID		
LED2	LED (REMOTE CONTROLLER SUPPLY)	TH5	COND. EVA. TEMP. THERMISTOR		
LED3	LED (TRANSMISSION INDDOR-OUTDOOR)	ACL	AC REACTOR (POWER FACTOR IMPROVEMENT)		
CNER	CONNECTOR (ERV INPUT)	FS	FLOAT SWITCH		
CNF	CONNECTOR (HUMIDITY INPUT)	RFI	RADIO FREQUENCY INTERFACE FOR RF THERMOSTAT		

- Note1. Since the outdoor side electric wiring may change be sure to check the outdoor unit electric wiring for servicing.
 2. Indoor and outdoor connecting wires are made with polarities, make wiring matching terminal numbers (S1, S2, S3).
 3. Symbols used in wiring diagram above are as follows.
 ○: CONNECTOR
 □: TERMINAL
 --- (HEAVY DOTTED LINE): FIELD WIRING
 - - - (THIN DOTTED LINE): OPTIONAL PARTS
 4. Use copper supply wire.



The figure at left shows that the switches 1 through 5 are set to ON and 6 through 10 are set to OFF.

PVA-A12AA7 PVA-A18AA7 PVA-A24AA7 PVA-A30AA7 PVA-A36AA7 PVA-A42AA7



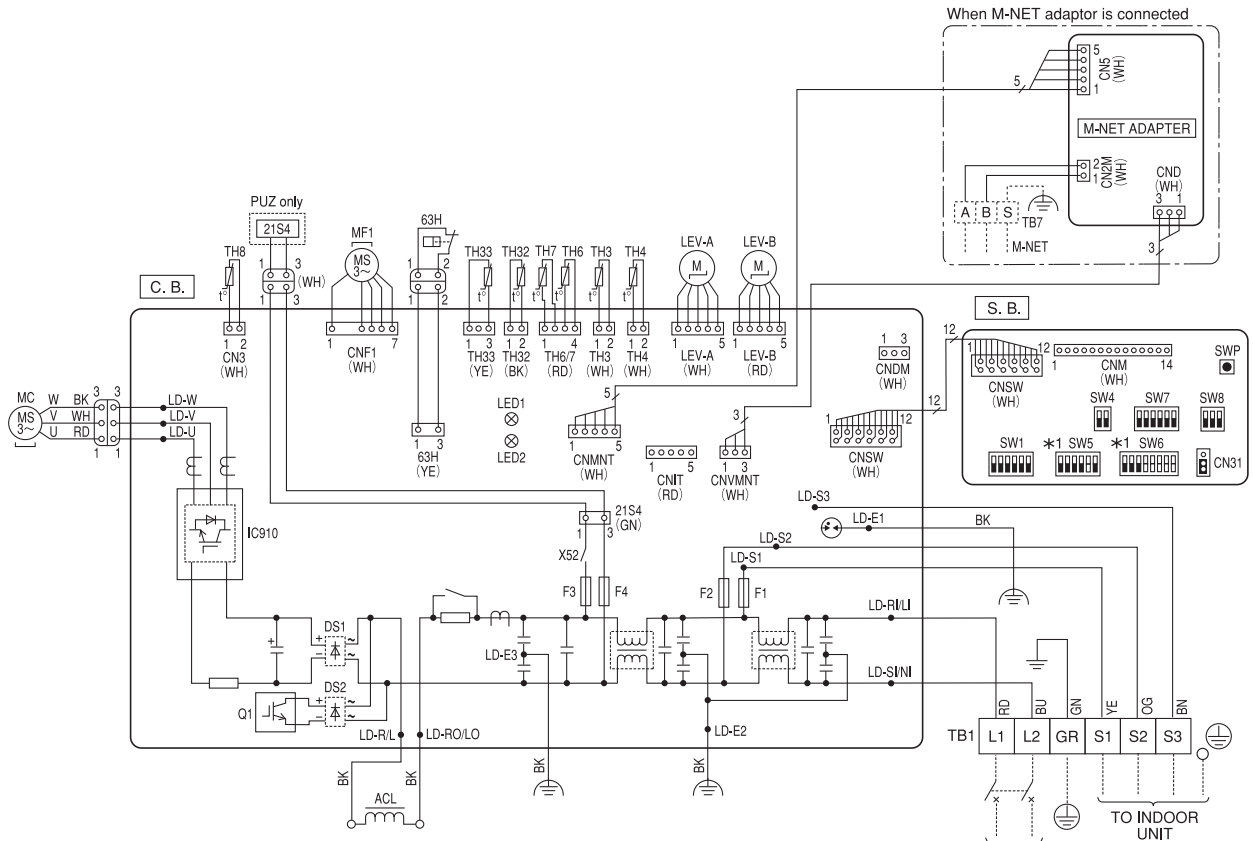
Model	SWITCH		
PVA-A12AA7	SW1 ON	SW2 ON	SW5 ON
PVA-A18AA7	SW1 ON	SW2 ON	SW5 ON
PVA-A24AA7	SW1 ON	SW2 ON	SW5 ON
PVA-A30AA7	SW1 ON	SW2 ON	SW5 ON
PVA-A36AA7	SW1 ON	SW2 ON	SW5 ON
PVA-A42AA7	SW1 ON	SW2 ON	SW5 ON

Note1. Since the outdoor side electric wiring may change be sure to check the outdoor unit electric wiring for servicing.
 2. Indoor and outdoor connecting wires are made with polarities, make wiring matching terminal numbers (S1, S2, S3).
 3. Symbols used in wiring diagram above are as follows.
 [Symbol] : CONNECTOR
 [Symbol] : TERMINAL
 [Symbol] (HEAVY DOTTED LINE): FIELD WIRING
 [Symbol] (THIN DOTTED LINE): OPTIONAL PARTS
 4. Use copper supply wire.
 UTILISER DES FILS D'ALIMENTATION EN CUIVRE.

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
I.B.	INDOOR CONTROLLER BOARD	I.B.	INDOOR CONTROLLER BOARD	OPTIONAL PARTS	
CN24-1	CONNECTOR (HEATER CONTROL 1ST)	SW1	SWITCH (FOR MODEL SELECTION)	W.B.	IR WIRELESS REMOTE CONTROLLER BOARD
CN24-2	CONNECTOR (HEATER CONTROL 2ND)	SW2	SWITCH (FOR CAPACITY CODE)	RU	RECEIVING UNIT
CN25	CONNECTOR (HUMIDITY OUTPUT)	SW5	SWITCH (FOR MODE SELECTION)	BZ1	BUZZER
CN2A	CONNECTOR (0-10V ANALOG INPUT)	SWE	CONNECTOR (EMERGENCY OPERATION)	LED1	LED(RUN INDICATOR)
CN2C	CONNECTOR (ERV OUTPUT)	P.B.	POWER SUPPLY BOARD	SW1	SWITCH(HEATING ON/OFF)
CN2L	CONNECTOR (LOSSNAY)	F01	FUSE AC250V 6.3A	SW2	SWITCH(COOLING ON/OFF)
CN32	CONNECTOR (REMOTE SWITCH)	ZNR01.02	VARIATOR	R.B.	WIRED REMOTE CONTROLLER BOARD
CN41	CONNECTOR (HA TERMINAL-A)	DSA	ARRESTOR	TB6	TERMINAL BLOCK (REMOTE CONTROLLER TRANSMISSION LINE)
CN51	CONNECTOR (CENTRALLY CONTROL)	X10	AUX.RELAY		
CN90	CONNECTOR (WIRELESS)	TH1	INTAKE AIR TEMP. THERMISTOR		
CN105	CONNECTOR (RADIO FREQUENCY INTERFACE)	TH2	PIPE TEMP. THERMISTOR/LIQUID		
CNER	CONNECTOR (ERV INPUT)	TH5	COND./EVA.TEMP. THERMISTOR		
CNF	CONNECTOR (HUMIDITY INPUT)	TB4	TERMINAL BLOCK (INDOOR/OUTDOOR CONNECTING LINE)		
LED1	LED(POWER SUPPLY)	TB15	TERMINAL BLOCK (REMOTE CONTROLLER TRANSMISSION LINE)		
LED2	LED(REMOTE CONTROLLER SUPPLY)	RFI	RADIO FREQUENCY INTERFACE FOR RF THERMOSTAT		
LED3	LED(TRANSMISSION INDOOR-OUTDOOR)				

PUZ-A12/18NKA7 PUZ-A12/18NKA7-BS PUY-A12/18NKA7 PUY-A12/18NKA7-BS

SYMBOL	NAME	SYMBOL	NAME
TB1	Terminal Block (Power Supply, Indoor/Outdoor)	C. B.	Controller Circuit Board
MC	Motor for Compressor	F1, F2	Fuse (T10AL250V)
MF1	Fan Motor	F3, F4	Fuse (T3.15AL250V)
21S4	Solenoid Valve (4-Way Valve)	CNDM	Connector (Connection for Option)
63H	High Pressure Switch	S. B.	Switch Board
TH3	Thermistor (Liquid)	SW1	Switch (Manual Defrost, Defect History Record Reset, Refrigerant Address)
TH4	Thermistor (Discharge)	SW4	Switch (Function Switch)
TH6	Thermistor (2-Phase Pipe)	SW5	Switch (Function Switch, Model Select)
TH7	Thermistor (Ambient)	SW6	Switch (Model Select)
TH8	Thermistor (Heat Sink)	SW7	Switch (Function Switch)
TH32	Thermistor (Suction)	SW8	Switch (Function Switch)
TH33	Thermistor (Comp. Surface)	SWP	Switch (Pump Down)
LEV-A, LEV-B	Linear Expansion Valve	CNM	Connector (Connection for Option)
ACL	Reactor	CN31	Connector (Emergency Operation)



*1. MODEL SELECT
The black square (■) indicates a switch position.

MODEL	SW6-4, 5, 6, 7, 8 *2	SW5-5 *2
PUZ-A12	ON OFF 1 2 3 4 5 6 7 8	ON OFF 1 2 3 4 5 6
PUZ-A18	ON OFF 1 2 3 4 5 6 7 8	ON OFF 1 2 3 4 5 6
PUY-A12	ON OFF 1 2 3 4 5 6 7 8	ON OFF 1 2 3 4 5 6
PUY-A18	ON OFF 1 2 3 4 5 6 7 8	ON OFF 1 2 3 4 5 6

*2. SW6-1 to 3, SW5-1 to 4, 6 : Function Switch

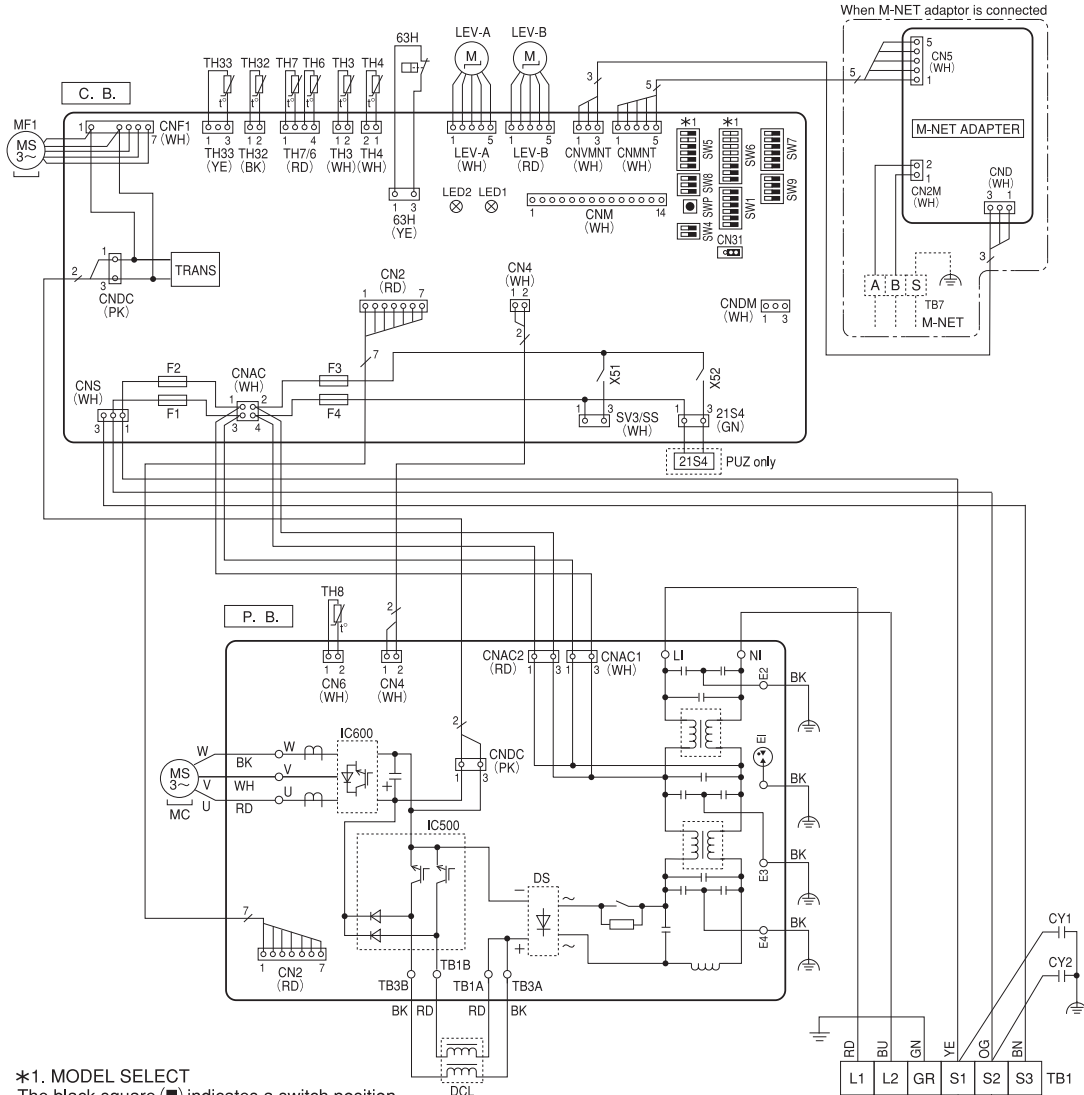
M-NET ADAPTER

SYMBOL	NAME
TB7	Terminal Block (M-NET connection)
CN5	Connector (Transmission)
CND	Connector (Power Supply)
CN2M	Connector (M-NET communication)

POWER SUPPLY
208/230 V AC 60 Hz
*Use copper supply wires.
*Utilisez des d'alimentation en cuivre.

PUZ-A24/30NHA7 PUZ-A24/30NHA7-BS PUY-A24/30NHA7 PUY-A24/30NHA7-BS

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
TB1	Terminal Block (Power Supply, Indoor/Outdoor)	TH33	Thermistor (Comp. Surface)	SW5	Switch (Function Switch, Model Select)
MC	Motor for Compressor	LEV-A, LEV-B	Linear Expansion Valve	SW6	Switch (Model Select)
MF1	Fan Motor	DCL	Reactor	SW7	Switch (Function Switch)
21S4	Solenoid Valve (4-Way Valve)	CY1, CY2	Capacitor	SW8	Switch (Function Switch)
63H	High Pressure Switch	P. B.	Power Circuit Board	SW9	Switch (Function Switch)
TH3	Thermistor (Liquid)	C. B.	Controller Circuit Board	SWP	Switch (Pump Down)
TH4	Thermistor (Discharge)	F1, F2	Fuse (T10AL250V)	CNM	Connector (Connection for Option)
TH6	Thermistor (2-Phase Pipe)	F3, F4	Fuse (T6.3AL250V)	CN31	Connector (Emergency Operation)
TH7	Thermistor (Ambient)	SW1	Switch (Manual Defrost, Defect History Record Reset, Refrigerant Address)	CNDM	Connector (Connection for Option)
TH8	Thermistor (Heat Sink)	SW4	Switch (Function Switch)	SV3/SS	Connector (Connection for Option)
TH32	Thermistor (Suction)				



*1. MODEL SELECT
The black square (■) indicates a switch position.

MODEL	SW6-4, 5, 6, 7, 8 *2	SW5-5 *2
PUZ-A24	ON OFF ■ ■ ■ ■ ■ ■ ■ ■ 1 2 3 4 5 6 7 8	ON OFF ■ ■ ■ ■ ■ ■ ■ ■ 1 2 3 4 5 6
PUZ-A30	ON OFF ■ ■ ■ ■ ■ ■ ■ ■ 1 2 3 4 5 6 7 8	ON OFF ■ ■ ■ ■ ■ ■ ■ ■ 1 2 3 4 5 6
PUY-A24	ON OFF ■ ■ ■ ■ ■ ■ ■ ■ 1 2 3 4 5 6 7 8	ON OFF ■ ■ ■ ■ ■ ■ ■ ■ 1 2 3 4 5 6
PUY-A30	ON OFF ■ ■ ■ ■ ■ ■ ■ ■ 1 2 3 4 5 6 7 8	ON OFF ■ ■ ■ ■ ■ ■ ■ ■ 1 2 3 4 5 6

*2. SW6-1 to 3, SW5-1 to 4, 6 : Function Switch

M-NET ADAPTER

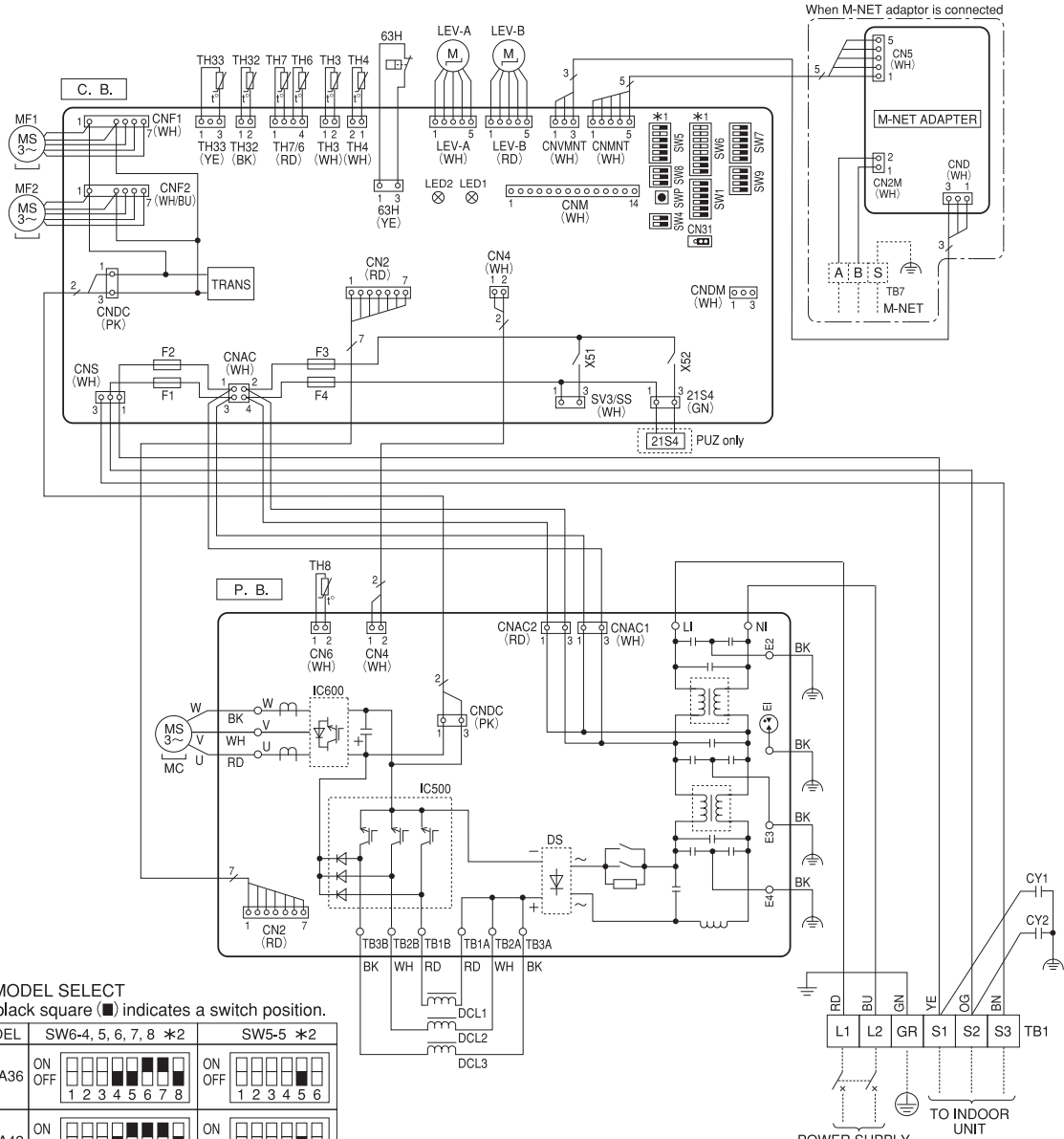
SYMBOL	NAME
TB7	Terminal Block (M-NET connection)
CN5	Connector (Transmission)
CND	Connector (Power Supply)
CN2M	Connector (M-NET communication)

POWER SUPPLY
208/230 V AC 60 Hz

*Use copper supply wires.
*Utilisez des d' alimentation en cuivre.

PUZ-A36/42NKA7 PUZ-A36/42NKA7-BS PUY-A36/42NKA7 PUY-A36/42NKA7-BS

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
TB1	Terminal Block (Power Supply, Indoor/Outdoor)	TH33	Thermistor (Comp. Surface)	SW5	Switch (Function Switch, Model Select)
MC	Motor for Compressor	LEV-A, LEV-B	Linear Expansion Valve	SW6	Switch (Model Select)
MF1, MF2	Fan Motor	DCL1, DCL2, DCL3	Reactor	SW7	Switch (Function Switch)
21S4	Solenoid Valve (4-Way Valve)	CY1, CY2	Capacitor	SW8	Switch (Function Switch)
63H	High Pressure Switch	P. B.	Power Circuit Board	SW9	Switch (Function Switch)
TH3	Thermistor (Liquid)	C. B.	Controller Circuit Board	SWP	Switch (Pump Down)
TH4	Thermistor (Discharge)	F1, F2	Fuse (T10AL250V)	CNM	Connector (Connection for Option)
TH6	Thermistor (2-Phase Pipe)	F3, F4	Fuse (T6.3AL250V)	CN31	Connector (Emergency Operation)
TH7	Thermistor (Ambient)	SW1	Switch (Manual Defrost, Defect History Record Reset, Refrigerant Address)	CNDM	Connector (Connection for Option)
TH8	Thermistor (Heat Sink)	SW4	Switch (Function Switch)	SV3/SS	Connector (Connection for Option)
TH32	Thermistor (Suction)				



*1. MODEL SELECT
The black square (■) indicates a switch position.

MODEL	SW6-4, 5, 6, 7, 8 *2	SW5-5 *2
PUZ-A36	ON OFF [Switch positions]	ON OFF [Switch positions]
PUZ-A42	ON OFF [Switch positions]	ON OFF [Switch positions]
PUY-A36	ON OFF [Switch positions]	ON OFF [Switch positions]
PUY-A42	ON OFF [Switch positions]	ON OFF [Switch positions]

*2. SW6-1 to 3, SW5-1 to 4, 6 : Function Switch

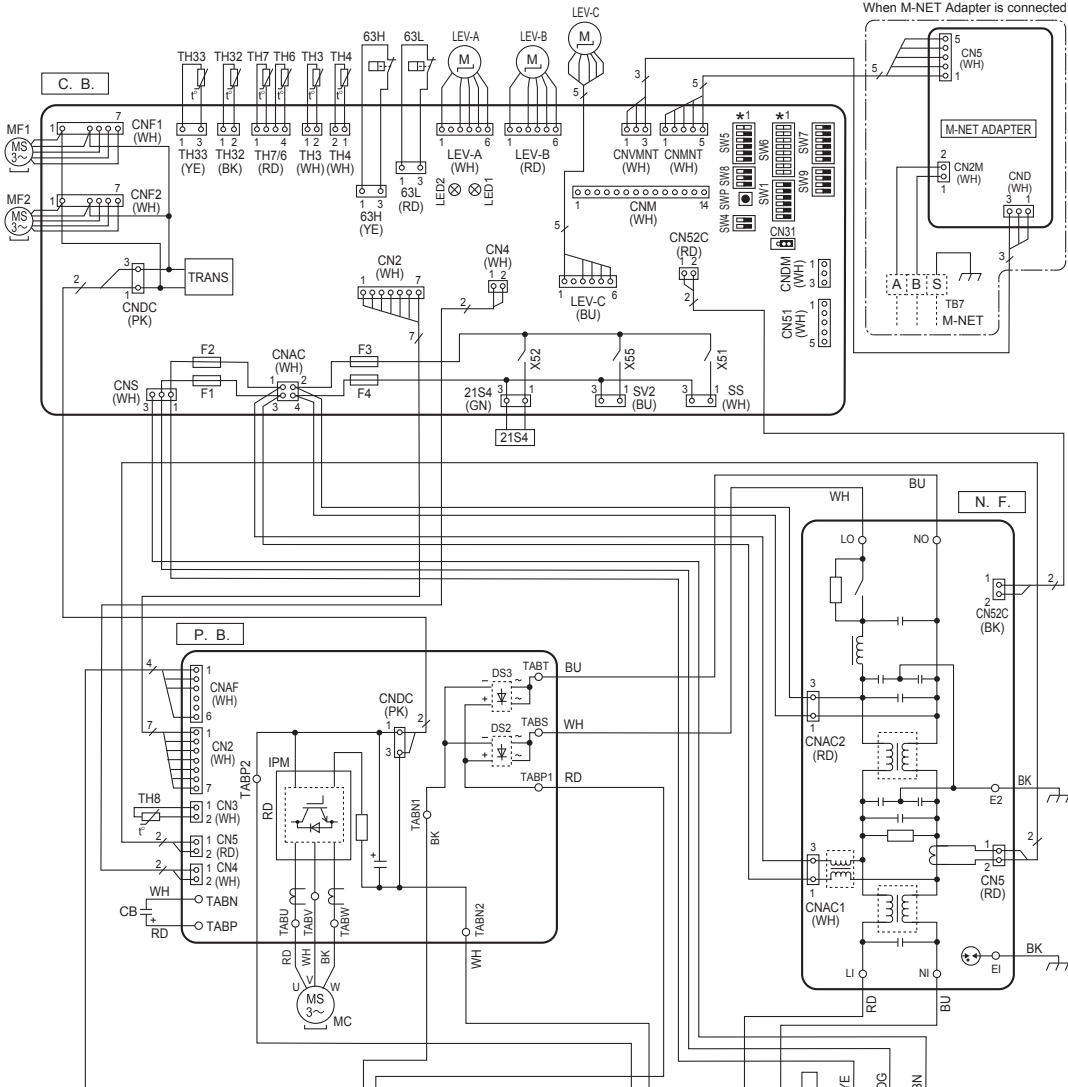
M-NET ADAPTER

SYMBOL	NAME
TB7	Terminal Block (M-NET connection)
CN5	Connector (Transmission)
CND	Connector (Power Supply)
CN2M	Connector (M-NET communication)

POWER SUPPLY
208/230 V AC 60 Hz
*Use copper supply wires.
*Utilisez des d'alimentation en cuivre.

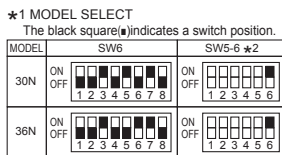
PUZ-HA30NHA5 PUZ-HA36NHA5

SYMBOL	NAME	SYMBOL	NAME
TB1	Terminal Block<Power Supply, Indoor/Outdoor>	N.F.	Noise Filter Circuit Board
MC	Motor for Compressor	C.B.	Controller Circuit Board
MF1, MF2	Fan Motor	F1, F2, F3, F4	Fuse<T6.3AL250V>
21S4	Solenoid Valve (4-Way Valve)	SW1	Switch<Manual Defrost, Defect History Record Reset, Refrigerant Address>
63H	High Pressure Switch	SW4	Switch<Test Operation>
63L	Low Pressure Switch	SW5	Switch<Function Switch, Model Select>
TH3	Thermistor<Liquid>	SW6	Switch<Model Select>
TH4	Thermistor<Discharge>	SW7	Switch<Function Switch>
TH6	Thermistor<2-Phase Pipe>	SW8	Switch<Function Switch>
TH7	Thermistor<Ambient>	SW9	Switch<Function Switch>
TH8	Thermistor<Heat Sink>	SWP	Switch<Pump Down>
TH32	Thermistor<Suction>	CN31	Connector<Emergency Operation>
TH33	Thermistor<Ref. check>	SS	Connector<Connection for Option>
LEV-A, LEV-B, LEV-C	Linear Expansion Valve	CNM	Connector<Connection for Option>
DCL	Reactor	CNMNT	Connector<Connection for Option>
ACTM	Active Filter Module	CNMNT	Connector<Connection for Option>
CB	Main Smoothing Capacitor	CNDM	Connector<Connection for Option>
CY1, CY2	Capacitor	CN51	Connector<Connection for Option>
P.B.	Power Circuit Board		



M-NET ADAPTER

SYMBOL	NAME
TB7	Terminal Block<M-NET connection>
CN5	Connector<Transmission>
CND	Connector<Power Supply>
CN2M	Connector<M-NET communication>

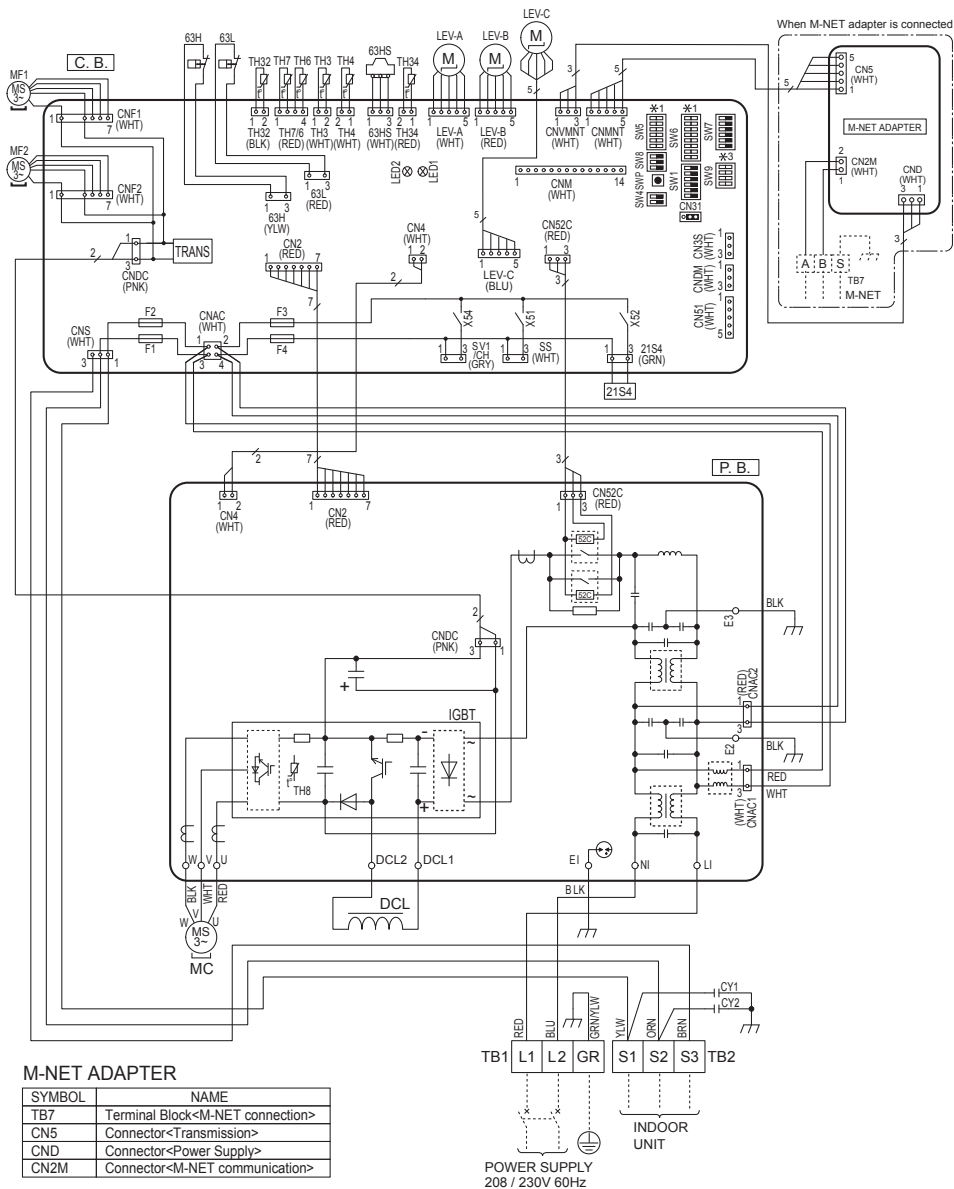


POWER SUPPLY
208/230VAC 60Hz
*Use copper supply wires.
Utilisez des fils d'alimentation en cuivre.

PUZ-HA42NKA

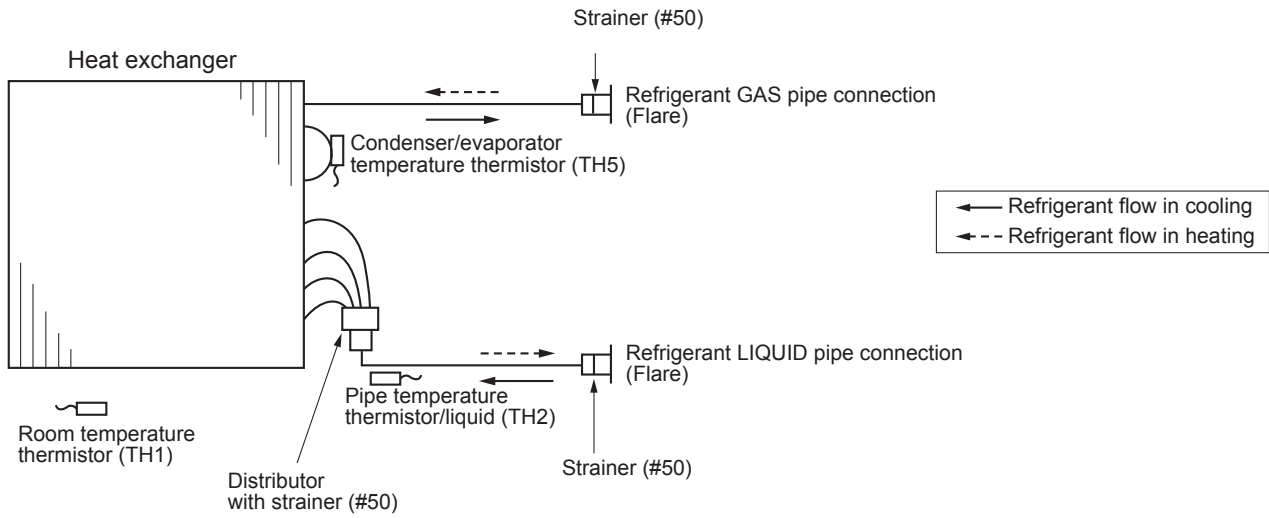
[LEGEND]

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
TB1	Terminal Block<Power Supply>	LEV-A, LEV-B, LEV-C	Linear Expansion Valve	SW5	Switch<Function Switch, Model Select>
TB2	Terminal Block<Indoor/Outdoor>	DCL	Reactor	SW6	Switch<Model Select>
MC	Motor for Compressor	CY1, CY2	Capacitor	SW7	Switch<Function Switch>
MF1, MF2	Fan Motor	P. B.	Power Circuit Board	SW8	Switch<Function Switch>
21S4	Solenoid Valve (Four-Way Valve)	U, V, W	Connection Terminal<UV/W-Phase>	SW9	Switch<Function Switch>
63H	High Pressure Switch	LI	Connection Terminal<L1-Phase>	SWP	Switch<Pump Down>
63L	Low Pressure Switch	NI	Connection Terminal<L2-Phase>	SN31	Connector<Emergency Operation>
63HS	High Pressure Sensor	DCL1, DCL2	Connection Terminal<Reactor>	CNDM	Connector<Connection for Option>
TH3	Thermistor<Liquid>	IGBT	Power Module	CN51	Connector<Connection for Option>
TH4	Thermistor<Discharge>	E1, E2, E3	Connection Terminal<Ground>	SV1/CH	Connector<Connection for Option>
TH6	Thermistor<2-Phase Pipe>	52C	52C Relay	SS	Connector<Connection for Option>
TH7	Thermistor<Ambient>	C. B.	Controller Circuit Board	CNM	Connector<Connection for Option>
TH8	Thermistor (Internal) <Heat Sink>	SW1	Record<Manual Defrost, Defect History, Record Reset, Refrigerant Address>	LED1, LED2	LED<Operation Inspection Indicators>
TH32	Thermistor<Suction>	SW4	Switch<Test Operation>	F1, F2, F3, F4	Fuse<T6.3AL250V>
TH34	Thermistor<Comp. Surface>			X51, X52, X54	Relay

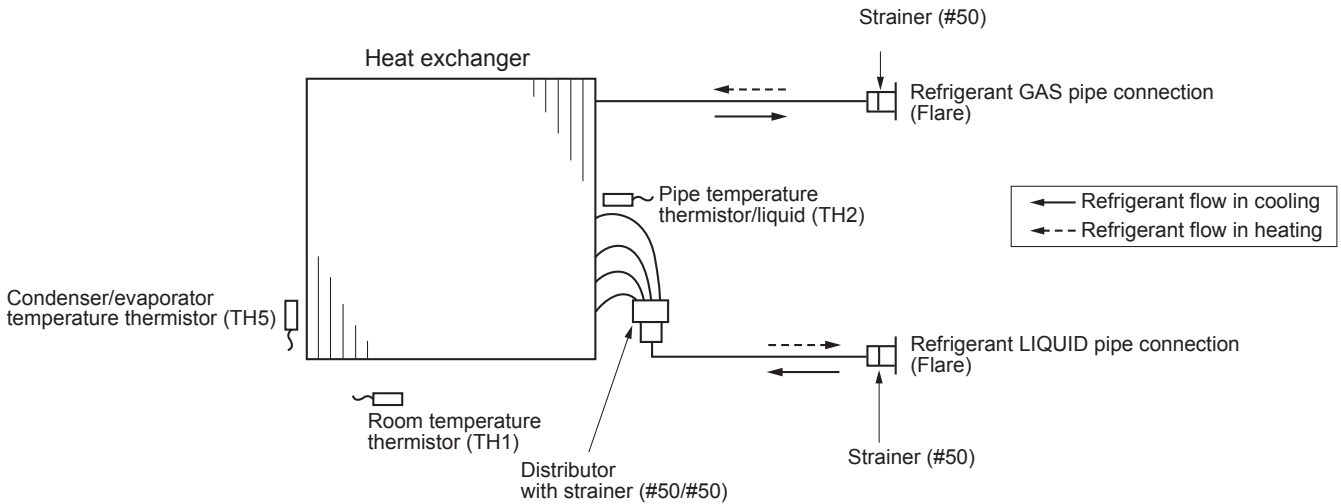


6 | REFRIGERANT SYSTEM DIAGRAM

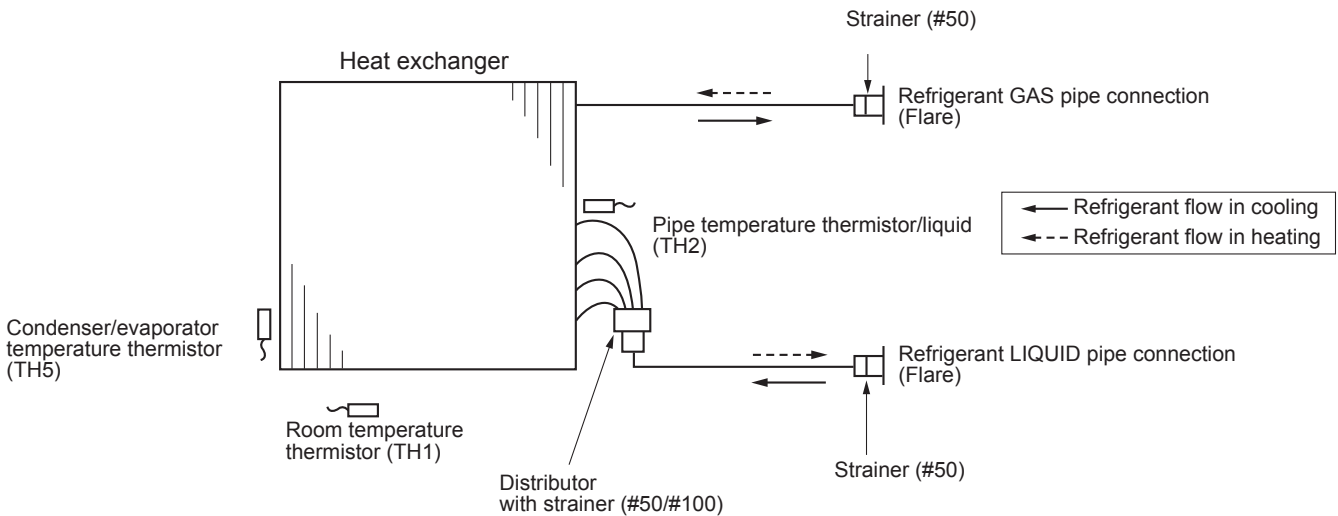
6-1. INDOOR UNIT PLA-A-EA7



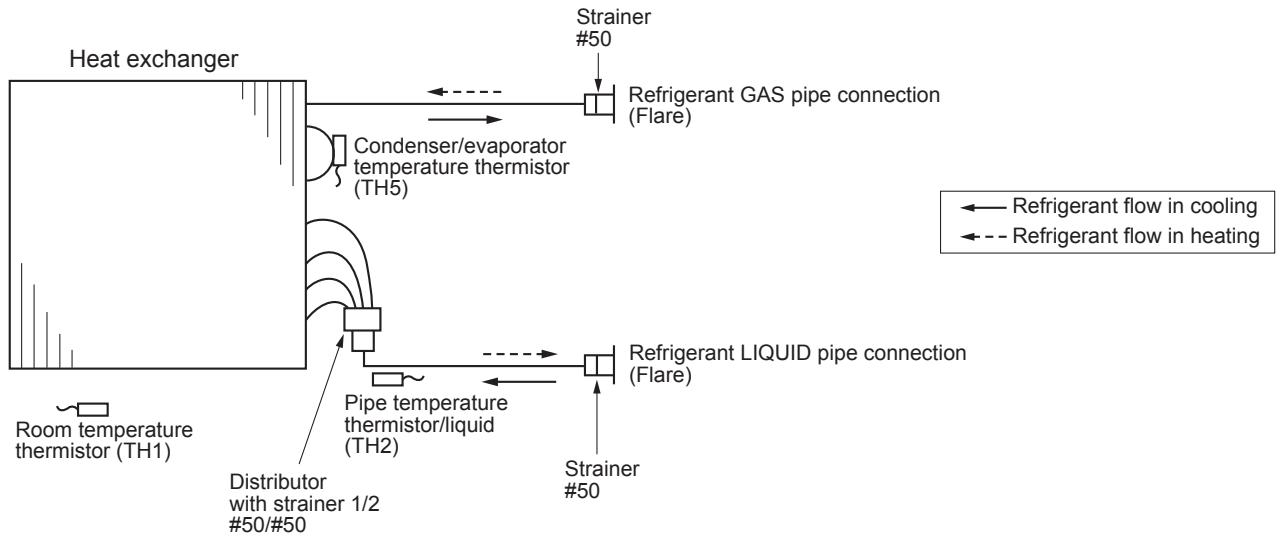
PKA-A-HA7



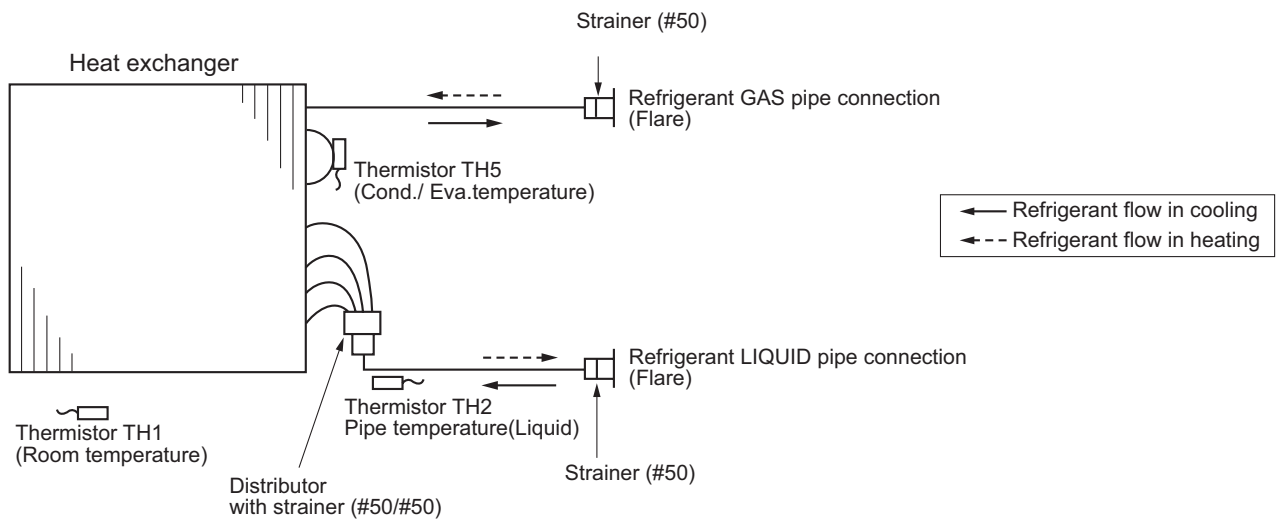
PKA-A-KA7



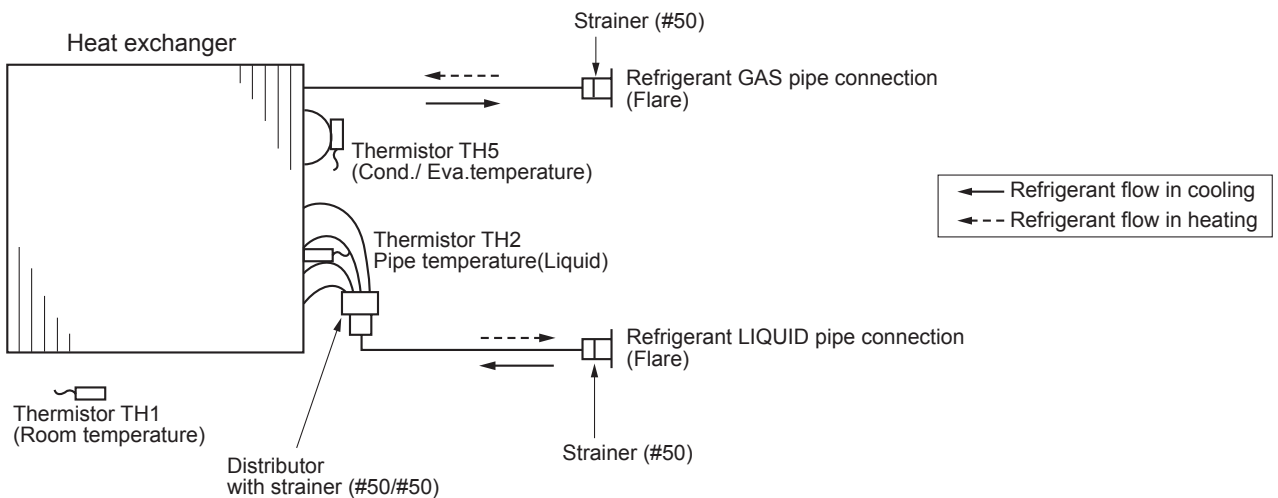
PCA-A·KA7



PEAD-A·AA7



PVA-A·AA7

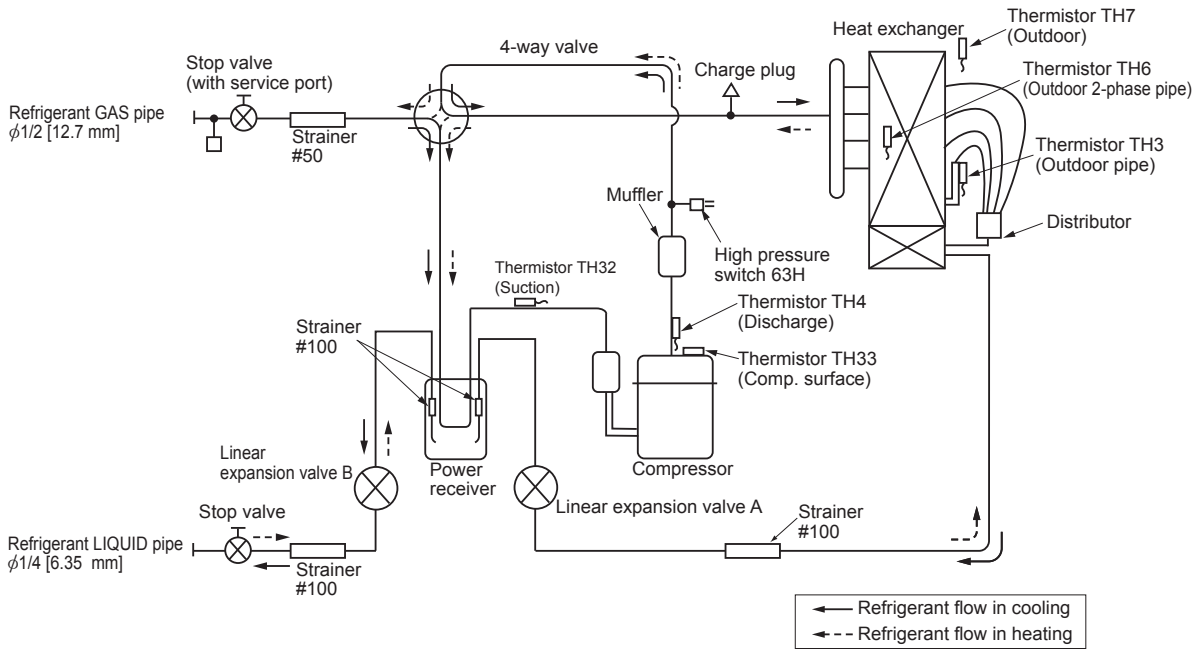


6-2. OUTDOOR UNIT

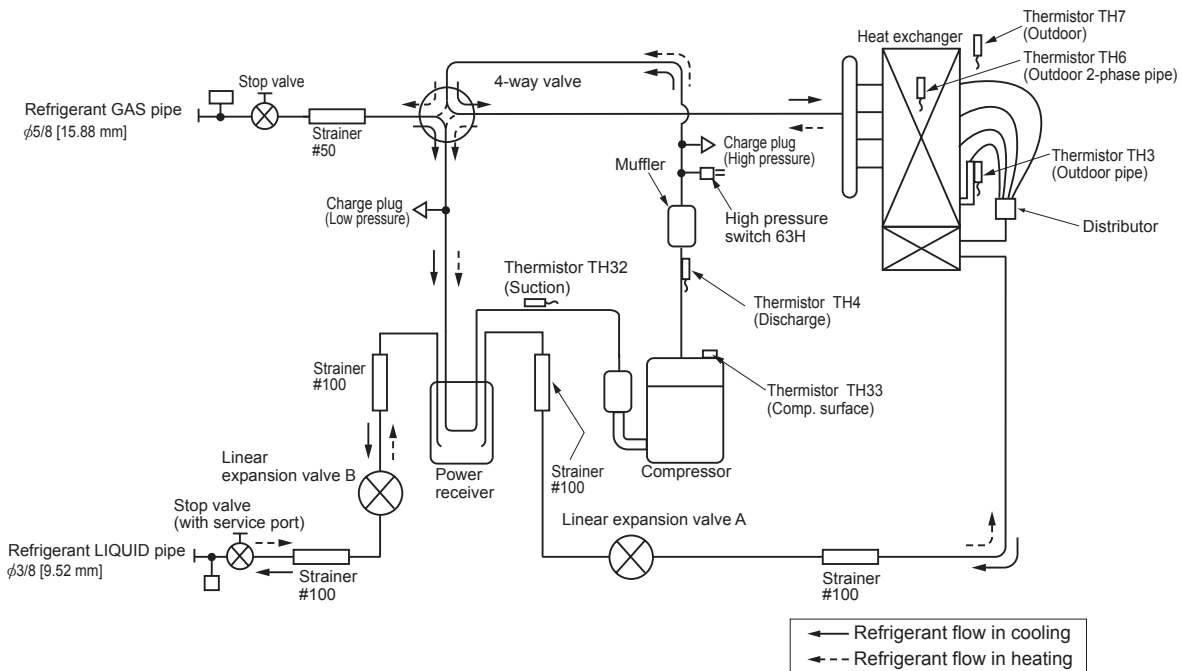
PUZ-A12NKA7 PUZ-A18NKA7
PUZ-A12NKA7-BS PUZ-A18NKA7-BS

Unit: inch [mm]

<4-way valve solenoid coil>
 Heating: ON
 Cooling: OFF



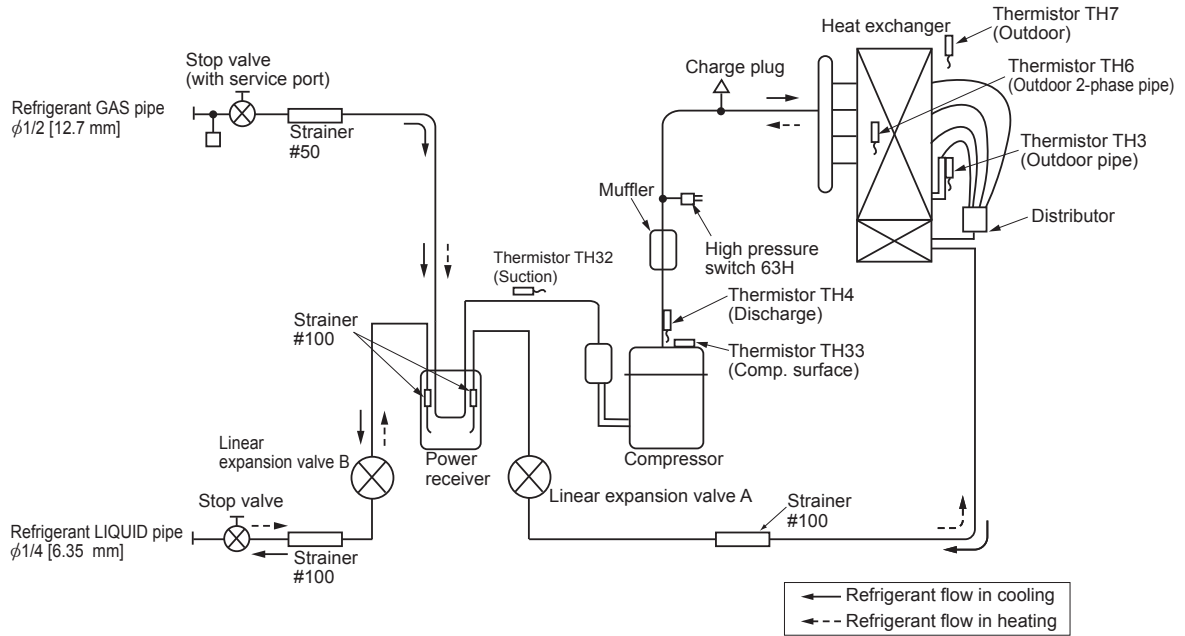
PUZ-A24NHA7 PUZ-A30NHA7 PUZ-A36NKA7 PUZ-A42NKA7
PUZ-A24NHA7-BS PUZ-A30NHA7-BS PUZ-A36NKA7-BS PUZ-A42NKA7-BS



PUY-A12NKA7
PUY-A12NKA7-BS

PUY-A18NKA7
PUY-A18NKA7-BS

Unit: inch [mm]

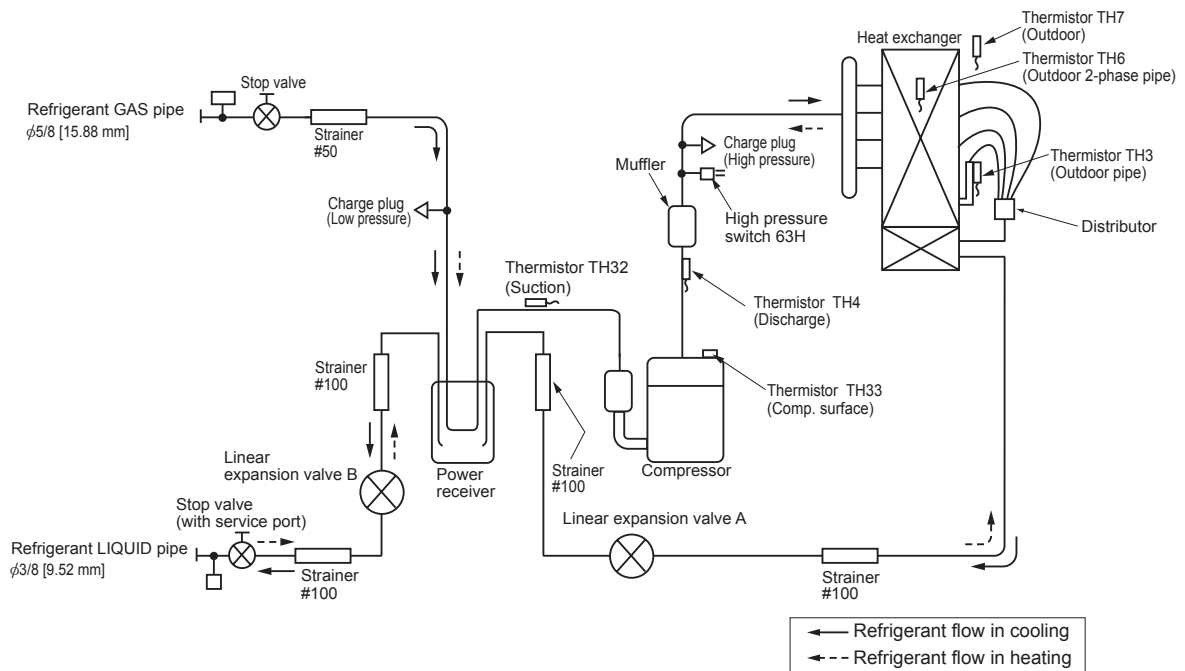


PUY-A24NHA7
PUY-A24NHA7-BS

PUY-A30NHA7
PUY-A30NHA7-BS

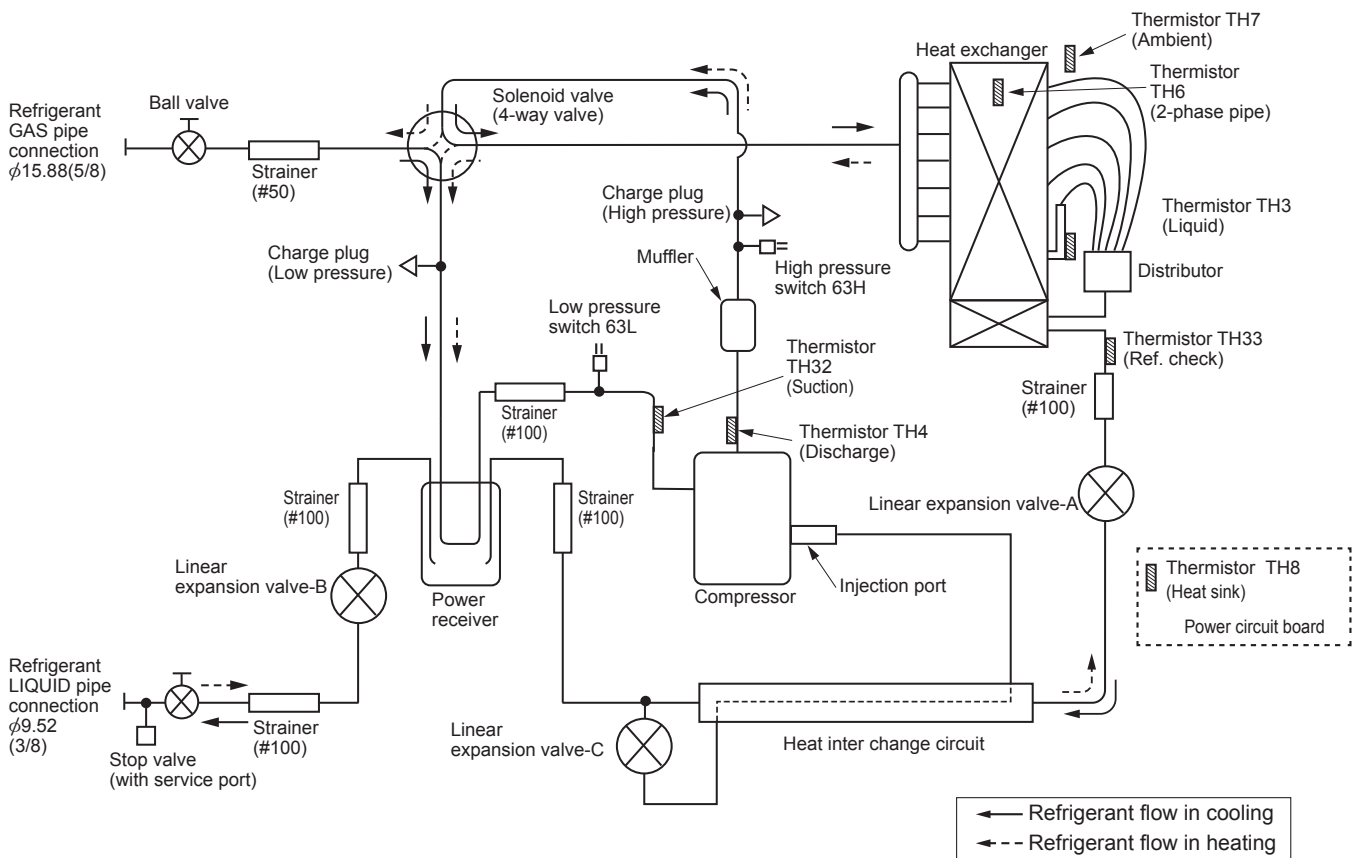
PUY-A36NKA7
PUY-A36NKA7-BS

PUY-A42NKA7
PUY-A42NKA7-BS



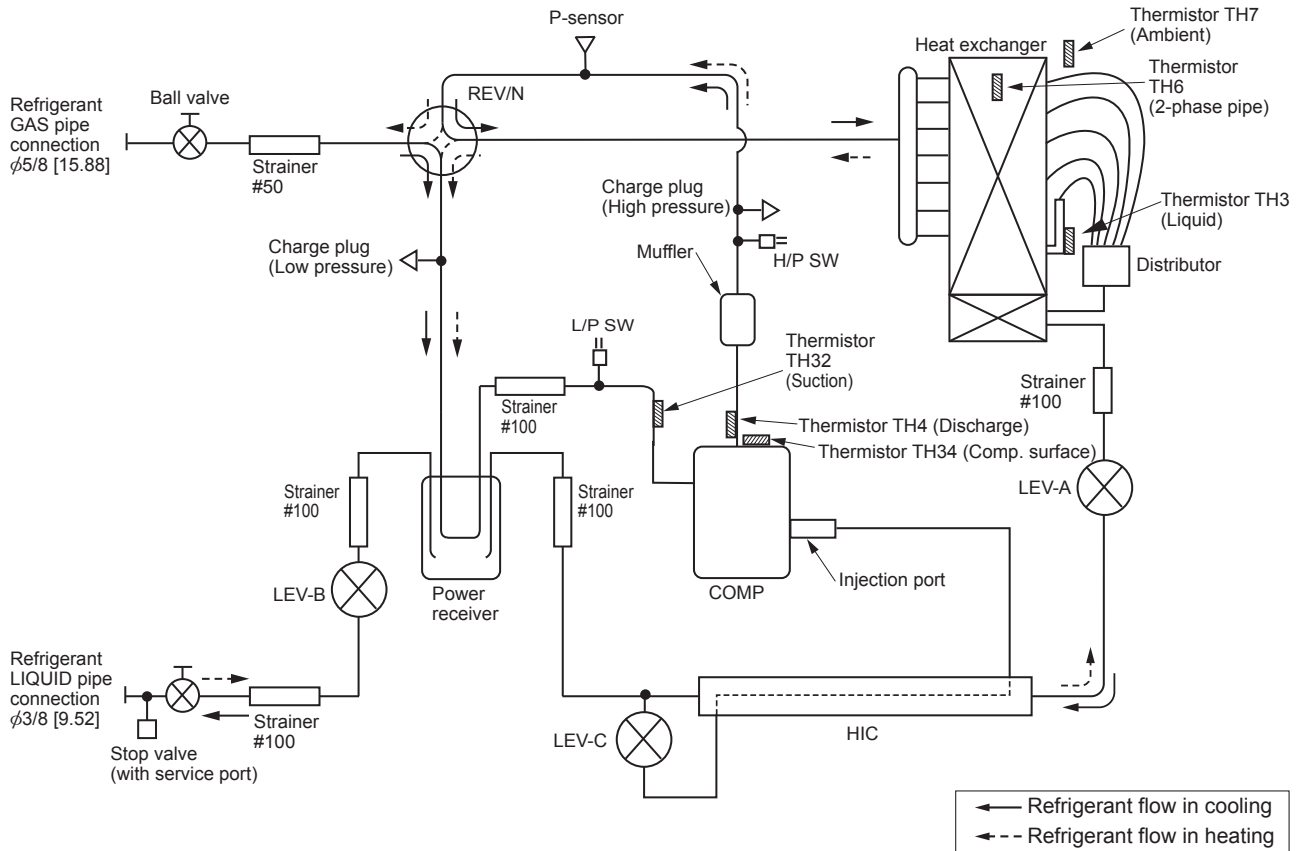
PUZ-HA30NHA5 PUZ-HA36NHA5

unit : mm (inch)



PUZ-HA42NKA

unit : mm (inch)

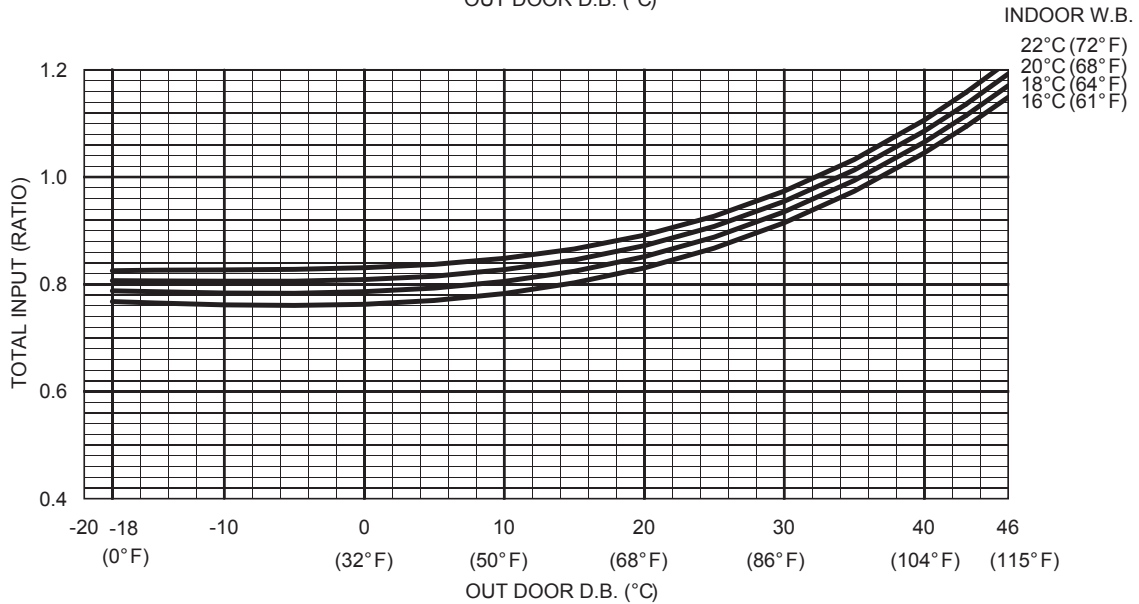
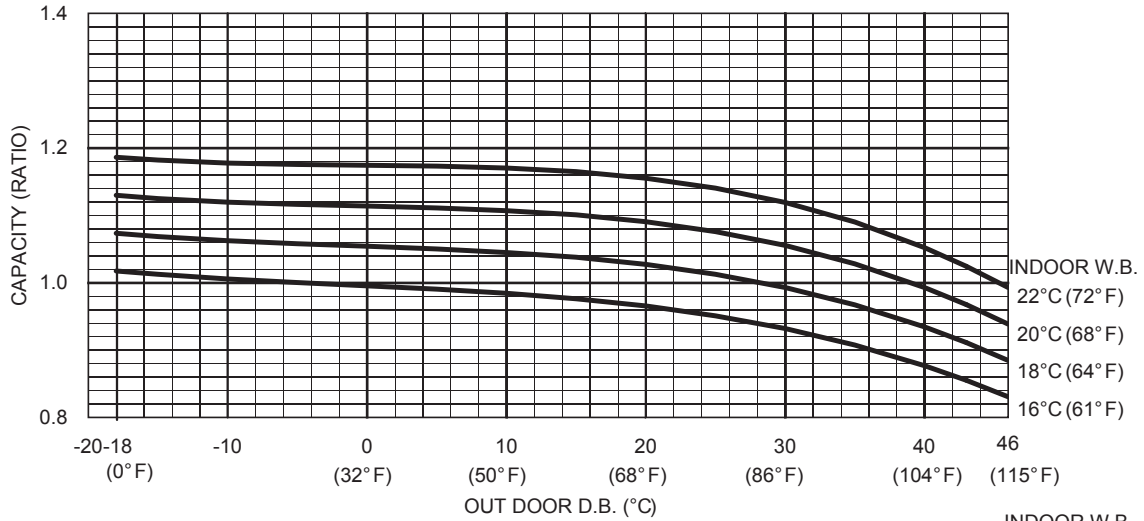


Symbol	Parts name	Detail
COMP	Compressor	DC inverter scroll compressor (Mitsubishi Electric Corporation)
H/P SW	High pressure switch (63H)	For protection (OFF: 4.15MPa)
L/P SW	Low pressure switch (63L)	For protection (OFF: -0.03MPa)
REV/V	Reversing (4-way) valve (21S4)	Change the refrigerant circuit (Heating / Cooling) and for Defrosting
Charge plug	Charge plug	High pressure / Low pressure / For production test use
P-Sensor	Pressure sensor (63HS)	For calculation of the condensing temperature from high pressure
LEV-A	Linear expansion valve -A	Heating:Secondary LEV Cooling:Primary LEV
LEV-B	Linear expansion valve -B	Heating:Primary LEV Cooling:Secondary LEV
LEV-C	Linear expansion valve -C	For HIC (heating only)
TH32	Suction temperature thermistor	For LEV control
TH3	Liquid temperature thermistor	Heating:Evaporating temperature Cooling:Sub cool liquid temperature
TH4	Discharge temperature thermistor	For LEV control and for compressor protection
TH6	2-phase pipe temperature thermistor	Outdoor 2-phase pipe temperature
TH7	Ambient temperature thermistor	For fan control and for compressor frequency control
TH34	Comp. surface temperature thermistor	For protection
Power Receiver	Power Receiver	For accumulation of refrigerant
HIC	Heat interchange circuit	For high heating capacity

7 | PERFORMANCE CURVES

FOR THE COMBINATION OF OUTDOOR UNIT
PUZ-A-NKA7(-BS) PUZ-A-NHA7(-BS)

Cooling performance curve



Note: This diagram shows the case where the operation frequency of a compressor is fixed.

CAPACITY (RATIO)

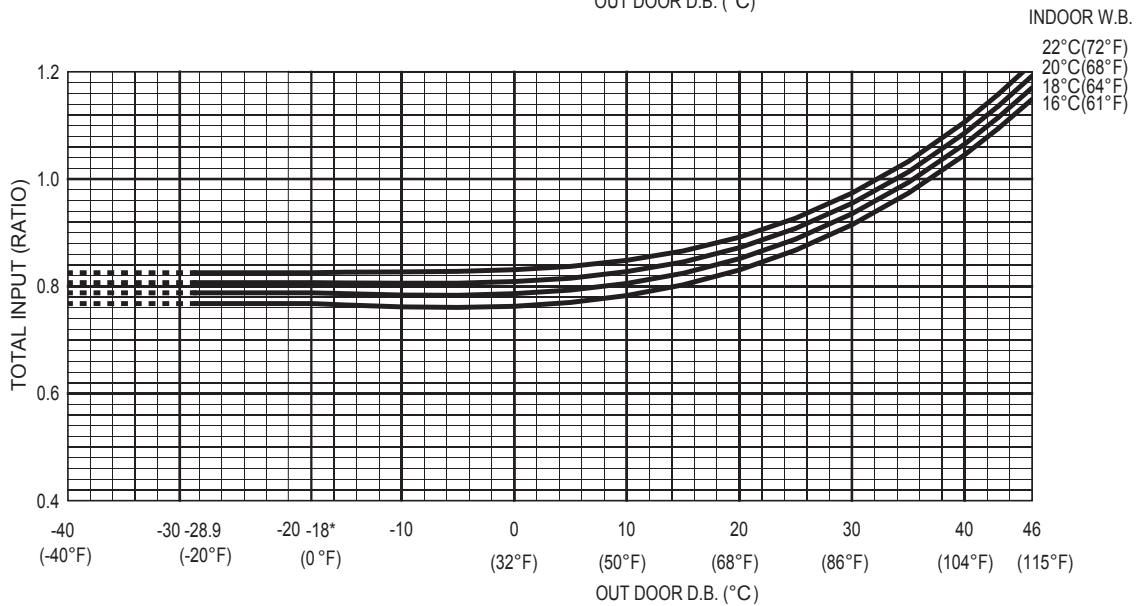
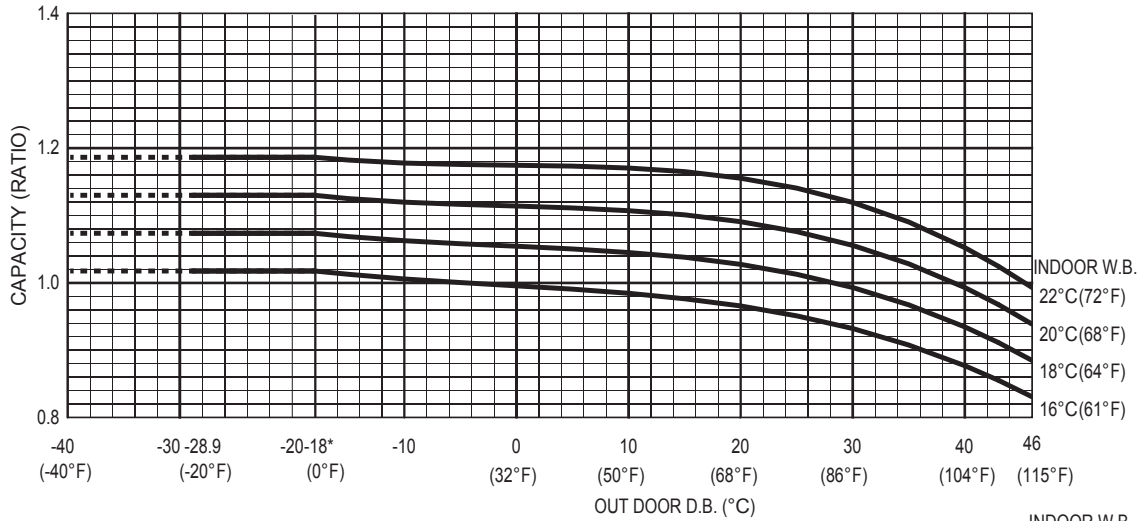
Outdoor D.B.[°C]	-18	-15	-10	-5	0	5	10	15	20	25	30	35	40	43	46
Outdoor D.B.[°F]	0	-	-	23	32	-	50	-	68	-	86	-	104	-	115
Indoor W.B. 22°C(72°F)	1.186	1.182	1.178	1.175	1.174	1.173	1.170	1.165	1.155	1.141	1.119	1.090	1.052	1.024	0.993
Indoor W.B. 20°C(68°F)	1.130	1.125	1.120	1.116	1.114	1.111	1.107	1.101	1.091	1.076	1.056	1.028	0.993	0.968	0.939
Indoor W.B. 18°C(64°F)	1.073	1.068	1.062	1.058	1.054	1.050	1.045	1.038	1.027	1.013	0.993	0.967	0.934	0.911	0.885
Indoor W.B. 16°C(61°F)	1.018	1.012	1.006	1.000	0.995	0.990	0.984	0.976	0.965	0.951	0.932	0.908	0.877	0.855	0.831

TOTAL INPUT (RATIO)

Outdoor D.B.[°C]	-18	-15	-10	-5	0	5	10	15	20	25	30	35	40	43	46
Outdoor D.B.[°F]	0	-	-	23	-	-	50	-	68	-	86	-	104	-	115
Indoor W.B. 22°C(72°F)	0.825	0.826	0.827	0.828	0.831	0.837	0.848	0.866	0.892	0.927	0.973	1.033	1.106	1.158	1.216
Indoor W.B. 20°C(68°F)	0.807	0.806	0.805	0.806	0.809	0.815	0.827	0.845	0.872	0.908	0.954	1.013	1.086	1.136	1.192
Indoor W.B. 18°C(64°F)	0.788	0.786	0.784	0.783	0.786	0.793	0.805	0.824	0.852	0.888	0.935	0.994	1.065	1.115	1.170
Indoor W.B. 16°C(61°F)	0.768	0.765	0.761	0.760	0.763	0.770	0.783	0.802	0.830	0.867	0.915	0.974	1.045	1.094	1.149

**FOR THE COMBINATION OF OUTDOOR UNIT
PUY-A-NKA7(-BS) PUY-A-NHA7(-BS)**

Cooling performance curve



Note: This diagram shows the case where the operation frequency of a compressor is fixed.

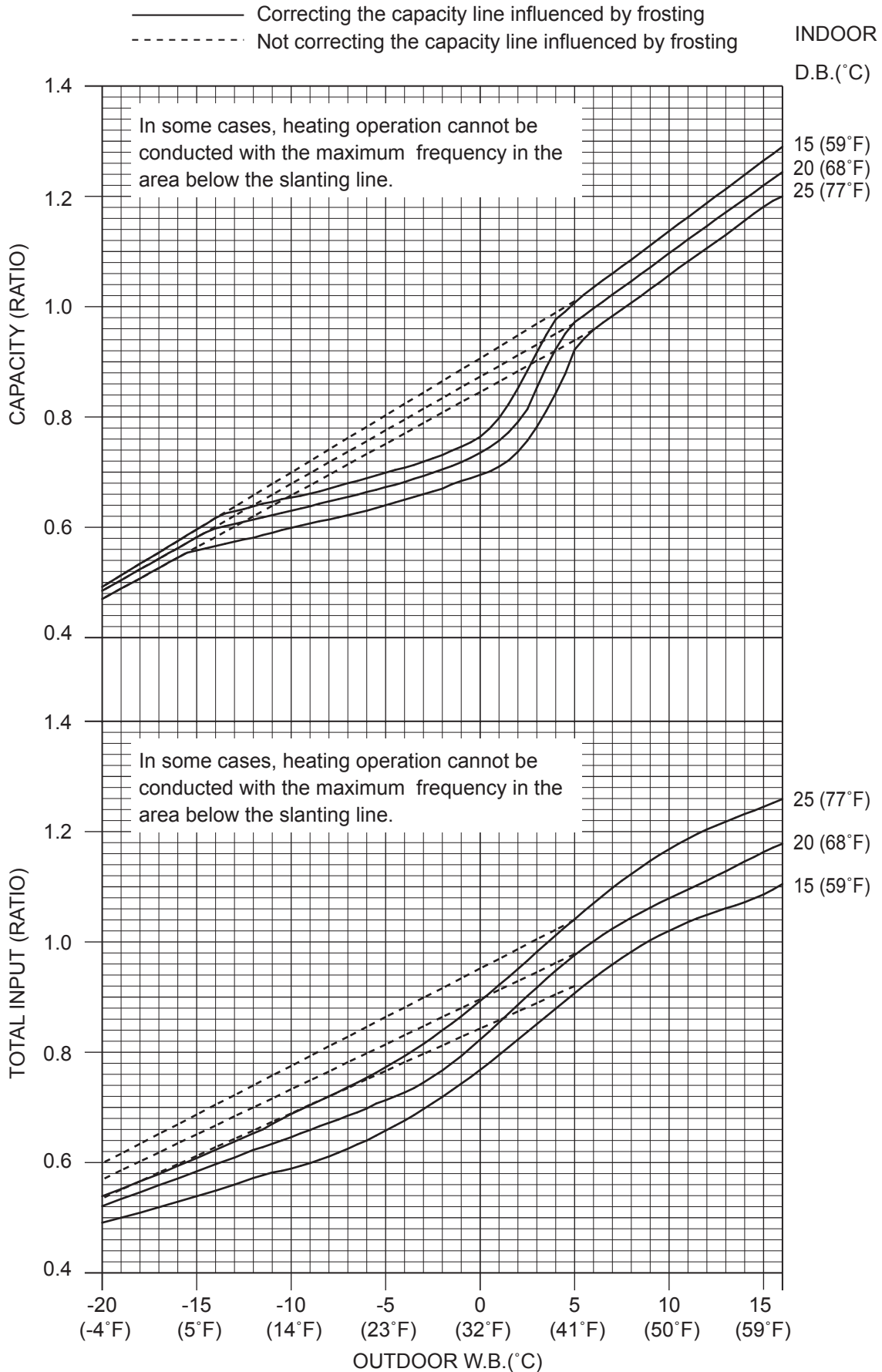
CAPACITY (RATIO)

Outdoor D.B.[°C]	-28.9	-18	-15	-10	-5	0	5	10	15	20	25	30	35	40	43	46
Outdoor D.B.[°F]	-20	0	-	-	23	32	-	50	-	68	-	86	-	104	-	115
Indoor W.B. 22°C (72°F)	1.186	1.186	1.182	1.178	1.175	1.174	1.173	1.170	1.165	1.155	1.141	1.119	1.090	1.052	1.024	0.993
Indoor W.B. 20°C (68°F)	1.130	1.130	1.125	1.120	1.116	1.114	1.111	1.107	1.101	1.091	1.076	1.056	1.028	0.993	0.968	0.939
Indoor W.B. 18°C (64°F)	1.073	1.073	1.068	1.062	1.058	1.054	1.050	1.045	1.038	1.027	1.013	0.993	0.967	0.934	0.911	0.885
Indoor W.B. 16°C (61°F)	1.018	1.018	1.012	1.006	1.000	0.995	0.990	0.984	0.976	0.965	0.951	0.932	0.908	0.877	0.855	0.831

TOTAL INPUT (RATIO)

Outdoor D.B.[°C]	-28.9	-18	-15	-10	-5	0	5	10	15	20	25	30	35	40	43	46
Outdoor D.B.[°F]	-20	0	-	-	23	-	-	50	-	68	-	86	-	104	-	115
Indoor W.B. 22°C (72°F)	0.825	0.825	0.826	0.827	0.828	0.831	0.837	0.848	0.866	0.892	0.927	0.973	1.033	1.106	1.158	1.216
Indoor W.B. 20°C (68°F)	0.807	0.807	0.806	0.805	0.806	0.809	0.815	0.827	0.845	0.872	0.908	0.954	1.013	1.086	1.136	1.192
Indoor W.B. 18°C (64°F)	0.788	0.788	0.786	0.784	0.783	0.786	0.793	0.805	0.824	0.852	0.888	0.935	0.994	1.065	1.115	1.170
Indoor W.B. 16°C (61°F)	0.768	0.768	0.765	0.761	0.760	0.763	0.770	0.783	0.802	0.830	0.867	0.915	0.974	1.045	1.094	1.149

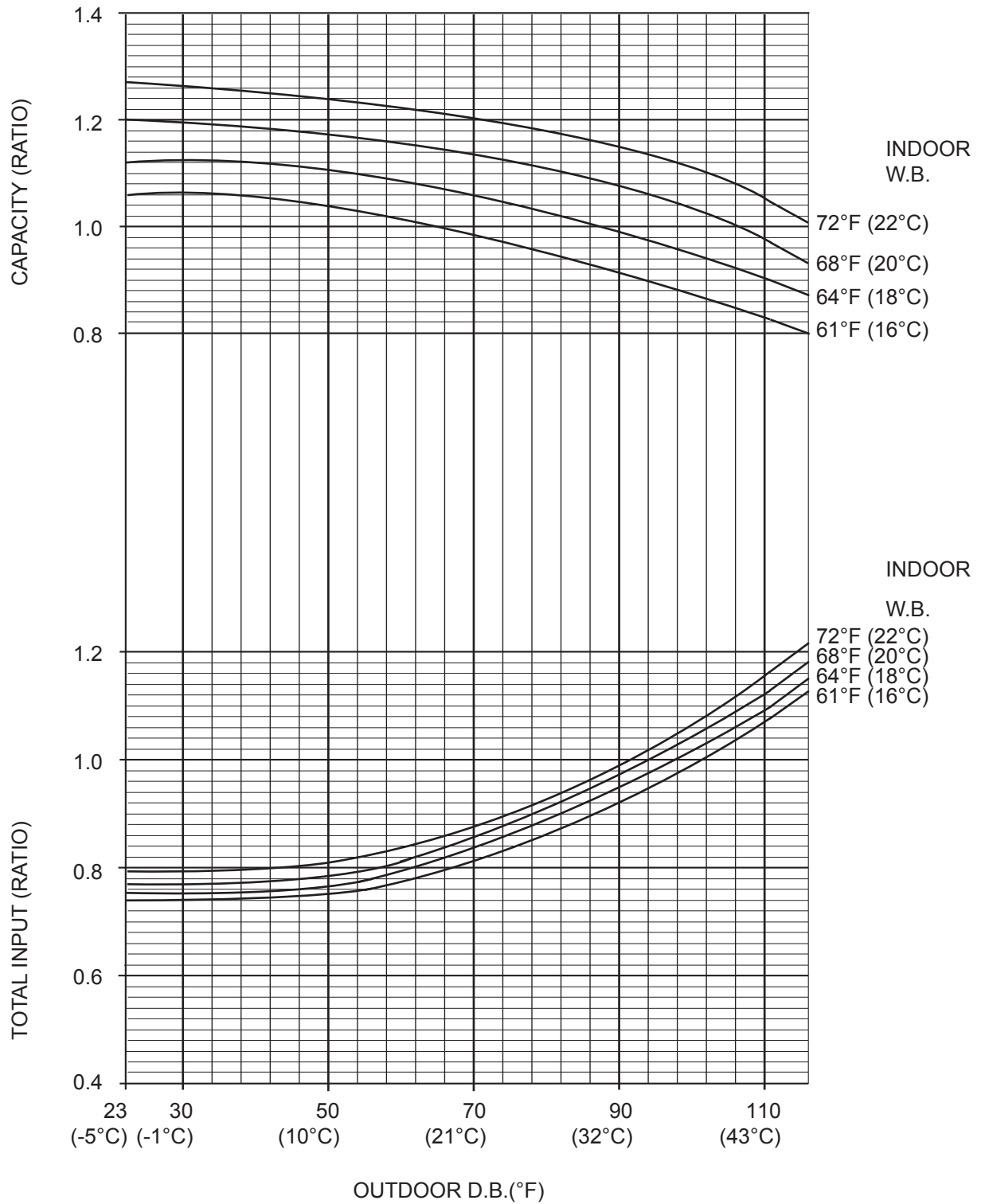
Heating performance curve



Note : This diagram shows the case where the operation frequency of a compressor is fixed.

**FOR THE COMBINATION OF OUTDOOR UNIT
PUZ-HA·NHA5 PUZ-HA·NKA**

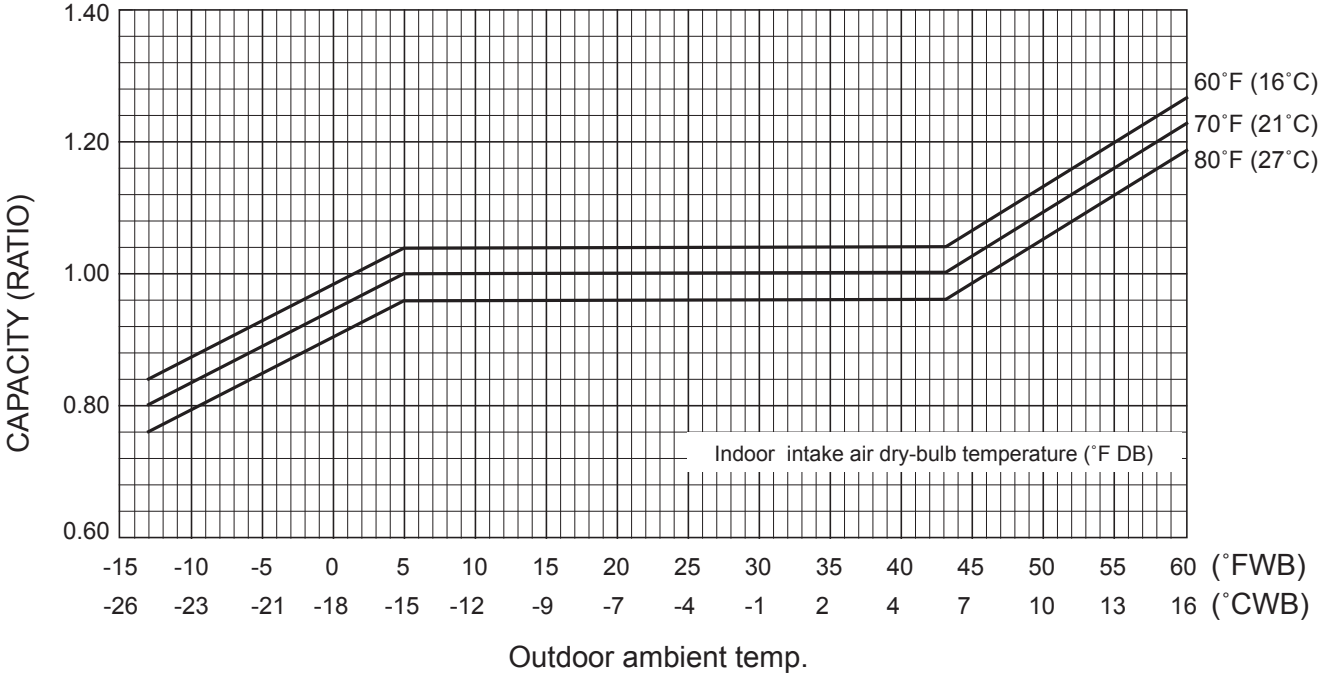
Cooling performance curve



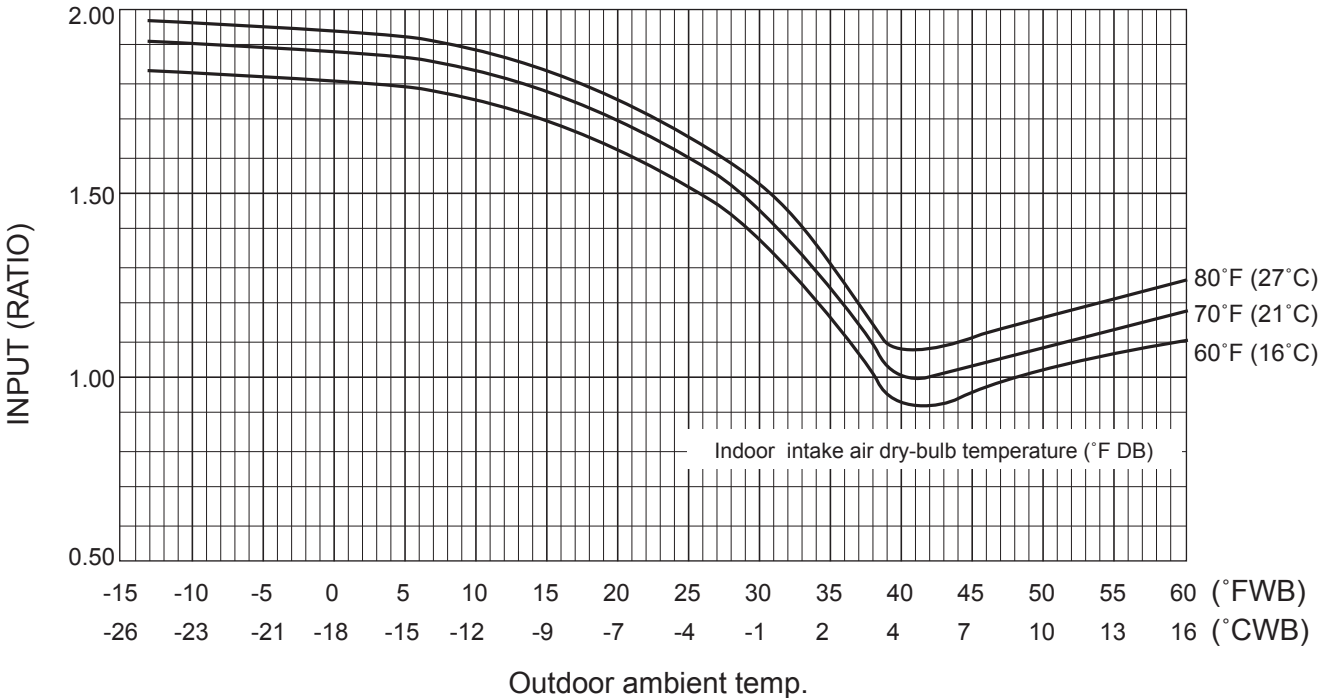
Note : This diagram shows the case where the operation frequency of a compressor is fixed.

Rated heating performance curve

Rated heating capacity



Heating input



8 | PERFORMANCE CHART

8-1. INVERTER

8-1-1. COOLING CAPACITY

PLA-A12EA7/PUY-A12NKA7, PUZ-A12NKA7

CAPACITY (Btu/h): 12,000 INPUT (kW): 0.73 SHF: 0.89

Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Indoor intake air W.B.(°C)	Indoor intake air W.B.(°F)	Outdoor intake air °C/°F D.B.																							
				20/68				25/77				30/86				35/95				40/104				46/115			
				CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
19	66	16	61	11,580	9,102	0.79	0.61	11,412	8,970	0.79	0.63	11,184	8,791	0.79	0.67	10,896	8,564	0.79	0.71	10,524	8,272	0.79	0.76	9,972	7,838	0.79	0.84
19	66	18	64	12,324	8,208	0.67	0.62	12,156	8,096	0.67	0.65	11,916	7,936	0.67	0.68	11,604	7,728	0.67	0.73	11,208	7,465	0.67	0.78	10,620	7,073	0.67	0.85
20	68	16	61	11,580	9,565	0.83	0.61	11,412	9,426	0.83	0.63	11,184	9,238	0.83	0.67	10,896	9,000	0.83	0.71	10,524	8,693	0.83	0.76	9,972	8,237	0.83	0.84
20	68	18	64	12,324	8,701	0.71	0.62	12,156	8,582	0.71	0.65	11,916	8,413	0.71	0.68	11,604	8,192	0.71	0.73	11,208	7,913	0.71	0.78	10,620	7,498	0.71	0.85
20	68	20	68	13,092	7,672	0.59	0.64	12,912	7,566	0.59	0.66	12,672	7,426	0.59	0.70	12,336	7,229	0.59	0.74	11,916	6,983	0.59	0.79	11,268	6,603	0.59	0.87
22	72	16	61	11,580	10,491	0.91	0.61	11,412	10,339	0.91	0.63	11,184	10,133	0.91	0.67	10,896	9,872	0.91	0.71	10,524	9,535	0.91	0.76	9,972	9,035	0.91	0.84
22	72	18	64	12,324	9,687	0.79	0.62	12,156	9,555	0.79	0.65	11,916	9,366	0.79	0.68	11,604	9,121	0.79	0.73	11,208	8,809	0.79	0.78	10,620	8,347	0.79	0.85
22	72	20	68	13,092	8,719	0.67	0.64	12,912	8,599	0.67	0.66	12,672	8,440	0.67	0.70	12,336	8,216	0.67	0.74	11,916	7,936	0.67	0.79	11,268	7,504	0.67	0.87
24	75	16	61	11,580	11,418	0.99	0.61	11,412	11,252	0.99	0.63	11,184	11,027	0.99	0.67	10,896	10,743	0.99	0.71	10,524	10,377	0.99	0.76	9,972	9,832	0.99	0.84
24	75	18	64	12,324	10,673	0.87	0.62	12,156	10,527	0.87	0.65	11,916	10,319	0.87	0.68	11,604	10,049	0.87	0.73	11,208	9,706	0.87	0.78	10,620	9,197	0.87	0.85
24	75	20	68	13,092	9,767	0.75	0.64	12,912	9,632	0.75	0.66	12,672	9,453	0.75	0.70	12,336	9,203	0.75	0.74	11,916	8,889	0.75	0.79	11,268	8,406	0.75	0.87
24	75	22	72	13,860	8,676	0.63	0.65	13,692	8,571	0.63	0.68	13,428	8,406	0.63	0.71	13,080	8,188	0.63	0.75	12,624	7,903	0.63	0.81	11,916	7,459	0.63	0.89
26	79	16	61	11,580	11,580	1.00	0.61	11,412	11,412	1.00	0.63	11,184	11,184	1.00	0.67	10,896	10,896	1.00	0.71	10,524	10,524	1.00	0.76	9,972	9,972	1.00	0.84
26	79	18	64	12,324	11,659	0.95	0.62	12,156	11,500	0.95	0.65	11,916	11,273	0.95	0.68	11,604	10,977	0.95	0.73	11,208	10,603	0.95	0.78	10,620	10,047	0.95	0.85
26	79	20	68	13,092	10,814	0.83	0.64	12,912	10,665	0.83	0.66	12,672	10,467	0.83	0.70	12,336	10,190	0.83	0.74	11,916	9,843	0.83	0.79	11,268	9,307	0.83	0.87
26	79	22	72	13,860	9,785	0.71	0.65	13,692	9,667	0.71	0.68	13,428	9,480	0.71	0.71	13,080	9,234	0.71	0.75	12,624	9,913	0.71	0.81	11,916	8,317	0.71	0.89
27	81	16	61	11,580	11,580	1.00	0.61	11,412	11,412	1.00	0.63	11,184	11,184	1.00	0.67	10,896	10,896	1.00	0.71	10,524	10,524	1.00	0.76	9,972	9,972	1.00	0.84
27	81	18	64	12,324	12,151	0.99	0.62	12,156	11,986	0.99	0.65	11,916	11,749	0.99	0.68	11,604	11,442	0.99	0.73	11,208	11,051	0.99	0.78	10,620	10,471	0.99	0.85
27	81	20	68	13,092	11,338	0.87	0.64	12,912	11,182	0.87	0.66	12,672	12,974	0.87	0.70	12,336	12,683	0.87	0.74	11,916	11,319	0.87	0.79	11,268	9,758	0.87	0.87
27	81	22	72	13,860	10,340	0.75	0.65	13,692	10,214	0.75	0.68	13,428	10,017	0.75	0.71	13,080	9,758	0.75	0.75	12,624	9,418	0.75	0.81	11,916	8,889	0.75	0.89
28	82	16	61	11,580	11,580	1.00	0.61	11,412	11,412	1.00	0.63	11,184	11,184	1.00	0.67	10,896	10,896	1.00	0.71	10,524	10,524	1.00	0.76	9,972	9,972	1.00	0.84
28	82	18	64	12,324	12,324	1.00	0.62	12,156	12,156	1.00	0.65	11,916	11,916	1.00	0.68	11,604	11,604	1.00	0.73	11,208	11,208	1.00	0.78	10,620	10,620	1.00	0.85
28	82	20	68	13,092	11,861	0.91	0.64	12,912	11,698	0.91	0.66	12,672	11,481	0.91	0.70	12,336	11,176	0.91	0.74	11,916	10,796	0.91	0.79	11,268	10,209	0.91	0.87
28	82	22	72	13,860	10,894	0.79	0.65	13,692	10,762	0.79	0.68	13,428	10,554	0.79	0.71	13,080	10,281	0.79	0.75	12,624	9,922	0.79	0.81	11,916	9,366	0.79	0.89
30	86	16	61	11,580	11,580	1.00	0.61	11,412	11,412	1.00	0.63	11,184	11,184	1.00	0.67	10,896	10,896	1.00	0.71	10,524	10,524	1.00	0.76	9,972	9,972	1.00	0.84
30	86	18	64	12,324	12,324	1.00	0.62	12,156	12,156	1.00	0.65	11,916	11,916	1.00	0.68	11,604	11,604	1.00	0.73	11,208	11,208	1.00	0.78	10,620	10,620	1.00	0.85
30	86	20	68	13,092	12,909	0.99	0.64	12,912	12,731	0.99	0.66	12,672	12,495	0.99	0.70	12,336	12,163	0.99	0.74	11,916	11,749	0.99	0.79	11,268	11,110	0.99	0.87
30	86	22	72	13,860	12,003	0.87	0.65	13,692	11,857	0.87	0.68	13,428	11,629	0.87	0.71	13,080	11,327	0.87	0.75	12,624	12,032	0.87	0.81	11,916	11,319	0.87	0.89
32	90	16	61	11,580	11,580	1.00	0.61	11,412	11,412	1.00	0.63	11,184	11,184	1.00	0.67	10,896	10,896	1.00	0.71	10,524	10,524	1.00	0.76	9,972	9,972	1.00	0.84
32	90	18	64	12,324	12,324	1.00	0.62	12,156	12,156	1.00	0.65	11,916	11,916	1.00	0.68	11,604	11,604	1.00	0.73	11,208	11,208	1.00	0.78	10,620	10,620	1.00	0.85
32	90	20	68	13,092	13,092	1.00	0.64	12,912	12,912	1.00	0.66	12,672	12,672	1.00	0.70	12,336	12,336	1.00	0.74	11,916	11,916	1.00	0.79	11,268	11,268	1.00	0.87
32	90	22	72	13,860	13,112	0.95	0.65	13,692	12,953	0.95	0.68	13,428	12,703	0.95	0.71	13,080	12,374	0.95	0.75	12,624	11,942	0.95	0.81	11,916	11,273	0.95	0.89

PLA-A18EA7/PUY-A18NKA7, PUZ-A18NKA7

CAPACITY (Btu/h): 18,000 INPUT (kW): 1.25 SHF: 0.85

Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Indoor intake air W.B.(°C)	Indoor intake air W.B.(°F)	Outdoor intake air °C/°F D.B.																							
				20/68				25/77				30/86				35/95				40/104				46/115			
				CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
19	66	16	61	17,370	12,958	0.75	1.04	17,118	12,770	0.75	1.08	16,776	12,515	0.75	1.14	16,344	12,193	0.75	1.22	15,786	11,776	0.75	1.31	14,958	11,159	0.75	1.44
19	66	18	64	18,486	11,572	0.63	1.07	18,234	11,414	0.63	1.11	17,874	11,189	0.63	1.17	17,406	10,896	0.63	1.24	16,812	10,524	0.63	1.33	15,930	9,972	0.63	1.46
20	68	16	61	17,370	13,653	0.79	1.04	17,118	13,455	0.79	1.08	16,776	13,186	0.79	1.14	16,344	12,846	0.79	1.22	15,786	12,408	0.79	1.31	14,958	11,757	0.79	1.44
20	68	18	64	18,486	12,312	0.67	1.07	18,234	12,144	0.67	1.11	17,874	11,904	0.67	1.17	17,406	11,592	0.67	1.24	16,812	11,197	0.67	1.33	15,930	10,609	0.67	1.46
20	68	20	68	19,638	10,722	0.55	1.09	19,368	10,575	0.55	1.14	19,008	10,378	0.55	1.19	18,504	10,103	0.55	1.27	17,874	9,759	0.55	1.36	16,902	9,228	0.55	1.49
22	72	16	61	17,370	15,042	0.87	1.04	17,118	14,824	0.87	1.08	16,776	14,528	0.87	1.14	16,344	14,154	0.87	1.22	15,786	13,671	0.87	1.31	14,958	12,954	0.87	1.44
22	72	18	64	18,486	13,791	0.75	1.07	18,234	13,630	0.75	1.11	17,874	13,334	0.75	1.17	17,406	12,985	0.75	1.24	16,812	12,542	0.75	1.33	15,930	11,884	0.75	1.46
22	72	20	68	19,638	12,293	0.63	1.09	19,368	12,124	0.63	1.14	19,008	11,899	0.63	1.19	18,504	11,584	0.63	1.27	17,874	11,189	0.63	1.36	16,902	10,581	0.63	1.49
24	75	16	61	17,370	16,432	0.95	1.04	17,118	16,194	0.95	1.08	16,776	15,870	0.95	1.14	16,344	15,461	0.95	1.22	15,786	14,934	0.95	1.31	14,958	14,150	0.95	1.44
24	7																										

PLA-A24EA7/PUY-A24NHA7, PUZ-A24NHA7

CAPACITY (Btu/h): 24,000 INPUT (kW): 1.67 SHF: 0.86

Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Indoor intake air W.B.(°C)	Indoor intake air W.B.(°F)	Outdoor intake air °C/°F D.B.																							
				20/68				25/77				30/86				35/95				40/104				46/115			
				CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
19	66	16	61	23,160	17,509	0.76	1.39	22,824	17,255	0.76	1.45	22,368	16,910	0.76	1.53	21,792	16,475	0.76	1.63	21,048	15,912	0.76	1.75	19,944	15,078	0.76	1.92
19	66	18	64	24,648	18,435	0.80	1.42	24,312	18,168	0.80	1.45	23,832	17,805	0.80	1.53	23,208	17,346	0.80	1.63	22,416	16,754	0.80	1.78	21,240	15,359	0.80	1.95
20	68	16	61	23,160	17,509	0.76	1.39	22,824	17,255	0.76	1.45	22,368	16,910	0.76	1.53	21,792	16,475	0.76	1.63	21,048	15,912	0.76	1.75	19,944	15,078	0.76	1.92
20	68	18	64	24,648	18,435	0.80	1.42	24,312	18,168	0.80	1.45	23,832	17,805	0.80	1.53	23,208	17,346	0.80	1.63	22,416	16,754	0.80	1.78	21,240	15,359	0.80	1.95
20	68	20	68	26,184	19,371	0.84	1.46	25,824	18,104	0.84	1.52	25,344	17,441	0.84	1.59	24,672	16,665	0.84	1.69	23,832	15,912	0.84	1.81	22,536	16,333	0.84	1.99
22	72	16	61	23,160	17,509	0.76	1.39	22,824	17,255	0.76	1.45	22,368	16,910	0.76	1.53	21,792	16,475	0.76	1.63	21,048	15,912	0.76	1.75	19,944	15,078	0.76	1.92
22	72	18	64	24,648	18,435	0.80	1.42	24,312	18,168	0.80	1.45	23,832	17,805	0.80	1.53	23,208	17,346	0.80	1.63	22,416	16,754	0.80	1.78	21,240	15,359	0.80	1.95
22	72	20	68	26,184	19,371	0.84	1.46	25,824	18,104	0.84	1.52	25,344	17,441	0.84	1.59	24,672	16,665	0.84	1.69	23,832	15,912	0.84	1.81	22,536	16,333	0.84	1.99
24	75	16	61	23,160	17,509	0.76	1.39	22,824	17,255	0.76	1.45	22,368	16,910	0.76	1.53	21,792	16,475	0.76	1.63	21,048	15,912	0.76	1.75	19,944	15,078	0.76	1.92
24	75	18	64	24,648	18,435	0.80	1.42	24,312	18,168	0.80	1.45	23,832	17,805	0.80	1.53	23,208	17,346	0.80	1.63	22,416	16,754	0.80	1.78	21,240	15,359	0.80	1.95
24	75	20	68	26,184	19,371	0.84	1.46	25,824	18,104	0.84	1.52	25,344	17,441	0.84	1.59	24,672	16,665	0.84	1.69	23,832	15,912	0.84	1.81	22,536	16,333	0.84	1.99
26	79	16	61	23,160	17,509	0.76	1.39	22,824	17,255	0.76	1.45	22,368	16,910	0.76	1.53	21,792	16,475	0.76	1.63	21,048	15,912	0.76	1.75	19,944	15,078	0.76	1.92
26	79	18	64	24,648	18,435	0.80	1.42	24,312	18,168	0.80	1.45	23,832	17,805	0.80	1.53	23,208	17,346	0.80	1.63	22,416	16,754	0.80	1.78	21,240	15,359	0.80	1.95
26	79	20	68	26,184	19,371	0.84	1.46	25,824	18,104	0.84	1.52	25,344	17,441	0.84	1.59	24,672	16,665	0.84	1.69	23,832	15,912	0.84	1.81	22,536	16,333	0.84	1.99
27	81	16	61	23,160	17,509	0.76	1.39	22,824	17,255	0.76	1.45	22,368	16,910	0.76	1.53	21,792	16,475	0.76	1.63	21,048	15,912	0.76	1.75	19,944	15,078	0.76	1.92
27	81	18	64	24,648	18,435	0.80	1.42	24,312	18,168	0.80	1.45	23,832	17,805	0.80	1.53	23,208	17,346	0.80	1.63	22,416	16,754	0.80	1.78	21,240	15,359	0.80	1.95
27	81	20	68	26,184	19,371	0.84	1.46	25,824	18,104	0.84	1.52	25,344	17,441	0.84	1.59	24,672	16,665	0.84	1.69	23,832	15,912	0.84	1.81	22,536	16,333	0.84	1.99
27	81	22	72	27,720	20,556	0.88	1.49	27,384	20,288	0.88	1.55	26,856	20,020	0.88	1.62	26,160	19,591	0.88	1.73	25,248	19,087	0.88	1.85	23,832	18,017	0.88	2.03
28	82	16	61	23,160	17,509	0.76	1.39	22,824	17,255	0.76	1.45	22,368	16,910	0.76	1.53	21,792	16,475	0.76	1.63	21,048	15,912	0.76	1.75	19,944	15,078	0.76	1.92
28	82	18	64	24,648	18,435	0.80	1.42	24,312	18,168	0.80	1.45	23,832	17,805	0.80	1.53	23,208	17,346	0.80	1.63	22,416	16,754	0.80	1.78	21,240	15,359	0.80	1.95
28	82	20	68	26,184	19,371	0.84	1.46	25,824	18,104	0.84	1.52	25,344	17,441	0.84	1.59	24,672	16,665	0.84	1.69	23,832	15,912	0.84	1.81	22,536	16,333	0.84	1.99
28	82	22	72	27,720	20,556	0.88	1.49	27,384	20,288	0.88	1.55	26,856	20,020	0.88	1.62	26,160	19,591	0.88	1.73	25,248	19,087	0.88	1.85	23,832	18,017	0.88	2.03
30	86	16	61	23,160	17,509	0.76	1.39	22,824	17,255	0.76	1.45	22,368	16,910	0.76	1.53	21,792	16,475	0.76	1.63	21,048	15,912	0.76	1.75	19,944	15,078	0.76	1.92
30	86	18	64	24,648	18,435	0.80	1.42	24,312	18,168	0.80	1.45	23,832	17,805	0.80	1.53	23,208	17,346	0.80	1.63	22,416	16,754	0.80	1.78	21,240	15,359	0.80	1.95
30	86	20	68	26,184	19,371	0.84	1.46	25,824	18,104	0.84	1.52	25,344	17,441	0.84	1.59	24,672	16,665	0.84	1.69	23,832	15,912	0.84	1.81	22,536	16,333	0.84	1.99
30	86	22	72	27,720	20,556	0.88	1.49	27,384	20,288	0.88	1.55	26,856	20,020	0.88	1.62	26,160	19,591	0.88	1.73	25,248	19,087	0.88	1.85	23,832	18,017	0.88	2.03
32	90	16	61	23,160	17,509	0.76	1.39	22,824	17,255	0.76	1.45	22,368	16,910	0.76	1.53	21,792	16,475	0.76	1.63	21,048	15,912	0.76	1.75	19,944	15,078	0.76	1.92
32	90	18	64	24,648	18,435	0.80	1.42	24,312	18,168	0.80	1.45	23,832	17,805	0.80	1.53	23,208	17,346	0.80	1.63	22,416	16,754	0.80	1.78	21,240	15,359	0.80	1.95
32	90	20	68	26,184	19,371	0.84	1.46	25,824	18,104	0.84	1.52	25,344	17,441	0.84	1.59	24,672	16,665	0.84	1.69	23,832	15,912	0.84	1.81	22,536	16,333	0.84	1.99
32	90	22	72	27,720	20,556	0.88	1.49	27,384	20,288	0.88	1.55	26,856	20,020	0.88	1.62	26,160	19,591	0.88	1.73	25,248	19,087	0.88	1.85	23,832	18,017	0.88	2.03

PLA-A30EA7/PUY-A30NHA7, PUZ-A30NHA7

CAPACITY (Btu/h): 30,000 INPUT (kW): 2.54 SHF: 0.80

Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Indoor intake air W.B.(°C)	Indoor intake air W.B.(°F)	Outdoor intake air °C/°F D.B.																							
				20/68				25/77				30/86				35/95				40/104				46/115			
				CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
19	66	16	61	28,950	20,149	0.70	2.11	28,530	19,857	0.70	2.20	27,960	19,460	0.70	2.32	27,240	18,959	0.70	2.47	26,310	18,312	0.70	2.65	24,930	17,351	0.70	2.92
19	66	18	64	30,810	21,747	0.78	2.16	30,390	21,505	0.78	2.26	29,790	21,159	0.78	2.37	29,010	20,610	0.78	2.52	28,020	20,049	0.78	2.71	26,550	18,293	0.78	2.97
20	68	16	61	28,950	20,149	0.70	2.11	28,530	20,998	0.74	2.20	27,960	20,579	0.74	2.32	27,240	20,049	0.74	2.47	26,310	19,364	0.74	2.65	24,930	18,348	0.74	2.92
20	68	18	64	30,810	21,747	0.78	2.16	30,390	21,505	0.78	2.26	29,790	21,159	0.78	2.37	29,010	20,610	0.78	2.52	28,020	20,049	0.78	2.71	26,550	18,293	0.78	2.97
20	68	20	68	32,730	23,234	0.80	2.21	32,280	22,824	0.80	2.31	31,680	22,428	0.80	2.42	30,840	21,925	0.80	2.57	29,790	21,421	0.80	2.76	28,170	20,733	0.80	3.03
22	72	16	61	28,950	20,149	0.70	2.11	28,530	20,998	0.74	2.20	27,960	20,579	0.74	2.32	27,240	20,049	0.74	2.47	26,310	19,364	0.74	2.65	24,930	18,348	0.74	2.92
22	72	18	64	30,810	21,747	0.78	2.16	30,390	21,505	0.78	2.26	29,790	21,159	0.78	2.37	29,010	20,610	0.78	2.52	28,020	20,049	0.78	2.71	26,550	18,293	0.78	2.97
22	72	20	68	32,730	23,234	0.80	2.21	32,280	22,824	0.80	2.31	31,680	22,428	0.80	2.42	30,840	21,925	0.80	2.57	29,790	21,421	0.80	2.76	28,170	20,733	0.80	3.03
24	75	16	61	28,950	20,149	0.70	2.11	28,530	20,998	0.74	2.20	27,960	20,579	0.74	2.32	27,240	20,049	0.74	2.47	26,310	19,364	0.74	2.65	24,930	18,348	0.74	2.92
24	75	18	64	30,810	21,747	0.78	2.16	30,390	21,505	0.78	2.26	29,790	21,159	0.78	2.37	29,010	20,610	0.78	2.52	28,020	20,049	0.78	2.71	26,550	18,293	0.78	2.97
24	75	20	68	32,730	23,234	0.80	2.21	32,280	22,824	0.80	2.31	31,680	22,428	0.80	2.42	30,840	21,925	0.80	2.57	29,790	21,421	0.80	2.76	28,170	20,733	0.80	3.03
24	75	22	72	34,650	24,888	0.84	2.27	34,230	24,477	0.84</																	

PLA-A36EA7/PUY-A36NKA7, PUZ-A36NKA7

CAPACITY (Btu/h): 36,000 INPUT (kW): 2.78 SHF: 0.86

Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Indoor intake air W.B.(°C)	Indoor intake air W.B.(°F)	Outdoor intake air °C/°F D.B.																							
				20/68				25/77				30/86				35/95				40/104				46/115			
				CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
19	66	16	61	34,740	26,263	0.76	2.31	34,236	25,882	0.76	2.41	33,552	25,365	0.76	2.54	32,688	24,712	0.76	2.71	31,572	23,868	0.76	2.91	29,916	22,616	0.76	3.19
19	66	18	64	36,972	23,514	0.64	2.37	36,468	23,194	0.64	2.47	35,748	22,736	0.64	2.60	34,812	22,140	0.64	2.76	33,624	21,385	0.64	2.96	31,860	20,263	0.64	3.25
20	68	16	61	34,740	27,653	0.80	2.31	34,236	27,252	0.80	2.41	33,552	26,707	0.80	2.54	32,688	26,020	0.80	2.71	31,572	25,131	0.80	2.91	29,916	23,813	0.80	3.19
20	68	18	64	36,972	24,993	0.68	2.37	36,468	24,652	0.68	2.47	35,748	24,166	0.68	2.60	34,812	23,533	0.68	2.76	33,624	22,730	0.68	2.96	31,860	21,537	0.68	3.25
20	68	20	68	39,276	21,837	0.56	2.42	38,736	21,537	0.56	2.52	38,016	21,137	0.56	2.65	37,008	20,576	0.56	2.82	35,748	19,876	0.56	3.02	33,804	18,795	0.56	3.31
22	72	16	61	34,740	30,432	0.88	2.31	34,236	29,991	0.88	2.41	33,552	29,392	0.88	2.54	32,688	28,635	0.88	2.71	31,572	27,657	0.88	2.91	29,916	26,206	0.88	3.19
22	72	18	64	36,972	27,951	0.76	2.37	36,468	27,570	0.76	2.47	35,748	27,025	0.76	2.60	34,812	26,318	0.76	2.76	33,624	25,420	0.76	2.96	31,860	24,086	0.76	3.25
22	72	20	68	39,276	24,980	0.64	2.42	38,736	24,636	0.64	2.52	38,016	24,178	0.64	2.65	37,008	23,537	0.64	2.82	35,748	22,736	0.64	3.02	33,804	21,499	0.64	3.31
24	75	16	61	34,740	33,211	0.96	2.31	34,236	32,730	0.96	2.41	33,552	32,076	0.96	2.54	32,688	31,250	0.96	2.71	31,572	30,183	0.96	2.91	29,916	28,600	0.96	3.19
24	75	18	64	36,972	30,909	0.84	2.37	36,468	30,487	0.84	2.47	35,748	29,885	0.84	2.60	34,812	29,103	0.84	2.76	33,624	28,110	0.84	2.96	31,860	26,635	0.84	3.25
24	75	20	68	39,276	28,122	0.72	2.42	38,736	27,735	0.72	2.52	38,016	27,219	0.72	2.65	37,008	26,498	0.72	2.82	35,748	25,596	0.72	3.02	33,804	24,204	0.72	3.31
24	75	22	72	41,580	24,782	0.60	2.48	41,076	24,481	0.60	2.58	40,284	24,009	0.60	2.70	39,240	23,387	0.60	2.87	37,872	22,572	0.60	3.07	35,748	21,306	0.60	3.38
26	79	16	61	34,740	34,740	1.00	2.31	34,236	34,236	1.00	2.41	33,552	33,552	1.00	2.54	32,688	32,688	1.00	2.71	31,572	31,572	1.00	2.91	29,916	29,916	1.00	3.19
26	79	18	64	36,972	33,866	0.92	2.37	36,468	33,405	0.92	2.47	35,748	32,745	0.92	2.60	34,812	31,888	0.92	2.76	33,624	30,800	0.92	2.96	31,860	29,184	0.92	3.25
26	79	20	68	39,276	31,264	0.80	2.42	38,736	30,834	0.80	2.52	38,016	30,261	0.80	2.65	37,008	29,458	0.80	2.82	35,748	28,455	0.80	3.02	33,804	26,908	0.80	3.31
26	79	22	72	41,580	28,108	0.68	2.48	41,076	27,767	0.68	2.58	40,284	27,232	0.68	2.70	39,240	26,526	0.68	2.87	37,872	25,601	0.68	3.07	35,748	24,166	0.68	3.38
27	81	16	61	34,740	34,740	1.00	2.31	34,236	34,236	1.00	2.41	33,552	33,552	1.00	2.54	32,688	32,688	1.00	2.71	31,572	31,572	1.00	2.91	29,916	29,916	1.00	3.19
27	81	18	64	36,972	35,345	0.96	2.37	36,468	34,863	0.96	2.47	35,748	34,175	0.96	2.60	34,812	33,280	0.96	2.76	33,624	32,145	0.96	2.96	31,860	30,458	0.96	3.25
27	81	20	68	39,276	32,835	0.84	2.42	38,736	32,383	0.84	2.52	38,016	31,781	0.84	2.65	37,008	30,939	0.84	2.82	35,748	29,885	0.84	3.02	33,804	28,260	0.84	3.31
27	81	22	72	41,580	29,771	0.72	2.48	41,076	29,410	0.72	2.58	40,284	28,843	0.72	2.70	39,240	28,096	0.72	2.87	37,872	27,116	0.72	3.07	35,748	25,596	0.72	3.38
28	82	16	61	34,740	34,740	1.00	2.31	34,236	34,236	1.00	2.41	33,552	33,552	1.00	2.54	32,688	32,688	1.00	2.71	31,572	31,572	1.00	2.91	29,916	29,916	1.00	3.19
28	82	18	64	36,972	36,824	1.00	2.37	36,468	36,322	1.00	2.47	35,748	35,605	1.00	2.60	34,812	34,673	1.00	2.76	33,624	33,490	1.00	2.96	31,860	31,733	1.00	3.25
28	82	20	68	39,276	34,406	0.88	2.42	38,736	33,933	0.88	2.52	38,016	33,302	0.88	2.65	37,008	32,419	0.88	2.82	35,748	31,315	0.88	3.02	33,804	29,612	0.88	3.31
28	82	22	72	41,580	31,434	0.76	2.48	41,076	31,053	0.76	2.58	40,284	30,455	0.76	2.70	39,240	29,665	0.76	2.87	37,872	28,631	0.76	3.07	35,748	27,025	0.76	3.38
30	86	16	61	34,740	34,740	1.00	2.31	34,236	34,236	1.00	2.41	33,552	33,552	1.00	2.54	32,688	32,688	1.00	2.71	31,572	31,572	1.00	2.91	29,916	29,916	1.00	3.19
30	86	18	64	36,972	36,972	1.00	2.37	36,468	36,468	1.00	2.47	35,748	35,748	1.00	2.60	34,812	34,812	1.00	2.76	33,624	33,624	1.00	2.96	31,860	31,860	1.00	3.25
30	86	20	68	39,276	37,548	0.96	2.42	38,736	37,032	0.96	2.52	38,016	36,343	0.96	2.65	37,008	35,380	0.96	2.82	35,748	34,175	0.96	3.02	33,804	32,317	0.96	3.31
30	86	22	72	41,580	34,761	0.84	2.48	41,076	34,340	0.84	2.58	40,284	33,677	0.84	2.70	39,240	32,805	0.84	2.87	37,872	31,661	0.84	3.07	35,748	29,885	0.84	3.38
32	90	16	61	34,740	34,740	1.00	2.31	34,236	34,236	1.00	2.41	33,552	33,552	1.00	2.54	32,688	32,688	1.00	2.71	31,572	31,572	1.00	2.91	29,916	29,916	1.00	3.19
32	90	18	64	36,972	36,972	1.00	2.37	36,468	36,468	1.00	2.47	35,748	35,748	1.00	2.60	34,812	34,812	1.00	2.76	33,624	33,624	1.00	2.96	31,860	31,860	1.00	3.25
32	90	20	68	39,276	39,276	1.00	2.42	38,736	38,736	1.00	2.52	38,016	38,016	1.00	2.65	37,008	37,008	1.00	2.82	35,748	35,748	1.00	3.02	33,804	33,804	1.00	3.31
32	90	22	72	41,580	38,087	0.92	2.48	41,076	37,626	0.92	2.58	40,284	36,900	0.92	2.70	39,240	35,944	0.92	2.87	37,872	34,691	0.92	3.07	35,748	32,745	0.92	3.38

PLA-A42EA7/PUY-A42NKA7, PUZ-A42NKA7

CAPACITY (Btu/h): 42,000 INPUT(kW): 3.59 SHF: 0.79

Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Indoor intake air W.B.(°C)	Indoor intake air W.B.(°F)	Outdoor intake air °C/°F D.B.																							
				20/68				25/77				30/86				35/95				40/104				46/115			
				CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
19	66	16	61	40,530	27,804	0.69	2.98	39,942	27,400	0.69	3.11	39,144	26,853	0.69	3.28	38,136	26,161	0.69	3.50	36,834	25,268	0.69	3.75	34,902	23,943	0.69	4.12
19	66	18	64	43,134	24,414	0.57	3.06	42,546	24,081	0.57	3.19	41,706	23,606	0.57	3.36	40,614	22,988	0.57	3.57	39,228	22,203	0.57	3.82	37,170	21,038	0.57	4.20
20	68	16	61	40,530	29,425	0.73	2.98	39,942	28,998	0.73	3.11	39,144	28,419	0.73	3.28	38,136	27,687	0.73	3.50	36,834	26,741	0.73	3.75	34,902	25,339	0.73	4.12
20	68	18	64	43,134	26,129	0.61	3.06	42,546	25,783	0.61	3.19	41,706	25,274	0.61	3.36	40,614	24,612	0.61	3.57	39,228	23,772	0.61	3.82	37,170	22,525	0.61	4.20
20	68	20	68	45,822	22,269	0.49	3.13	45,192	21,963	0.49	3.26	44,352	21,555	0.49	3.42	43,176	20,984	0.49	3.64	41,706	20,269	0.49	3.90	39,438	19,167	0.49	4.28
22	72	16	61	40,530	32,667	0.81	2.98	39,942	32,193	0.81	3.11	39,144	31,550	0.81	3.28	38,136	30,738	0.81	3.50	36,834	29,688	0.81	3.75	34,902	28,131	0.81	4.12
22	72	18	64	43,134	29,590	0.69	3.06	42,546	29,187	0.69	3.19	41,706	28,610	0.69	3.36	40,614	27,861	0.69	3.57	39,228	26,910	0.69	3.82	37,170	25,499	0.69	4.20
22	72	20	68	45,822	25,935	0.57	3.13	45,192	25,579	0.57	3.26	44,352	25,103	0.57	3.42	43,176	24,438	0.57	3.64	41,706	23,606	0.57	3.90	39,438	22,322	0.57	4.28
24	75	16	61	40,530	35,910	0.89	2.98	39,942	35,389	0.89	3.11	39,144	34,682	0.89	3.28	38,136	33,788	0.89	3.50	36,834	32,635	0.89	3.75	34,902	30,923	0.89	4.12
24	75	18	64	43,134	33,041	0.77	3.06	42,546	32,590	0.77</																	

PKA-A12HA7/PUY-A12NKA7, PUZ-A12NKA7

CAPACITY (Btu/h): 12,000 INPUT (kW): 1.00 SHF: 0.81

Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Indoor intake air W.B.(°C)	Indoor intake air W.B.(°F)	Outdoor intake air °C/°F D.B.																							
				20/68				25/77				30/86				35/95				40/104				46/115			
				CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
19	66	16	61	11,580	8,175	0.71	0.83	11,412	8,057	0.71	0.87	11,184	7,896	0.71	0.92	10,896	7,693	0.71	0.97	10,524	7,430	0.71	1.05	9,972	7,040	0.71	1.15
19	66	18	64	12,324	7,222	0.59	0.85	12,156	7,123	0.59	0.89	11,916	6,983	0.59	0.94	11,604	6,800	0.59	0.99	11,208	6,568	0.59	1.07	10,620	6,223	0.59	1.17
20	68	16	61	11,580	8,639	0.75	0.83	11,412	8,513	0.75	0.87	11,184	8,343	0.75	0.92	10,896	8,128	0.75	0.97	10,524	7,851	0.75	1.05	9,972	7,439	0.75	1.15
20	68	18	64	12,324	7,715	0.63	0.85	12,156	7,610	0.63	0.89	11,916	7,459	0.63	0.94	11,604	7,264	0.63	0.99	11,208	7,016	0.63	1.07	10,620	6,648	0.63	1.17
20	68	20	68	13,092	6,625	0.51	0.87	12,912	6,533	0.51	0.91	12,672	6,412	0.51	0.95	12,336	6,242	0.51	1.01	11,916	6,029	0.51	1.09	11,268	5,702	0.51	1.19
22	72	16	61	11,580	9,565	0.83	0.83	11,412	9,426	0.83	0.87	11,184	9,238	0.83	0.92	10,896	9,000	0.83	0.97	10,524	8,693	0.83	1.05	9,972	8,237	0.83	1.15
22	72	18	64	12,324	8,701	0.71	0.85	12,156	8,582	0.71	0.89	11,916	8,413	0.71	0.94	11,604	8,192	0.71	0.99	11,208	7,913	0.71	1.07	10,620	7,498	0.71	1.17
22	72	20	68	13,092	7,672	0.59	0.87	12,912	7,566	0.59	0.91	12,672	7,426	0.59	0.95	12,336	7,229	0.59	1.01	11,916	6,983	0.59	1.09	11,268	6,603	0.59	1.19
24	75	16	61	11,580	10,491	0.91	0.83	11,412	10,339	0.91	0.87	11,184	10,133	0.91	0.92	10,896	9,872	0.91	0.97	10,524	9,535	0.91	1.05	9,972	9,035	0.91	1.15
24	75	18	64	12,324	9,687	0.79	0.85	12,156	9,555	0.79	0.89	11,916	9,366	0.79	0.94	11,604	9,121	0.79	0.99	11,208	8,809	0.79	1.07	10,620	8,347	0.79	1.17
24	75	20	68	13,092	8,719	0.67	0.87	12,912	8,599	0.67	0.91	12,672	8,440	0.67	0.95	12,336	8,216	0.67	1.01	11,916	7,936	0.67	1.09	11,268	7,504	0.67	1.19
24	75	22	72	13,860	7,568	0.55	0.89	13,692	7,476	0.55	0.93	13,428	7,332	0.55	0.97	13,080	7,142	0.55	1.03	12,624	6,893	0.55	1.11	11,916	6,506	0.55	1.22
26	79	16	61	11,580	11,418	0.99	0.83	11,412	11,252	0.99	0.87	11,184	11,027	0.99	0.92	10,896	10,743	0.99	0.97	10,524	10,377	0.99	1.05	9,972	9,832	0.99	1.15
26	79	18	64	12,324	10,673	0.87	0.85	12,156	10,527	0.87	0.89	11,916	10,319	0.87	0.94	11,604	10,049	0.87	0.99	11,208	9,706	0.87	1.07	10,620	9,197	0.87	1.17
26	79	20	68	13,092	9,767	0.75	0.87	12,912	9,632	0.75	0.91	12,672	9,453	0.75	0.95	12,336	9,203	0.75	1.01	11,916	8,889	0.75	1.09	11,268	8,406	0.75	1.19
26	79	22	72	13,860	8,676	0.63	0.89	13,692	8,571	0.63	0.93	13,428	8,406	0.63	0.97	13,080	8,188	0.63	1.03	12,624	7,903	0.63	1.11	11,916	7,459	0.63	1.22
27	81	16	61	11,580	11,580	1.00	0.83	11,412	11,412	1.00	0.87	11,184	11,184	1.00	0.92	10,896	10,896	1.00	0.97	10,524	10,524	1.00	1.05	9,972	9,972	1.00	1.15
27	81	18	64	12,324	11,166	0.91	0.85	12,156	11,013	0.91	0.89	11,916	11,096	0.91	0.94	11,604	10,513	0.91	0.99	11,208	10,154	0.91	1.07	10,620	9,622	0.91	1.17
27	81	20	68	13,092	10,290	0.79	0.87	12,912	10,149	0.79	0.91	12,672	9,960	0.79	0.95	12,336	9,696	0.79	1.01	11,916	9,366	0.79	1.09	11,268	8,857	0.79	1.19
27	81	22	72	13,860	9,231	0.67	0.89	13,692	9,119	0.67	0.93	13,428	8,943	0.67	0.97	13,080	8,711	0.67	1.03	12,624	8,408	0.67	1.11	11,916	7,936	0.67	1.22
28	82	16	61	11,580	11,580	1.00	0.83	11,412	11,412	1.00	0.87	11,184	11,184	1.00	0.92	10,896	10,896	1.00	0.97	10,524	10,524	1.00	1.05	9,972	9,972	1.00	1.15
28	82	18	64	12,324	11,659	0.95	0.85	12,156	11,500	0.95	0.89	11,916	11,273	0.95	0.94	11,604	10,977	0.95	0.99	11,208	10,603	0.95	1.07	10,620	10,047	0.95	1.17
28	82	20	68	13,092	10,814	0.83	0.87	12,912	10,665	0.83	0.91	12,672	10,467	0.83	0.95	12,336	10,190	0.83	1.01	11,916	9,843	0.83	1.09	11,268	9,307	0.83	1.19
28	82	22	72	13,860	9,785	0.71	0.89	13,692	9,667	0.71	0.93	13,428	9,480	0.71	0.97	13,080	9,234	0.71	1.03	12,624	8,913	0.71	1.11	11,916	8,413	0.71	1.22
30	86	16	61	11,580	11,580	1.00	0.83	11,412	11,412	1.00	0.87	11,184	11,184	1.00	0.92	10,896	10,896	1.00	0.97	10,524	10,524	1.00	1.05	9,972	9,972	1.00	1.15
30	86	18	64	12,324	12,324	1.00	0.85	12,156	12,156	1.00	0.89	11,916	11,916	1.00	0.94	11,604	11,604	1.00	0.99	11,208	11,208	1.00	1.07	10,620	10,620	1.00	1.17
30	86	20	68	13,092	11,861	0.91	0.87	12,912	11,698	0.91	0.91	12,672	11,481	0.91	0.95	12,336	11,176	0.91	1.01	11,916	11,096	0.91	1.09	11,268	10,209	0.91	1.19
30	86	22	72	13,860	10,894	0.79	0.89	13,692	10,762	0.79	0.93	13,428	10,554	0.79	0.97	13,080	10,281	0.79	1.03	12,624	9,922	0.79	1.11	11,916	9,366	0.79	1.22
32	90	16	61	11,580	11,580	1.00	0.83	11,412	11,412	1.00	0.87	11,184	11,184	1.00	0.92	10,896	10,896	1.00	0.97	10,524	10,524	1.00	1.05	9,972	9,972	1.00	1.15
32	90	18	64	12,324	12,324	1.00	0.85	12,156	12,156	1.00	0.89	11,916	11,916	1.00	0.94	11,604	11,604	1.00	0.99	11,208	11,208	1.00	1.07	10,620	10,620	1.00	1.17
32	90	20	68	13,092	12,909	0.99	0.87	12,912	12,731	0.99	0.91	12,672	12,495	0.99	0.95	12,336	12,163	0.99	1.01	11,916	11,749	0.99	1.09	11,268	11,110	0.99	1.19
32	90	22	72	13,860	12,003	0.87	0.89	13,692	11,857	0.87	0.93	13,428	11,629	0.87	0.97	13,080	11,327	0.87	1.03	12,624	10,932	0.87	1.11	11,916	10,319	0.87	1.22

PKA-A18HA7/PUY-A18NKA7, PUZ-A18NKA7

CAPACITY (Btu/h): 18,000 INPUT (kW): 1.82 SHF: 0.68

Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Indoor intake air W.B.(°C)	Indoor intake air W.B.(°F)	Outdoor intake air °C/°F D.B.																							
				20/68				25/77				30/86				35/95				40/104				46/115			
				CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
19	66	16	61	17,370	10,005	0.58	1.51	17,118	9,860	0.58	1.58	16,776	9,663	0.58	1.67	16,344	9,414	0.58	1.77	15,786	9,093	0.58	1.90	14,958	8,616	0.58	2.09
19	66	18	64	18,486	8,430	0.46	1.55	18,234	8,315	0.46	1.62	17,874	8,151	0.46	1.70	17,406	7,937	0.46	1.81	16,812	7,666	0.46	1.94	15,930	7,264	0.46	2.13
20	68	16	61	17,370	10,700	0.62	1.51	17,118	10,545	0.62	1.58	16,776	10,334	0.62	1.67	16,344	10,068	0.62	1.77	15,786	9,724	0.62	1.90	14,958	9,214	0.62	2.09
20	68	18	64	18,486	9,169	0.50	1.55	18,234	9,044	0.50	1.62	17,874	8,866	0.50	1.70	17,406	8,633	0.50	1.81	16,812	8,339	0.50	1.94	15,930	7,901	0.50	2.13
20	68	20	68	19,638	7,384	0.38	1.59	19,368	7,282	0.38	1.65	19,008	7,147	0.38	1.74	18,504	6,958	0.38	1.84	17,874	6,721	0.38	1.98	16,902	6,355	0.38	2.17
22	72	16	61	17,370	12,090	0.70	1.51	17,118	11,914	0.70	1.58	16,776	11,676	0.70	1.67	16,344	11,375	0.70	1.77	15,786	10,987	0.70	1.90	14,958	10,411	0.70	2.09
22	72	18	64	18,486	10,648	0.58	1.55	18,234	10,503	0.58	1.62	17,874	10,295	0.58	1.70	17,406	10,026	0.58	1.81	16,812	9,684	0.58	1.94	15,930	9,176	0.58	2.13
22	72	20	68	19,638	9,955	0.46	1.59	19,368	9,832	0.46	1.65	19,008	9,668	0.46	1.74	18,504	9,438	0.46	1.84	17,874	9,151	0.46	1.98	16,902	7,707	0.46	2.17
24	75	16	61	17,370	13,479	0.78	1.51	17,118	13,284	0.78	1.58	16,776	13,018	0.78	1.67	16,344	12,683	0.78	1.77	15,786	12,250	0.78	1.90	14,958	11,607	0.78	2.09
24	75	18	64	18,486	12,127	0.66	1.55	18,234	11,962	0.66	1.62	17,874	11,725	0.66	1.70	17,406	11,418	0.66	1.81	16,812	11,029</						

PKA-A24KA7/PUY-A24NHA7, PUZ-A24NHA7

CAPACITY (Btu/h): 24,000 INPUT (kW): 1.96 SHF: 0.77

Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Indoor intake air W.B.(°C)	Indoor intake air W.B.(°F)	Outdoor intake air °C/°F D.B.																							
				20/68				25/77				30/86				35/95				40/104				46/115			
				CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
19	66	16	61	23,160	15,425	0.67	1.63	22,824	15,201	0.67	1.70	22,368	14,897	0.67	1.79	21,792	14,513	0.67	1.91	21,048	14,018	0.67	2.05	19,944	13,283	0.67	2.25
19	66	18	64	24,648	13,458	0.55	1.67	24,312	13,274	0.55	1.74	23,832	13,012	0.55	1.83	23,208	12,672	0.55	1.95	22,416	12,239	0.55	2.09	21,240	11,597	0.55	2.29
20	68	16	61	23,160	16,351	0.71	1.63	22,824	16,114	0.71	1.70	22,368	15,792	0.71	1.79	21,792	15,385	0.71	1.91	21,048	14,860	0.71	2.05	19,944	14,080	0.71	2.25
20	68	18	64	24,648	14,444	0.59	1.67	24,312	14,247	0.59	1.74	23,832	13,966	0.59	1.83	23,208	13,600	0.59	1.95	22,416	13,136	0.59	2.09	21,240	12,447	0.59	2.29
20	68	20	68	26,184	12,202	0.47	1.71	25,824	12,034	0.47	1.78	25,344	11,810	0.47	1.87	24,672	11,497	0.47	1.99	23,832	11,106	0.47	2.13	22,536	10,502	0.47	2.34
22	72	16	61	23,160	18,204	0.79	1.63	22,824	17,940	0.79	1.70	22,368	17,581	0.79	1.79	21,792	17,129	0.79	1.91	21,048	16,544	0.79	2.05	19,944	15,676	0.79	2.25
22	72	18	64	24,648	16,416	0.67	1.67	24,312	16,192	0.67	1.74	23,832	15,872	0.67	1.83	23,208	15,457	0.67	1.95	22,416	14,929	0.67	2.09	21,240	14,146	0.67	2.29
22	72	20	68	26,184	14,296	0.55	1.71	25,824	14,100	0.55	1.78	25,344	13,838	0.55	1.87	24,672	13,471	0.55	1.99	23,832	13,012	0.55	2.13	22,536	12,305	0.55	2.34
24	75	16	61	23,160	20,057	0.87	1.63	22,824	19,766	0.87	1.70	22,368	19,371	0.87	1.79	21,792	18,872	0.87	1.91	21,048	18,288	0.87	2.05	19,944	17,272	0.87	2.25
24	75	18	64	24,648	18,387	0.75	1.67	24,312	18,137	0.75	1.74	23,832	17,779	0.75	1.83	23,208	17,313	0.75	1.95	22,416	16,722	0.75	2.09	21,240	15,845	0.75	2.29
24	75	20	68	26,184	16,391	0.63	1.71	25,824	16,166	0.63	1.78	25,344	15,865	0.63	1.87	24,672	15,445	0.63	1.99	23,832	14,979	0.63	2.13	22,536	14,108	0.63	2.34
24	75	22	72	27,720	14,026	0.51	1.75	27,384	13,856	0.51	1.82	26,856	13,589	0.51	1.91	26,160	13,237	0.51	2.02	25,248	12,715	0.51	2.17	23,832	12,059	0.51	2.38
26	79	16	61	23,160	21,909	0.95	1.63	22,824	21,592	0.95	1.70	22,368	21,160	0.95	1.79	21,792	20,615	0.95	1.91	21,048	19,911	0.95	2.05	19,944	18,867	0.95	2.25
26	79	18	64	24,648	20,359	0.83	1.67	24,312	20,082	0.83	1.74	23,832	19,685	0.83	1.83	23,208	19,170	0.83	1.95	22,416	18,516	0.83	2.09	21,240	17,544	0.83	2.29
26	79	20	68	26,184	18,486	0.71	1.71	25,824	18,232	0.71	1.78	25,344	17,893	0.71	1.87	24,672	17,418	0.71	1.99	23,832	16,825	0.71	2.13	22,536	15,910	0.71	2.34
26	79	22	72	27,720	16,244	0.59	1.75	27,384	16,047	0.59	1.82	26,856	15,738	0.59	1.91	26,160	15,330	0.59	2.02	25,248	14,795	0.59	2.17	23,832	13,966	0.59	2.38
27	81	16	61	23,160	22,836	0.99	1.63	22,824	22,504	0.99	1.70	22,368	22,055	0.99	1.79	21,792	21,487	0.99	1.91	21,048	20,753	0.99	2.05	19,944	19,665	0.99	2.25
27	81	18	64	24,648	21,345	0.87	1.67	24,312	21,054	0.87	1.74	23,832	20,639	0.87	1.83	23,208	20,098	0.87	1.95	22,416	19,412	0.87	2.09	21,240	18,394	0.87	2.29
27	81	20	68	26,184	19,533	0.75	1.71	25,824	19,265	0.75	1.78	25,344	18,907	0.75	1.87	24,672	18,405	0.75	1.99	23,832	17,779	0.75	2.13	22,536	16,812	0.75	2.34
27	81	22	72	27,720	17,353	0.63	1.75	27,384	17,142	0.63	1.82	26,856	16,812	0.63	1.91	26,160	16,376	0.63	2.02	25,248	15,805	0.63	2.17	23,832	14,919	0.63	2.38
28	82	16	61	23,160	23,160	1.00	1.63	22,824	22,824	1.00	1.70	22,368	22,368	1.00	1.79	21,792	21,792	1.00	1.91	21,048	21,048	1.00	2.05	19,944	19,944	1.00	2.25
28	82	18	64	24,648	22,331	0.91	1.67	24,312	22,027	0.91	1.74	23,832	21,592	0.91	1.83	23,208	21,026	0.91	1.95	22,416	20,309	0.91	2.09	21,240	19,243	0.91	2.29
28	82	20	68	26,184	20,581	0.79	1.71	25,824	20,298	0.79	1.78	25,344	19,920	0.79	1.87	24,672	19,392	0.79	1.99	23,832	18,732	0.79	2.13	22,536	17,713	0.79	2.34
28	82	22	72	27,720	18,462	0.67	1.75	27,384	18,238	0.67	1.82	26,856	17,886	0.67	1.91	26,160	17,423	0.67	2.02	25,248	16,815	0.67	2.17	23,832	15,872	0.67	2.38
30	86	16	61	23,160	23,160	1.00	1.63	22,824	22,824	1.00	1.70	22,368	22,368	1.00	1.79	21,792	21,792	1.00	1.91	21,048	21,048	1.00	2.05	19,944	19,944	1.00	2.25
30	86	18	64	24,648	22,303	0.99	1.67	24,312	22,972	0.99	1.74	23,832	22,498	0.99	1.83	23,208	22,883	0.99	1.95	22,416	22,102	0.99	2.09	21,240	20,943	0.99	2.29
30	86	20	68	26,184	22,675	0.87	1.71	25,824	22,364	0.87	1.78	25,344	21,948	0.87	1.87	24,672	21,366	0.87	1.99	23,832	20,639	0.87	2.13	22,536	19,516	0.87	2.34
30	86	22	72	27,720	20,679	0.75	1.75	27,384	20,428	0.75	1.82	26,856	20,035	0.75	1.91	26,160	19,515	0.75	2.02	25,248	18,835	0.75	2.17	23,832	17,779	0.75	2.38
32	90	16	61	23,160	23,160	1.00	1.63	22,824	22,824	1.00	1.70	22,368	22,368	1.00	1.79	21,792	21,792	1.00	1.91	21,048	21,048	1.00	2.05	19,944	19,944	1.00	2.25
32	90	18	64	24,648	22,648	1.00	1.67	24,312	24,312	1.00	1.74	23,832	23,832	1.00	1.83	23,208	23,208	1.00	1.95	22,416	22,416	1.00	2.09	21,240	21,240	1.00	2.29
32	90	20	68	26,184	24,770	0.95	1.71	25,824	24,430	0.95	1.78	25,344	23,975	0.95	1.87	24,672	23,340	0.95	1.99	23,832	22,545	0.95	2.13	22,536	21,319	0.95	2.34
32	90	22	72	27,720	22,897	0.83	1.75	27,384	22,619	0.83	1.82	26,856	22,183	0.83	1.91	26,160	21,608	0.83	2.02	25,248	20,855	0.83	2.17	23,832	19,685	0.83	2.38

PKA-A30KA7/PUY-A30NHA7, PUZ-A30NHA7

CAPACITY (Btu/h): 30,000 INPUT (kW): 3.12 SHF: 0.70

Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Indoor intake air W.B.(°C)	Indoor intake air W.B.(°F)	Outdoor intake air °C/°F D.B.																							
				20/68				25/77				30/86				35/95				40/104				46/115			
				CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
19	66	16	61	28,950	17,254	0.60	2.61	28,530	17,004	0.60	2.73	27,960	16,664	0.60	2.88	27,240	16,235	0.60	3.07	26,310	15,681	0.60	3.29	24,930	14,858	0.60	3.62
19	66	18	64	30,810	14,666	0.48	2.68	30,390	14,466	0.48	2.80	29,790	14,180	0.48	2.95	29,010	13,809	0.48	3.13	28,020	13,338	0.48	3.35	26,550	12,638	0.48	3.69
20	68	16	61	28,950	18,412	0.64	2.61	28,530	18,145	0.64	2.73	27,960	17,783	0.64	2.88	27,240	17,325	0.64	3.07	26,310	16,733	0.64	3.29	24,930	15,855	0.64	3.62
20	68	18	64	30,810	15,898	0.52	2.68	30,390	15,681	0.52	2.80	29,790	15,372	0.52	2.95	29,010	14,969	0.52	3.13	28,020	14,458	0.52	3.35	26,550	13,700	0.52	3.69
20	68	20	68	32,730	12,961	0.40	2.75	32,280	12,783	0.40	2.86	31,680	12,545	0.40	3.01	30,840	12,213	0.40	3.19	29,790	11,797	0.40	3.42	28,170	11,155	0.40	3.75
22	72	16	61	28,950	20,228	0.72	2.61	28,530	20,427	0.72	2.73	27,960	20,019	0.72	2.88	27,240	19,504	0.72	3.07	26,310	18,838	0.72	3.29	24,930	17,850	0.72	3.62
22	72	18	64	30,810	18,363	0.60	2.68	30,390	18,112	0.60	2.80	29,790	17,755	0.60	2.95	29,010	17,290	0.60	3.13	28,020	16,700	0.60	3.35	26,550	15,824	0.60	3.69
22	72	20	68	32,730	15,579	0.48	2.75	32,280	15,365	0.48	2.86	31,680	15,080	0.48	3.01	30,840	14,680	0.48	3.19	29,790	14,180	0.48	3.42	28,170	13,409	0.48	3.75
24	75	16	61	28,950	23,044	0.80	2.61	28,530	22,710	0.80	2.73	27,960	22,256	0.80	2.88	27,240	21,683	0.80	3.07	26,310	20,943	0.80	3.29	24,930	19,844	0.80	3.62
24	75	18	64	30,810	20,828	0.68</																					

PKA-A36KA7/PUY-A36NKA7, PUZ-A36NKA7

CAPACITY (Btu/h): 36,000 INPUT (kW): 3.33 SHF: 0.70

Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Indoor intake air W.B.(°C)	Indoor intake air W.B.(°F)	Outdoor intake air °C/°F D.B.																							
				20/68				25/77				30/86				35/95				40/104				46/115			
				CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
19	66	16	61	34,740	20,705	0.60	2.76	34,236	20,405	0.60	2.89	33,552	19,997	0.60	3.05	32,688	19,482	0.60	3.24	31,572	18,817	0.60	3.48	29,916	17,830	0.60	3.83
19	66	18	64	36,972	17,599	0.48	2.84	36,468	17,359	0.48	2.96	35,748	17,016	0.48	3.11	34,812	16,571	0.48	3.31	33,624	16,005	0.48	3.55	31,860	15,165	0.48	3.90
20	68	16	61	34,740	22,095	0.64	2.76	34,236	21,774	0.64	2.89	33,552	21,339	0.64	3.05	32,688	20,790	0.64	3.24	31,572	20,080	0.64	3.48	29,916	19,027	0.64	3.83
20	68	18	64	36,972	19,078	0.52	2.84	36,468	18,817	0.52	2.96	35,748	18,446	0.52	3.11	34,812	17,963	0.52	3.31	33,624	17,350	0.52	3.55	31,860	16,440	0.52	3.90
20	68	20	68	39,276	15,553	0.40	2.90	38,736	15,339	0.40	3.02	38,016	15,054	0.40	3.18	37,008	14,655	0.40	3.37	35,748	14,156	0.40	3.62	33,804	13,386	0.40	3.97
22	72	16	61	34,740	24,874	0.72	2.76	34,236	24,513	0.72	2.89	33,552	24,023	0.72	3.05	32,688	23,405	0.72	3.24	31,572	22,606	0.72	3.48	29,916	21,420	0.72	3.83
22	72	18	64	36,972	22,035	0.60	2.84	36,468	21,735	0.60	2.96	35,748	21,306	0.60	3.11	34,812	20,748	0.60	3.31	33,624	20,040	0.60	3.55	31,860	18,989	0.60	3.90
22	72	20	68	39,276	18,695	0.48	2.90	38,736	18,438	0.48	3.02	38,016	18,096	0.48	3.18	37,008	17,616	0.48	3.37	35,748	17,016	0.48	3.62	33,804	16,091	0.48	3.97
24	75	16	61	34,740	27,653	0.80	2.76	34,236	27,252	0.80	2.89	33,552	26,707	0.80	3.05	32,688	26,020	0.80	3.24	31,572	25,131	0.80	3.48	29,916	23,813	0.80	3.83
24	75	18	64	36,972	24,993	0.68	2.84	36,468	24,652	0.68	2.96	35,748	24,166	0.68	3.11	34,812	23,533	0.68	3.31	33,624	22,730	0.68	3.55	31,860	21,537	0.68	3.90
24	75	20	68	39,276	21,837	0.56	2.90	38,736	21,537	0.56	3.02	38,016	21,137	0.56	3.18	37,008	20,576	0.56	3.37	35,748	19,876	0.56	3.62	33,804	18,795	0.56	3.97
24	75	22	72	41,580	18,129	0.44	2.97	41,076	17,909	0.44	3.09	40,284	17,564	0.44	3.24	39,240	17,109	0.44	3.44	37,872	16,512	0.44	3.68	35,748	15,586	0.44	4.05
26	79	16	61	34,740	30,432	0.88	2.76	34,236	29,991	0.88	2.89	33,552	29,392	0.88	3.05	32,688	28,635	0.88	3.24	31,572	27,657	0.88	3.48	29,916	26,206	0.88	3.83
26	79	18	64	36,972	27,951	0.76	2.84	36,468	27,570	0.76	2.96	35,748	27,025	0.76	3.11	34,812	26,318	0.76	3.31	33,624	25,420	0.76	3.55	31,860	24,086	0.76	3.90
26	79	20	68	39,276	24,980	0.64	2.90	38,736	24,636	0.64	3.02	38,016	24,178	0.64	3.18	37,008	23,537	0.64	3.37	35,748	22,736	0.64	3.62	33,804	21,499	0.64	3.97
26	79	22	72	41,580	21,455	0.52	2.97	41,076	21,195	0.52	3.09	40,284	20,787	0.52	3.24	39,240	20,248	0.52	3.44	37,872	19,542	0.52	3.68	35,748	18,446	0.52	4.05
27	81	16	61	34,740	31,822	0.92	2.76	34,236	31,360	0.92	2.89	33,552	30,734	0.92	3.05	32,688	29,942	0.92	3.24	31,572	28,920	0.92	3.48	29,916	27,403	0.92	3.83
27	81	18	64	36,972	29,430	0.80	2.84	36,468	29,029	0.80	2.96	35,748	28,455	0.80	3.11	34,812	27,710	0.80	3.31	33,624	26,765	0.80	3.55	31,860	25,361	0.80	3.90
27	81	20	68	39,276	26,551	0.68	2.90	38,736	26,186	0.68	3.02	38,016	25,699	0.68	3.18	37,008	25,017	0.68	3.37	35,748	24,166	0.68	3.62	33,804	22,852	0.68	3.97
27	81	22	72	41,580	23,118	0.56	2.97	41,076	22,838	0.56	3.09	40,284	22,398	0.56	3.24	39,240	21,817	0.56	3.44	37,872	21,057	0.56	3.68	35,748	19,876	0.56	4.05
28	82	16	61	34,740	33,211	0.96	2.76	34,236	32,730	0.96	2.89	33,552	32,076	0.96	3.05	32,688	31,250	0.96	3.24	31,572	30,183	0.96	3.48	29,916	28,600	0.96	3.83
28	82	18	64	36,972	30,909	0.84	2.84	36,468	30,487	0.84	2.96	35,748	29,885	0.84	3.11	34,812	29,103	0.84	3.31	33,624	28,110	0.84	3.55	31,860	26,635	0.84	3.90
28	82	20	68	39,276	28,122	0.72	2.90	38,736	27,735	0.72	3.02	38,016	27,219	0.72	3.18	37,008	26,498	0.72	3.37	35,748	25,596	0.72	3.62	33,804	24,204	0.72	3.97
28	82	22	72	41,580	24,782	0.60	2.97	41,076	24,481	0.60	3.09	40,284	24,009	0.60	3.24	39,240	23,387	0.60	3.44	37,872	22,572	0.60	3.68	35,748	21,306	0.60	4.05
30	86	16	61	34,740	34,740	1.00	2.76	34,236	34,236	1.00	2.89	33,552	33,552	1.00	3.05	32,688	32,688	1.00	3.24	31,572	31,572	1.00	3.48	29,916	29,916	1.00	3.83
30	86	18	64	36,972	33,866	0.92	2.84	36,468	33,405	0.92	2.96	35,748	32,745	0.92	3.11	34,812	31,888	0.92	3.31	33,624	30,800	0.92	3.55	31,860	29,184	0.92	3.90
30	86	20	68	39,276	31,264	0.80	2.90	38,736	30,834	0.80	3.02	38,016	30,261	0.80	3.18	37,008	29,458	0.80	3.37	35,748	28,455	0.80	3.62	33,804	26,908	0.80	3.97
30	86	22	72	41,580	28,108	0.68	2.97	41,076	27,767	0.68	3.09	40,284	27,232	0.68	3.24	39,240	26,526	0.68	3.44	37,872	25,601	0.68	3.68	35,748	24,166	0.68	4.05
32	90	16	61	34,740	34,740	1.00	2.76	34,236	34,236	1.00	2.89	33,552	33,552	1.00	3.05	32,688	32,688	1.00	3.24	31,572	31,572	1.00	3.48	29,916	29,916	1.00	3.83
32	90	18	64	36,972	36,824	1.00	2.84	36,468	36,322	1.00	2.96	35,748	35,605	1.00	3.11	34,812	34,673	1.00	3.31	33,624	33,490	1.00	3.55	31,860	31,733	1.00	3.90
32	90	20	68	39,276	34,406	0.88	2.90	38,736	33,933	0.88	3.02	38,016	33,302	0.88	3.18	37,008	32,419	0.88	3.37	35,748	31,315	0.88	3.62	33,804	29,612	0.88	3.97
32	90	22	72	41,580	31,434	0.76	2.97	41,076	31,053	0.76	3.09	40,284	30,455	0.76	3.24	39,240	29,665	0.76	3.44	37,872	28,631	0.76	3.68	35,748	27,025	0.76	4.05

Note: CA : Capacity (Btu/h) SHC : Sensible heat capacity (Btu/h) SHF : Sensible heat factor P.C. : Power consumption (kW)
 D.B. : Dry-bulb temperature W.B. : Wet-bulb temperature

PCA-A24KA7/PUY-A24NHA7, PUZ-A24NHA7

CAPACITY (Btu/h): 24,000 INPUT (kW): 1.96 SHF: 0.73

Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Indoor intake air W.B.(°C)	Indoor intake air W.B.(°F)	Outdoor intake air °C/°F D.B.																							
				20/68				25/77				30/86				35/95				40/104				46/115			
				CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
19	68	16	61	23,160	14,498	0.63	1.63	22,824	14,288	0.63	1.70	22,368	14,002	0.63	1.79	21,792	13,642	0.63	1.91	21,048	13,176	0.63	2.05	19,944	12,485	0.63	2.25
19	68	18	64	24,648	12,472	0.51	1.67	24,312	12,302	0.51	1.74	23,832	12,059	0.51	1.83	23,208	11,743	0.51	1.95	22,416	11,342	0.51	2.09	21,240	10,747	0.51	2.29
20	68	16	61	23,160	15,425	0.67	1.63	22,824	15,201	0.67	1.70	22,368	14,897	0.67	1.79	21,792	14,513	0.67	1.91	21,048	14,018	0.67	2.05	19,944	13,283	0.67	2.25
20	68	18	64	24,648	13,458	0.55	1.67	24,312	13,274	0.55	1.74	23,832	13,012	0.55	1.83	23,208	12,672	0.55	1.95	22,416	12,239	0.55	2.09	21,240	11,597	0.55	2.29
20	68	20	68	26,184	11,154	0.43	1.71	25,824	11,001	0.43	1.78	25,344	10,797	0.43	1.87	24,672	10,510	0.43	1.99	23,832	10,152	0.43	2.13	22,536	9,600	0.43	2.34
22	72	16	61	23,160	17,277	0.75	1.63	22,824	17,027	0.75	1.70	22,368	16,687	0.75	1.79	21,792	16,257	0.75	1.91	21,048	15,702	0.75	2.05	19,944	14,878	0.75	2.25
22	72	18	64	24,648	15,430	0.63	1.67	24,312	15,219	0.63	1.74	23,832	14,919	0.63	1.83	23,208	14,528	0.63	1.95	22,416	14,032	0.63	2.09	21,240	13,296	0.63	2.29
22	72	20	68	26,184	13,249	0.51	1.71	25,824	13,067	0.51	1.78	25,344	12,824	0.51	1.87	24,672	12,484	0.51	1.99	23,832	12,059	0.51	2.13	22,536	11,403	0.51	2.34
24	75	16	61	23,160	19,130	0.83	1.63	22,824	18,853	0.83	1.70	22,368	18,476	0.83	1.79	21,792	18,000	0.83	1.91	21,048	17,386	0.83	2.05	19,944	16,474	0.83	2.25
24	75	18	64	24,648	17,401	0.71	1.67	24,312	17,164	0.71	1.74	23,832	16,825	0.71	1.83	23,208	16,385	0.71	1.95	22,416	15,826	0.71	2.09	21,240	14,995	0.71	2.29
24	75	20	68	26,184	15,344	0.59	1.71	25,824	15,133	0.59	1.78	25,344	14,852	0.59	1.87	24,672	14,458	0.59	1.99	23,832	13,966	0.59	2.13	22,536	13,206	0.59	2.34
24	75	22	72	27,720	12,918	0.47	1.75	27,384	12,761	0.47	1.82	26,856	12,515	0.47	1.91	26,160	12,191	0.47	2.02	25,248	11,766	0.47	2.17	23,832	11,106	0.47	2.38
26	79	16	61	23,160	20,983	0.91	1.63	22,824	20,679	0.91	1.70	22,368	20,265	0.91	1.79	21,792	19,744	0.91	1.91	21,048	19,069	0.91	2.05	19,944	18,069	0.91	2.25
26	79	18	64	24,648	19,373	0.79	1.67	24,312	19,109	0.79	1.74	23,832	18,732	0.79	1.83	23,208	18,241	0.79	1.95	22,416	17,619	0.79	2.09	21,240	16,695	0.79	2.29
26	79	20	68	26,184	17,439	0.67	1.71	25,824	17,199	0.67	1.78	25,344	16,879	0.67	1.87	24,672	16,432	0.67	1.99	23,832	15,872	0.67	2.13	22,536	15,009	0.67	2.34
26	79	22	72	27,720	15,135	0.55	1.75	27,384	14,952	0.55	1.82	26,856	14,663	0.55	1.91	26,160	14,283	0.55	2.02	25,248	13,785	0.55	2.17	23,832	13,012	0.55	2.38
27	81	16	61	23,160	21,909	0.95	1.63	22,824	21,592	0.95	1.70	22,368	21,160	0.95	1.79	21,792	20,615	0.95	1.91	21,048	19,911	0.95	2.05	19,944	18,867	0.95	2.25
27	81	18	64	24,648	20,359	0.83	1.67	24,312	20,082	0.83	1.74	23,832	19,685	0.83	1.83	23,208	19,170	0.83	1.95	22,416	18,516	0.83	2.09	21,240	17,544	0.83	2.29
27	81	20	68	26,184	18,486	0.71	1.71	25,824	18,232	0.71	1.78	25,344	17,893	0.71	1.87	24,672	17,418	0.71	1.99	23,832	16,825	0.71	2.13	22,536	15,910	0.71	2.34
27	81	22	72	27,720	16,244	0.59	1.75	27,384	16,047	0.59	1.82	26,856	15,738	0.59	1.91	26,160	15,330	0.59	2.02	25,248	14,795	0.59	2.17	23,832	13,966	0.59	2.38
28	82	16	61	23,160	22,836	0.99	1.63	22,824	22,504	0.99	1.70	22,368	22,055	0.99	1.79	21,792	21,487	0.99	1.91	21,048	20,753	0.99	2.05	19,944	19,665	0.99	2.25
28	82	18	64	24,648	21,345	0.87	1.67	24,312	21,054	0.87	1.74	23,832	20,639	0.87	1.83	23,208	20,098	0.87	1.95	22,416	19,412	0.87	2.09	21,240	18,394	0.87	2.29
28	82	20	68	26,184	19,533	0.75	1.71	25,824	19,265	0.75	1.78	25,344	18,907	0.75	1.87	24,672	18,405	0.75	1.99	23,832	17,779	0.75	2.13	22,536	16,812	0.75	2.34
28	82	22	72	27,720	17,353	0.63	1.75	27,384	17,142	0.63	1.82	26,856	16,812	0.63	1.91	26,160	16,376	0.63	2.02	25,248	15,805	0.63	2.17	23,832	14,919	0.63	2.38
30	86	16	61	23,160	23,160	1.00	1.63	22,824	22,824	1.00	1.70	22,368	22,368	1.00	1.79	21,792	21,792	1.00	1.91	21,048	21,048	1.00	2.05	19,944	19,944	1.00	2.25
30	86	18	64	24,648	23,317	0.95	1.67	24,312	22,999	0.95	1.74	23,832	22,545	0.95	1.83	23,208	21,955	0.95	1.95	22,416	21,206	0.95	2.09	21,240	20,093	0.95	2.29
30	86	20	68	26,184	21,628	0.83	1.71	25,824	21,331	0.83	1.78	25,344	20,934	0.83	1.87	24,672	20,379	0.83	1.99	23,832	19,685	0.83	2.13	22,536	18,615	0.83	2.34
30	86	22	72	27,720	19,570	0.71	1.75	27,384	19,333	0.71	1.82	26,856	18,960	0.71	1.91	26,160	18,469	0.71	2.02	25,248	17,825	0.71	2.17	23,832	16,825	0.71	2.38
32	90	16	61	23,160	23,160	1.00	1.63	22,824	22,824	1.00	1.70	22,368	22,368	1.00	1.79	21,792	21,792	1.00	1.91	21,048	21,048	1.00	2.05	19,944	19,944	1.00	2.25
32	90	18	64	24,648	22,648	1.00	1.67	24,312	24,312	1.00	1.74	23,832	23,832	1.00	1.83	23,208	23,208	1.00	1.95	22,416	22,416	1.00	2.09	21,240	21,240	1.00	2.29
32	90	20	68	26,184	23,723	0.91	1.71	25,824	23,397	0.91	1.78	25,344	22,962	0.91	1.87	24,672	22,353	0.91	1.99	23,832	21,592	0.91	2.13	22,536	20,418	0.91	2.34
32	90	22	72	27,720	21,788	0.79	1.75	27,384	21,524	0.79	1.82	26,856	21,109	0.79	1.91	26,160	20,562	0.79	2.02	25,248	19,845	0.79	2.17	23,832	18,732	0.79	2.38

PCA-A30KA7/PUY-A30NHA7, PUZ-A30NHA7

CAPACITY (Btu/h): 30,000 INPUT (kW): 3.32 SHF: 0.69

Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Indoor intake air W.B.(°C)	Indoor intake air W.B.(°F)	Outdoor intake air °C/°F D.B.																							
				20/68				25/77				30/86				35/95				40/104				46/115			
				CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
19	68	16	61	28,950	16,965	0.59	2.65	28,530	16,719	0.59	2.77	27,960	16,385	0.59	2.92	27,240	15,963	0.59	3.11	26,310	15,418	0.59	3.33	24,930	14,609	0.59	3.67
19	68	18	64	30,810	14,357	0.47	2.72	30,390	14,162	0.47	2.83	29,790	13,882	0.47	2.98	29,010	13,519	0.47	3.17	28,020	13,057	0.47	3.40	26,550	12,372	0.47	3.73
20	68	16	61	28,950	18,123	0.63	2.65	28,530	17,860	0.63	2.77	27,960	17,503	0.63	2.92	27,240	17,052	0.63	3.11	26,310	16,470	0.63	3.33	24,930	15,606	0.63	3.67
20	68	18	64	30,810	15,590	0.51	2.72	30,390	15,377	0.51	2.83	29,790	15,074	0.51	2.98	29,010	14,679	0.51	3.17	28,020	14,178	0.51	3.40	26,550	13,434	0.51	3.73
20	68	20	68	32,730	12,634	0.39	2.78	32,280	12,460	0.39	2.90	31,680	12,228	0.39	3.04	30,840	11,904	0.39	3.23	29,790	11,499	0.39	3.46	28,170	10,874	0.39	3.80
22	72	16	61	28,950	20,439	0.71	2.65	28,530	20,142	0.71	2.77	27,960	19,740	0.71	2.92	27,240	19,231	0.71	3.11	26,310	18,575	0.71	3.33	24,930	17,601	0.71	3.67
22	72	18	64	30,810	18,055	0.59	2.72	30,390	17,809	0.59	2.83	29,790	17,457	0.59	2.98	29,010	17,000	0.59	3.17	28,020	16,420	0.59	3.40	26,550	15,558	0.59	3.73
22	72	20	68	32,730	15,252	0.47	2.78	32,280	15,042	0.47	2.90	31,680	14,763	0.47	3.04	30,840	14,371	0.47	3.23	29,790	13,882	0.47	3.46	28,170	13,127	0.47	3.80
24	75	16	61	28,950	22,755	0.79	2.65	28,530	22,425	0.79	2.77	27,960	21,977	0.79	2.92	27,240	21,411	0.79	3.11	26,310	20,680	0.79	3.33	24,930	19,595	0.79	3.67
24	75	18	64	30,810	20,519	0.67	2.72	30,390	20,240	0.67																	

PCA-A36KA7/PUY-A36NKA7, PUZ-A36NKA7

CAPACITY (Btu/h): 36,000 INPUT (kW): 3.27 SHF: 0.73

Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Indoor intake air W.B.(°C)	Indoor intake air W.B.(°F)	Outdoor intake air °C/°F D.B.																							
				20/68				25/77				30/86				35/95				40/104				46/115			
				CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
19	68	16	61	34,740	21,747	0.63	2.71	34,236	21,432	0.63	2.84	33,552	21,004	0.63	2.99	32,688	20,463	0.63	3.18	31,572	19,764	0.63	3.42	29,916	18,727	0.63	3.76
19	68	18	64	36,972	18,708	0.51	2.79	36,468	18,453	0.51	2.90	35,748	18,088	0.51	3.06	34,812	17,615	0.51	3.25	33,624	17,014	0.51	3.48	31,860	16,121	0.51	3.83
20	68	16	61	34,740	23,137	0.67	2.71	34,236	22,801	0.67	2.84	33,552	22,346	0.67	2.99	32,688	21,770	0.67	3.18	31,572	21,027	0.67	3.42	29,916	19,924	0.67	3.76
20	68	18	64	36,972	20,187	0.55	2.79	36,468	19,912	0.55	2.90	35,748	19,518	0.55	3.06	34,812	19,007	0.55	3.25	33,624	18,359	0.55	3.48	31,860	17,396	0.55	3.83
20	68	20	68	39,276	16,732	0.43	2.85	38,736	16,502	0.43	2.97	38,016	16,195	0.43	3.12	37,008	15,765	0.43	3.31	35,748	15,229	0.43	3.55	33,804	14,401	0.43	3.90
22	72	16	61	34,740	25,916	0.75	2.71	34,236	25,540	0.75	2.84	33,552	25,030	0.75	2.99	32,688	24,385	0.75	3.18	31,572	23,553	0.75	3.42	29,916	22,317	0.75	3.76
22	72	18	64	36,972	23,144	0.63	2.79	36,468	22,829	0.63	2.90	35,748	22,378	0.63	3.06	34,812	21,792	0.63	3.25	33,624	21,049	0.63	3.48	31,860	19,944	0.63	3.83
22	72	20	68	39,276	19,874	0.51	2.85	38,736	19,600	0.51	2.97	38,016	19,236	0.51	3.12	37,008	18,726	0.51	3.31	35,748	18,088	0.51	3.55	33,804	17,105	0.51	3.90
24	75	16	61	34,740	28,695	0.83	2.71	34,236	28,279	0.83	2.84	33,552	27,714	0.83	2.99	32,688	27,000	0.83	3.18	31,572	26,078	0.83	3.42	29,916	24,711	0.83	3.76
24	75	18	64	36,972	26,102	0.71	2.79	36,468	25,746	0.71	2.90	35,748	25,238	0.71	3.06	34,812	24,577	0.71	3.25	33,624	23,739	0.71	3.48	31,860	22,493	0.71	3.83
24	75	20	68	39,276	23,016	0.59	2.85	38,736	22,699	0.59	2.97	38,016	22,277	0.59	3.12	37,008	21,687	0.59	3.31	35,748	20,948	0.59	3.55	33,804	19,809	0.59	3.90
24	75	22	72	41,580	19,376	0.47	2.92	41,076	19,141	0.47	3.03	40,284	18,772	0.47	3.18	39,240	18,286	0.47	3.38	37,872	17,648	0.47	3.62	35,748	16,659	0.47	3.98
26	79	16	61	34,740	31,474	0.91	2.71	34,236	31,018	0.91	2.84	33,552	30,398	0.91	2.99	32,688	29,615	0.91	3.18	31,572	28,604	0.91	3.42	29,916	27,104	0.91	3.76
26	79	18	64	36,972	29,060	0.79	2.79	36,468	28,664	0.79	2.90	35,748	28,098	0.79	3.06	34,812	27,362	0.79	3.25	33,624	26,428	0.79	3.48	31,860	25,042	0.79	3.83
26	79	20	68	39,276	26,158	0.67	2.85	38,736	25,798	0.67	2.97	38,016	25,199	0.67	3.12	37,008	24,647	0.67	3.31	35,748	23,828	0.67	3.55	33,804	22,513	0.67	3.90
26	79	22	72	41,580	22,703	0.55	2.92	41,076	22,427	0.55	3.03	40,284	21,995	0.55	3.18	39,240	21,425	0.55	3.38	37,872	20,678	0.55	3.62	35,748	19,518	0.55	3.98
27	81	16	61	34,740	32,864	0.95	2.71	34,236	32,387	0.95	2.84	33,552	31,740	0.95	2.99	32,688	30,923	0.95	3.18	31,572	29,867	0.95	3.42	29,916	28,301	0.95	3.76
27	81	18	64	36,972	30,539	0.83	2.79	36,468	30,123	0.83	2.90	35,748	29,528	0.83	3.06	34,812	28,755	0.83	3.25	33,624	27,773	0.83	3.48	31,860	26,316	0.83	3.83
27	81	20	68	39,276	27,729	0.71	2.85	38,736	27,348	0.71	2.97	38,016	26,839	0.71	3.12	37,008	26,128	0.71	3.31	35,748	25,238	0.71	3.55	33,804	23,866	0.71	3.90
27	81	22	72	41,580	24,366	0.59	2.92	41,076	24,071	0.59	3.03	40,284	23,606	0.59	3.18	39,240	22,995	0.59	3.38	37,872	22,193	0.59	3.62	35,748	20,948	0.59	3.98
28	82	16	61	34,740	34,254	0.99	2.71	34,236	33,757	0.99	2.84	33,552	33,082	0.99	2.99	32,688	32,230	0.99	3.18	31,572	31,130	0.99	3.42	29,916	29,497	0.99	3.76
28	82	18	64	36,972	32,018	0.87	2.79	36,468	31,581	0.87	2.90	35,748	30,958	0.87	3.06	34,812	30,147	0.87	3.25	33,624	29,118	0.87	3.48	31,860	27,591	0.87	3.83
28	82	20	68	39,276	29,300	0.75	2.85	38,736	28,897	0.75	2.97	38,016	28,360	0.75	3.12	37,008	27,608	0.75	3.31	35,748	26,668	0.75	3.55	33,804	25,218	0.75	3.90
28	82	22	72	41,580	26,029	0.63	2.92	41,076	25,714	0.63	3.03	40,284	25,218	0.63	3.18	39,240	24,564	0.63	3.38	37,872	23,708	0.63	3.62	35,748	22,378	0.63	3.98
30	86	16	61	34,740	34,740	1.00	2.71	34,236	34,236	1.00	2.84	33,552	33,552	1.00	2.99	32,688	32,688	1.00	3.18	31,572	31,572	1.00	3.42	29,916	29,916	1.00	3.76
30	86	18	64	36,972	34,976	0.95	2.79	36,468	34,499	0.95	2.90	35,748	33,818	0.95	3.06	34,812	32,932	0.95	3.25	33,624	31,808	0.95	3.48	31,860	30,140	0.95	3.83
30	86	20	68	39,276	32,442	0.83	2.85	38,736	31,996	0.83	2.97	38,016	31,401	0.83	3.12	37,008	30,569	0.83	3.31	35,748	29,528	0.83	3.55	33,804	27,922	0.83	3.90
30	86	22	72	41,580	29,355	0.71	2.92	41,076	29,000	0.71	3.03	40,284	28,441	0.71	3.18	39,240	27,703	0.71	3.38	37,872	26,738	0.71	3.62	35,748	25,238	0.71	3.98
32	90	16	61	34,740	34,740	1.00	2.71	34,236	34,236	1.00	2.84	33,552	33,552	1.00	2.99	32,688	32,688	1.00	3.18	31,572	31,572	1.00	3.42	29,916	29,916	1.00	3.76
32	90	18	64	36,972	36,972	1.00	2.79	36,468	36,468	1.00	2.90	35,748	35,748	1.00	3.06	34,812	34,812	1.00	3.25	33,624	33,624	1.00	3.48	31,860	31,860	1.00	3.83
32	90	20	68	39,276	35,584	0.91	2.85	38,736	35,095	0.91	2.97	38,016	34,442	0.91	3.12	37,008	33,529	0.91	3.31	35,748	32,388	0.91	3.55	33,804	30,626	0.91	3.90
32	90	22	72	41,580	32,682	0.79	2.92	41,076	32,286	0.79	3.03	40,284	31,663	0.79	3.18	39,240	30,843	0.79	3.38	37,872	29,767	0.79	3.62	35,748	28,098	0.79	3.98

PCA-A42KA7/PUY-A42NKA7, PUZ-A42NKA7

CAPACITY (Btu/h): 42,000 INPUT (kW): 4.11 SHF: 0.69

Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Indoor intake air W.B.(°C)	Indoor intake air W.B.(°F)	Outdoor intake air °C/°F D.B.																							
				20/68				25/77				30/86				35/95				40/104				46/115			
				CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
19	68	16	61	40,530	23,751	0.59	3.41	39,942	23,406	0.59	3.56	39,144	22,938	0.59	3.76	38,136	22,348	0.59	4.00	36,834	21,585	0.59	4.29	34,902	20,453	0.59	4.72
19	68	18	64	43,134	20,100	0.47	3.50	42,546	19,826	0.47	3.65	41,706	19,435	0.47	3.84	40,614	18,926	0.47	4.09	39,228	18,280	0.47	4.38	37,170	17,321	0.47	4.81
20	68	16	61	40,530	25,372	0.63	3.41	39,942	25,004	0.63	3.56	39,144	24,504	0.63	3.76	38,136	23,873	0.63	4.00	36,834	23,058	0.63	4.29	34,902	21,849	0.63	4.72
20	68	18	64	43,134	21,826	0.51	3.50	42,546	21,528	0.51	3.65	41,706	21,103	0.51	3.84	40,614	20,551	0.51	4.09	39,228	19,849	0.51	4.38	37,170	18,808	0.51	4.81
20	68	20	68	45,822	17,687	0.39	3.58	45,192	17,444	0.39	3.73	44,352	17,120	0.39	3.92	43,176	16,666	0.39	4.16	41,706	16,099	0.39	4.46	39,438	15,223	0.39	4.90
22	72	16	61	40,530	28,614	0.71	3.41	39,942	28,199	0.71	3.56	39,144	27,636	0.71	3.76	38,136	26,924	0.71	4.00	36,834	26,005	0.71	4.29	34,902	24,641	0.71	4.72
22	72	18	64	43,134	25,277	0.59	3.50	42,546	24,932	0.59	3.65	41,706	24,440	0.59	3.84	40,614	23,800	0.59	4.09	39,228	22,988	0.59	4.38	37,170	21,782	0.59	4.81
22	72	20	68	45,822	21,353	0.47	3.58	45,192	21,059	0.47	3.73	44,352	20,668	0.47	3.92	43,176	20,120	0.47	4.16	41,706	19,435	0.47	4.46	39,438	18,378	0.47	4.90
24	75	16	61	40,530	31,857	0.79	3.41	39,942	31,394	0.79	3.56	39,144	30,767	0.79	3.76	38,136	29,975	0.79	4.00	36,834	28,952	0.79	4.29	34,902	27,433	0.79	4.72
24	75	18	64	43,134	28,727	0.67																					

PEAD-A12AA7/PUY-A12NKA7, PUZ-A12NKA7

CAPACITY (Btu/h): 12,000 INPUT(kW): 0.92 SHF: 0.83

Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Indoor intake air W.B.(°C)	Indoor intake air W.B.(°F)	Outdoor intake air °C/°F D.B.																							
				20/68				25/77				30/86				35/95				40/104				46/115			
				CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
19	66	16	61	11,580	8,407	0.73	0.76	11,412	8,285	0.73	0.80	11,184	8,120	0.73	0.84	10,896	7,910	0.73	0.90	10,524	7,640	0.73	0.96	9,972	7,240	0.73	1.06
19	66	18	64	12,324	7,468	0.61	0.78	12,156	7,367	0.61	0.82	11,916	7,221	0.61	0.86	11,604	7,032	0.61	0.91	11,208	6,792	0.61	0.98	10,620	6,436	0.61	1.08
20	68	16	61	11,580	8,870	0.77	0.76	11,412	8,742	0.77	0.80	11,184	8,567	0.77	0.84	10,896	8,346	0.77	0.90	10,524	8,061	0.77	0.96	9,972	7,639	0.77	1.06
20	68	18	64	12,324	7,961	0.65	0.78	12,156	7,853	0.65	0.82	11,916	7,698	0.65	0.86	11,604	7,496	0.65	0.91	11,208	7,240	0.65	0.98	10,620	6,861	0.65	1.08
20	68	20	68	13,092	6,886	0.53	0.80	12,912	6,792	0.53	0.84	12,672	6,665	0.53	0.88	12,336	6,489	0.53	0.93	11,916	6,268	0.53	1.00	11,268	5,927	0.53	1.10
22	72	16	61	11,580	9,797	0.85	0.76	11,412	9,655	0.85	0.80	11,184	9,462	0.85	0.84	10,896	9,218	0.85	0.90	10,524	8,903	0.85	0.96	9,972	8,436	0.85	1.06
22	72	18	64	12,324	8,947	0.73	0.78	12,156	8,825	0.73	0.82	11,916	8,651	0.73	0.86	11,604	8,425	0.73	0.91	11,208	8,137	0.73	0.98	10,620	7,710	0.73	1.08
22	72	20	68	13,092	7,934	0.61	0.80	12,912	7,825	0.61	0.84	12,672	7,679	0.61	0.88	12,336	7,476	0.61	0.93	11,916	7,221	0.61	1.00	11,268	6,828	0.61	1.10
24	75	16	61	11,580	10,723	0.93	0.76	11,412	10,568	0.93	0.80	11,184	10,356	0.93	0.84	10,896	10,090	0.93	0.90	10,524	9,745	0.93	0.96	9,972	9,234	0.93	1.06
24	75	18	64	12,324	9,933	0.81	0.78	12,156	9,798	0.81	0.82	11,916	9,604	0.81	0.86	11,604	9,353	0.81	0.91	11,208	9,034	0.81	0.98	10,620	8,560	0.81	1.08
24	75	20	68	13,092	8,981	0.69	0.80	12,912	8,858	0.69	0.84	12,672	8,693	0.69	0.88	12,336	8,462	0.69	0.93	11,916	8,174	0.69	1.00	11,268	7,730	0.69	1.10
24	75	22	72	13,860	7,845	0.57	0.82	13,692	7,750	0.57	0.85	13,428	7,600	0.57	0.90	13,080	7,403	0.57	0.95	12,624	7,145	0.57	1.02	11,916	6,744	0.57	1.12
26	79	16	61	11,580	11,580	1.00	0.76	11,412	11,412	1.00	0.80	11,184	11,184	1.00	0.84	10,896	10,896	1.00	0.90	10,524	10,524	1.00	0.96	9,972	9,972	1.00	1.06
26	79	18	64	12,324	10,919	0.89	0.78	12,156	10,770	0.89	0.82	11,916	10,558	0.89	0.86	11,604	10,281	0.89	0.91	11,208	9,930	0.89	0.98	10,620	9,409	0.89	1.08
26	79	20	68	13,092	10,028	0.77	0.80	12,912	9,891	0.77	0.84	12,672	9,707	0.77	0.88	12,336	9,449	0.77	0.93	11,916	9,128	0.77	1.00	11,268	8,631	0.77	1.10
26	79	22	72	13,860	8,954	0.65	0.82	13,692	8,845	0.65	0.85	13,428	8,674	0.65	0.90	13,080	8,450	0.65	0.95	12,624	8,155	0.65	1.02	11,916	7,698	0.65	1.12
27	81	16	61	11,580	11,580	1.00	0.76	11,412	11,412	1.00	0.80	11,184	11,184	1.00	0.84	10,896	10,896	1.00	0.90	10,524	10,524	1.00	0.96	9,972	9,972	1.00	1.06
27	81	18	64	12,324	11,412	0.93	0.78	12,156	11,256	0.93	0.82	11,916	11,034	0.93	0.86	11,604	10,745	0.93	0.91	11,208	10,379	0.93	0.98	10,620	9,834	0.93	1.08
27	81	20	68	13,092	10,552	0.81	0.80	12,912	10,407	0.81	0.84	12,672	10,214	0.81	0.88	12,336	9,943	0.81	0.93	11,916	9,604	0.81	1.00	11,268	9,082	0.81	1.10
27	81	22	72	13,860	9,508	0.69	0.82	13,692	9,393	0.69	0.85	13,428	9,212	0.69	0.90	13,080	8,973	0.69	0.95	12,624	8,660	0.69	1.02	11,916	8,174	0.69	1.12
28	82	16	61	11,580	11,580	1.00	0.76	11,412	11,412	1.00	0.80	11,184	11,184	1.00	0.84	10,896	10,896	1.00	0.90	10,524	10,524	1.00	0.96	9,972	9,972	1.00	1.06
28	82	18	64	12,324	11,905	0.97	0.78	12,156	11,743	0.97	0.82	11,916	11,511	0.97	0.86	11,604	11,209	0.97	0.91	11,208	10,827	0.97	0.98	10,620	10,259	0.97	1.08
28	82	20	68	13,092	11,076	0.85	0.80	12,912	10,924	0.85	0.84	12,672	10,721	0.85	0.88	12,336	10,436	0.85	0.93	11,916	10,081	0.85	1.00	11,268	9,533	0.85	1.10
28	82	22	72	13,860	10,062	0.73	0.82	13,692	9,940	0.73	0.85	13,428	9,749	0.73	0.90	13,080	9,496	0.73	0.95	12,624	9,165	0.73	1.02	11,916	8,651	0.73	1.12
30	86	16	61	11,580	11,580	1.00	0.76	11,412	11,412	1.00	0.80	11,184	11,184	1.00	0.84	10,896	10,896	1.00	0.90	10,524	10,524	1.00	0.96	9,972	9,972	1.00	1.06
30	86	18	64	12,324	12,324	1.00	0.78	12,156	12,156	1.00	0.82	11,916	11,916	1.00	0.86	11,604	11,604	1.00	0.91	11,208	11,208	1.00	0.98	10,620	10,620	1.00	1.08
30	86	20	68	13,092	12,123	0.93	0.80	12,912	11,957	0.93	0.84	12,672	11,734	0.93	0.88	12,336	11,423	0.93	0.93	11,916	11,034	0.93	1.00	11,268	10,434	0.93	1.10
30	86	22	72	13,860	11,171	0.81	0.82	13,692	11,036	0.81	0.85	13,428	10,823	0.81	0.90	13,080	10,542	0.81	0.95	12,624	10,175	0.81	1.02	11,916	9,604	0.81	1.12
32	90	16	61	11,580	11,580	1.00	0.76	11,412	11,412	1.00	0.80	11,184	11,184	1.00	0.84	10,896	10,896	1.00	0.90	10,524	10,524	1.00	0.96	9,972	9,972	1.00	1.06
32	90	18	64	12,324	12,324	1.00	0.78	12,156	12,156	1.00	0.82	11,916	11,916	1.00	0.86	11,604	11,604	1.00	0.91	11,208	11,208	1.00	0.98	10,620	10,620	1.00	1.08
32	90	20	68	13,092	13,092	1.00	0.80	12,912	12,912	1.00	0.84	12,672	12,672	1.00	0.88	12,336	12,336	1.00	0.93	11,916	11,916	1.00	1.00	11,268	11,268	1.00	1.10
32	90	22	72	13,860	12,280	0.89	0.82	13,692	12,131	0.89	0.85	13,428	11,897	0.89	0.90	13,080	11,589	0.89	0.95	12,624	11,185	0.89	1.02	11,916	10,558	0.89	1.12

PEAD-A18AA7/PUY-A18NKA7, PUZ-A18NKA7

CAPACITY (Btu/h): 18,000 INPUT(kW): 1.66 SHF: 0.77

Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Indoor intake air W.B.(°C)	Indoor intake air W.B.(°F)	Outdoor intake air °C/°F D.B.																							
				20/68				25/77				30/86				35/95				40/104				46/115			
				CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
19	66	16	61	17,370	11,568	0.67	1.38	17,118	11,401	0.67	1.44	16,776	11,173	0.67	1.52	16,344	10,885	0.67	1.62	15,786	10,513	0.67	1.73	14,958	9,962	0.67	1.91
19	66	18	64	18,486	10,093	0.55	1.41	18,234	9,956	0.55	1.47	17,874	9,759	0.55	1.55	17,406	9,504	0.55	1.65	16,812	9,179	0.55	1.77	15,930	8,698	0.55	1.94
20	68	16	61	17,370	12,263	0.71	1.38	17,118	12,085	0.71	1.44	16,776	11,844	0.71	1.52	16,344	11,539	0.71	1.62	15,786	11,145	0.71	1.73	14,958	10,560	0.71	1.91
20	68	18	64	18,486	10,833	0.59	1.41	18,234	10,685	0.59	1.47	17,874	10,474	0.59	1.55	17,406	10,200	0.59	1.65	16,812	9,852	0.59	1.77	15,930	9,335	0.59	1.94
20	68	20	68	19,638	9,151	0.47	1.45	19,368	9,025	0.47	1.51	19,008	8,858	0.47	1.58	18,504	8,623	0.47	1.68	17,874	8,329	0.47	1.80	16,902	7,876	0.47	1.98
22	72	16	61	17,370	13,653	0.79	1.38	17,118	13,455	0.79	1.44	16,776	13,186	0.79	1.52	16,344	12,846	0.79	1.62	15,786	12,408	0.79	1.73	14,958	11,757	0.79	1.91
22	72	18	64	18,486	12,312	0.67	1.41	18,234	12,144	0.67	1.47	17,874	11,904	0.67	1.55	17,406	11,592	0.67	1.65	16,812	11,197	0.67	1.77	15,930	10,609	0.67	1.94
22	72	20	68	19,638	10,722	0.55	1.45	19,368	10,575	0.55	1.51	19,008	10,378	0.55	1.58	18,504	10,103	0.55	1.68	17,874	9,759	0.55	1.80	16,902	9,228	0.55	1.98
24	75	16	61	17,370	15,042	0.87	1.38	17,118	14,824	0.87	1.44	16,776	14,528	0.87	1.52	16,344	14,154	0.87	1.62	15,786	13,671	0.87	1.73	14,958	12,954	0.87	1.91
24	75	18	64	18,486	13,791	0.75	1.41	18,234	13,603	0.75	1.47	17,874	13,334	0.75	1.55	17,406	12,985	0.75	1.65	16,812	12,542	0.75	1.77				

PEAD-A24AA7/PUY-A24NHA7, PUZ-A24NHA7

CAPACITY (Btu/h): 24,000 INPUT (kW): 2.05 SHF: 0.68

Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Indoor intake air W.B.(°C)	Indoor intake air W.B.(°F)	Outdoor intake air °C/°F D.B.																							
				20/68				25/77				30/86				35/95				40/104				46/115			
				CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
19	66	16	61	23,160	13,340	0.58	1.70	22,824	13,147	0.58	1.78	22,368	12,884	0.58	1.88	21,792	12,552	0.58	2.00	21,048	12,124	0.58	2.14	19,944	11,488	0.58	2.36
19	66	18	64	24,648	11,239	0.46	1.75	24,312	11,086	0.46	1.82	23,832	10,867	0.46	1.92	23,208	10,583	0.46	2.04	22,416	10,222	0.46	2.18	21,240	9,685	0.46	2.40
20	68	16	61	23,160	14,267	0.62	1.70	22,824	14,060	0.62	1.78	22,368	13,779	0.62	1.88	21,792	13,424	0.62	2.00	21,048	12,966	0.62	2.14	19,944	12,286	0.62	2.36
20	68	18	64	24,648	12,225	0.50	1.75	24,312	12,059	0.50	1.82	23,832	11,821	0.50	1.92	23,208	11,511	0.50	2.04	22,416	11,118	0.50	2.18	21,240	10,535	0.50	2.40
20	68	20	68	26,184	9,845	0.38	1.79	25,824	9,710	0.38	1.86	25,344	9,529	0.38	1.96	24,672	9,277	0.38	2.08	23,832	8,961	0.38	2.23	22,536	8,474	0.38	2.44
22	72	16	61	23,160	16,119	0.70	1.70	22,824	15,886	0.70	1.78	22,368	15,568	0.70	1.88	21,792	15,167	0.70	2.00	21,048	14,649	0.70	2.14	19,944	13,881	0.70	2.36
22	72	18	64	24,648	14,197	0.58	1.75	24,312	14,004	0.58	1.82	23,832	13,727	0.58	1.92	23,208	13,368	0.58	2.04	22,416	12,912	0.58	2.18	21,240	12,234	0.58	2.40
22	72	20	68	26,184	11,940	0.46	1.79	25,824	11,776	0.46	1.86	25,344	11,557	0.46	1.96	24,672	11,250	0.46	2.08	23,832	10,867	0.46	2.23	22,536	10,276	0.46	2.44
24	75	16	61	23,160	16,119	0.70	1.70	22,824	17,711	0.78	1.78	22,368	17,358	0.78	1.88	21,792	16,911	0.78	2.00	21,048	16,333	0.78	2.14	19,944	15,477	0.78	2.36
24	75	18	64	24,648	16,169	0.66	1.75	24,312	15,949	0.66	1.82	23,832	15,634	0.66	1.92	23,208	15,224	0.66	2.04	22,416	14,705	0.66	2.18	21,240	13,933	0.66	2.40
24	75	20	68	26,184	14,035	0.54	1.79	25,824	13,842	0.54	1.86	25,344	13,584	0.54	1.96	24,672	13,224	0.54	2.08	23,832	12,774	0.54	2.23	22,536	12,079	0.54	2.44
24	75	22	72	27,720	11,532	0.42	1.83	27,384	11,392	0.42	1.90	26,856	11,172	0.42	1.99	26,160	10,883	0.42	2.12	25,248	10,503	0.42	2.27	23,832	9,914	0.42	2.49
26	79	16	61	23,160	19,825	0.86	1.70	22,824	19,537	0.86	1.78	22,368	19,147	0.86	1.88	21,792	18,654	0.86	2.00	21,048	18,017	0.86	2.14	19,944	17,072	0.86	2.36
26	79	18	64	24,648	18,141	0.74	1.75	24,312	17,894	0.74	1.82	23,832	17,540	0.74	1.92	23,208	17,081	0.74	2.04	22,416	16,498	0.74	2.18	21,240	15,633	0.74	2.40
26	79	20	68	26,184	16,129	0.62	1.79	25,824	15,908	0.62	1.86	25,344	15,612	0.62	1.96	24,672	15,198	0.62	2.08	23,832	14,881	0.62	2.23	22,536	13,882	0.62	2.44
26	79	22	72	27,720	13,749	0.50	1.83	27,384	13,582	0.50	1.90	26,856	13,321	0.50	1.99	26,160	12,975	0.50	2.12	25,248	12,523	0.50	2.27	23,832	11,821	0.50	2.49
27	81	16	61	23,160	20,751	0.90	1.70	22,824	20,450	0.90	1.78	22,368	20,042	0.90	1.88	21,792	19,526	0.90	2.00	21,048	18,859	0.90	2.14	19,944	17,870	0.90	2.36
27	81	18	64	24,648	19,127	0.78	1.75	24,312	18,866	0.78	1.82	23,832	18,494	0.78	1.92	23,208	18,009	0.78	2.04	22,416	17,395	0.78	2.18	21,240	16,482	0.78	2.40
27	81	20	68	26,184	17,177	0.66	1.79	25,824	16,941	0.66	1.86	25,344	16,626	0.66	1.96	24,672	16,185	0.66	2.08	23,832	15,634	0.66	2.23	22,536	14,784	0.66	2.44
27	81	22	72	27,720	14,858	0.54	1.83	27,384	14,678	0.54	1.90	26,856	14,395	0.54	1.99	26,160	14,022	0.54	2.12	25,248	13,533	0.54	2.27	23,832	12,774	0.54	2.49
28	82	16	61	23,160	21,678	0.94	1.70	22,824	21,363	0.94	1.78	22,368	20,936	0.94	1.88	21,792	20,397	0.94	2.00	21,048	19,701	0.94	2.14	19,944	18,668	0.94	2.36
28	82	18	64	24,648	20,113	0.82	1.75	24,312	19,839	0.82	1.82	23,832	19,447	0.82	1.92	23,208	18,938	0.82	2.04	22,416	18,291	0.82	2.18	21,240	17,332	0.82	2.40
28	82	20	68	26,184	18,224	0.70	1.79	25,824	17,974	0.70	1.86	25,344	17,639	0.70	1.96	24,672	17,172	0.70	2.08	23,832	16,587	0.70	2.23	22,536	15,685	0.70	2.44
28	82	22	72	27,720	15,967	0.58	1.83	27,384	15,773	0.58	1.90	26,856	15,469	0.58	1.99	26,160	15,068	0.58	2.12	25,248	14,543	0.58	2.27	23,832	13,727	0.58	2.49
30	86	16	61	23,160	23,160	1.00	1.70	22,824	22,824	1.00	1.78	22,368	22,368	1.00	1.88	21,792	21,792	1.00	2.00	21,048	21,048	1.00	2.14	19,944	19,944	1.00	2.36
30	86	18	64	24,648	22,085	0.90	1.75	24,312	21,784	0.90	1.82	23,832	21,353	0.90	1.92	23,208	20,794	0.90	2.04	22,416	20,085	0.90	2.18	21,240	19,031	0.90	2.40
30	86	20	68	26,184	20,319	0.78	1.79	25,824	20,039	0.78	1.86	25,344	19,667	0.78	1.96	24,672	19,145	0.78	2.08	23,832	18,494	0.78	2.23	22,536	17,488	0.78	2.44
30	86	22	72	27,720	18,184	0.66	1.83	27,384	17,964	0.66	1.90	26,856	17,618	0.66	1.99	26,160	17,161	0.66	2.12	25,248	16,563	0.66	2.27	23,832	15,634	0.66	2.49
32	90	16	61	23,160	23,160	1.00	1.70	22,824	22,824	1.00	1.78	22,368	22,368	1.00	1.88	21,792	21,792	1.00	2.00	21,048	21,048	1.00	2.14	19,944	19,944	1.00	2.36
32	90	18	64	24,648	24,056	0.98	1.75	24,312	23,729	0.98	1.82	23,832	23,260	0.98	1.92	23,208	22,651	0.98	2.04	22,416	21,878	0.98	2.18	21,240	20,730	0.98	2.40
32	90	20	68	26,184	22,414	0.86	1.79	25,824	22,105	0.86	1.86	25,344	21,694	0.86	1.96	24,672	21,119	0.86	2.08	23,832	20,400	0.86	2.23	22,536	19,291	0.86	2.44
32	90	22	72	27,720	20,402	0.74	1.83	27,384	20,155	0.74	1.90	26,856	19,766	0.74	1.99	26,160	19,254	0.74	2.12	25,248	18,583	0.74	2.27	23,832	17,540	0.74	2.49

PEAD-A30AA7/PUY-A30NHA7, PUZ-A30NHA7

CAPACITY (Btu/h): 30,000 INPUT (kW): 3.00 SHF: 0.68

Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Indoor intake air W.B.(°C)	Indoor intake air W.B.(°F)	Outdoor intake air °C/°F D.B.																							
				20/68				25/77				30/86				35/95				40/104				46/115			
				CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
19	66	16	61	28,950	16,675	0.58	2.49	28,530	16,433	0.58	2.60	27,960	16,105	0.58	2.75	27,240	15,690	0.58	2.92	26,310	15,155	0.58	3.14	24,930	14,360	0.58	3.45
19	66	18	64	30,810	14,049	0.46	2.56	30,390	13,858	0.46	2.66	29,790	13,584	0.46	2.81	29,010	13,229	0.46	2.98	28,020	12,777	0.46	3.20	26,550	12,107	0.46	3.51
20	68	16	61	28,950	17,833	0.62	2.49	28,530	17,574	0.62	2.60	27,960	17,223	0.62	2.75	27,240	16,780	0.62	2.92	26,310	16,207	0.62	3.14	24,930	15,357	0.62	3.45
20	68	18	64	30,810	15,282	0.50	2.56	30,390	15,073	0.50	2.66	29,790	14,776	0.50	2.81	29,010	14,389	0.50	2.98	28,020	13,898	0.50	3.20	26,550	13,169	0.50	3.51
20	68	20	68	32,730	12,306	0.38	2.62	32,280	12,137	0.38	2.72	31,680	11,912	0.38	2.86	30,840	11,596	0.38	3.04	29,790	11,201	0.38	3.26	28,170	10,592	0.38	3.58
22	72	16	61	28,950	20,149	0.70	2.49	28,530	19,857	0.70	2.60	27,960	19,460	0.70	2.75	27,240	18,959	0.70	2.92	26,310	18,312	0.70	3.14	24,930	17,351	0.70	3.45
22	72	18	64	30,810	17,747	0.58	2.56	30,390	17,505	0.58	2.66	29,790	17,159	0.58	2.81	29,010	16,710	0.58	2.98	28,020	16,140	0.58	3.20	26,550	15,293	0.58	3.51
22	72	20	68	32,730	14,925	0.46	2.62	32,280	14,720	0.46	2.72	31,680	14,446	0.46	2.86	30,840	14,063	0.46	3.04	29,790	13,584	0.46	3.26	28,170	12,846	0.46	3.58
24	75	16	61	28,950	22,465	0.78	2.49	28,530	22,139	0.78	2.60	27,960	21,697	0.78	2.75	27,240	21,138	0.78	2.92	26,310	20,417	0.78	3.14	24,930	19,346	0.78	3.45
24	75	18	64	30,810	20,211	0.66	2.56																				

PEAD-A36AA7/PUY-A36NKA7, PUZ-A36NKA7 CAPACITY (Btu/h): 36,000 INPUT (kW): 3.00 SHF: 0.75

Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Indoor intake air W.B.(°C)	Indoor intake air W.B.(°F)	Outdoor intake air °C/°F D.B.																							
				20/68				25/77				30/86				35/95				40/104				46/115			
				CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
19	66	16	61	34,740	22,442	0.65	2.49	34,236	22,116	0.65	2.60	33,552	21,675	0.65	2.75	32,688	21,116	0.65	2.92	31,572	20,396	0.65	3.14	29,916	19,326	0.65	3.45
19	66	18	64	36,972	19,447	0.53	2.56	36,468	19,182	0.53	2.66	35,748	18,803	0.53	2.81	34,812	18,311	0.53	2.98	33,624	17,686	0.53	3.20	31,860	16,758	0.53	3.51
20	68	16	61	34,740	23,832	0.69	2.49	34,236	23,486	0.69	2.60	33,552	23,017	0.69	2.75	32,688	22,424	0.69	2.92	31,572	21,658	0.69	3.14	29,916	20,522	0.69	3.45
20	68	18	64	36,972	20,926	0.57	2.56	36,468	20,641	0.57	2.66	35,748	20,233	0.57	2.81	34,812	19,704	0.57	2.98	33,624	19,031	0.57	3.20	31,860	18,033	0.57	3.51
20	68	20	68	39,276	17,517	0.45	2.62	38,736	17,276	0.45	2.72	38,016	16,955	0.45	2.86	37,008	16,506	0.45	3.04	35,748	15,944	0.45	3.26	33,804	15,077	0.45	3.58
22	72	16	61	34,740	26,611	0.77	2.49	34,236	26,225	0.77	2.60	33,552	25,701	0.77	2.75	32,688	25,039	0.77	2.92	31,572	24,184	0.77	3.14	29,916	22,916	0.77	3.45
22	72	18	64	36,972	23,884	0.65	2.56	36,468	23,558	0.65	2.66	35,748	23,093	0.65	2.81	34,812	22,489	0.65	2.98	33,624	21,721	0.65	3.20	31,860	20,582	0.65	3.51
22	72	20	68	39,276	20,659	0.53	2.62	38,736	20,375	0.53	2.72	38,016	19,996	0.53	2.86	37,008	19,466	0.53	3.04	35,748	18,803	0.53	3.26	33,804	17,781	0.53	3.58
24	75	16	61	34,740	29,390	0.85	2.49	34,236	28,964	0.85	2.60	33,552	28,385	0.85	2.75	32,688	27,654	0.85	2.92	31,572	26,710	0.85	3.14	29,916	25,309	0.85	3.45
24	75	18	64	36,972	26,842	0.73	2.56	36,468	26,476	0.73	2.66	35,748	25,953	0.73	2.81	34,812	25,274	0.73	2.98	33,624	24,411	0.73	3.20	31,860	23,130	0.73	3.51
24	75	20	68	39,276	23,801	0.61	2.62	38,736	23,474	0.61	2.72	38,016	23,038	0.61	2.86	37,008	22,427	0.61	3.04	35,748	21,663	0.61	3.26	33,804	20,485	0.61	3.58
24	75	22	72	41,580	20,207	0.49	2.68	41,076	19,963	0.49	2.78	40,284	19,578	0.49	2.92	39,240	19,071	0.49	3.10	37,872	18,460	0.49	3.32	35,748	17,374	0.49	3.65
26	79	16	61	34,740	32,169	0.93	2.49	34,236	31,703	0.93	2.60	33,552	31,069	0.93	2.75	32,688	30,269	0.93	2.92	31,572	29,236	0.93	3.14	29,916	27,702	0.93	3.45
26	79	18	64	36,972	29,799	0.81	2.56	36,468	29,393	0.81	2.66	35,748	28,813	0.81	2.81	34,812	28,058	0.81	2.98	33,624	27,101	0.81	3.20	31,860	25,679	0.81	3.51
26	79	20	68	39,276	26,943	0.69	2.62	38,736	26,573	0.69	2.72	38,016	26,079	0.69	2.86	37,008	25,387	0.69	3.04	35,748	24,523	0.69	3.26	33,804	23,190	0.69	3.58
26	79	22	72	41,580	23,534	0.57	2.68	41,076	23,249	0.57	2.78	40,284	22,801	0.57	2.92	39,240	22,210	0.57	3.10	37,872	21,436	0.57	3.32	35,748	20,233	0.57	3.65
27	81	16	61	34,740	33,559	0.97	2.49	34,236	33,072	0.97	2.60	33,552	32,411	0.97	2.75	32,688	31,577	0.97	2.92	31,572	30,499	0.97	3.14	29,916	28,899	0.97	3.45
27	81	18	64	36,972	31,278	0.85	2.56	36,468	30,864	0.85	2.66	35,748	30,243	0.85	2.81	34,812	29,451	0.85	2.98	33,624	28,446	0.85	3.20	31,860	26,963	0.85	3.51
27	81	20	68	39,276	28,514	0.73	2.62	38,736	28,122	0.73	2.72	38,016	27,600	0.73	2.86	37,008	26,868	0.73	3.04	35,748	25,953	0.73	3.26	33,804	24,542	0.73	3.58
27	81	22	72	41,580	25,197	0.61	2.68	41,076	24,892	0.61	2.78	40,284	24,412	0.61	2.92	39,240	23,779	0.61	3.10	37,872	22,950	0.61	3.32	35,748	21,663	0.61	3.65
28	82	16	61	34,740	34,740	1.00	2.49	34,236	34,236	1.00	2.60	33,552	33,552	1.00	2.75	32,688	32,688	1.00	2.92	31,572	31,572	1.00	3.14	29,916	29,916	1.00	3.45
28	82	18	64	36,972	32,757	0.89	2.56	36,468	32,311	0.89	2.66	35,748	31,673	0.89	2.81	34,812	30,843	0.89	2.98	33,624	29,791	0.89	3.20	31,860	28,228	0.89	3.51
28	82	20	68	39,276	30,085	0.77	2.62	38,736	29,672	0.77	2.72	38,016	29,120	0.77	2.86	37,008	28,348	0.77	3.04	35,748	27,383	0.77	3.26	33,804	25,894	0.77	3.58
28	82	22	72	41,580	26,861	0.65	2.68	41,076	26,535	0.65	2.78	40,284	26,023	0.65	2.92	39,240	25,349	0.65	3.10	37,872	24,465	0.65	3.32	35,748	23,093	0.65	3.65
30	86	16	61	34,740	34,740	1.00	2.49	34,236	34,236	1.00	2.60	33,552	33,552	1.00	2.75	32,688	32,688	1.00	2.92	31,572	31,572	1.00	3.14	29,916	29,916	1.00	3.45
30	86	18	64	36,972	35,715	0.97	2.56	36,468	35,228	0.97	2.66	35,748	34,533	0.97	2.81	34,812	33,628	0.97	2.98	33,624	32,481	0.97	3.20	31,860	30,777	0.97	3.51
30	86	20	68	39,276	33,227	0.85	2.62	38,736	32,771	0.85	2.72	38,016	32,162	0.85	2.86	37,008	31,309	0.85	3.04	35,748	30,243	0.85	3.26	33,804	28,958	0.85	3.58
30	86	22	72	41,580	30,187	0.73	2.68	41,076	29,821	0.73	2.78	40,284	29,246	0.73	2.92	39,240	28,488	0.73	3.10	37,872	27,495	0.73	3.32	35,748	25,953	0.73	3.65
32	90	16	61	34,740	34,740	1.00	2.49	34,236	34,236	1.00	2.60	33,552	33,552	1.00	2.75	32,688	32,688	1.00	2.92	31,572	31,572	1.00	3.14	29,916	29,916	1.00	3.45
32	90	18	64	36,972	36,972	1.00	2.56	36,468	36,468	1.00	2.66	35,748	35,748	1.00	2.81	34,812	34,812	1.00	2.98	33,624	33,624	1.00	3.20	31,860	31,860	1.00	3.51
32	90	20	68	39,276	36,370	0.93	2.62	38,736	35,870	0.93	2.72	38,016	35,203	0.93	2.86	37,008	34,269	0.93	3.04	35,748	33,103	0.93	3.26	33,804	31,303	0.93	3.58
32	90	22	72	41,580	33,513	0.81	2.68	41,076	33,107	0.81	2.78	40,284	32,469	0.81	2.92	39,240	31,627	0.81	3.10	37,872	30,525	0.81	3.32	35,748	28,813	0.81	3.65

PEAD-A42AA7/PUY-A42NKA7, PUZ-A42NKA7 CAPACITY (Btu/h): 42,000 INPUT (kW): 3.92 SHF: 0.76

Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Indoor intake air W.B.(°C)	Indoor intake air W.B.(°F)	Outdoor intake air °C/°F D.B.																							
				20/68				25/77				30/86				35/95				40/104				46/115			
				CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
19	66	16	61	40,530	26,588	0.66	3.25	39,942	26,202	0.66	3.40	39,144	25,678	0.66	3.59	38,136	25,017	0.66	3.82	36,834	24,163	0.66	4.10	34,902	22,896	0.66	4.50
19	66	18	64	43,134	23,120	0.54	3.34	42,546	22,805	0.54	3.48	41,706	22,354	0.54	3.67	40,614	21,769	0.54	3.90	39,228	21,026	0.54	4.17	37,170	19,923	0.54	4.59
20	68	16	61	40,530	28,209	0.70	3.25	39,942	27,800	0.70	3.40	39,144	27,244	0.70	3.59	38,136	26,543	0.70	3.82	36,834	25,636	0.70	4.10	34,902	24,292	0.70	4.50
20	68	18	64	43,134	24,845	0.58	3.34	42,546	24,506	0.58	3.48	41,706	24,023	0.58	3.67	40,614	23,394	0.58	3.90	39,228	22,595	0.58	4.17	37,170	21,410	0.58	4.59
20	68	20	68	45,822	20,895	0.46	3.42	45,192	20,608	0.46	3.56	44,352	20,225	0.46	3.74	43,176	19,688	0.46	3.97	41,706	19,018	0.46	4.26	39,438	17,984	0.46	4.67
22	72	16	61	40,530	31,451	0.78	3.25	39,942	30,995	0.78	3.40	39,144	30,376	0.78	3.59	38,136	29,594	0.78	3.82	36,834	28,583	0.78	4.10	34,902	27,084	0.78	4.50
22	72	18	64	43,134	28,296	0.66	3.34	42,546	27,910	0.66	3.48	41,706	27,359	0.66	3.67	40,614	26,643	0.66	3.90	39,228	25,734	0.66	4.17	37,170	24,384	0.66	4.59
22	72	20	68	45,822	24,561	0.54	3.42	45,192	24,223	0.54	3.56	44,352	23,773	0.54	3.74	43,176	23,142	0.54	3.97	41,706	22,354	0.54	4.26	39,438	21,139	0.54	4.67
24	75	16	61	40,530	34,694	0.86	3.25	39,942	34,190	0.86	3.40	39,144	33,507	0.86	3.59	38,136	32,644	0.86	3.82	36,834	31,530	0.86	4.10	34,902	29,876	0.86	4.50
24	75	18	64	43,134	31,747	0.74	3.34	42,546	31,314	0.74	3.48	41,706	30,696	0.74	3.67	40,614	29,892										

PVA-A12AA7/PUY-A12NKA7, PUZ-A12NKA7

CAPACITY (Btu/h): 12,000 INPUT (kW): 0.89 SHF: 0.77

Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Indoor intake air W.B.(°C)	Indoor intake air W.B.(°F)	Outdoor intake air °C/°F D.B.																							
				20/68				25/77				30/86				35/95				40/104				46/115			
				CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
19	66	16	61	11,580	7,712	0.67	0.74	11,412	7,600	0.67	0.77	11,184	7,449	0.67	0.81	10,896	7,257	0.67	0.87	10,524	7,009	0.67	0.93	9,972	6,641	0.67	1.02
19	66	18	64	12,324	6,729	0.55	0.76	12,156	6,637	0.55	0.79	11,916	6,506	0.55	0.83	11,604	6,336	0.55	0.88	11,208	6,120	0.55	0.95	10,620	5,799	0.55	1.04
20	68	16	61	11,580	8,175	0.71	0.74	11,412	8,057	0.71	0.77	11,184	7,896	0.71	0.81	10,896	7,693	0.71	0.87	10,524	7,430	0.71	0.93	9,972	7,040	0.71	1.02
20	68	18	64	12,324	7,222	0.59	0.76	12,156	7,123	0.59	0.79	11,916	6,983	0.59	0.83	11,604	6,800	0.59	0.88	11,208	6,568	0.59	0.95	10,620	6,223	0.59	1.04
20	68	20	68	13,092	6,101	0.47	0.78	12,912	6,017	0.47	0.81	12,672	5,905	0.47	0.85	12,336	5,749	0.47	0.90	11,916	5,553	0.47	0.97	11,268	5,251	0.47	1.06
22	72	16	61	11,580	9,102	0.79	0.74	11,412	8,970	0.79	0.77	11,184	8,791	0.79	0.81	10,896	8,564	0.79	0.87	10,524	8,272	0.79	0.93	9,972	7,838	0.79	1.02
22	72	18	64	12,324	8,208	0.67	0.76	12,156	8,096	0.67	0.79	11,916	7,936	0.67	0.83	11,604	7,728	0.67	0.88	11,208	7,465	0.67	0.95	10,620	7,073	0.67	1.04
22	72	20	68	13,092	7,148	0.55	0.78	12,912	7,050	0.55	0.81	12,672	6,919	0.55	0.85	12,336	6,735	0.55	0.90	11,916	6,506	0.55	0.97	11,268	6,152	0.55	1.06
24	75	16	61	11,580	10,028	0.87	0.74	11,412	9,883	0.87	0.77	11,184	9,685	0.87	0.81	10,896	9,436	0.87	0.87	10,524	9,114	0.87	0.93	9,972	8,636	0.87	1.02
24	75	18	64	12,324	9,194	0.75	0.76	12,156	9,068	0.75	0.79	11,916	8,889	0.75	0.83	11,604	8,657	0.75	0.88	11,208	8,361	0.75	0.95	10,620	7,923	0.75	1.04
24	75	20	68	13,092	8,196	0.63	0.78	12,912	8,083	0.63	0.81	12,672	7,933	0.63	0.85	12,336	7,722	0.63	0.90	11,916	7,459	0.63	0.97	11,268	7,054	0.63	1.06
24	75	22	72	13,860	7,013	0.51	0.79	13,692	6,928	0.51	0.83	13,428	6,795	0.51	0.87	13,080	6,618	0.51	0.92	12,624	6,388	0.51	0.98	11,916	6,029	0.51	1.08
26	79	16	61	11,580	10,955	0.95	0.74	11,412	10,796	0.95	0.77	11,184	10,580	0.95	0.81	10,896	10,308	0.95	0.87	10,524	9,956	0.95	0.93	9,972	9,434	0.95	1.02
26	79	18	64	12,324	10,180	0.83	0.76	12,156	10,041	0.83	0.79	11,916	9,843	0.83	0.83	11,604	9,585	0.83	0.88	11,208	9,258	0.83	0.95	10,620	8,772	0.83	1.04
26	79	20	68	13,092	9,243	0.71	0.78	12,912	9,116	0.71	0.81	12,672	8,946	0.71	0.85	12,336	8,709	0.71	0.90	11,916	8,413	0.71	0.97	11,268	7,955	0.71	1.06
26	79	22	72	13,860	8,122	0.59	0.79	13,692	8,024	0.59	0.83	13,428	7,869	0.59	0.87	13,080	7,665	0.59	0.92	12,624	7,398	0.59	0.98	11,916	6,983	0.59	1.08
27	81	16	61	11,580	11,418	0.99	0.74	11,412	11,252	0.99	0.77	11,184	11,027	0.99	0.81	10,896	10,743	0.99	0.87	10,524	10,377	0.99	0.93	9,972	9,832	0.99	1.02
27	81	18	64	12,324	10,673	0.87	0.76	12,156	10,527	0.87	0.79	11,916	10,319	0.87	0.83	11,604	10,049	0.87	0.88	11,208	9,706	0.87	0.95	10,620	9,197	0.87	1.04
27	81	20	68	13,092	9,767	0.75	0.78	12,912	9,632	0.75	0.81	12,672	9,453	0.75	0.85	12,336	9,203	0.75	0.90	11,916	8,889	0.75	0.97	11,268	8,406	0.75	1.06
27	81	22	72	13,860	8,676	0.63	0.79	13,692	8,571	0.63	0.83	13,428	8,406	0.63	0.87	13,080	8,188	0.63	0.92	12,624	7,903	0.63	0.98	11,916	7,459	0.63	1.08
28	82	16	61	11,580	11,580	1.00	0.74	11,412	11,412	1.00	0.77	11,184	11,184	1.00	0.81	10,896	10,896	1.00	0.87	10,524	10,524	1.00	0.93	9,972	9,972	1.00	1.02
28	82	18	64	12,324	11,166	0.91	0.76	12,156	11,013	0.91	0.79	11,916	10,796	0.91	0.83	11,604	10,513	0.91	0.88	11,208	10,154	0.91	0.95	10,620	9,622	0.91	1.04
28	82	20	68	13,092	10,290	0.79	0.78	12,912	10,149	0.79	0.81	12,672	9,960	0.79	0.85	12,336	9,696	0.79	0.90	11,916	9,366	0.79	0.97	11,268	8,857	0.79	1.06
28	82	22	72	13,860	9,231	0.67	0.79	13,692	9,119	0.67	0.83	13,428	8,943	0.67	0.87	13,080	8,711	0.67	0.92	12,624	8,408	0.67	0.98	11,916	7,936	0.67	1.08
30	86	16	61	11,580	11,580	1.00	0.74	11,412	11,412	1.00	0.77	11,184	11,184	1.00	0.81	10,896	10,896	1.00	0.87	10,524	10,524	1.00	0.93	9,972	9,972	1.00	1.02
30	86	18	64	12,324	12,151	0.99	0.76	12,156	11,986	0.99	0.79	11,916	11,749	0.99	0.83	11,604	11,442	0.99	0.88	11,208	11,051	0.99	0.95	10,620	10,471	0.99	1.04
30	86	20	68	13,092	11,338	0.87	0.78	12,912	11,182	0.87	0.81	12,672	11,017	0.87	0.85	12,336	10,683	0.87	0.90	11,916	10,319	0.87	0.97	11,268	9,758	0.87	1.06
30	86	22	72	13,860	10,340	0.75	0.79	13,692	10,214	0.75	0.83	13,428	10,017	0.75	0.87	13,080	9,758	0.75	0.92	12,624	9,418	0.75	0.98	11,916	8,889	0.75	1.08
32	90	16	61	11,580	11,580	1.00	0.74	11,412	11,412	1.00	0.77	11,184	11,184	1.00	0.81	10,896	10,896	1.00	0.87	10,524	10,524	1.00	0.93	9,972	9,972	1.00	1.02
32	90	18	64	12,324	12,324	1.00	0.76	12,156	12,156	1.00	0.79	11,916	11,916	1.00	0.83	11,604	11,604	1.00	0.88	11,208	11,208	1.00	0.95	10,620	10,620	1.00	1.04
32	90	20	68	13,092	12,385	0.95	0.78	12,912	12,215	0.95	0.81	12,672	11,988	0.95	0.85	12,336	11,670	0.95	0.90	11,916	11,273	0.95	0.97	11,268	10,660	0.95	1.06
32	90	22	72	13,860	11,448	0.83	0.79	13,692	11,310	0.83	0.83	13,428	11,092	0.83	0.87	13,080	10,804	0.83	0.92	12,624	10,427	0.83	0.98	11,916	9,843	0.83	1.08

PVA-A18AA7/PUY-A18NKA7, PUZ-A18NKA7

CAPACITY (Btu/h): 18,000 INPUT (kW): 1.57 SHF: 0.76

Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Indoor intake air W.B.(°C)	Indoor intake air W.B.(°F)	Outdoor intake air °C/°F D.B.																							
				20/68				25/77				30/86				35/95				40/104				46/115			
				CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
19	66	16	61	17,370	11,395	0.66	1.30	17,118	11,229	0.66	1.36	16,776	11,005	0.66	1.44	16,344	10,722	0.66	1.53	15,786	10,356	0.66	1.64	14,958	9,812	0.66	1.80
19	66	18	64	18,486	9,908	0.54	1.34	18,234	9,773	0.54	1.39	17,874	9,580	0.54	1.47	17,406	9,330	0.54	1.56	16,812	9,011	0.54	1.67	15,930	8,538	0.54	1.84
20	68	16	61	17,370	12,090	0.70	1.30	17,118	11,914	0.70	1.36	16,776	11,676	0.70	1.44	16,344	11,375	0.70	1.53	15,786	10,987	0.70	1.64	14,958	10,411	0.70	1.80
20	68	18	64	18,486	10,648	0.58	1.34	18,234	10,503	0.58	1.39	17,874	10,295	0.58	1.47	17,406	10,026	0.58	1.56	16,812	9,684	0.58	1.67	15,930	9,176	0.58	1.84
20	68	20	68	19,638	8,955	0.46	1.37	19,368	8,832	0.46	1.43	19,008	8,668	0.46	1.50	18,504	8,438	0.46	1.59	17,874	8,151	0.46	1.71	16,902	7,707	0.46	1.87
22	72	16	61	17,370	13,479	0.78	1.30	17,118	13,284	0.78	1.36	16,776	13,018	0.78	1.44	16,344	12,683	0.78	1.53	15,786	12,250	0.78	1.64	14,958	11,607	0.78	1.80
22	72	18	64	18,486	12,127	0.66	1.34	18,234	11,962	0.66	1.39	17,874	11,725	0.66	1.47	17,406	11,418	0.66	1.56	16,812	11,029	0.66	1.67	15,930	10,450	0.66	1.84
22	72	20	68	19,638	10,526	0.54	1.37	19,368	10,381	0.54	1.43	19,008	10,188	0.54	1.50	18,504	9,918	0.54	1.59	17,874	9,580	0.54	1.71	16,902	9,059	0.54	1.87
24	75	16	61	17,370	14,869	0.86	1.30	17,118	14,653	0.86	1.36	16,776	14,360	0.86	1.44	16,344	13,990	0.86	1.53	15,786	13,513	0.86	1.64	14,958	12,804	0.86	1.80
24	75	18	64	18,486	13,606	0.74	1.34	18,234	13,420	0.74	1.39	17,874	13,155	0.74	1.47	17,406	12,811	0.74	1.56	16,812	12,374						

PVA-A24AA7/PUY-A24NHA7, PUZ-A24NHA7

CAPACITY (Btu/h): 24,000 INPUT (kW): 2.05 SHF: 0.83

Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Indoor intake air W.B.(°C)	Indoor intake air W.B.(°F)	Outdoor intake air °C/°F D.B.																							
				20/68				25/77				30/86				35/95				40/104				46/115			
				CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
19	66	16	61	23,160	16,814	0.73	1.63	22,824	16,570	0.73	1.70	22,368	16,239	0.73	1.79	21,792	15,821	0.73	1.91	21,048	15,281	0.73	2.05	19,944	14,479	0.73	2.25
19	66	18	64	24,648	14,937	0.61	1.67	24,312	14,733	0.61	1.74	23,832	14,442	0.61	1.83	23,208	14,064	0.61	1.95	22,416	13,584	0.61	2.09	21,240	12,871	0.61	2.29
20	68	16	61	23,160	17,741	0.77	1.63	22,824	17,483	0.77	1.70	22,368	17,134	0.77	1.79	21,792	16,693	0.77	1.91	21,048	16,123	0.77	2.05	19,944	15,277	0.77	2.25
20	68	18	64	24,648	15,923	0.65	1.67	24,312	15,706	0.65	1.74	23,832	15,395	0.65	1.83	23,208	14,992	0.65	1.95	22,416	14,481	0.65	2.09	21,240	13,721	0.65	2.29
20	68	20	68	26,184	13,773	0.53	1.71	25,824	13,583	0.53	1.78	25,344	13,331	0.53	1.87	24,672	12,977	0.53	1.99	23,832	12,536	0.53	2.13	22,536	11,854	0.53	2.34
22	72	16	61	23,160	19,593	0.85	1.63	22,824	19,309	0.85	1.70	22,368	18,923	0.85	1.79	21,792	18,436	0.85	1.91	21,048	17,807	0.85	2.05	19,944	16,873	0.85	2.25
22	72	18	64	24,648	17,894	0.73	1.67	24,312	17,651	0.73	1.74	23,832	17,302	0.73	1.83	23,208	16,849	0.73	1.95	22,416	16,274	0.73	2.09	21,240	15,420	0.73	2.29
22	72	20	68	26,184	15,868	0.61	1.71	25,824	15,649	0.61	1.78	25,344	15,358	0.61	1.87	24,672	14,951	0.61	1.99	23,832	14,442	0.61	2.13	22,536	13,657	0.61	2.34
24	75	16	61	23,160	21,446	0.93	1.63	22,824	21,135	0.93	1.70	22,368	20,713	0.93	1.79	21,792	20,179	0.93	1.91	21,048	19,490	0.93	2.05	19,944	18,668	0.93	2.25
24	75	18	64	24,648	19,866	0.81	1.67	24,312	19,595	0.81	1.74	23,832	19,209	0.81	1.83	23,208	18,706	0.81	1.95	22,416	18,067	0.81	2.09	21,240	17,119	0.81	2.29
24	75	20	68	26,184	17,962	0.69	1.71	25,824	17,715	0.69	1.78	25,344	17,386	0.69	1.87	24,672	16,925	0.69	1.99	23,832	16,349	0.69	2.13	22,536	15,460	0.69	2.34
24	75	22	72	27,720	15,690	0.57	1.75	27,384	15,499	0.57	1.82	26,856	15,200	0.57	1.91	26,160	14,807	0.57	2.02	25,248	14,290	0.57	2.17	23,832	13,489	0.57	2.38
26	79	16	61	23,160	23,160	1.00	1.63	22,824	22,824	1.00	1.70	22,368	22,368	1.00	1.79	21,792	21,792	1.00	1.91	21,048	21,048	1.00	2.05	19,944	19,944	1.00	2.25
26	79	18	64	24,648	21,838	0.89	1.67	24,312	21,540	0.89	1.74	23,832	21,115	0.89	1.83	23,208	20,562	0.89	1.95	22,416	19,861	0.89	2.09	21,240	18,819	0.89	2.29
26	79	20	68	26,184	20,057	0.77	1.71	25,824	19,781	0.77	1.78	25,344	19,414	0.77	1.87	24,672	18,899	0.77	1.99	23,832	18,255	0.77	2.13	22,536	17,263	0.77	2.34
26	79	22	72	27,720	17,907	0.65	1.75	27,384	17,690	0.65	1.82	26,856	17,349	0.65	1.91	26,160	16,899	0.65	2.02	25,248	16,310	0.65	2.17	23,832	15,395	0.65	2.38
27	81	16	61	23,160	23,160	1.00	1.63	22,824	22,824	1.00	1.70	22,368	22,368	1.00	1.79	21,792	21,792	1.00	1.91	21,048	21,048	1.00	2.05	19,944	19,944	1.00	2.25
27	81	18	64	24,648	22,824	0.93	1.67	24,312	22,513	0.93	1.74	23,832	22,068	0.93	1.83	23,208	21,491	0.93	1.95	22,416	20,757	0.93	2.09	21,240	19,644	0.93	2.29
27	81	20	68	26,184	21,104	0.81	1.71	25,824	20,814	0.81	1.78	25,344	20,427	0.81	1.87	24,672	19,886	0.81	1.99	23,832	19,209	0.81	2.13	22,536	18,164	0.81	2.34
27	81	22	72	27,720	19,016	0.69	1.75	27,384	18,785	0.69	1.82	26,856	18,423	0.69	1.91	26,160	17,946	0.69	2.02	25,248	17,320	0.69	2.17	23,832	16,349	0.69	2.38
28	82	16	61	23,160	23,160	1.00	1.63	22,824	22,824	1.00	1.70	22,368	22,368	1.00	1.79	21,792	21,792	1.00	1.91	21,048	21,048	1.00	2.05	19,944	19,944	1.00	2.25
28	82	18	64	24,648	23,810	0.97	1.67	24,312	23,485	0.97	1.74	23,832	23,022	0.97	1.83	23,208	22,419	0.97	1.95	22,416	21,654	0.97	2.09	21,240	20,518	0.97	2.29
28	82	20	68	26,184	22,152	0.85	1.71	25,824	21,847	0.85	1.78	25,344	21,441	0.85	1.87	24,672	20,873	0.85	1.99	23,832	20,162	0.85	2.13	22,536	19,065	0.85	2.34
28	82	22	72	27,720	20,125	0.73	1.75	27,384	19,881	0.73	1.82	26,856	19,497	0.73	1.91	26,160	18,992	0.73	2.02	25,248	18,330	0.73	2.17	23,832	17,302	0.73	2.38
30	86	16	61	23,160	23,160	1.00	1.63	22,824	22,824	1.00	1.70	22,368	22,368	1.00	1.79	21,792	21,792	1.00	1.91	21,048	21,048	1.00	2.05	19,944	19,944	1.00	2.25
30	86	18	64	24,648	24,648	1.00	1.67	24,312	24,312	1.00	1.74	23,832	23,832	1.00	1.83	23,208	23,208	1.00	1.95	22,416	22,416	1.00	2.09	21,240	21,240	1.00	2.29
30	86	20	68	26,184	24,246	0.93	1.71	25,824	23,913	0.93	1.78	25,344	23,469	0.93	1.87	24,672	22,846	0.93	1.99	23,832	22,068	0.93	2.13	22,536	20,868	0.93	2.34
30	86	22	72	27,720	22,342	0.81	1.75	27,384	22,072	0.81	1.82	26,856	21,646	0.81	1.91	26,160	21,085	0.81	2.02	25,248	20,350	0.81	2.17	23,832	19,209	0.81	2.38
32	90	16	61	23,160	23,160	1.00	1.63	22,824	22,824	1.00	1.70	22,368	22,368	1.00	1.79	21,792	21,792	1.00	1.91	21,048	21,048	1.00	2.05	19,944	19,944	1.00	2.25
32	90	18	64	24,648	24,648	1.00	1.67	24,312	24,312	1.00	1.74	23,832	23,832	1.00	1.83	23,208	23,208	1.00	1.95	22,416	22,416	1.00	2.09	21,240	21,240	1.00	2.29
32	90	20	68	26,184	26,184	1.00	1.71	25,824	25,824	1.00	1.78	25,344	25,344	1.00	1.87	24,672	24,672	1.00	1.99	23,832	23,832	1.00	2.13	22,536	22,536	1.00	2.34
32	90	22	72	27,720	24,560	0.89	1.75	27,384	24,262	0.89	1.82	26,856	23,794	0.89	1.91	26,160	23,178	0.89	2.02	25,248	22,370	0.89	2.17	23,832	21,115	0.89	2.38

PVA-A30AA7/PUY-A30NHA7, PUZ-A30NHA7

CAPACITY (Btu/h): 30,000 INPUT (kW): 3.00 SHF: 0.74

Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Indoor intake air W.B.(°C)	Indoor intake air W.B.(°F)	Outdoor intake air °C/°F D.B.																							
				20/68				25/77				30/86				35/95				40/104				46/115			
				CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
19	66	16	61	28,950	18,412	0.64	2.49	28,530	18,145	0.64	2.60	27,960	17,783	0.64	2.75	27,240	17,325	0.64	2.92	26,310	16,733	0.64	3.14	24,930	15,855	0.64	3.45
19	66	18	64	30,810	15,898	0.52	2.56	30,390	15,681	0.52	2.66	29,790	15,372	0.52	2.81	29,010	14,969	0.52	2.98	28,020	14,458	0.52	3.20	26,550	13,700	0.52	3.51
20	68	16	61	28,950	19,570	0.68	2.49	28,530	19,286	0.68	2.60	27,960	18,901	0.68	2.75	27,240	18,414	0.68	2.92	26,310	17,786	0.68	3.14	24,930	16,853	0.68	3.45
20	68	18	64	30,810	17,130	0.56	2.56	30,390	16,897	0.56	2.66	29,790	16,563	0.56	2.81	29,010	16,130	0.56	2.98	28,020	15,579	0.56	3.20	26,550	14,762	0.56	3.51
20	68	20	68	32,730	14,270	0.44	2.62	32,280	14,074	0.44	2.72	31,680	13,812	0.44	2.86	30,840	13,446	0.44	3.04	29,790	12,988	0.44	3.26	28,170	12,282	0.44	3.58
22	72	16	61	28,950	21,886	0.76	2.49	28,530	21,569	0.76	2.60	27,960	21,138	0.76	2.75	27,240	20,593	0.76	2.92	26,310	19,890	0.76	3.14	24,930	18,847	0.76	3.45
22	72	18	64	30,810	19,595	0.64	2.56	30,390	19,328	0.64	2.66	29,790	18,946	0.64	2.81	29,010	18,450	0.64	2.98	28,020	17,821	0.64	3.20	26,550	16,886	0.64	3.51
22	72	20	68	32,730	16,889	0.52	2.62	32,280	16,656	0.52	2.72	31,680	16,347	0.52	2.86	30,840	15,913	0.52	3.04	29,790	15,372	0.52	3.26	28,170	14,536	0.52	3.58
24	75	16	61	28,950	24,202	0.84	2.49	28,530	23,851	0.84	2.60	27,960	23,375	0.84	2.75	27,240	22,773	0.84	2.92	26,310	21,995	0.84	3.14	24,930	20,841	0.84	3.45
24	75	18	64	30,810	22,060	0.72	2.56	30,390	21,759	0.72																	

PVA-A36AA7/PUY-A36NKA7, PUZ-A36NKA7

CAPACITY (Btu/h): 36,000 INPUT (kW): 3.25 SHF: 0.77

Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Indoor intake air W.B.(°C)	Indoor intake air W.B.(°F)	Outdoor intake air °C/°F D.B.																							
				20/68				25/77				30/86				35/95				40/104				46/115			
				CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
19	66	16	61	34,740	23,137	0.67	2.70	34,236	22,801	0.67	2.82	33,552	22,346	0.67	2.97	32,688	21,770	0.67	3.17	31,572	21,027	0.67	3.40	29,916	19,924	0.67	3.73
19	66	18	64	36,972	20,187	0.55	2.77	36,468	19,912	0.55	2.89	35,748	19,518	0.55	3.04	34,812	19,007	0.55	3.23	33,624	18,359	0.55	3.46	31,860	17,396	0.55	3.80
20	68	16	61	34,740	24,526	0.71	2.70	34,236	24,171	0.71	2.82	33,552	23,688	0.71	2.97	32,688	23,078	0.71	3.17	31,572	22,290	0.71	3.40	29,916	21,121	0.71	3.73
20	68	18	64	36,972	21,666	0.59	2.77	36,468	21,370	0.59	2.89	35,748	20,948	0.59	3.04	34,812	20,400	0.59	3.23	33,624	19,704	0.59	3.46	31,860	18,670	0.59	3.80
20	68	20	68	39,276	18,303	0.47	2.83	38,736	18,051	0.47	2.95	38,016	17,715	0.47	3.10	37,008	17,246	0.47	3.29	35,748	16,659	0.47	3.53	33,804	15,753	0.47	3.87
22	72	16	61	34,740	27,306	0.79	2.70	34,236	26,909	0.79	2.82	33,552	26,372	0.79	2.97	32,688	25,693	0.79	3.17	31,572	24,816	0.79	3.40	29,916	23,514	0.79	3.73
22	72	18	64	36,972	24,623	0.67	2.77	36,468	24,288	0.67	2.89	35,748	23,808	0.67	3.04	34,812	23,185	0.67	3.23	33,624	22,394	0.67	3.46	31,860	21,219	0.67	3.80
22	72	20	68	39,276	21,445	0.55	2.83	38,736	21,150	0.55	2.95	38,016	20,757	0.55	3.10	37,008	20,206	0.55	3.29	35,748	19,518	0.55	3.53	33,804	18,457	0.55	3.87
24	75	16	61	34,740	30,085	0.87	2.70	34,236	29,648	0.87	2.82	33,552	29,056	0.87	2.97	32,688	28,308	0.87	3.17	31,572	27,341	0.87	3.40	29,916	25,907	0.87	3.73
24	75	18	64	36,972	27,581	0.75	2.77	36,468	27,205	0.75	2.89	35,748	26,668	0.75	3.04	34,812	25,970	0.75	3.23	33,624	25,084	0.75	3.46	31,860	23,768	0.75	3.80
24	75	20	68	39,276	24,587	0.63	2.83	38,736	24,249	0.63	2.95	38,016	23,798	0.63	3.10	37,008	23,167	0.63	3.29	35,748	22,378	0.63	3.53	33,804	21,161	0.63	3.87
24	75	22	72	41,580	21,039	0.51	2.90	41,076	20,784	0.51	3.01	40,284	20,384	0.51	3.16	39,240	19,855	0.51	3.36	37,872	19,163	0.51	3.59	35,748	18,088	0.51	3.95
26	79	16	61	34,740	32,864	0.95	2.70	34,236	32,387	0.95	2.82	33,552	31,740	0.95	2.97	32,688	30,923	0.95	3.17	31,572	29,867	0.95	3.40	29,916	28,301	0.95	3.73
26	79	18	64	36,972	30,539	0.83	2.77	36,468	30,123	0.83	2.89	35,748	29,528	0.83	3.04	34,812	28,755	0.83	3.23	33,624	27,773	0.83	3.46	31,860	26,316	0.83	3.80
26	79	20	68	39,276	27,729	0.71	2.83	38,736	27,348	0.71	2.95	38,016	26,839	0.71	3.10	37,008	26,128	0.71	3.29	35,748	25,238	0.71	3.53	33,804	23,866	0.71	3.87
26	79	22	72	41,580	24,366	0.59	2.90	41,076	24,071	0.59	3.01	40,284	23,606	0.59	3.16	39,240	22,995	0.59	3.36	37,872	22,193	0.59	3.59	35,748	20,948	0.59	3.95
27	81	16	61	34,740	34,254	0.99	2.70	34,236	33,757	0.99	2.82	33,552	33,082	0.99	2.97	32,688	32,230	0.99	3.17	31,572	31,130	0.99	3.40	29,916	29,497	0.99	3.73
27	81	18	64	36,972	32,018	0.87	2.77	36,468	31,581	0.87	2.89	35,748	30,956	0.87	3.04	34,812	30,147	0.87	3.23	33,624	29,118	0.87	3.46	31,860	27,591	0.87	3.80
27	81	20	68	39,276	29,300	0.75	2.83	38,736	28,897	0.75	2.95	38,016	28,360	0.75	3.10	37,008	27,608	0.75	3.29	35,748	26,668	0.75	3.53	33,804	25,218	0.75	3.87
27	81	22	72	41,580	26,209	0.63	2.90	41,076	25,714	0.63	3.01	40,284	25,218	0.63	3.16	39,240	24,564	0.63	3.36	37,872	23,708	0.63	3.59	35,748	22,378	0.63	3.95
28	82	16	61	34,740	34,740	1.00	2.70	34,236	34,236	1.00	2.82	33,552	33,552	1.00	2.97	32,688	32,688	1.00	3.17	31,572	31,572	1.00	3.40	29,916	29,916	1.00	3.73
28	82	18	64	36,972	33,497	0.91	2.77	36,468	33,040	0.91	2.89	35,748	32,388	0.91	3.04	34,812	31,540	0.91	3.23	33,624	30,463	0.91	3.46	31,860	28,865	0.91	3.80
28	82	20	68	39,276	30,871	0.79	2.83	38,736	30,446	0.79	2.95	38,016	29,881	0.79	3.10	37,008	29,088	0.79	3.29	35,748	28,098	0.79	3.53	33,804	26,570	0.79	3.87
28	82	22	72	41,580	27,692	0.67	2.90	41,076	27,357	0.67	3.01	40,284	26,829	0.67	3.16	39,240	26,134	0.67	3.36	37,872	25,223	0.67	3.59	35,748	23,808	0.67	3.95
30	86	16	61	34,740	34,740	1.00	2.70	34,236	34,236	1.00	2.82	33,552	33,552	1.00	2.97	32,688	32,688	1.00	3.17	31,572	31,572	1.00	3.40	29,916	29,916	1.00	3.73
30	86	18	64	36,972	36,454	0.99	2.77	36,468	35,957	0.99	2.89	35,748	35,248	0.99	3.04	34,812	34,325	0.99	3.23	33,624	33,153	0.99	3.46	31,860	31,414	0.99	3.80
30	86	20	68	39,276	34,013	0.87	2.83	38,736	33,545	0.87	2.95	38,016	32,922	0.87	3.10	37,008	32,049	0.87	3.29	35,748	30,958	0.87	3.53	33,804	29,274	0.87	3.87
30	86	22	72	41,580	31,019	0.75	2.90	41,076	30,643	0.75	3.01	40,284	30,052	0.75	3.16	39,240	29,273	0.75	3.36	37,872	28,253	0.75	3.59	35,748	26,668	0.75	3.95
32	90	16	61	34,740	34,740	1.00	2.70	34,236	34,236	1.00	2.82	33,552	33,552	1.00	2.97	32,688	32,688	1.00	3.17	31,572	31,572	1.00	3.40	29,916	29,916	1.00	3.73
32	90	18	64	36,972	36,972	1.00	2.77	36,468	36,468	1.00	2.89	35,748	35,748	1.00	3.04	34,812	34,812	1.00	3.23	33,624	33,624	1.00	3.46	31,860	31,860	1.00	3.80
32	90	20	68	39,276	37,155	0.95	2.83	38,736	36,644	0.95	2.95	38,016	35,963	0.95	3.10	37,008	35,010	0.95	3.29	35,748	33,818	0.95	3.53	33,804	31,979	0.95	3.87
32	90	22	72	41,580	34,345	0.83	2.90	41,076	33,929	0.83	3.01	40,284	33,275	0.83	3.16	39,240	32,412	0.83	3.36	37,872	31,282	0.83	3.59	35,748	29,528	0.83	3.95

PVA-A42AA7/PUY-A42NKA7, PUZ-A42NKA7

CAPACITY (Btu/h): 42,000 INPUT (kW): 4.15 SHF: 0.81

Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Indoor intake air W.B.(°C)	Indoor intake air W.B.(°F)	Outdoor intake air °C/°F D.B.																							
				20/68				25/77				30/86				35/95				40/104				46/115			
				CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
19	66	16	61	40,530	28,614	0.71	3.44	39,942	28,199	0.71	3.60	39,144	27,636	0.71	3.80	38,136	26,924	0.71	4.04	36,834	26,005	0.71	4.34	34,902	24,641	0.71	4.77
19	66	18	64	43,134	25,277	0.59	3.54	42,546	24,932	0.59	3.69	41,706	24,440	0.59	3.88	40,614	23,800	0.59	4.13	39,228	22,988	0.59	4.42	37,170	21,782	0.59	4.86
20	68	16	61	40,530	30,235	0.75	3.44	39,942	29,797	0.75	3.60	39,144	29,201	0.75	3.80	38,136	28,449	0.75	4.04	36,834	27,478	0.75	4.34	34,902	26,037	0.75	4.77
20	68	18	64	43,134	27,002	0.63	3.54	42,546	26,634	0.63	3.69	41,706	26,108	0.63	3.88	40,614	25,424	0.63	4.13	39,228	24,557	0.63	4.42	37,170	23,268	0.63	4.86
20	68	20	68	45,822	23,186	0.51	3.62	45,192	22,867	0.51	3.77	44,352	22,442	0.51	3.96	43,176	21,847	0.51	4.20	41,706	21,103	0.51	4.51	39,438	19,956	0.51	4.95
22	72	16	61	40,530	33,478	0.83	3.44	39,942	32,992	0.83	3.60	39,144	32,333	0.83	3.80	38,136	31,500	0.83	4.04	36,834	30,425	0.83	4.34	34,902	28,829	0.83	4.77
22	72	18	64	43,134	30,453	0.71	3.54	42,546	30,037	0.71	3.69	41,706	29,444	0.71	3.88	40,614	28,673	0.71	4.13	39,228	27,695	0.71	4.42	37,170	26,242	0.71	4.86
22	72	20	68	45,822	26,852	0.59	3.62	45,192	26,483	0.59	3.77	44,352	25,990	0.59	3.96	43,176	25,301	0.59	4.20	41,706	24,440	0.59	4.51	39,438	23,111	0.59	4.95
24	75	16	61	40,530	36,720	0.91	3.44	39,942	36,187	0.91	3.60	39,144	35,464	0.91	3.80	38,136	34,551	0.91	4.04	36,834	33,372	0.91	4.34	34,902	31,621	0.91	4.77
24	75	18	64	43,134	33,903	0.79																					

8-1-2. HEATING CAPACITY PUZ-A-NKA7

Model Name	Capacity Btu/h	Input kW	Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Outdoor intake air °C/°F W.B.											
					-10/14		-5/23		0/32		5/41		10/50		15/59	
					CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.
PLA-A12EA7	14,000	0.83	15	59	8,890	0.49	9,660	0.54	10,780	0.62	14,140	0.75	15,960	0.83	17,780	0.90
			20	68	8,540	0.53	9,240	0.58	10,220	0.67	13,650	0.81	15,400	0.90	17,150	0.96
			25	77	8,260	0.56	8,960	0.63	9,800	0.73	12,880	0.85	14,840	0.96	16,520	1.03
PLA-A18EA7	19,000	1.30	15	59	12,065	0.77	13,110	0.85	14,630	0.98	19,190	1.17	21,660	1.30	24,130	1.40
			20	68	11,590	0.83	12,540	0.91	13,870	1.05	18,525	1.26	20,900	1.40	23,275	1.51
			25	77	11,210	0.88	12,160	0.99	13,300	1.14	17,480	1.34	20,140	1.50	22,420	1.62
PLA-A24EA7	26,000	1.75	15	59	16,510	1.03	17,940	1.14	20,020	1.31	26,260	1.58	29,640	1.75	33,020	1.89
			20	68	15,860	1.12	17,160	1.23	18,980	1.42	25,350	1.70	28,600	1.89	31,850	2.03
			25	77	15,340	1.19	16,640	1.33	18,200	1.54	23,920	1.80	27,560	2.02	30,680	2.18
PLA-A30EA7	32,000	2.40	15	59	20,320	1.42	22,080	1.56	24,640	1.80	32,320	2.16	36,480	2.40	40,640	2.59
			20	68	19,520	1.54	21,120	1.68	23,360	1.94	31,200	2.33	35,200	2.59	39,200	2.78
			25	77	18,880	1.63	20,480	1.82	22,400	2.11	29,440	2.47	33,920	2.77	37,760	2.99
PLA-A36EA7	38,000	2.54	15	59	24,130	1.50	26,220	1.65	29,260	1.91	38,380	2.29	43,320	2.54	48,260	2.74
			20	68	23,180	1.63	25,080	1.78	27,740	2.06	37,050	2.46	41,800	2.74	46,550	2.95
			25	77	22,420	1.73	24,320	1.93	26,600	2.24	34,960	2.62	40,280	2.93	44,840	3.16
PLA-A42EA7	45,000	3.29	15	59	28,575	1.94	31,050	2.14	34,650	2.47	45,450	2.96	51,300	3.29	57,150	3.55
			20	68	27,450	2.11	29,700	2.30	32,850	2.66	43,875	3.19	49,500	3.55	55,125	3.82
			25	77	26,550	2.24	28,800	2.50	31,500	2.90	41,400	3.39	47,700	3.80	53,100	4.10

Model Name	Capacity Btu/h	Input kW	Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Outdoor intake air °C/°F W.B.											
					-10/14		-5/23		0/32		5/41		10/50		15/59	
					CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.
PKA-A12KA7	14,000	0.95	15	59	8,890	0.56	9,660	0.62	10,780	0.71	14,140	0.86	15,960	0.95	17,780	1.03
			20	68	8,540	0.61	9,240	0.67	10,220	0.77	13,650	0.92	15,400	1.03	17,150	1.10
			25	77	8,260	0.65	8,960	0.72	9,800	0.84	12,880	0.98	14,840	1.10	16,520	1.18
PKA-A18KA7	19,000	1.30	15	59	12,065	0.77	13,110	0.85	14,630	0.98	19,190	1.17	21,660	1.30	24,130	1.40
			20	68	11,590	0.83	12,540	0.91	13,870	1.05	18,525	1.26	20,900	1.40	23,275	1.51
			25	77	11,210	0.88	12,160	0.99	13,300	1.14	17,480	1.34	20,140	1.50	22,420	1.62
PKA-A24KA7	26,000	1.75	15	59	16,510	1.03	17,940	1.14	20,020	1.31	26,260	1.58	29,640	1.75	33,020	1.89
			20	68	15,860	1.12	17,160	1.23	18,980	1.42	25,350	1.70	28,600	1.89	31,850	2.03
			25	77	15,340	1.19	16,640	1.33	18,200	1.54	23,920	1.80	27,560	2.02	30,680	2.18
PKA-A30KA7	32,000	2.46	15	59	20,320	1.45	22,080	1.60	24,640	1.85	32,320	2.21	36,480	2.46	40,640	2.66
			20	68	19,520	1.57	21,120	1.72	23,360	1.99	31,200	2.39	35,200	2.66	39,200	2.85
			25	77	18,880	1.67	20,480	1.87	22,400	2.16	29,440	2.53	33,920	2.84	37,760	3.06
PKA-A36KA7	38,000	2.46	15	59	24,130	1.45	26,220	1.60	29,260	1.85	38,380	2.21	43,320	2.46	48,260	2.66
			20	68	23,180	1.57	25,080	1.72	27,740	1.99	37,050	2.39	41,800	2.66	46,550	2.85
			25	77	22,420	1.67	24,320	1.87	26,600	2.16	34,960	2.53	40,280	2.84	44,840	3.06

Model Name	Capacity Btu/h	Input kW	Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Outdoor intake air °C/°F W.B.											
					-10/14		-5/23		0/32		5/41		10/50		15/59	
					CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.
PCA-A24KA7	26,000	1.80	15	59	16,510	1.06	17,940	1.17	20,020	1.35	26,260	1.62	29,640	1.80	33,020	1.94
			20	68	15,860	1.15	17,160	1.26	18,980	1.46	25,350	1.75	28,600	1.94	31,850	2.09
			25	77	15,340	1.22	16,640	1.37	18,200	1.58	23,920	1.85	27,560	2.08	30,680	2.24
PCA-A30KA7	32,000	2.52	15	59	20,320	1.49	22,080	1.64	24,640	1.89	32,320	2.27	36,480	2.52	40,640	2.72
			20	68	19,520	1.61	21,120	1.76	23,360	2.04	31,200	2.44	35,200	2.72	39,200	2.92
			25	77	18,880	1.71	20,480	1.92	22,400	2.22	29,440	2.60	33,920	2.91	37,760	3.14
PCA-A36KA7	38,000	2.41	15	59	24,130	1.42	26,220	1.57	29,260	1.81	38,380	2.17	43,320	2.41	48,260	2.60
			20	68	23,180	1.54	25,080	1.69	27,740	1.95	37,050	2.34	41,800	2.60	46,550	2.80
			25	77	22,420	1.64	24,320	1.83	26,600	2.12	34,960	2.48	40,280	2.78	44,840	3.00
PCA-A42KA7	45,000	3.48	15	59	28,575	2.05	31,050	2.26	34,650	2.61	45,450	3.13	51,300	3.48	57,150	3.76
			20	68	27,450	2.23	29,700	2.44	32,850	2.82	43,875	3.38	49,500	3.76	55,125	4.04
			25	77	26,550	2.37	28,800	2.64	31,500	3.06	41,400	3.58	47,700	4.02	53,100	4.33

Model Name	Capacity Btu/h	Input kW	Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Outdoor intake air °C/°F W.B.											
					-10/14		-5/23		0/32		5/41		10/50		15/59	
					CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.
PEAD-A12AA7	14,000	1.03	15	59	8,890	0.61	9,660	0.67	10,780	0.77	14,140	0.93	15,960	1.03	17,780	1.11
			20	68	8,540	0.66	9,240	0.72	10,220	0.83	13,650	1.00	15,400	1.11	17,150	1.19
			25	77	8,260	0.70	8,960	0.78	9,800	0.91	12,880	1.06	14,840	1.19	16,520	1.28
PEAD-A18AA7	19,000	1.40	15	59	12,065	0.83	13,110	0.91	14,630	1.05	19,190	1.26	21,660	1.40	24,130	1.51
			20	68	11,590	0.90	12,540	0.98	13,870	1.13	18,525	1.36	20,900	1.51	23,275	1.62
			25	77	11,210	0.95	12,160	1.06	13,300	1.23	17,480	1.44	20,140	1.62	22,420	1.74
PEAD-A24AA7	26,000	1.75	15	59	16,510	1.03	17,940	1.14	20,020	1.31	26,260	1.58	29,640	1.75	33,020	1.89
			20	68	15,860	1.12	17,160	1.23	18,980	1.42	25,350	1.70	28,600	1.89	31,850	2.03
			25	77	15,340	1.19	16,640	1.33	18,200	1.54	23,920	1.80	27,560	2.02	30,680	2.18
PEAD-A30AA7	32,000	2.49	15	59	20,320	1.47	22,080	1.62	24,640	1.87	32,320	2.24	36,480	2.49	40,640	2.69
			20	68	19,520	1.59	21,120	1.74	23,360	2.02	31,200	2.42	35,200	2.69	39,200	2.89
			25	77	18,880	1.69	20,480	1.89	22,400	2.19	29,440	2.56	33,920	2.88	37,760	3.10
PEAD-A36AA7	38,000	2.41	15	59	24,130	1.42	26,220	1.57	29,260	1.81	38,380	2.17	43,320	2.41	48,260	2.60
			20	68	23,180	1.54	25,080	1.69	27,740	1.95	37,050	2.34	41,800	2.60	46,550	2.80
			25	77	22,420	1.64	24,320	1.83	26,600	2.12	34,960	2.48	40,280	2.78	44,840	3.00
PEAD-A42AA7	45,000	3.29	15	59	28,575	1.94	31,050	2.14	34,650	2.47	45,450	2.96	51,300	3.29	57,150	3.55
			20	68	27,450	2.11	29,700	2.30	32,850	2.66	43,875	3.19	49,500	3.55	55,125	3.82
			25	77	26,550	2.24	28,800	2.50	31,500	2.90	41,400	3.39	47,700	3.80	53,100	4.10

Note: CA : Capacity (Btu/h) P.C. : Power consumption (kW)
D.B. : Dry-bulb temperature W.B. : Wet-bulb temperature

Model Name	Capacity Btu/h	Input kW	Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Outdoor intake air °C/°F W.B.											
					-10/14		-5/23		0/32		5/41		10/50		15/59	
					CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.
PVA-A12AA7	14,000	1.07	15	59	8,890	0.63	9,660	0.70	10,780	0.80	14,140	0.96	15,960	1.07	17,780	1.16
			20	68	8,540	0.68	9,240	0.75	10,220	0.87	13,650	1.04	15,400	1.16	17,150	1.24
			25	77	8,260	0.73	8,960	0.81	9,800	0.94	12,880	1.10	14,840	1.24	16,520	1.33
PVA-A18AA7	19,000	1.47	15	59	12,065	0.87	13,110	0.96	14,630	1.10	19,190	1.32	21,660	1.47	24,130	1.59
			20	68	11,590	0.94	12,540	1.03	13,870	1.19	18,525	1.43	20,900	1.59	23,275	1.71
			25	77	11,210	1.00	12,160	1.12	13,300	1.29	17,480	1.51	20,140	1.70	22,420	1.83
PVA-A24AA7	26,000	1.92	15	59	16,510	1.13	17,940	1.25	20,020	1.44	26,260	1.73	29,640	1.92	33,020	2.07
			20	68	15,860	1.23	17,160	1.34	18,980	1.56	25,350	1.86	28,600	2.07	31,850	2.23
			25	77	15,340	1.31	16,640	1.46	18,200	1.69	23,920	1.98	27,560	2.22	30,680	2.39
PVA-A30AA7	32,000	2.64	15	59	20,320	1.56	22,080	1.72	24,640	1.98	32,320	2.38	36,480	2.64	40,640	2.85
			20	68	19,520	1.69	21,120	1.85	23,360	2.14	31,200	2.56	35,200	2.85	39,200	3.06
			25	77	18,880	1.80	20,480	2.01	22,400	2.32	29,440	2.72	33,920	3.05	37,760	3.29
PVA-A36AA7	38,000	3.03	15	59	24,130	1.79	26,220	1.97	29,260	2.27	38,380	2.73	43,320	3.03	48,260	3.27
			20	68	23,180	1.94	25,080	2.12	27,740	2.45	37,050	2.94	41,800	3.27	46,550	3.51
			25	77	22,420	2.06	24,320	2.30	26,600	2.67	34,960	3.12	40,280	3.50	44,840	3.77
PVA-A42AA7	46,000	3.90	15	59	29,210	2.30	31,740	2.54	35,420	2.93	46,460	3.51	52,440	3.90	58,420	4.21
			20	68	28,060	2.50	30,360	2.73	33,580	3.16	44,850	3.78	50,600	4.21	56,350	4.52
			25	77	27,140	2.65	29,440	2.96	32,200	3.43	42,320	4.02	48,760	4.50	54,280	4.86

Note: CA : Capacity (Btu/h) P.C. : Power consumption (kW)
D.B. : Dry-bulb temperature W.B. : Wet-bulb temperature

8-2. HYPER HEATING INVERTER

8-2-1. COOLING CAPACITY

PLA-A30EA7/PUZ-HA30NHA5

CAPACITY (Btu/h): 30,000 INPUT (kW): 2.40 SHF: 0.73

Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Indoor intake air W.B.(°C)	Indoor intake air W.B.(°F)	Outdoor intake air °C/°F D.B.																							
				20/68				25/77				30/86				35/95				40/104				46/115			
				CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
19	66	16	61	29,700	18,592	0.63	1.94	28,800	18,029	0.63	2.04	27,900	17,465	0.63	2.16	26,700	16,714	0.63	2.30	25,500	15,963	0.63	2.47	24,000	15,024	0.63	2.71
19	66	18	64	31,800	16,091	0.51	1.99	30,900	15,635	0.51	2.09	30,000	15,180	0.51	2.23	29,100	14,725	0.51	2.38	27,900	14,117	0.51	2.52	26,100	13,207	0.51	2.76
20	68	16	61	29,700	19,780	0.67	1.94	28,800	19,181	0.67	2.04	27,900	18,581	0.67	2.16	26,700	17,782	0.67	2.30	25,500	16,983	0.67	2.47	24,000	15,984	0.67	2.71
20	68	18	64	31,800	17,363	0.55	1.99	30,900	16,871	0.55	2.09	30,000	16,380	0.55	2.23	29,100	15,889	0.55	2.38	27,900	15,233	0.55	2.52	26,100	14,251	0.55	2.76
20	68	20	68	34,200	14,569	0.43	2.04	33,600	14,314	0.43	2.16	32,700	13,930	0.43	2.28	31,800	13,547	0.43	2.42	30,300	12,908	0.43	2.59	27,900	11,885	0.43	2.83
22	72	16	61	29,700	22,156	0.75	1.94	28,800	21,485	0.75	2.04	27,900	20,813	0.75	2.16	26,700	19,918	0.75	2.30	25,500	19,023	0.75	2.47	24,000	17,904	0.75	2.71
22	72	18	64	31,800	19,907	0.63	1.99	30,900	19,343	0.63	2.09	30,000	18,780	0.63	2.23	29,100	18,217	0.63	2.38	27,900	17,465	0.63	2.52	26,100	16,339	0.63	2.76
22	72	20	68	34,200	17,305	0.51	2.04	33,600	17,002	0.51	2.16	32,700	16,546	0.51	2.28	31,800	16,091	0.51	2.42	30,300	15,332	0.51	2.59	27,900	14,117	0.51	2.83
24	75	16	61	29,700	24,532	0.83	1.94	28,800	23,789	0.83	2.04	27,900	23,045	0.83	2.16	26,700	22,054	0.83	2.30	25,500	21,063	0.83	2.47	24,000	19,824	0.83	2.71
24	75	18	64	31,800	22,451	0.71	1.99	30,900	21,815	0.71	2.09	30,000	21,180	0.71	2.23	29,100	20,545	0.71	2.38	27,900	19,697	0.71	2.52	26,100	18,427	0.71	2.76
24	75	20	68	34,200	20,041	0.59	2.04	33,600	19,690	0.59	2.16	32,700	19,162	0.59	2.28	31,800	18,635	0.59	2.42	30,300	17,756	0.59	2.59	27,900	16,349	0.59	2.83
24	75	22	72	36,300	16,916	0.47	2.09	35,700	16,636	0.47	2.18	34,800	16,217	0.47	2.33	33,900	15,797	0.47	2.47	32,700	15,238	0.47	2.66	30,300	14,120	0.47	2.93
26	79	16	61	29,700	26,908	0.91	1.94	28,800	26,093	0.91	2.04	27,900	25,277	0.91	2.16	26,700	24,190	0.91	2.30	25,500	23,103	0.91	2.47	24,000	21,744	0.91	2.71
26	79	18	64	31,800	24,995	0.79	1.99	30,900	24,287	0.79	2.09	30,000	23,580	0.79	2.23	29,100	22,873	0.79	2.38	27,900	21,929	0.79	2.52	26,100	20,515	0.79	2.76
26	79	20	68	34,200	22,777	0.67	2.04	33,600	22,378	0.67	2.16	32,700	21,778	0.67	2.28	31,800	21,179	0.67	2.42	30,300	20,180	0.67	2.59	27,900	18,581	0.67	2.83
26	79	22	72	36,300	19,820	0.55	2.09	35,700	19,492	0.55	2.18	34,800	19,001	0.55	2.33	33,900	18,509	0.55	2.47	32,700	17,854	0.55	2.66	30,300	16,544	0.55	2.93
27	81	16	61	29,700	28,096	0.95	1.94	28,800	27,245	0.95	2.04	27,900	26,393	0.95	2.16	26,700	25,258	0.95	2.30	25,500	24,123	0.95	2.47	24,000	22,704	0.95	2.71
27	81	18	64	31,800	26,267	0.83	1.99	30,900	25,523	0.83	2.09	30,000	24,780	0.83	2.23	29,100	24,037	0.83	2.38	27,900	23,045	0.83	2.52	26,100	21,559	0.83	2.76
27	81	20	68	34,200	24,145	0.71	2.04	33,600	23,722	0.71	2.16	32,700	23,086	0.71	2.28	31,800	22,451	0.71	2.42	30,300	21,392	0.71	2.59	27,900	19,697	0.71	2.83
27	81	22	72	36,300	21,272	0.59	2.09	35,700	20,920	0.59	2.18	34,800	20,393	0.59	2.33	33,900	19,865	0.59	2.47	32,700	19,162	0.59	2.66	30,300	17,756	0.59	2.93
28	82	16	61	29,700	29,284	0.99	1.94	28,800	28,397	0.99	2.04	27,900	27,509	0.99	2.16	26,700	26,326	0.99	2.30	25,500	25,143	0.99	2.47	24,000	23,664	0.99	2.71
28	82	18	64	31,800	27,539	0.87	1.99	30,900	26,759	0.87	2.09	30,000	25,980	0.87	2.23	29,100	25,201	0.87	2.38	27,900	24,161	0.87	2.52	26,100	22,603	0.87	2.76
28	82	20	68	34,200	25,513	0.75	2.04	33,600	25,066	0.75	2.16	32,700	24,394	0.75	2.28	31,800	23,723	0.75	2.42	30,300	22,604	0.75	2.59	27,900	20,813	0.75	2.83
28	82	22	72	36,300	22,724	0.63	2.09	35,700	22,348	0.63	2.18	34,800	21,785	0.63	2.33	33,900	21,221	0.63	2.47	32,700	20,470	0.63	2.66	30,300	18,968	0.63	2.93
30	86	16	61	29,700	29,700	1.00	1.94	28,800	28,800	1.00	2.04	27,900	27,900	1.00	2.16	26,700	26,700	1.00	2.30	25,500	25,500	1.00	2.47	24,000	24,000	1.00	2.71
30	86	18	64	31,800	30,083	0.95	1.99	30,900	29,231	0.95	2.09	30,000	28,380	0.95	2.23	29,100	27,529	0.95	2.38	27,900	26,393	0.95	2.52	26,100	24,691	0.95	2.76
30	86	20	68	34,200	28,249	0.83	2.04	33,600	27,754	0.83	2.16	32,700	27,010	0.83	2.28	31,800	26,267	0.83	2.42	30,300	25,028	0.83	2.59	27,900	23,045	0.83	2.83
30	86	22	72	36,300	25,628	0.71	2.09	35,700	25,204	0.71	2.18	34,800	24,569	0.71	2.33	33,900	23,933	0.71	2.47	32,700	23,086	0.71	2.66	30,300	21,392	0.71	2.93
32	90	16	61	29,700	29,700	1.00	1.94	28,800	28,800	1.00	2.04	27,900	27,900	1.00	2.16	26,700	26,700	1.00	2.30	25,500	25,500	1.00	2.47	24,000	24,000	1.00	2.71
32	90	18	64	31,800	31,800	1.00	1.99	30,900	30,900	1.00	2.09	30,000	30,000	1.00	2.23	29,100	29,100	1.00	2.38	27,900	27,900	1.00	2.52	26,100	26,100	1.00	2.76
32	90	20	68	34,200	30,985	0.91	2.04	33,600	30,442	0.91	2.16	32,700	29,626	0.91	2.28	31,800	28,811	0.91	2.42	30,300	27,452	0.91	2.59	27,900	25,277	0.91	2.83
32	90	22	72	36,300	28,532	0.79	2.09	35,700	28,060	0.79	2.18	34,800	27,353	0.79	2.33	33,900	26,645	0.79	2.47	32,700	25,702	0.79	2.66	30,300	23,816	0.79	2.93

PLA-A36EA7/PUZ-HA36NHA5

CAPACITY (Btu/h): 36,000 INPUT (kW): 2.85 SHF: 0.71

Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Indoor intake air W.B.(°C)	Indoor intake air W.B.(°F)	Outdoor intake air °C/°F D.B.																							
				20/68				25/77				30/86				35/95				40/104				46/115			
				CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
19	66	16	61	35,640	21,598	0.61	2.31	34,560	20,943	0.61	2.42	33,480	20,289	0.61	2.57	32,040	19,416	0.61	2.72	30,600	18,544	0.61	2.94	28,800	17,453	0.61	3.22
19	66	18	64	38,160	18,546	0.49	2.37	37,080	18,021	0.49	2.48	36,000	17,496	0.49	2.65	34,920	16,971	0.49	2.82	33,480	16,271	0.49	2.99	31,320	15,222	0.49	3.28
20	68	16	61	35,640	23,023	0.65	2.31	34,560	22,326	0.65	2.42	33,480	21,628	0.65	2.57	32,040	20,698	0.65	2.74	30,600	19,768	0.65	2.94	28,800	18,605	0.65	3.22
20	68	18	64	38,160	20,072	0.53	2.37	37,080	19,504	0.53	2.48	36,000	18,936	0.53	2.65	34,920	18,368	0.53	2.82	33,480	17,610	0.53	2.99	31,320	16,474	0.53	3.28
20	68	20	68	41,040	16,662	0.41	2.42	40,320	16,370	0.41	2.57	39,240	15,931	0.41	2.71	38,160	15,493	0.41	2.88	36,360	14,762	0.41	3.08	33,480	13,593	0.41	3.36
22	72	16	61	35,640	25,875	0.73	2.31	34,560	25,091	0.73	2.42	33,480	24,306	0.73	2.57	32,040	23,261	0.73	2.74	30,600	22,216	0.73	2.94	28,800	20,909	0.73	3.22
22	72	18	64	38,160	23,125	0.61	2.37	37,080	22,470	0.61	2.48	36,000	21,816	0.61	2.65	34,920	21,162	0.61	2.82	33,480	20,289	0.61	2.99	31,320	18,980	0.61	3.28
22	72	20	68	41,040	19,945	0.49	2.42	40,320	19,596	0.49	2.57	39,240	19,071	0.49	2.71	38,160	18,546	0.49	2.88	36,360	17,671	0.49	3.08	33,480	16,271	0.49	3.36
24	75	16	61	35,640	28,726	0.81	2.31	34,560	27,855	0.81	2.42	33,480	26,985	0.81	2.57	32,040	25,824	0.81	2.74	30,600	24,664	0.81	2.94	28,800	23,213</		

PKA-A30KA7/PUZ-HA30NHA5

CAPACITY (Btu/h): 30,000 INPUT (kW): 2.50 SHF: 0.70

Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Indoor intake air W.B.(°C)	Indoor intake air W.B.(°F)	Outdoor intake air °C/°F D.B.																							
				20/68				25/77				30/86				35/95				40/104				46/115			
				CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
19	66	16	61	29,700	17,701	0.60	2.03	28,800	17,165	0.60	2.13	27,900	16,628	0.60	2.25	26,700	15,913	0.60	2.40	25,500	15,198	0.60	2.58	24,000	14,304	0.60	2.83
19	66	18	64	31,800	15,137	0.48	2.08	30,900	14,708	0.48	2.18	30,000	14,280	0.48	2.33	29,100	13,852	0.48	2.48	27,900	13,280	0.48	2.63	26,100	12,424	0.48	2.88
20	68	16	61	29,700	18,889	0.64	2.03	28,800	18,317	0.64	2.13	27,900	17,744	0.64	2.25	26,700	16,981	0.64	2.40	25,500	16,218	0.64	2.58	24,000	15,264	0.64	2.83
20	68	18	64	31,800	16,409	0.52	2.08	30,900	15,944	0.52	2.18	30,000	15,480	0.52	2.33	29,100	15,016	0.52	2.48	27,900	14,396	0.52	2.63	26,100	13,468	0.52	2.88
20	68	20	68	34,200	13,543	0.40	2.13	33,600	13,306	0.40	2.25	32,700	12,949	0.40	2.38	31,800	12,593	0.40	2.53	30,300	11,999	0.40	2.70	27,900	11,048	0.40	2.95
22	72	16	61	29,700	21,265	0.72	2.03	28,800	20,621	0.72	2.13	27,900	19,976	0.72	2.25	26,700	19,117	0.72	2.40	25,500	18,258	0.72	2.58	24,000	17,184	0.72	2.83
22	72	18	64	31,800	18,953	0.60	2.08	30,900	18,416	0.60	2.18	30,000	17,880	0.60	2.33	29,100	17,344	0.60	2.48	27,900	16,628	0.60	2.63	26,100	15,556	0.60	2.88
22	72	20	68	34,200	16,279	0.48	2.13	33,600	15,994	0.48	2.25	32,700	15,565	0.48	2.38	31,800	15,137	0.48	2.53	30,300	14,423	0.48	2.70	27,900	13,280	0.48	2.95
24	75	16	61	29,700	23,641	0.80	2.03	28,800	22,926	0.80	2.13	27,900	22,208	0.80	2.25	26,700	21,253	0.80	2.40	25,500	20,298	0.80	2.58	24,000	19,104	0.80	2.83
24	75	18	64	31,800	21,497	0.68	2.08	30,900	20,888	0.68	2.18	30,000	20,280	0.68	2.33	29,100	19,672	0.68	2.48	27,900	18,860	0.68	2.63	26,100	17,644	0.68	2.88
24	75	20	68	34,200	19,015	0.56	2.13	33,600	18,682	0.56	2.25	32,700	18,181	0.56	2.38	31,800	17,681	0.56	2.53	30,300	16,847	0.56	2.70	27,900	15,512	0.56	2.95
24	75	22	72	36,300	15,827	0.44	2.18	35,700	15,565	0.44	2.28	34,800	15,173	0.44	2.43	33,900	14,780	0.44	2.58	32,700	14,257	0.44	2.78	30,300	13,211	0.44	3.05
26	79	16	61	29,700	26,017	0.88	2.03	28,800	25,229	0.88	2.13	27,900	24,440	0.88	2.25	26,700	23,389	0.88	2.40	25,500	22,338	0.88	2.58	24,000	21,024	0.88	2.83
26	79	18	64	31,800	24,041	0.76	2.08	30,900	23,360	0.76	2.18	30,000	22,680	0.76	2.33	29,100	22,000	0.76	2.48	27,900	21,092	0.76	2.63	26,100	19,732	0.76	2.88
26	79	20	68	34,200	21,751	0.64	2.13	33,600	21,370	0.64	2.25	32,700	20,797	0.64	2.38	31,800	20,225	0.64	2.53	30,300	19,271	0.64	2.70	27,900	17,744	0.64	2.95
26	79	22	72	36,300	18,731	0.52	2.18	35,700	18,421	0.52	2.28	34,800	17,957	0.52	2.43	33,900	17,492	0.52	2.58	32,700	16,873	0.52	2.78	30,300	15,635	0.52	3.05
27	81	16	61	29,700	27,205	0.92	2.03	28,800	26,381	0.92	2.13	27,900	25,556	0.92	2.25	26,700	24,457	0.92	2.40	25,500	23,358	0.92	2.58	24,000	21,984	0.92	2.83
27	81	18	64	31,800	25,313	0.80	2.08	30,900	24,596	0.80	2.18	30,000	23,880	0.80	2.33	29,100	23,164	0.80	2.48	27,900	22,208	0.80	2.63	26,100	20,776	0.80	2.88
27	81	20	68	34,200	23,119	0.68	2.13	33,600	22,714	0.68	2.25	32,700	22,105	0.68	2.38	31,800	21,497	0.68	2.53	30,300	20,483	0.68	2.70	27,900	18,860	0.68	2.95
27	81	22	72	36,300	20,183	0.56	2.18	35,700	19,849	0.56	2.28	34,800	19,349	0.56	2.43	33,900	18,848	0.56	2.58	32,700	18,181	0.56	2.78	30,300	16,847	0.56	3.05
28	82	16	61	29,700	28,393	0.96	2.03	28,800	27,533	0.96	2.13	27,900	26,672	0.96	2.25	26,700	25,525	0.96	2.40	25,500	24,371	0.96	2.58	24,000	22,944	0.96	2.83
28	82	18	64	31,800	26,585	0.84	2.08	30,900	25,832	0.84	2.18	30,000	25,080	0.84	2.33	29,100	24,328	0.84	2.48	27,900	23,324	0.84	2.63	26,100	21,820	0.84	2.88
28	82	20	68	34,200	24,487	0.72	2.13	33,600	24,058	0.72	2.25	32,700	23,413	0.72	2.38	31,800	22,769	0.72	2.53	30,300	21,695	0.72	2.70	27,900	19,976	0.72	2.95
28	82	22	72	36,300	21,635	0.60	2.18	35,700	21,277	0.60	2.28	34,800	20,741	0.60	2.43	33,900	20,204	0.60	2.58	32,700	19,489	0.60	2.78	30,300	18,059	0.60	3.05
30	86	16	61	29,700	29,700	1.00	2.03	28,800	28,800	1.00	2.13	27,900	27,900	1.00	2.25	26,700	26,700	1.00	2.40	25,500	25,500	1.00	2.58	24,000	24,000	1.00	2.83
30	86	18	64	31,800	29,129	0.92	2.08	30,900	28,304	0.92	2.18	30,000	27,480	0.92	2.33	29,100	26,656	0.92	2.48	27,900	25,556	0.92	2.63	26,100	23,908	0.92	2.88
30	86	20	68	34,200	27,223	0.80	2.13	33,600	26,748	0.80	2.25	32,700	26,029	0.80	2.38	31,800	25,313	0.80	2.53	30,300	24,119	0.80	2.70	27,900	22,208	0.80	2.95
30	86	22	72	36,300	24,539	0.68	2.18	35,700	24,133	0.68	2.28	34,800	23,525	0.68	2.43	33,900	22,916	0.68	2.58	32,700	22,105	0.68	2.78	30,300	20,483	0.68	3.05
32	90	16	61	29,700	29,700	1.00	2.03	28,800	28,800	1.00	2.13	27,900	27,900	1.00	2.25	26,700	26,700	1.00	2.40	25,500	25,500	1.00	2.58	24,000	24,000	1.00	2.83
32	90	18	64	31,800	31,673	1.00	2.08	30,900	30,776	1.00	2.18	30,000	29,880	1.00	2.33	29,100	28,984	1.00	2.48	27,900	27,788	1.00	2.63	26,100	25,996	1.00	2.88
32	90	20	68	34,200	29,959	0.88	2.13	33,600	29,434	0.88	2.25	32,700	28,645	0.88	2.38	31,800	27,857	0.88	2.53	30,300	26,543	0.88	2.70	27,900	24,440	0.88	2.95
32	90	22	72	36,300	27,443	0.76	2.18	35,700	26,989	0.76	2.28	34,800	26,309	0.76	2.43	33,900	25,628	0.76	2.58	32,700	24,721	0.76	2.78	30,300	22,907	0.76	3.05

PKA-A36KA7/PUZ-HA36NHA5

CAPACITY (Btu/h): 33,500 INPUT (kW): 2.79 SHF: 0.71

Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Indoor intake air W.B.(°C)	Indoor intake air W.B.(°F)	Outdoor intake air °C/°F D.B.																							
				20/68				25/77				30/86				35/95				40/104				46/115			
				CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
19	66	16	61	33,165	20,098	0.61	2.26	32,160	19,489	0.61	2.37	31,155	18,880	0.61	2.51	29,815	18,068	0.61	2.68	28,475	17,256	0.61	2.87	26,800	16,241	0.61	3.15
19	66	18	64	35,510	17,258	0.49	2.32	34,505	16,769	0.49	2.43	33,500	16,281	0.49	2.59	32,495	15,793	0.49	2.76	31,155	15,141	0.49	2.93	29,145	14,164	0.49	3.21
20	68	16	61	33,165	21,425	0.65	2.26	32,160	20,775	0.65	2.37	31,155	20,126	0.65	2.51	29,815	19,260	0.65	2.68	28,475	18,395	0.65	2.87	26,800	17,313	0.65	3.15
20	68	18	64	35,510	18,678	0.53	2.32	34,505	18,150	0.53	2.43	33,500	17,621	0.53	2.59	32,495	17,092	0.53	2.76	31,155	16,388	0.53	2.93	29,145	15,330	0.53	3.21
20	68	20	68	38,190	15,505	0.41	2.37	37,520	15,233	0.41	2.51	36,515	14,825	0.41	2.65	35,510	14,417	0.41	2.82	33,835	13,737	0.41	3.01	31,155	12,649	0.41	3.29
22	72	16	61	33,165	24,078	0.73	2.26	32,160	23,348	0.73	2.37	31,155	22,619	0.73	2.51	29,815	21,646	0.73	2.68	28,475	20,873	0.73	2.87	26,800	19,457	0.73	3.15
22	72	18	64	35,510	21,519	0.61	2.32	34,505	20,910	0.61	2.43	33,500	20,301	0.61	2.59	32,495	19,692	0.61	2.76	31,155	18,600	0.61	2.93	29,145	17,662	0.61	3.21
22	72	20	68	38,190	18,560	0.49	2.37	37,520	18,235	0.49	2.51	36,515	17,746	0.49	2.65	35,510	17,258	0.49	2.82	33,835	16,444	0.49	3.01	31,155	15,141	0.49	3.29
24	75	16	61	33,165	26,731	0.81	2.26	32,160	25,921	0.81	2.37	31,155	25,111	0.81	2.51	29,815	24,031	0.81	2.68	28,475	22,951	0.81	2.87	26,800	21,601	0.81	3.15
24	75	18	64	35,510	24,360	0.69	2.32	34,																			

PCA-A30KA7/PUZ-HA30NHA5

CAPACITY (Btu/h): 30,000 INPUT (kW): 2.48 SHF: 0.69

Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Indoor intake air W.B.(°C)	Indoor intake air W.B.(°F)	Outdoor intake air °C/°F D.B.																							
				20/68				25/77				30/86				35/95				40/104				46/115			
				CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
19	66	16	61	29,700	17,404	0.59	2.01	28,800	16,877	0.59	2.11	27,900	16,349	0.59	2.23	26,700	15,646	0.59	2.38	25,500	14,943	0.59	2.55	24,000	14,064	0.59	2.80
19	66	18	64	31,800	14,819	0.47	2.06	30,900	14,399	0.47	2.16	30,000	13,980	0.47	2.31	29,100	13,561	0.47	2.46	27,900	13,001	0.47	2.60	26,100	12,163	0.47	2.85
20	68	16	61	29,700	18,592	0.63	2.01	28,800	18,029	0.63	2.11	27,900	17,465	0.63	2.23	26,700	16,714	0.63	2.38	25,500	15,963	0.63	2.55	24,000	15,024	0.63	2.80
20	68	18	64	31,800	16,091	0.51	2.06	30,900	15,635	0.51	2.16	30,000	15,180	0.51	2.31	29,100	14,725	0.51	2.46	27,900	14,117	0.51	2.60	26,100	13,207	0.51	2.85
20	68	20	68	34,200	13,201	0.39	2.11	33,600	12,970	0.39	2.23	32,700	12,622	0.39	2.36	31,800	12,275	0.39	2.50	30,300	11,696	0.39	2.68	27,900	10,769	0.39	2.93
22	72	16	61	29,700	20,968	0.71	2.01	28,800	20,333	0.71	2.11	27,900	19,697	0.71	2.23	26,700	18,850	0.71	2.38	25,500	18,003	0.71	2.55	24,000	16,944	0.71	2.80
22	72	18	64	31,800	18,635	0.59	2.06	30,900	18,107	0.59	2.16	30,000	17,580	0.59	2.31	29,100	17,053	0.59	2.46	27,900	16,349	0.59	2.60	26,100	15,295	0.59	2.85
22	72	20	68	34,200	15,937	0.47	2.11	33,600	15,658	0.47	2.23	32,700	15,238	0.47	2.36	31,800	14,819	0.47	2.50	30,300	14,120	0.47	2.68	27,900	13,001	0.47	2.93
24	75	16	61	29,700	23,344	0.79	2.01	28,800	22,637	0.79	2.11	27,900	21,929	0.79	2.23	26,700	20,986	0.79	2.38	25,500	20,043	0.79	2.55	24,000	18,864	0.79	2.80
24	75	18	64	31,800	21,179	0.67	2.06	30,900	20,579	0.67	2.16	30,000	19,980	0.67	2.31	29,100	19,381	0.67	2.46	27,900	18,581	0.67	2.60	26,100	17,383	0.67	2.85
24	75	20	68	34,200	18,673	0.55	2.11	33,600	18,346	0.55	2.23	32,700	17,854	0.55	2.36	31,800	17,363	0.55	2.50	30,300	16,544	0.55	2.68	27,900	15,233	0.55	2.93
24	75	22	72	36,300	15,464	0.43	2.16	35,700	15,208	0.43	2.26	34,800	14,825	0.43	2.41	33,900	14,441	0.43	2.55	32,700	13,930	0.43	2.75	30,300	12,908	0.43	3.03
26	79	16	61	29,700	25,720	0.87	2.01	28,800	24,941	0.87	2.11	27,900	24,161	0.87	2.23	26,700	23,122	0.87	2.38	25,500	22,043	0.87	2.55	24,000	20,784	0.87	2.80
26	79	18	64	31,800	23,723	0.75	2.06	30,900	23,051	0.75	2.16	30,000	22,380	0.75	2.31	29,100	21,709	0.75	2.46	27,900	20,813	0.75	2.60	26,100	19,471	0.75	2.85
26	79	20	68	34,200	21,409	0.63	2.11	33,600	21,034	0.63	2.23	32,700	20,470	0.63	2.36	31,800	19,907	0.63	2.50	30,300	18,968	0.63	2.68	27,900	17,465	0.63	2.93
26	79	22	72	36,300	18,368	0.51	2.16	35,700	18,064	0.51	2.26	34,800	17,609	0.51	2.41	33,900	17,153	0.51	2.55	32,700	16,546	0.51	2.75	30,300	15,332	0.51	3.03
27	81	16	61	29,700	26,908	0.91	2.01	28,800	26,093	0.91	2.11	27,900	25,277	0.91	2.23	26,700	24,190	0.91	2.38	25,500	23,103	0.91	2.55	24,000	21,744	0.91	2.80
27	81	18	64	31,800	24,995	0.79	2.06	30,900	24,287	0.79	2.16	30,000	23,580	0.79	2.31	29,100	22,873	0.79	2.46	27,900	21,929	0.79	2.60	26,100	20,515	0.79	2.85
27	81	20	68	34,200	22,777	0.67	2.11	33,600	22,378	0.67	2.23	32,700	21,778	0.67	2.36	31,800	21,179	0.67	2.50	30,300	20,180	0.67	2.68	27,900	18,581	0.67	2.93
27	81	22	72	36,300	19,820	0.55	2.16	35,700	19,492	0.55	2.26	34,800	19,001	0.55	2.41	33,900	18,509	0.55	2.55	32,700	17,854	0.55	2.75	30,300	16,544	0.55	3.03
28	82	16	61	29,700	28,096	0.95	2.01	28,800	27,245	0.95	2.11	27,900	26,393	0.95	2.23	26,700	25,258	0.95	2.38	25,500	24,123	0.95	2.55	24,000	22,704	0.95	2.80
28	82	18	64	31,800	26,267	0.83	2.06	30,900	25,523	0.83	2.16	30,000	24,780	0.83	2.31	29,100	24,037	0.83	2.46	27,900	23,045	0.83	2.60	26,100	21,589	0.83	2.85
28	82	20	68	34,200	24,145	0.71	2.11	33,600	23,722	0.71	2.23	32,700	23,086	0.71	2.36	31,800	22,451	0.71	2.50	30,300	21,392	0.71	2.68	27,900	19,697	0.71	2.93
28	82	22	72	36,300	21,272	0.59	2.16	35,700	20,920	0.59	2.26	34,800	20,393	0.59	2.41	33,900	19,865	0.59	2.55	32,700	19,162	0.59	2.75	30,300	17,756	0.59	3.03
30	86	16	61	29,700	30,270	1.00	2.01	28,800	28,800	1.00	2.11	27,900	27,900	1.00	2.23	26,700	26,700	1.00	2.38	25,500	25,500	1.00	2.55	24,000	24,000	1.00	2.80
30	86	18	64	31,800	28,811	0.91	2.06	30,900	27,995	0.91	2.16	30,000	27,180	0.91	2.31	29,100	26,365	0.91	2.46	27,900	25,277	0.91	2.60	26,100	23,647	0.91	2.85
30	86	20	68	34,200	26,881	0.79	2.11	33,600	26,410	0.79	2.23	32,700	25,702	0.79	2.36	31,800	24,995	0.79	2.50	30,300	23,816	0.79	2.68	27,900	21,929	0.79	2.93
30	86	22	72	36,300	24,176	0.67	2.16	35,700	23,776	0.67	2.26	34,800	23,177	0.67	2.41	33,900	22,577	0.67	2.55	32,700	21,871	0.67	2.75	30,300	20,180	0.67	3.03
32	90	16	61	29,700	29,700	1.00	2.01	28,800	28,800	1.00	2.11	27,900	27,900	1.00	2.23	26,700	26,700	1.00	2.38	25,500	25,500	1.00	2.55	24,000	24,000	1.00	2.80
32	90	18	64	31,800	31,355	0.99	2.06	30,900	30,467	0.99	2.16	30,000	29,580	0.99	2.31	29,100	28,693	0.99	2.46	27,900	27,509	0.99	2.60	26,100	25,735	0.99	2.85
32	90	20	68	34,200	29,617	0.87	2.11	33,600	29,098	0.87	2.23	32,700	28,318	0.87	2.36	31,800	27,539	0.87	2.50	30,300	26,240	0.87	2.68	27,900	24,161	0.87	2.93
32	90	22	72	36,300	27,080	0.75	2.16	35,700	26,632	0.75	2.26	34,800	25,961	0.75	2.41	33,900	25,289	0.75	2.55	32,700	24,394	0.75	2.75	30,300	22,604	0.75	3.03

PCA-A36KA7/PUZ-HA36NHA5

CAPACITY (Btu/h): 34,000 INPUT (kW): 2.81 SHF: 0.73

Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Indoor intake air W.B.(°C)	Indoor intake air W.B.(°F)	Outdoor intake air °C/°F D.B.																							
				20/68				25/77				30/86				35/95				40/104				46/115			
				CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
19	66	16	61	33,660	21,071	0.63	2.28	32,640	20,433	0.63	2.39	31,620	19,794	0.63	2.53	30,260	18,943	0.63	2.70	28,900	18,091	0.63	2.89	27,200	17,027	0.63	3.18
19	66	18	64	36,040	18,236	0.51	2.33	35,020	17,720	0.51	2.44	34,000	17,204	0.51	2.61	32,980	16,688	0.51	2.78	31,620	16,000	0.51	2.95	29,580	14,967	0.51	3.23
20	68	16	61	33,660	22,418	0.67	2.28	32,640	21,738	0.67	2.39	31,620	21,059	0.67	2.53	30,260	20,153	0.67	2.70	28,900	19,247	0.67	2.89	27,200	18,115	0.67	3.18
20	68	18	64	36,040	19,678	0.55	2.33	35,020	19,121	0.55	2.44	34,000	18,564	0.55	2.61	32,980	18,007	0.55	2.78	31,620	17,265	0.55	2.95	29,580	16,151	0.55	3.23
20	68	20	68	38,760	16,512	0.43	2.39	38,080	16,222	0.43	2.53	37,060	15,788	0.43	2.67	36,040	15,353	0.43	2.84	34,340	14,629	0.43	3.03	31,620	13,470	0.43	3.32
22	72	16	61	33,660	25,110	0.75	2.28	32,640	24,349	0.75	2.39	31,620	23,589	0.75	2.53	30,260	22,574	0.75	2.70	28,900	21,559	0.75	2.89	27,200	20,291	0.75	3.18
22	72	18	64	36,040	22,561	0.63	2.33	35,020	21,923	0.63	2.44	34,000	21,284	0.63	2.61	32,980	20,645	0.63	2.78	31,620	19,794	0.63	2.95	29,580	18,517	0.63	3.23
22	72	20	68	38,760	19,613	0.51	2.39	38,080	19,268	0.51	2.53	37,060	18,752	0.51	2.67	36,040	18,236	0.51	2.84	34,340	17,378	0.51	3.03	31,620	16,000	0.51	3.32
24	75	16	61	33,660	27,803	0.83	2.28	32,640	26,961	0.83	2.39	31,620	26,118	0.83	2.53	30,260	24,995	0.83	2.70	28,900	23,871	0.83	2.89	27,200	22,467	0.83	3.18
24	75	18	64	36,040	25,444	0.71	2.33	35,020	24,724	0.71	2.44	34,00															

PEAD-A30AA7/PUZ-HA30NHA5

CAPACITY (Btu/h): 27,000 INPUT (kW): 2.16 SHF: 0.67

Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Indoor intake air W.B.(°C)	Indoor intake air W.B.(°F)	Outdoor intake air °C/°F D.B.																							
				20/68				25/77				30/86				35/95				40/104				46/115			
				CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
19	66	16	61	26,730	15,129	0.57	1.75	25,920	14,671	0.57	1.84	25,110	14,212	0.57	1.94	24,030	13,601	0.57	2.07	22,950	12,990	0.57	2.22	21,600	12,226	0.57	2.44
19	66	18	64	28,620	12,765	0.45	1.79	27,810	12,403	0.45	1.88	27,000	12,042	0.45	2.01	26,190	11,681	0.45	2.14	25,110	11,199	0.45	2.27	23,490	10,477	0.45	2.48
20	68	16	61	26,730	16,198	0.61	1.75	25,920	15,708	0.61	1.84	25,110	15,217	0.61	1.94	24,030	14,562	0.61	2.07	22,950	13,908	0.61	2.22	21,600	13,090	0.61	2.44
20	68	18	64	28,620	13,909	0.49	1.79	27,810	13,516	0.49	1.88	27,000	13,122	0.49	2.01	26,190	12,728	0.49	2.14	25,110	12,203	0.49	2.27	23,490	11,416	0.49	2.48
20	68	20	68	30,780	11,265	0.37	1.84	30,240	11,068	0.37	1.94	29,430	10,771	0.37	2.05	28,620	10,475	0.37	2.18	27,270	9,981	0.37	2.33	25,110	9,190	0.37	2.55
22	72	16	61	26,730	18,337	0.69	1.75	25,920	17,781	0.69	1.84	25,110	17,225	0.69	1.94	24,030	16,485	0.69	2.07	22,950	15,744	0.69	2.22	21,600	14,818	0.69	2.44
22	72	18	64	28,620	16,199	0.57	1.79	27,810	15,740	0.57	1.88	27,000	15,282	0.57	2.01	26,190	14,824	0.57	2.14	25,110	14,212	0.57	2.27	23,490	13,295	0.57	2.48
22	72	20	68	30,780	13,728	0.45	1.84	30,240	13,487	0.45	1.94	29,430	13,126	0.45	2.05	28,620	12,765	0.45	2.18	27,270	12,162	0.45	2.33	25,110	11,199	0.45	2.55
24	75	16	61	26,730	20,475	0.77	1.75	25,920	19,855	0.77	1.84	25,110	19,234	0.77	1.94	24,030	18,407	0.77	2.07	22,950	17,580	0.77	2.22	21,600	16,546	0.77	2.44
24	75	18	64	28,620	18,489	0.65	1.79	27,810	17,965	0.65	1.88	27,000	17,442	0.65	2.01	26,190	16,919	0.65	2.14	25,110	16,221	0.65	2.27	23,490	15,175	0.65	2.48
24	75	20	68	30,780	16,190	0.53	1.84	30,240	15,906	0.53	1.94	29,430	15,480	0.53	2.05	28,620	15,054	0.53	2.18	27,270	14,344	0.53	2.33	25,110	13,208	0.53	2.55
24	75	22	72	32,670	13,264	0.41	1.88	32,130	13,045	0.41	1.97	31,320	12,716	0.41	2.10	30,510	12,387	0.41	2.22	29,430	11,949	0.41	2.40	27,270	11,072	0.41	2.64
26	79	16	61	26,730	22,614	0.85	1.75	25,920	21,928	0.85	1.84	25,110	21,243	0.85	1.94	24,030	20,329	0.85	2.07	22,950	19,416	0.85	2.22	21,600	18,274	0.85	2.44
26	79	18	64	28,620	20,778	0.73	1.79	27,810	20,190	0.73	1.88	27,000	19,602	0.73	2.01	26,190	19,014	0.73	2.14	25,110	18,230	0.73	2.27	23,490	17,054	0.73	2.48
26	79	20	68	30,780	18,653	0.61	1.84	30,240	18,325	0.61	1.94	29,430	17,835	0.61	2.05	28,620	17,344	0.61	2.18	27,270	16,526	0.61	2.33	25,110	15,217	0.61	2.55
26	79	22	72	32,670	15,878	0.49	1.88	32,130	15,615	0.49	1.97	31,320	15,222	0.49	2.10	30,510	14,828	0.49	2.22	29,430	14,303	0.49	2.40	27,270	13,253	0.49	2.64
27	81	16	61	26,730	23,683	0.89	1.75	25,920	22,965	0.89	1.84	25,110	22,247	0.89	1.94	24,030	21,291	0.89	2.07	22,950	20,334	0.89	2.22	21,600	19,138	0.89	2.44
27	81	18	64	28,620	21,923	0.77	1.79	27,810	21,302	0.77	1.88	27,000	20,682	0.77	2.01	26,190	20,062	0.77	2.14	25,110	19,234	0.77	2.27	23,490	17,993	0.77	2.48
27	81	20	68	30,780	19,884	0.65	1.84	30,240	19,535	0.65	1.94	29,430	19,012	0.65	2.05	28,620	18,489	0.65	2.18	27,270	17,616	0.65	2.33	25,110	16,221	0.65	2.55
27	81	22	72	32,670	17,184	0.53	1.88	32,130	16,900	0.53	1.97	31,320	16,474	0.53	2.10	30,510	16,048	0.53	2.22	29,430	15,480	0.53	2.40	27,270	14,344	0.53	2.64
28	82	16	61	26,730	24,752	0.93	1.75	25,920	24,002	0.93	1.84	25,110	23,252	0.93	1.94	24,030	22,252	0.93	2.07	22,950	21,252	0.93	2.22	21,600	20,002	0.93	2.44
28	82	18	64	28,620	23,068	0.81	1.79	27,810	22,415	0.81	1.88	27,000	21,762	0.81	2.01	26,190	21,109	0.81	2.14	25,110	20,239	0.81	2.27	23,490	18,933	0.81	2.48
28	82	20	68	30,780	21,115	0.69	1.84	30,240	20,745	0.69	1.94	29,430	20,189	0.69	2.05	28,620	19,633	0.69	2.18	27,270	18,707	0.69	2.33	25,110	17,225	0.69	2.55
28	82	22	72	32,670	18,491	0.57	1.88	32,130	18,186	0.57	1.97	31,320	17,727	0.57	2.10	30,510	17,269	0.57	2.22	29,430	16,657	0.57	2.40	27,270	15,435	0.57	2.64
30	86	16	61	26,730	26,730	1.00	1.75	25,920	25,920	1.00	1.84	25,110	25,110	1.00	1.94	24,030	24,030	1.00	2.07	22,950	22,950	1.00	2.22	21,600	21,600	1.00	2.44
30	86	18	64	28,620	25,357	0.89	1.79	27,810	24,640	0.89	1.88	27,000	23,922	0.89	2.01	26,190	23,204	0.89	2.14	25,110	22,247	0.89	2.27	23,490	20,812	0.89	2.48
30	86	20	68	30,780	23,577	0.77	1.84	30,240	23,164	0.77	1.94	29,430	22,543	0.77	2.05	28,620	21,923	0.77	2.18	27,270	20,889	0.77	2.33	25,110	19,234	0.77	2.55
30	86	22	72	32,670	21,105	0.65	1.88	32,130	20,756	0.65	1.97	31,320	20,233	0.65	2.10	30,510	19,709	0.65	2.22	29,430	19,012	0.65	2.40	27,270	17,616	0.65	2.64
32	90	16	61	26,730	26,730	1.00	1.75	25,920	25,920	1.00	1.84	25,110	25,110	1.00	1.94	24,030	24,030	1.00	2.07	22,950	22,950	1.00	2.22	21,600	21,600	1.00	2.44
32	90	18	64	28,620	27,647	0.97	1.79	27,810	26,864	0.97	1.88	27,000	26,082	0.97	2.01	26,190	25,300	0.97	2.14	25,110	24,256	0.97	2.27	23,490	22,691	0.97	2.48
32	90	20	68	30,780	26,040	0.85	1.84	30,240	25,583	0.85	1.94	29,430	24,898	0.85	2.05	28,620	24,213	0.85	2.18	27,270	23,075	0.85	2.33	25,110	21,243	0.85	2.55
32	90	22	72	32,670	23,718	0.73	1.88	32,130	23,326	0.73	1.97	31,320	22,738	0.73	2.10	30,510	22,150	0.73	2.22	29,430	21,366	0.73	2.40	27,270	19,798	0.73	2.64

PEAD-A36AA7/PUZ-HA36NHA5

CAPACITY (Btu/h): 33,000 INPUT (kW): 2.64 SHF: 0.76

Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Indoor intake air W.B.(°C)	Indoor intake air W.B.(°F)	Outdoor intake air °C/°F D.B.																							
				20/68				25/77				30/86				35/95				40/104				46/115			
				CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
19	66	16	61	32,670	21,432	0.66	2.14	31,680	20,782	0.66	2.24	30,690	20,133	0.66	2.38	29,370	19,267	0.66	2.53	28,050	18,401	0.66	2.72	26,400	17,318	0.66	2.98
19	66	18	64	34,980	18,749	0.54	2.19	33,990	18,219	0.54	2.30	33,000	17,688	0.54	2.46	32,010	17,157	0.54	2.61	30,690	16,450	0.54	2.77	28,710	15,389	0.54	3.04
20	68	16	61	32,670	22,738	0.70	2.14	31,680	22,049	0.70	2.24	30,690	21,360	0.70	2.38	29,370	20,442	0.70	2.53	28,050	19,523	0.70	2.72	26,400	18,374	0.70	2.98
20	68	18	64	34,980	20,148	0.58	2.19	33,990	19,578	0.58	2.30	33,000	19,008	0.58	2.46	32,010	18,438	0.58	2.61	30,690	17,677	0.58	2.77	28,710	16,537	0.58	3.04
20	68	20	68	37,620	17,155	0.46	2.24	36,960	16,854	0.46	2.38	35,970	16,402	0.46	2.51	34,980	15,951	0.46	2.67	33,330	15,198	0.46	2.85	30,690	13,995	0.46	3.12
22	72	16	61	32,670	25,352	0.78	2.14	31,680	24,584	0.78	2.24	30,690	23,815	0.78	2.38	29,370	22,791	0.78	2.53	28,050	21,767	0.78	2.72	26,400	20,486	0.78	2.98
22	72	18	64	34,980	22,947	0.66	2.19	33,990	22,297	0.66	2.30	33,000	21,648	0.66	2.46	32,010	20,999	0.66	2.61	30,690	20,133	0.66	2.77	28,710	18,834	0.66	3.04
22	72	20	68	37,620	20,164	0.54	2.24	36,960	19,811	0.54	2.38	35,970	19,280	0.54	2.51	34,980	18,749	0.54	2.67	33,330	17,865	0.54	2.85	30,690	16,450	0.54	3.12
24	75	16	61	32,670	27,966	0.86	2.14	31,680	27,118	0.86	2.24	30,690	26,271	0.86	2.38	29,370	25,141	0.86	2.53	28,050	24,011	0.86	2.72	26,400	22,598	0.86	2.98
24	75	18	64	34,980	25,745	0.74	2.19	33,99																			

PLA-42EA7/PUZ-HA42NKA

CAPACITY (Btu/h): 42,000 INPUT (kW): 4.16 SHF: 0.71

Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Indoor intake air W.B.(°C)	Indoor intake air W.B.(°F)	Outdoor intake air °C/°F D.B.																							
				20/68				25/77				30/86				35/95				40/104				46/115			
				CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
19	66	16	61	41,580	25,197	0.61	3.37	40,320	24,434	0.61	3.54	39,060	23,670	0.61	3.74	37,380	22,652	0.61	3.99	35,700	21,634	0.61	4.28	33,600	20,362	0.61	4.70
19	66	18	64	44,520	21,637	0.49	3.45	43,260	21,024	0.49	3.62	42,000	20,412	0.49	3.87	40,740	19,800	0.49	4.12	39,060	18,983	0.49	4.37	36,540	17,758	0.49	4.78
20	68	16	61	41,580	26,861	0.65	3.37	40,320	26,047	0.65	3.54	39,060	25,233	0.65	3.74	37,380	24,147	0.65	3.99	35,700	23,062	0.65	4.28	33,600	21,706	0.65	4.70
20	68	18	64	44,520	23,418	0.53	3.45	43,260	22,755	0.53	3.62	42,000	22,092	0.53	3.87	40,740	21,429	0.53	4.12	39,060	20,546	0.53	4.37	36,540	19,220	0.53	4.78
20	68	20	68	47,880	19,439	0.41	3.54	47,040	19,098	0.41	3.74	45,780	18,587	0.41	3.95	44,520	18,075	0.41	4.20	42,420	17,223	0.41	4.49	39,060	15,858	0.41	4.91
22	72	16	61	41,580	30,187	0.73	3.37	40,320	29,272	0.73	3.54	39,060	28,358	0.73	3.74	37,380	27,138	0.73	3.99	35,700	25,918	0.73	4.28	33,600	24,394	0.73	4.70
22	72	18	64	44,520	26,979	0.61	3.45	43,260	26,216	0.61	3.62	42,000	25,452	0.61	3.87	40,740	24,688	0.61	4.12	39,060	23,670	0.61	4.37	36,540	22,143	0.61	4.78
22	72	20	68	47,880	23,270	0.49	3.54	47,040	22,861	0.49	3.74	45,780	22,249	0.49	3.95	44,520	21,637	0.49	4.20	42,420	20,616	0.49	4.49	39,060	18,983	0.49	4.91
24	75	16	61	41,580	33,513	0.81	3.37	40,320	32,498	0.81	3.54	39,060	31,482	0.81	3.74	37,380	30,128	0.81	3.99	35,700	28,774	0.81	4.28	33,600	27,082	0.81	4.70
24	75	18	64	44,520	30,541	0.69	3.45	43,260	29,676	0.69	3.62	42,000	28,812	0.69	3.87	40,740	27,948	0.69	4.12	39,060	26,795	0.69	4.37	36,540	25,066	0.69	4.78
24	75	20	68	47,880	27,100	0.57	3.54	47,040	26,625	0.57	3.74	45,780	25,911	0.57	3.95	44,520	25,198	0.57	4.20	42,420	24,101	0.57	4.49	39,060	22,108	0.57	4.91
24	75	22	72	50,820	22,666	0.45	3.62	49,980	22,291	0.45	3.79	48,720	21,729	0.45	4.04	47,460	21,167	0.45	4.28	45,780	20,418	0.45	4.62	42,420	18,919	0.45	5.08
26	79	16	61	41,580	36,840	0.89	3.37	40,320	35,724	0.89	3.54	39,060	34,607	0.89	3.74	37,380	33,119	0.89	3.99	35,700	31,630	0.89	4.28	33,600	29,770	0.89	4.70
26	79	18	64	44,520	34,102	0.77	3.45	43,260	33,137	0.77	3.62	42,000	32,172	0.77	3.87	40,740	31,207	0.77	4.12	39,060	29,920	0.77	4.37	36,540	27,990	0.77	4.78
26	79	20	68	47,880	30,930	0.65	3.54	47,040	30,388	0.65	3.74	45,780	29,574	0.65	3.95	44,520	28,760	0.65	4.20	42,420	27,403	0.65	4.49	39,060	25,233	0.65	4.91
26	79	22	72	50,820	26,731	0.53	3.62	49,980	26,289	0.53	3.79	48,720	25,627	0.53	4.04	47,460	24,964	0.53	4.28	45,780	24,080	0.53	4.62	42,420	22,313	0.53	5.08
27	81	16	61	41,580	38,503	0.93	3.37	40,320	37,336	0.93	3.54	39,060	36,170	0.93	3.74	37,380	34,614	0.93	3.99	35,700	33,058	0.93	4.28	33,600	31,114	0.93	4.70
27	81	18	64	44,520	35,883	0.81	3.45	43,260	34,868	0.81	3.62	42,000	33,852	0.81	3.87	40,740	32,836	0.81	4.12	39,060	31,482	0.81	4.37	36,540	29,451	0.81	4.78
27	81	20	68	47,880	32,846	0.69	3.54	47,040	32,269	0.69	3.74	45,780	31,405	0.69	3.95	44,520	30,541	0.69	4.20	42,420	29,100	0.69	4.49	39,060	26,795	0.69	4.91
27	81	22	72	50,820	28,764	0.57	3.62	49,980	28,289	0.57	3.79	48,720	27,576	0.57	4.04	47,460	26,862	0.57	4.28	45,780	25,911	0.57	4.62	42,420	24,010	0.57	5.08
28	82	16	61	41,580	40,166	0.97	3.37	40,320	38,949	0.97	3.54	39,060	37,732	0.97	3.74	37,380	36,109	0.97	3.99	35,700	34,486	0.97	4.28	33,600	32,458	0.97	4.70
28	82	18	64	44,520	37,664	0.85	3.45	43,260	36,598	0.85	3.62	42,000	35,532	0.85	3.87	40,740	34,466	0.85	4.12	39,060	33,045	0.85	4.37	36,540	30,913	0.85	4.78
28	82	20	68	47,880	34,761	0.73	3.54	47,040	34,151	0.73	3.74	45,780	33,236	0.73	3.95	44,520	32,322	0.73	4.20	42,420	30,797	0.73	4.49	39,060	28,358	0.73	4.91
28	82	22	72	50,820	30,797	0.61	3.62	49,980	30,288	0.61	3.79	48,720	29,524	0.61	4.04	47,460	28,761	0.61	4.28	45,780	27,743	0.61	4.62	42,420	25,707	0.61	5.08
30	86	16	61	41,580	41,580	1.00	3.37	40,320	40,320	1.00	3.54	39,060	39,060	1.00	3.74	37,380	37,380	1.00	3.99	35,700	35,700	1.00	4.28	33,600	33,600	1.00	4.70
30	86	18	64	44,520	41,226	0.93	3.45	43,260	40,059	0.93	3.62	42,000	38,892	0.93	3.87	40,740	37,725	0.93	4.12	39,060	36,170	0.93	4.37	36,540	33,836	0.93	4.78
30	86	20	68	47,880	38,591	0.81	3.54	47,040	37,914	0.81	3.74	45,780	36,899	0.81	3.95	44,520	35,883	0.81	4.20	42,420	34,191	0.81	4.49	39,060	31,482	0.81	4.91
30	86	22	72	50,820	34,863	0.69	3.62	49,980	34,286	0.69	3.79	48,720	33,422	0.69	4.04	47,460	32,558	0.69	4.28	45,780	31,405	0.69	4.62	42,420	29,100	0.69	5.08
32	90	16	61	41,580	41,580	1.00	3.37	40,320	40,320	1.00	3.54	39,060	39,060	1.00	3.74	37,380	37,380	1.00	3.99	35,700	35,700	1.00	4.28	33,600	33,600	1.00	4.70
32	90	18	64	44,520	44,520	1.00	3.45	43,260	43,260	1.00	3.62	42,000	42,000	1.00	3.87	40,740	40,740	1.00	4.12	39,060	39,060	1.00	4.37	36,540	36,540	1.00	4.78
32	90	20	68	47,880	42,422	0.89	3.54	47,040	41,677	0.89	3.74	45,780	40,561	0.89	3.95	44,520	39,445	0.89	4.20	42,420	37,584	0.89	4.49	39,060	34,607	0.89	4.91
32	90	22	72	50,820	38,928	0.77	3.62	49,980	38,285	0.77	3.79	48,720	37,320	0.77	4.04	47,460	36,354	0.77	4.28	45,780	35,067	0.77	4.62	42,420	32,494	0.77	5.08

PCA-A42KA7/PUZ-HA42NKA

CAPACITY (Btu/h): 42,000 INPUT (kW): 4.20 SHF: 0.69

Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Indoor intake air W.B.(°C)	Indoor intake air W.B.(°F)	Outdoor intake air °C/°F D.B.																							
				20/68				25/77				30/86				35/95				40/104				46/115			
				CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
19	66	16	61	41,580	24,366	0.59	3.40	40,320	23,628	0.59	3.57	39,060	22,889	0.59	3.78	37,380	21,905	0.59	4.03	35,700	20,920	0.59	4.33	33,600	19,690	0.59	4.75
19	66	18	64	44,520	20,746	0.47	3.49	43,260	20,159	0.47	3.65	42,000	19,572	0.47	3.91	40,740	18,985	0.47	4.16	39,060	18,202	0.47	4.41	36,540	17,028	0.47	4.83
20	68	16	61	41,580	26,029	0.63	3.40	40,320	25,240	0.63	3.57	39,060	24,452	0.63	3.78	37,380	23,400	0.63	4.03	35,700	22,348	0.63	4.33	33,600	21,034	0.63	4.75
20	68	18	64	44,520	22,527	0.51	3.49	43,260	21,890	0.51	3.65	42,000	21,252	0.51	3.91	40,740	20,614	0.51	4.16	39,060	19,764	0.51	4.41	36,540	18,489	0.51	4.83
20	68	20	68	47,880	18,482	0.39	3.57	47,040	18,157	0.39	3.78	45,780	17,671	0.39	3.99	44,520	17,185	0.39	4.24	42,420	16,374	0.39	4.54	39,060	15,077	0.39	4.96
22	72	16	61	41,580	29,355	0.71	3.40	40,320	28,466	0.71	3.57	39,060	27,576	0.71	3.78	37,380	26,390	0.71	4.03	35,700	25,204	0.71	4.33	33,600	23,722	0.71	4.75
22	72	18	64	44,520	26,089	0.59	3.49	43,260	25,350	0.59	3.65	42,000	24,612	0.59	3.91	40,740	23,874	0.59	4.16	39,060	22,889	0.59	4.41	36,540	21,412	0.59	4.83
22	72	20	68	47,880	22,312	0.47	3.57	47,040	21,921	0.47	3.78	45,780	21,333	0.47	3.99	44,520	20,746	0.47	4.24	42,420	19,768	0.47	4.54	39,060	18,202	0.47	4.96
24	75	16	61	41,580	32,682	0.79	3.40	40,320	31,692	0.79	3.57	39,060	30,701	0.79	3.78	37,380	29,381	0.79	4.03	35,700	28,060	0.79	4.33	33,600	26,410	0.79	4.75
24	75	18	64	44,520	29,650	0.67	3.49	43,260	28,811	0.67	3.65	42,000															

PEAD-A42AA7/PUZ-HA42NKA

CAPACITY (Btu/h): 42,000 INPUT (kW): 4.20 SHF: 0.76

Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Indoor intake air W.B.(°C)	Indoor intake air W.B.(°F)	Outdoor intake air °C/°F D.B.																							
				20/68				25/77				30/86				35/95				40/104				46/115			
				CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
19	66	16	61	41,580	27,276	0.66	3.40	40,320	26,450	0.66	3.57	39,060	25,623	0.66	3.78	37,380	24,521	0.66	4.03	35,700	23,419	0.66	4.33	33,600	22,042	0.66	4.75
19	66	18	64	44,520	23,863	0.54	3.49	43,260	23,187	0.54	3.65	42,000	22,512	0.54	3.91	40,740	21,837	0.54	4.16	39,060	20,936	0.54	4.41	36,540	19,585	0.54	4.83
20	68	16	61	41,580	28,940	0.70	3.40	40,320	28,063	0.70	3.57	39,060	27,186	0.70	3.78	37,380	26,016	0.70	4.03	35,700	24,847	0.70	4.33	33,600	23,386	0.70	4.75
20	68	18	64	44,520	25,644	0.58	3.49	43,260	24,918	0.58	3.65	42,000	24,192	0.58	3.91	40,740	23,466	0.58	4.16	39,060	22,499	0.58	4.41	36,540	21,047	0.58	4.83
20	68	20	68	47,880	21,833	0.46	3.57	47,040	21,450	0.46	3.78	45,780	20,876	0.46	3.99	44,520	20,301	0.46	4.24	42,420	19,344	0.46	4.54	39,060	17,811	0.46	4.96
22	72	16	61	41,580	32,266	0.78	3.40	40,320	31,288	0.78	3.57	39,060	30,311	0.78	3.78	37,380	29,007	0.78	4.03	35,700	27,703	0.78	4.33	33,600	26,074	0.78	4.75
22	72	18	64	44,520	29,205	0.66	3.49	43,260	28,379	0.66	3.65	42,000	27,552	0.66	3.91	40,740	26,725	0.66	4.16	39,060	25,623	0.66	4.41	36,540	23,970	0.66	4.83
22	72	20	68	47,880	25,664	0.54	3.57	47,040	25,213	0.54	3.78	45,780	24,538	0.54	3.99	44,520	23,863	0.54	4.24	42,420	22,737	0.54	4.54	39,060	20,936	0.54	4.96
24	75	16	61	41,580	35,592	0.86	3.40	40,320	34,514	0.86	3.57	39,060	33,435	0.86	3.78	37,380	31,997	0.86	4.03	35,700	30,559	0.86	4.33	33,600	28,762	0.86	4.75
24	75	18	64	44,520	32,767	0.74	3.49	43,260	31,839	0.74	3.65	42,000	30,912	0.74	3.91	40,740	29,985	0.74	4.16	39,060	28,748	0.74	4.41	36,540	26,893	0.74	4.83
24	75	20	68	47,880	29,494	0.62	3.57	47,040	28,977	0.62	3.78	45,780	28,200	0.62	3.99	44,520	27,424	0.62	4.24	42,420	26,131	0.62	4.54	39,060	24,061	0.62	4.96
24	75	22	72	50,820	25,207	0.50	3.65	49,980	24,790	0.50	3.82	48,720	24,165	0.50	4.07	47,460	23,540	0.50	4.33	45,780	22,707	0.50	4.66	42,420	21,040	0.50	5.12
26	79	16	61	41,580	38,919	0.94	3.40	40,320	37,740	0.94	3.57	39,060	36,560	0.94	3.78	37,380	34,988	0.94	4.03	35,700	33,415	0.94	4.33	33,600	31,450	0.94	4.75
26	79	18	64	44,520	36,328	0.82	3.49	43,260	35,300	0.82	3.65	42,000	34,272	0.82	3.91	40,740	33,244	0.82	4.16	39,060	31,873	0.82	4.41	36,540	29,817	0.82	4.83
26	79	20	68	47,880	33,324	0.70	3.57	47,040	32,740	0.70	3.78	45,780	31,863	0.70	3.99	44,520	30,986	0.70	4.24	42,420	29,524	0.70	4.54	39,060	27,186	0.70	4.96
26	79	22	72	50,820	29,272	0.58	3.65	49,980	28,788	0.58	3.82	48,720	28,063	0.58	4.07	47,460	27,337	0.58	4.33	45,780	26,369	0.58	4.66	42,420	24,434	0.58	5.12
27	81	16	61	41,580	40,582	0.98	3.40	40,320	39,352	0.98	3.57	39,060	38,123	0.98	3.78	37,380	36,483	0.98	4.03	35,700	34,843	0.98	4.33	33,600	32,794	0.98	4.75
27	81	18	64	44,520	38,109	0.86	3.49	43,260	37,031	0.86	3.65	42,000	35,952	0.86	3.91	40,740	34,873	0.86	4.16	39,060	33,435	0.86	4.41	36,540	31,278	0.86	4.83
27	81	20	68	47,880	35,240	0.74	3.57	47,040	34,621	0.74	3.78	45,780	33,694	0.74	3.99	44,520	32,767	0.74	4.24	42,420	31,221	0.74	4.54	39,060	28,748	0.74	4.96
27	81	22	72	50,820	31,305	0.62	3.65	49,980	30,788	0.62	3.82	48,720	30,012	0.62	4.07	47,460	29,235	0.62	4.33	45,780	28,200	0.62	4.66	42,420	26,131	0.62	5.12
28	82	16	61	41,580	41,580	1.00	3.40	40,320	40,320	1.00	3.57	39,060	39,060	1.00	3.78	37,380	37,380	1.00	4.03	35,700	35,700	1.00	4.33	33,600	33,600	1.00	4.75
28	82	18	64	44,520	39,890	0.90	3.49	43,260	38,761	0.90	3.65	42,000	37,632	0.90	3.91	40,740	36,503	0.90	4.16	39,060	34,998	0.90	4.41	36,540	32,740	0.90	4.83
28	82	20	68	47,880	37,155	0.78	3.57	47,040	36,503	0.78	3.78	45,780	35,525	0.78	3.99	44,520	34,548	0.78	4.24	42,420	32,918	0.78	4.54	39,060	30,311	0.78	4.96
28	82	22	72	50,820	33,338	0.66	3.65	49,980	32,787	0.66	3.82	48,720	31,960	0.66	4.07	47,460	31,134	0.66	4.33	45,780	30,332	0.66	4.66	42,420	27,828	0.66	5.12
30	86	16	61	41,580	41,580	1.00	3.40	40,320	40,320	1.00	3.57	39,060	39,060	1.00	3.78	37,380	37,380	1.00	4.03	35,700	35,700	1.00	4.33	33,600	33,600	1.00	4.75
30	86	18	64	44,520	43,452	0.98	3.49	43,260	42,222	0.98	3.65	42,000	40,992	0.98	3.91	40,740	39,762	0.98	4.16	39,060	38,123	0.98	4.41	36,540	35,663	0.98	4.83
30	86	20	68	47,880	40,985	0.86	3.57	47,040	40,266	0.86	3.78	45,780	39,188	0.86	3.99	44,520	38,109	0.86	4.24	42,420	36,312	0.86	4.54	39,060	33,435	0.86	4.96
30	86	22	72	50,820	37,404	0.74	3.65	49,980	36,785	0.74	3.82	48,720	35,858	0.74	4.07	47,460	34,931	0.74	4.33	45,780	33,694	0.74	4.66	42,420	31,221	0.74	5.12
32	90	16	61	41,580	41,580	1.00	3.40	40,320	40,320	1.00	3.57	39,060	39,060	1.00	3.78	37,380	37,380	1.00	4.03	35,700	35,700	1.00	4.33	33,600	33,600	1.00	4.75
32	90	18	64	44,520	44,520	1.00	3.49	43,260	43,260	1.00	3.65	42,000	42,000	1.00	3.91	40,740	40,740	1.00	4.16	39,060	39,060	1.00	4.41	36,540	36,540	1.00	4.83
32	90	20	68	47,880	44,816	0.94	3.57	47,040	44,029	0.94	3.78	45,780	42,850	0.94	3.99	44,520	41,671	0.94	4.24	42,420	39,705	0.94	4.54	39,060	36,560	0.94	4.96
32	90	22	72	50,820	41,469	0.82	3.65	49,980	40,784	0.82	3.82	48,720	39,756	0.82	4.07	47,460	38,727	0.82	4.33	45,780	37,356	0.82	4.66	42,420	34,615	0.82	5.12

PVA-A30AA7/PUZ-HA30NHA5

CAPACITY (Btu/h): 28,500 INPUT (kW): 2.28 SHF: 0.70

Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Indoor intake air W.B.(°C)	Indoor intake air W.B.(°F)	Outdoor intake air °C/°F D.B.																							
				20/68				25/77				30/86				35/95				40/104				46/115			
				CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
19	66	16	61	28,215	16,816	0.60	1.85	27,360	16,307	0.60	1.94	26,505	15,797	0.60	2.05	25,365	15,118	0.60	2.19	24,225	14,438	0.60	2.35	22,800	13,589	0.60	2.58
19	66	18	64	30,210	14,380	0.48	1.89	29,355	13,973	0.48	1.98	28,500	13,566	0.48	2.12	27,645	13,159	0.48	2.26	26,505	12,616	0.48	2.39	24,795	11,802	0.48	2.62
20	68	16	61	28,215	17,945	0.64	1.85	27,360	17,401	0.64	1.94	26,505	16,857	0.64	2.05	25,365	16,132	0.64	2.19	24,225	15,407	0.64	2.35	22,800	14,501	0.64	2.58
20	68	18	64	30,210	15,588	0.52	1.89	29,355	15,147	0.52	1.98	28,500	14,706	0.52	2.12	27,645	14,265	0.52	2.26	26,505	13,677	0.52	2.39	24,795	12,794	0.52	2.62
20	68	20	68	32,490	12,866	0.40	1.94	31,920	12,640	0.40	2.05	31,065	12,302	0.40	2.17	30,210	11,963	0.40	2.30	28,785	11,399	0.40	2.46	26,505	10,496	0.40	2.69
22	72	16	61	28,215	20,202	0.72	1.85	27,360	19,590	0.72	1.94	26,505	18,978	0.72	2.05	25,365	18,161	0.72	2.19	24,225	17,345	0.72	2.35	22,800	16,325	0.72	2.58
22	72	18	64	30,210	18,005	0.60	1.89	29,355	17,496	0.60	1.98	28,500	16,986	0.60	2.12	27,645	16,476	0.60	2.26	26,505	15,797	0.60	2.39	24,795	14,778	0.60	2.62
22	72	20	68	32,490	15,465	0.48	1.94	31,920	15,194	0.48	2.05	31,065	14,787	0.48	2.17	30,210	14,380	0.48	2.30	28,785	13,702	0.48	2.46	26,505	12,616	0.48	2.69
24	75	16	61	28,215	22,459	0.80	1.85	27,360	21,779	0.80	1.94	26,505	21,098	0.80	2.05	25,365	20,191	0.80	2.19	24,225	19,283	0.80	2.35	22,800	18,149	0.80	2.58
24	75	18	64	30,210	20,422	0.68	1.89	29,35																			

PVA-A36AA7/PUZ-HA36NHA5

CAPACITY (Btu/h): 33,000 INPUT (kW): 2.64 SHF: 0.74

Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Indoor intake air W.B.(°C)	Indoor intake air W.B.(°F)	Outdoor intake air °C/°F D.B.																							
				20/68				25/77				30/86				35/95				40/104				46/115			
				CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
19	66	16	61	32,670	20,778	0.64	2.14	31,680	20,148	0.64	2.24	30,690	19,519	0.64	2.38	29,370	18,679	0.64	2.53	28,050	17,840	0.64	2.72	26,400	16,790	0.64	2.98
19	66	18	64	34,980	18,050	0.52	2.19	33,990	17,539	0.52	2.30	33,000	17,028	0.52	2.46	32,010	16,517	0.52	2.61	30,690	15,836	0.52	2.77	28,710	14,814	0.52	3.04
20	68	16	61	32,670	22,085	0.68	2.14	31,680	21,416	0.68	2.24	30,690	20,746	0.68	2.38	29,370	19,854	0.68	2.53	28,050	18,962	0.68	2.72	26,400	17,846	0.68	2.98
20	68	18	64	34,980	19,449	0.56	2.19	33,990	18,898	0.56	2.30	33,000	18,348	0.56	2.46	32,010	17,798	0.56	2.61	30,690	17,064	0.56	2.77	28,710	15,963	0.56	3.04
20	68	20	68	37,620	16,402	0.44	2.24	36,960	16,115	0.44	2.38	35,970	15,683	0.44	2.51	34,980	15,251	0.44	2.67	33,330	14,532	0.44	2.85	30,690	13,381	0.44	3.12
22	72	16	61	32,670	24,699	0.76	2.14	31,680	23,950	0.76	2.24	30,690	23,202	0.76	2.38	29,370	22,204	0.76	2.53	28,050	21,206	0.76	2.72	26,400	19,958	0.76	2.98
22	72	18	64	34,980	22,247	0.64	2.19	33,990	21,618	0.64	2.30	33,000	20,988	0.64	2.46	32,010	20,358	0.64	2.61	30,690	19,519	0.64	2.77	28,710	18,260	0.64	3.04
22	72	20	68	37,620	19,412	0.52	2.24	36,960	19,071	0.52	2.38	35,970	18,561	0.52	2.51	34,980	18,050	0.52	2.67	33,330	17,198	0.52	2.85	30,690	15,836	0.52	3.12
24	75	16	61	32,670	27,312	0.84	2.14	31,680	26,484	0.84	2.24	30,690	25,657	0.84	2.38	29,370	24,553	0.84	2.53	28,050	23,450	0.84	2.72	26,400	22,070	0.84	2.98
24	75	18	64	34,980	25,046	0.72	2.19	33,990	24,337	0.72	2.30	33,000	23,628	0.72	2.46	32,010	22,919	0.72	2.61	30,690	22,974	0.72	2.77	28,710	20,556	0.72	3.04
24	75	20	68	37,620	22,422	0.60	2.24	36,960	22,028	0.60	2.38	35,970	21,438	0.60	2.51	34,980	20,848	0.60	2.67	33,330	19,865	0.60	2.85	30,690	18,291	0.60	3.12
24	75	22	72	39,930	19,007	0.48	2.30	39,270	18,693	0.48	2.40	38,280	18,221	0.48	2.56	37,290	17,750	0.48	2.72	35,970	17,122	0.48	2.93	33,330	15,865	0.48	3.22
26	79	16	61	32,670	29,926	0.92	2.14	31,680	29,019	0.92	2.24	30,690	28,112	0.92	2.38	29,370	26,903	0.92	2.53	28,050	25,694	0.92	2.72	26,400	24,182	0.92	2.98
26	79	18	64	34,980	27,844	0.80	2.19	33,990	27,056	0.80	2.30	33,000	26,268	0.80	2.46	32,010	25,480	0.80	2.61	30,690	24,429	0.80	2.77	28,710	22,853	0.80	3.04
26	79	20	68	37,620	25,431	0.68	2.24	36,960	24,985	0.68	2.38	35,970	24,316	0.68	2.51	34,980	23,646	0.68	2.67	33,330	22,531	0.68	2.85	30,690	20,746	0.68	3.12
26	79	22	72	39,930	22,201	0.56	2.30	39,270	21,834	0.56	2.40	38,280	21,284	0.56	2.56	37,290	20,733	0.56	2.72	35,970	19,999	0.56	2.93	33,330	18,531	0.56	3.22
27	81	16	61	32,670	31,233	0.96	2.14	31,680	30,286	0.96	2.24	30,690	29,340	0.96	2.38	29,370	28,078	0.96	2.53	28,050	26,816	0.96	2.72	26,400	25,238	0.96	2.98
27	81	18	64	34,980	29,243	0.84	2.19	33,990	28,416	0.84	2.30	33,000	27,588	0.84	2.46	32,010	26,760	0.84	2.61	30,690	25,657	0.84	2.77	28,710	24,002	0.84	3.04
27	81	20	68	37,620	26,936	0.72	2.24	36,960	26,463	0.72	2.38	35,970	25,755	0.72	2.51	34,980	25,046	0.72	2.67	33,330	23,864	0.72	2.85	30,690	21,974	0.72	3.12
27	81	22	72	39,930	23,798	0.60	2.30	39,270	23,405	0.60	2.40	38,280	22,815	0.60	2.56	37,290	22,225	0.60	2.72	35,970	21,438	0.60	2.93	33,330	19,865	0.60	3.22
28	82	16	61	32,670	32,539	1.00	2.14	31,680	31,553	1.00	2.24	30,690	30,567	1.00	2.38	29,370	29,253	1.00	2.53	28,050	27,938	1.00	2.72	26,400	26,294	1.00	2.98
28	82	18	64	34,980	30,642	0.88	2.19	33,990	29,775	0.88	2.30	33,000	28,908	0.88	2.46	32,010	28,041	0.88	2.61	30,690	26,884	0.88	2.77	28,710	25,150	0.88	3.04
28	82	20	68	37,620	28,441	0.76	2.24	36,960	27,942	0.76	2.38	35,970	27,193	0.76	2.51	34,980	26,445	0.76	2.67	33,330	25,197	0.76	2.85	30,690	23,202	0.76	3.12
28	82	22	72	39,930	25,395	0.64	2.30	39,270	24,976	0.64	2.40	38,280	24,346	0.64	2.56	37,290	23,716	0.64	2.72	35,970	22,877	0.64	2.93	33,330	21,198	0.64	3.22
30	86	16	61	32,670	32,670	1.00	2.14	31,680	31,680	1.00	2.24	30,690	30,690	1.00	2.38	29,370	29,370	1.00	2.53	28,050	28,050	1.00	2.72	26,400	26,400	1.00	2.98
30	86	18	64	34,980	33,441	0.96	2.19	33,990	32,494	0.96	2.30	33,000	31,548	0.96	2.46	32,010	30,602	0.96	2.61	30,690	29,340	0.96	2.77	28,710	27,447	0.96	3.04
30	86	20	68	37,620	31,450	0.84	2.24	36,960	30,899	0.84	2.38	35,970	30,071	0.84	2.51	34,980	29,243	0.84	2.67	33,330	27,864	0.84	2.85	30,690	25,657	0.84	3.12
30	86	22	72	39,930	28,590	0.72	2.30	39,270	28,117	0.72	2.40	38,280	27,407	0.72	2.56	37,290	26,700	0.72	2.72	35,970	25,755	0.72	2.93	33,330	23,864	0.72	3.22
32	90	16	61	32,670	32,670	1.00	2.14	31,680	31,680	1.00	2.24	30,690	30,690	1.00	2.38	29,370	29,370	1.00	2.53	28,050	28,050	1.00	2.72	26,400	26,400	1.00	2.98
32	90	18	64	34,980	34,980	1.00	2.19	33,990	33,990	1.00	2.30	33,000	33,000	1.00	2.46	32,010	32,010	1.00	2.61	30,690	30,690	1.00	2.77	28,710	28,710	1.00	3.04
32	90	20	68	37,620	34,460	0.92	2.24	36,960	33,855	0.92	2.38	35,970	32,949	0.92	2.51	34,980	32,042	0.92	2.67	33,330	30,530	0.92	2.85	30,690	28,112	0.92	3.12
32	90	22	72	39,930	31,784	0.80	2.30	39,270	31,259	0.80	2.40	38,280	30,471	0.80	2.56	37,290	29,683	0.80	2.72	35,970	28,632	0.80	2.93	33,330	26,531	0.80	3.22

PVA-A42AA7/PUZ-HA42NKA

CAPACITY (Btu/h): 42,000 INPUT (kW): 4.27 SHF: 0.76

Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Indoor intake air W.B.(°C)	Indoor intake air W.B.(°F)	Outdoor intake air °C/°F D.B.																							
				20/68				25/77				30/86				35/95				40/104				46/115			
				CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
19	66	16	61	41,580	27,276	0.66	3.46	40,320	26,450	0.66	3.63	39,060	25,623	0.66	3.84	37,380	24,521	0.66	4.10	35,700	23,419	0.66	4.40	33,600	22,042	0.66	4.83
19	66	18	64	44,520	23,863	0.54	3.54	43,260	23,187	0.54	3.71	42,000	22,512	0.54	3.97	40,740	21,837	0.54	4.23	39,060	20,936	0.54	4.48	36,540	19,585	0.54	4.91
20	68	16	61	41,580	28,940	0.70	3.46	40,320	28,063	0.70	3.63	39,060	27,186	0.70	3.84	37,380	26,016	0.70	4.10	35,700	24,847	0.70	4.40	33,600	23,386	0.70	4.83
20	68	18	64	44,520	25,644	0.58	3.54	43,260	24,918	0.58	3.71	42,000	24,192	0.58	3.97	40,740	23,466	0.58	4.23	39,060	22,499	0.58	4.48	36,540	21,047	0.58	4.91
20	68	20	68	47,880	21,833	0.46	3.63	47,040	21,450	0.46	3.84	45,780	20,876	0.46	4.06	44,520	20,301	0.46	4.31	42,420	19,344	0.46	4.61	39,060	17,811	0.46	5.04
22	72	16	61	41,580	32,266	0.78	3.46	40,320	31,288	0.78	3.63	39,060	30,311	0.78	3.84	37,380	29,007	0.78	4.10	35,700	27,703	0.78	4.40	33,600	26,074	0.78	4.83
22	72	18	64	44,520	29,205	0.66	3.54	43,260	28,379	0.66	3.71	42,000	27,552	0.66	3.97	40,740	26,725	0.66	4.23	39,060	25,623	0.66	4.48	36,540	23,970	0.66	4.91
22	72	20	68	47,880	25,664	0.54	3.63	47,040	25,213	0.54	3.84	45,780	24,538	0.54	4.06	44,520	23,863	0.54	4.31	42,420	22,737	0.54	4.61	39,060	20,936	0.54	5.04
24	75	16	61	41,580	35,592	0.86	3.46	40,320	34,514	0.86	3.63	39,060	33,435	0.86	3.84	37,380	31,997	0.86	4.10	35,700	30,559	0.86	4.40	33,600	28,762	0.86	4.83
24	75	18	64	44,520	32,767	0.74	3.54	43,260																			

8-2-2. HEATING CAPACITY PUZ-HA-NHA5 PUZ-HA-NKA

Model Name	Capacity Btu/h	Input kW	Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Outdoor intake air °C/°F W.B.																	
					-25/-13		-20/-4		-15/5		-10/14		-5 / 23		0 / 32		5 / 41		10 / 50		15 / 59	
					CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.
PLA-A30EA7	32,000	3.33	16	60	26,880	6.16	30,080	6.11	33,280	6.06	33,280	5.69	33,280	5.23	33,280	4.27	33,280	3.22	36,480	3.55	40,320	3.76
			21	70	25,600	6.37	28,800	6.31	32,000	6.26	32,000	5.89	32,000	5.43	32,000	4.47	32,000	3.50	35,200	3.75	38,880	4.05
			27	80	24,320	6.58	27,520	6.53	30,720	6.47	30,720	6.11	30,720	5.64	30,720	4.69	30,720	3.75	33,920	4.03	37,600	4.38
PLA-A36EA7	38,000	3.13	16	60	31,920	5.79	35,720	5.74	39,520	5.70	39,520	5.35	39,520	4.91	39,520	4.01	39,520	3.03	43,320	3.33	47,880	3.54
			21	70	30,400	5.99	34,200	5.93	38,000	5.88	38,000	5.54	38,000	5.10	38,000	4.20	38,000	3.29	41,800	3.52	46,170	3.80
			27	80	28,880	6.18	32,680	6.13	36,480	6.08	36,480	5.74	36,480	5.31	36,480	4.41	36,480	3.52	40,280	3.79	44,650	4.12
PLA-A42EA7	48,000	4.56	16	60	40,320	8.44	45,120	8.37	49,920	8.30	49,920	7.80	49,920	7.16	49,920	5.85	49,920	4.41	54,720	4.86	60,480	5.15
			21	70	38,400	8.72	43,200	8.64	48,000	8.57	48,000	8.07	48,000	7.43	48,000	6.12	48,000	4.80	52,800	5.13	58,320	5.54
			27	80	36,480	9.01	41,280	8.94	46,080	8.86	46,080	8.37	46,080	7.73	46,080	6.42	46,080	5.13	50,880	5.52	56,400	6.00

Model Name	Capacity Btu/h	Input kW	Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Outdoor intake air °C/°F W.B.																	
					-25/-13		-20/-4		-15/5		-10/14		-5 / 23		0 / 32		5 / 41		10 / 50		15 / 59	
					CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.
PKA-A30EA7	32,000	2.93	16	60	26,880	5.42	30,080	5.38	33,280	5.33	33,280	5.01	33,280	4.60	33,280	3.76	33,280	2.83	36,480	3.12	40,320	3.31
			21	70	25,600	5.60	28,800	5.55	32,000	5.51	32,000	5.19	32,000	4.78	32,000	3.93	32,000	3.08	35,200	3.30	38,880	3.56
			27	80	24,320	5.79	27,520	5.74	30,720	5.69	30,720	5.38	30,720	4.97	30,720	4.12	30,720	3.30	33,920	3.55	37,600	3.85
PKA-A36EA7	38,000	3.41	16	60	31,920	6.31	35,720	6.26	39,520	6.21	39,520	5.83	39,520	5.35	39,520	4.37	39,520	3.30	43,320	3.63	47,880	3.85
			21	70	30,400	6.52	34,200	6.46	38,000	6.41	38,000	6.04	38,000	5.56	38,000	4.58	38,000	3.59	41,800	3.84	46,170	4.14
			27	80	28,880	6.73	32,680	6.68	36,480	6.62	36,480	6.26	36,480	5.78	36,480	4.80	36,480	3.84	40,280	4.13	44,650	4.48

Model Name	Capacity Btu/h	Input kW	Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Outdoor intake air °C/°F W.B.																	
					-25/-13		-20/-4		-15/5		-10/14		-5 / 23		0 / 32		5 / 41		10 / 50		15 / 59	
					CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.
PCA-A30KA7	32,000	2.99	16	60	26,880	5.53	30,080	5.49	33,280	5.44	33,280	5.11	33,280	4.69	33,280	3.83	33,280	2.89	36,480	3.18	40,320	3.38
			21	70	25,600	5.72	28,800	5.67	32,000	5.62	32,000	5.29	32,000	4.87	32,000	4.01	32,000	3.15	35,200	3.36	38,880	3.63
			27	80	24,320	5.91	27,520	5.86	30,720	5.81	30,720	5.49	30,720	5.07	30,720	4.21	30,720	3.35	33,920	3.62	37,600	3.93
PCA-A36KA7	38,000	3.27	16	60	31,920	6.05	35,720	6.00	39,520	5.95	39,520	5.59	39,520	5.13	39,520	4.19	39,520	3.16	43,320	3.48	47,880	3.70
			21	70	30,400	6.25	34,200	6.20	38,000	6.15	38,000	5.79	38,000	5.33	38,000	4.39	38,000	3.44	41,800	3.68	46,170	3.97
			27	80	28,880	6.46	32,680	6.41	36,480	6.35	36,480	6.00	36,480	5.54	36,480	4.60	36,480	3.68	40,280	3.96	44,650	4.30
PCA-A42KA7	48,000	4.15	16	60	40,320	7.68	45,120	7.62	49,920	7.55	49,920	7.10	49,920	6.52	49,920	5.32	49,920	4.02	54,720	4.42	60,480	4.69
			21	70	38,400	7.94	43,200	7.86	48,000	7.80	48,000	7.35	48,000	6.76	48,000	5.57	48,000	4.37	52,800	4.67	58,320	5.04
			27	80	36,480	8.20	41,280	8.13	46,080	8.06	46,080	7.62	46,080	7.03	46,080	5.84	46,080	4.67	50,880	5.02	56,400	5.46

Model Name	Capacity Btu/h	Input kW	Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Outdoor intake air °C/°F W.B.																	
					-25/-13		-20/-4		-15/5		-10/14		-5 / 23		0 / 32		5 / 41		10 / 50		15 / 59	
					CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.
PEAD-A30AA7	32,000	2.75	16	60	26,880	5.09	30,080	5.05	33,280	5.01	33,280	4.70	33,280	4.32	33,280	3.53	33,280	2.66	36,480	2.93	40,320	3.11
			21	70	25,600	5.26	28,800	5.21	32,000	5.17	32,000	4.87	32,000	4.48	32,000	3.69	32,000	2.89	35,200	3.09	38,880	3.34
			27	80	24,320	5.43	27,520	5.39	30,720	5.34	30,720	5.05	30,720	4.66	30,720	3.87	30,720	3.09	33,920	3.33	37,600	3.62
PEAD-A36AA7	38,000	3.15	16	60	31,920	5.83	35,720	5.78	39,520	5.73	39,520	5.39	39,520	4.95	39,520	4.04	39,520	3.05	43,320	3.35	47,880	3.56
			21	70	30,400	6.02	34,200	5.97	38,000	5.92	38,000	5.58	38,000	5.13	38,000	4.23	38,000	3.32	41,800	3.54	46,170	3.83
			27	80	28,880	6.22	32,680	6.17	36,480	6.12	36,480	5.78	36,480	5.34	36,480	4.43	36,480	3.54	40,280	3.81	44,650	4.14
PEAD-A42AA7	48,000	4.20	16	60	40,320	7.77	45,120	7.71	49,920	7.64	49,920	7.18	49,920	6.59	49,920	5.39	49,920	4.06	54,720	4.47	60,480	4.75
			21	70	38,400	8.03	43,200	7.96	48,000	7.90	48,000	7.43	48,000	6.85	48,000	5.64	48,000	4.42	52,800	4.73	58,320	5.10
			27	80	36,480	8.30	41,280	8.23	46,080	8.16	46,080	7.71	46,080	7.12	46,080	5.91	46,080	4.73	50,880	5.08	56,400	5.52

Model Name	Capacity Btu/h	Input kW	Indoor intake air D.B.(°C)	Indoor intake air D.B.(°F)	Outdoor intake air °C/°F W.B.																	
					-25/-13		-20/-4		-15/5		-10/14		-5 / 23		0 / 32		5 / 41		10 / 50		15 / 59	
					CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.
PVA-A30AA7	32,000	2.59	16	60	26,880	4.79	30,080	4.75	33,280	4.71	33,280	4.43	33,280	4.07	33,280	3.32	33,280	2.51	36,480	2.76	40,320	2.93
			21	70	25,600	4.95	28,800	4.91	32,000	4.87	32,000	4.58	32,000	4.22	32,000	3.48	32,000	2.73	35,200	2.91	38,880	3.15
			27	80	24,320	5.12	27,520	5.08	30,720	5.03	30,720	4.75	30,720	4.39	30,720	3.65	30,720	2.91	33,920	3.13	37,600	3.41
PVA-A36AA7	38,000	3.04	16	60	31,920	5.62	35,720	5.58	39,520	5.53	39,520	5.20	39,520	4.77	39,520	3.90	39,520	2.94	43,320	3.24	47,880	3.44
			21	70	30,400	5.81	34,200	5.76	38,000	5.72	38,000	5.38	38,000	4.96	38,000	4.08	38,000	3.20	41,800	3.42	46,170	3.69
			27	80	28,880	6.00	32,680	5.96	36,480	5.91	36,480	5.58	36,480	5.15	36,480	4.28	36,480	3.42	40,280	3.68	44,650	4.00
PVA-A42AA7	48,000	4.01	16	60	40,320	7.42	45,120	7.36	49,920	7.30	49,920	6.86	49,920	6.30	49,920	5.14	49,920	3.88	54,720	4.27	60,480	4.53
			21	70	38,400	7.67	43,200	7.60	48,000	7.54	48,000	7.10	48,000	6.54	48,000	5.38	48,000	4.22	52,800	4.51	58,320	4.87
			27	80	36,480	7.92	41,280	7.86	46,080	7.79	46,080	7.36	46,080	6.80	46,080	5.64	46,080	4.51	50,880	4.85	56,400	5.27

Note: CA : Capacity (Btu/h) P.C. : Power consumption (kW)
D.B. : Dry-bulb temperature W.B. : Wet-bulb temperature

9 | CORRECTION FACTORS

9-1. INVERTER

9-1-1. PUZ-A series

■ COOLING CAPACITY CORRECTION FACTORS

Outdoor unit	Refrigerant piping length (one way)					
	5m (16ft)	10m (33ft)	20m (70ft)	30m (100ft)	40m (130ft)	50m (165ft)
PUZ-A12/18	1.00	0.985	0.948	0.916	–	–
PUZ-A24/30	1.00	0.988	0.964	0.938	0.915	0.893
PUZ-A36/42	1.00	0.985	0.948	0.916	0.886	0.859

■ HEATING CAPACITY CORRECTION FACTORS

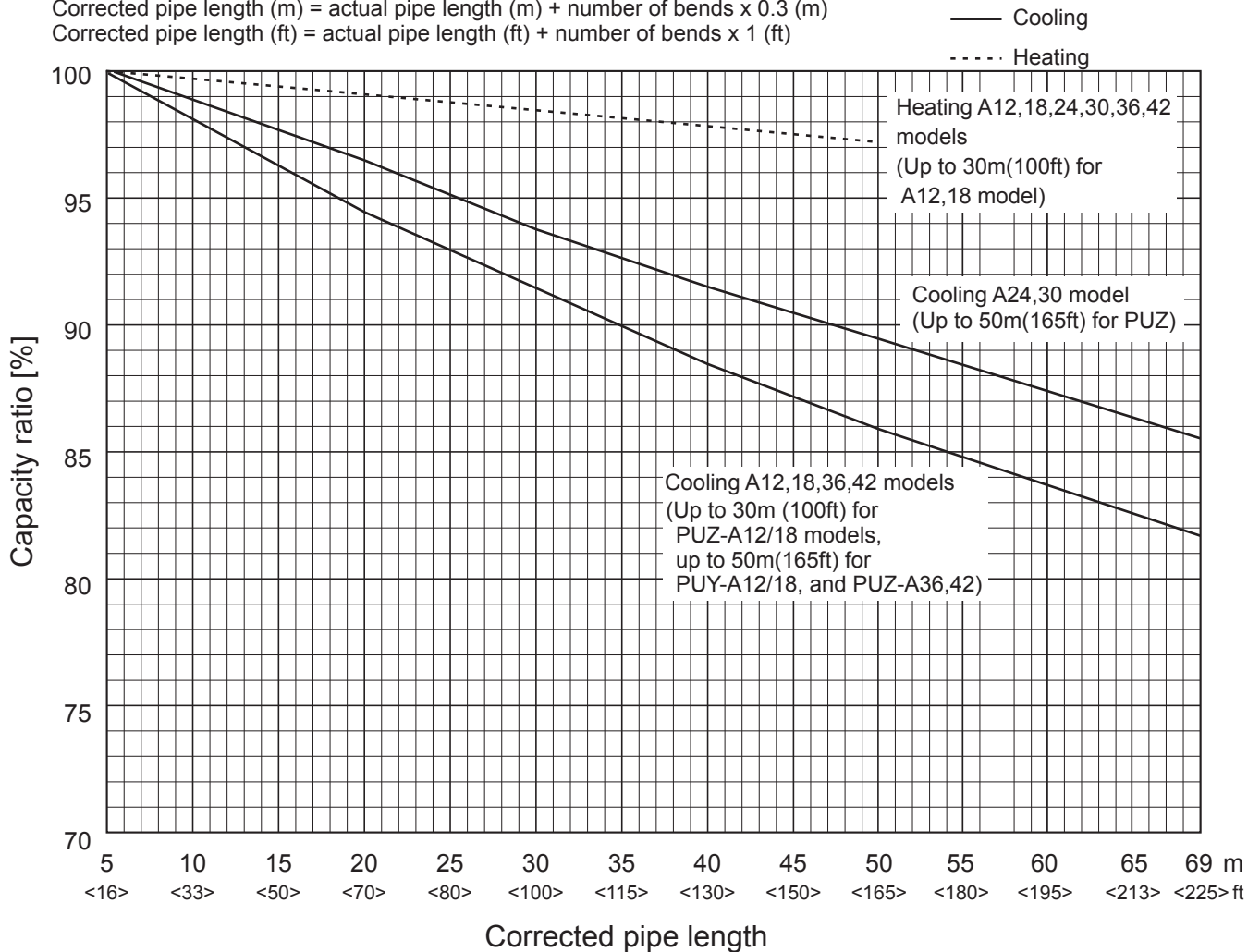
Outdoor unit	Refrigerant piping length (one way)					
	5m (16ft)	10m (33ft)	20m (70ft)	30m (100ft)	40m (130ft)	50m (165ft)
PUZ-A12/18	1.00	0.997	0.991	0.985	–	–
PUZ-A24/30	1.00	0.997	0.991	0.985	0.979	0.973
PUZ-A36/42	1.00	0.997	0.991	0.985	0.979	0.973

■ CAPACITY CORRECTION

Cooling and heating capacity is lowered according to pipe length. Capacity can be obtained by referring to the capacity curves below.

Corrected pipe length (m) = actual pipe length (m) + number of bends x 0.3 (m)

Corrected pipe length (ft) = actual pipe length (ft) + number of bends x 1 (ft)



9-1-2. PUY-A series

■ COOLING CAPACITY CORRECTION FACTORS

Outdoor unit	Refrigerant piping length (one way)							
	5m (16ft)	10m (33ft)	20m (70ft)	30m (100ft)	40m (130ft)	50m (165ft)	60m (195ft)	69m (225ft)
PUY-A12/18	1.00	0.985	0.948	0.916	0.886	0.859	—	—
PUY-A24/30	1.00	0.988	0.964	0.938	0.915	0.893	0.872	0.855
PUY-A36/42	1.00	0.985	0.948	0.916	0.886	0.859	0.838	0.818

9-1-3. ADDITION OF REFRIGERANT

- Additional charging is not necessary if the pipe length does not exceed 21 m(70 ft) for A12-A30 or 30 m(100 ft) for A36/42.
- If the pipe length exceeds the specified length above, charge the unit with additional R410A refrigerant according to the permitted pipe lengths in the chart below.
 - * When the unit is stopped, charge the unit with the additional refrigerant through the liquid stop valve after the pipe extensions and indoor unit have been vacuumized.
 - * When the unit is operating, add refrigerant to the gas check valve using a safety charger. Do not add liquid refrigerant directly to the check valve.
 - * After charging the unit with refrigerant, note the added refrigerant amount on the service label (attached to the unit).
- Be careful when installing multiple units. Connecting to an incorrect indoor unit can lead to abnormally high pressure and have a serious effect on operation performance.

■ PUZ-A series

Model	Max. pipe length	Max. height difference	Additional refrigerant charging amount (kg/oz)										
			21 m 70 ft	24 m 80 ft	27 m 90 ft	30 m 100 ft	34 m 110 ft	37 m 120 ft	40 m 130 ft	43 m 140 ft	46 m 150 ft	49 m 160 ft	50 m 165 ft
PUZ-A12/18	30 m, 100 ft	30 m, 100 ft	0	0.06 kg 2 oz	0.11 kg 4 oz	0.17 kg 6 oz	-	-	-	-	-	-	-
PUZ-A24/30	50 m, 165 ft	30 m, 100 ft	0	0.2 kg 7 oz	0.4 kg 14 oz	0.6 kg 21 oz	0.79 kg 28 oz	0.99 kg 35 oz	1.19 kg 42 oz	1.39 kg 49 oz	1.59 kg 56 oz	1.79 kg 63 oz	1.89 kg 66.5 oz
PUZ-A36/42	50 m, 165 ft	30 m, 100 ft	0	0	0	0	0.2 kg 7 oz	0.4 kg 14 oz	0.6 kg 21 oz	0.79 kg 28 oz	0.99 kg 35 oz	1.19 kg 42 oz	1.29 kg 45.5 oz

■ PUY-A series

Model	Max. pipe length	Max. height difference	Additional refrigerant charging amount (kg/oz)																	
			21 m 70 ft	24 m 80 ft	27 m 90 ft	30 m 100 ft	34 m 110 ft	37 m 120 ft	40 m 130 ft	43 m 140 ft	46 m 150 ft	49 m 160 ft	50 m 165 ft	52 m 170 ft	55 m 180 ft	58 m 190 ft	61 m 200 ft	64 m 210 ft	67 m 220 ft	69 m 225 ft
PUY-A12/18	50 m, 165 ft	30 m, 100 ft	0	0.03 kg 1 oz	0.06 kg 2 oz	0.09 kg 3 oz	0.11 kg 4 oz	0.14 kg 5 oz	0.17 kg 6 oz	0.20 kg 7 oz	0.23 kg 8 oz	0.26 kg 9 oz	0.27 kg 9.5 oz	-	-	-	-	-	-	-
PUY-A24/30	69 m, 225 ft	30 m, 100 ft	0	0.09 kg 3 oz	0.17 kg 6 oz	0.26 kg 9 oz	0.34 kg 12 oz	0.43 kg 15 oz	0.51 kg 18 oz	0.60 kg 21 oz	0.68 kg 24 oz	0.77 kg 27 oz	0.81 kg 28.5 oz	0.85 kg 30 oz	0.94 kg 33 oz	1.02 kg 36 oz	1.11 kg 39 oz	1.19 kg 42 oz	1.28 kg 45 oz	1.32 kg 46.5 oz
PUY-A36/42	69 m, 225 ft	30 m, 100 ft	0	0	0	0	0.09 kg 3 oz	0.17 kg 6 oz	0.26 kg 9 oz	0.34 kg 12 oz	0.43 kg 15 oz	0.51 kg 18 oz	0.55 kg 20 oz	0.60 kg 21 oz	0.68 kg 24 oz	0.77 kg 27 oz	0.85 kg 30 oz	0.94 kg 33 oz	1.02 kg 36 oz	1.06 kg 37.5 oz

9-2. HYPER HEATING INVERTER

9-2-1. COOLING CAPACITY CORRECTION FACTORS

Outdoor unit	Refrigerant piping length (one way)									
	5m (16ft)	10m (33ft)	20m (70ft)	30m (100ft)	40m (130ft)	50m (165ft)	55m (180ft)	60m (195ft)	70m (230ft)	75m (245ft)
PUZ-HA30NHA5 PUZ-HA36NHA5 PUZ-HA42NKA	1.00	0.985	0.957	0.931	0.908	0.886	0.876	0.865	0.846	0.838

9-2-2. HEATING CAPACITY CORRECTION FACTORS

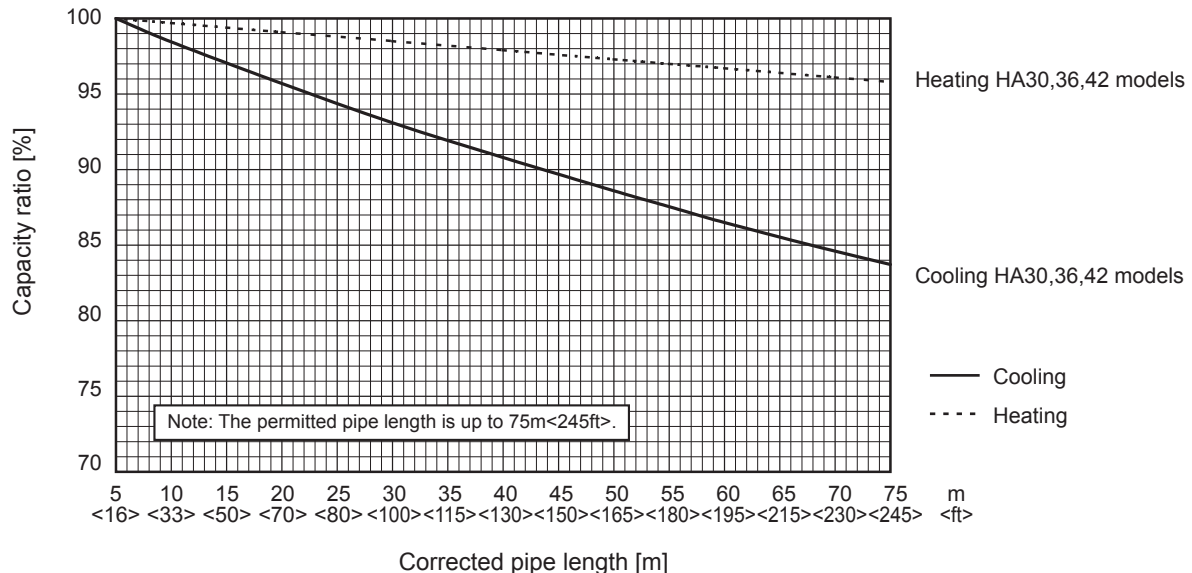
Outdoor unit	Refrigerant piping length (one way)									
	5m (16ft)	10m (33ft)	20m (70ft)	30m (100ft)	40m (130ft)	50m (165ft)	55m (180ft)	60m (195ft)	70m (230ft)	75m (245ft)
PUZ-HA30NHA5 PUZ-HA36NHA5 PUZ-HA42NKA	1.00	0.997	0.991	0.985	0.979	0.973	0.970	0.967	0.961	0.958

9-2-3. CAPACITY CORRECTION

Cooling and heating capacity is lowered according to pipe length. Capacity can be obtained by referring to the capacity curves below.

Corrected pipe length (m) = actual pipe length (m) + number of bends x 0.3 (m)

Corrected pipe length (ft) = actual pipe length (ft) + number of bends x 1 (ft)



When HAs pipe is one size larger than standard size, capacity can be obtained by referring to capacity curves of standard size.

9-2-4. ADDITION OF REFRIGERANT

- Additional charging is not necessary if the pipe length does not exceed 30 m (100 ft).
- If the pipe length exceeds the specified length above, charge the unit with additional R410A refrigerant according to the permitted pipe lengths in the chart below.
 - * When the unit is stopped, charge the unit with the additional refrigerant through the liquid stop valve after the pipe extensions and indoor unit have been vacuumized.
 - * When the unit is operating, add refrigerant to the gas check valve using a safety charger. Do not add liquid refrigerant directly to the check valve.
 - * After charging the unit with refrigerant, note the added refrigerant amount on the service label (attached to the unit).
- Be careful when installing multiple units. Connecting to an incorrect indoor unit can lead to abnormally high pressure and have a serious effect on operation performance.

Model	Max. pipe length	Max. height difference	Additional refrigerant charging amount															
			30 m 100 ft	33 m 110 ft	37 m 120 ft	40 m 130 ft	43 m 140 ft	46 m 150 ft	49 m 160 ft	52 m 170 ft	55 m 180 ft	58 m 190 ft	61 m 200 ft	64 m 210 ft	67 m 220 ft	70 m 230 ft	73 m 240 ft	75 m 245 ft
HA30, HA36, HA42	75 m 245 ft	30 m 100 ft	0 oz 0 kg	6 oz 0.2 kg	12 oz 0.4 kg	18 oz 0.5 kg	24 oz 0.7 kg	30 oz 0.9 kg	36 oz 1.0 kg	42 oz 1.2 kg	48 oz 1.4 kg	54 oz 1.5 kg	60 oz 1.7 kg	66 oz 1.9 kg	72 oz 2.0 kg	78 oz 2.2 kg	84 oz 2.3 kg	86 oz 2.4 kg

10 | AIR FLOW DATA

10-1. OUTLET AIR SPEED AND COVERAGE RANGE

		PLA-A12EA7	PLA-A18EA7	PLA-A24EA7	PLA-A30EA7	PLA-A36EA7	PLA-A42EA7
Air flow	CFM	530	600	810	880	1200	1200
Air speed	ft/sec.(m/sec.)	7.8(2.4)	8.8(2.7)	11.9(3.6)	12.9(3.9)	17.6(5.4)	17.6(5.4)
Coverage range	ft(m)	13(3.9)	14(4.4)	19(5.8)	21(6.3)	28(8.5)	28(8.5)

		PKA-A12HA7	PKA-A18HA7
Air flow	CFM	425	425
Air speed	ft/sec.(m/sec.)	20.0(6.1)	20.0(6.1)
Coverage range	ft(m)	35(10.8)	35(10.8)

		PKA-A24KA7	PKA-A30KA7	PKA-A36KA7
Air flow	CFM	775	775	920
Air speed	ft/sec.(m/sec.)	19.7(6.0)	19.7(6.0)	22.3(6.8)
Coverage range	ft(m)	47(14.3)	47(14.3)	53(16.1)

		PCA-A24KA7	PCA-A30KA7	PCA-A36KA7	PCA-A42KA7
Air flow	CFM	670	705	990	1025
Air speed	ft/sec.(m/sec.)	10.2(3.1)	10.5(3.2)	11.8(3.6)	12.1(3.7)
Coverage range	ft(m)	32(9.6)	33(10.1)	41(12.5)	42(12.9)

The air coverage range is the distance to which the 0.8 ft/sec. air can reach, when air is blown out horizontally from the unit at the High notch position.

The coverage range should be used only as a general guideline since it varies according to the size of the room and the furniture inside the room.

10-2. PLA-A·EA7

10-2-1. FRESH AIR INTAKE AND BRANCH DUCT

1. Branch duct hole and fresh air intake hole (Fig. 1)

At the time of installation, use the duct holes (cut out) located at the positions shown in Fig.1, as and when required.
 • A fresh air intake hole for the optional multi function casement can also be made.

Note:

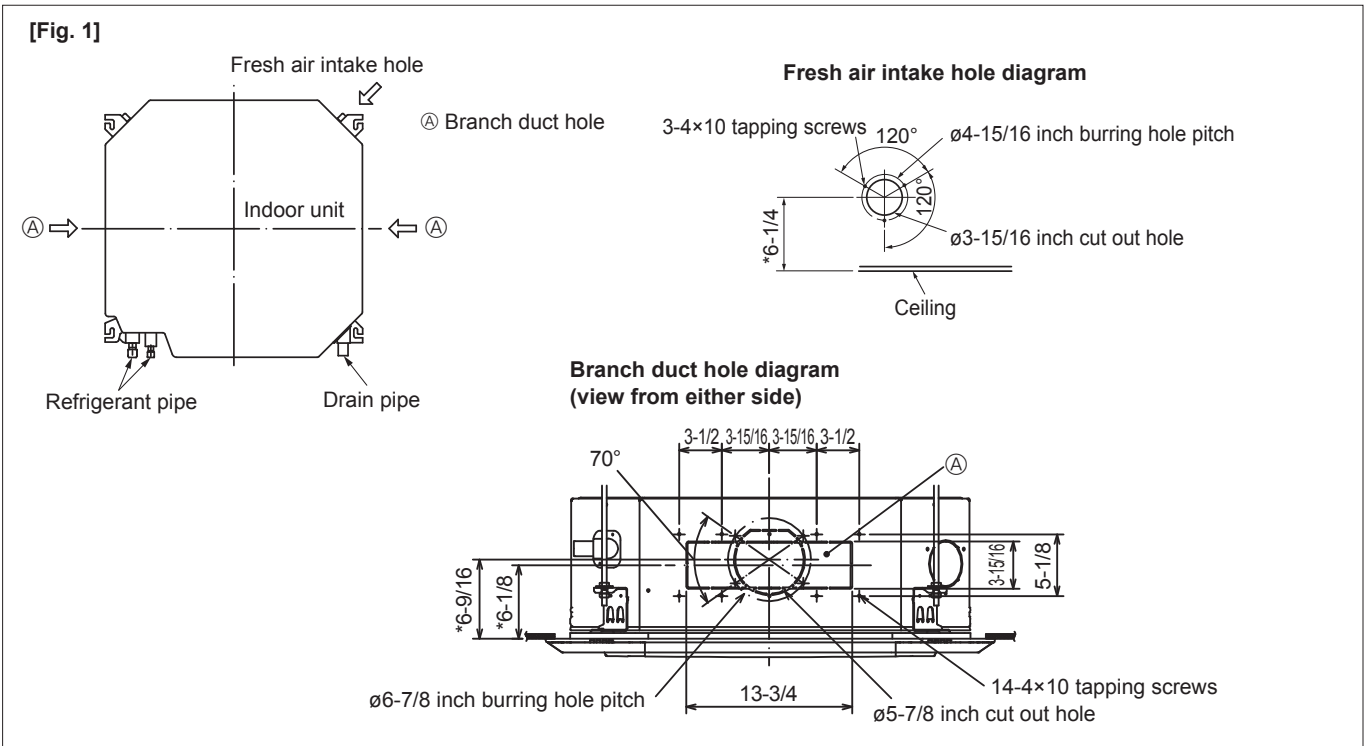
The figure marked with * in the drawing represent the dimensions of the main unit excluding those of the optional multi function casement.

When installing the optional multi function casement, add 5-5/16 to the dimensions marked on the figure.

When installing the branch ducts, be sure to insulate adequately.

Otherwise condensation and dripping may occur.

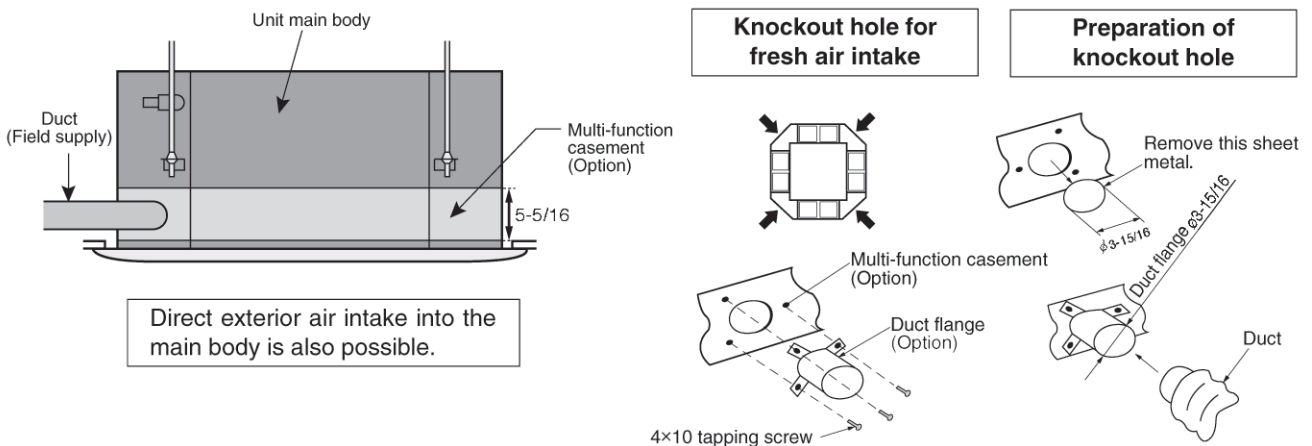
Unit : inch



2. Fresh air intake (Installation at site)

By mounting the optional multi-function casement to the indoor unit main body, and mounting the duct flange (option) onto it further, fresh exterior air intake can be accomplished.

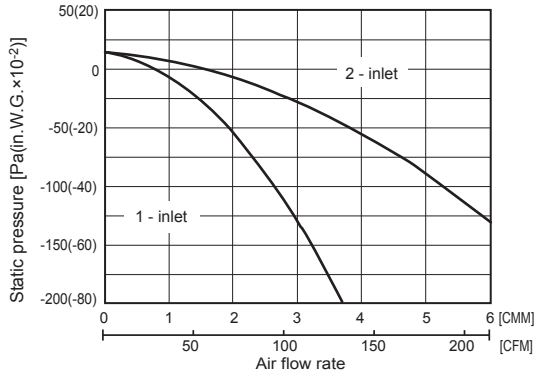
(The mounting of the multi-function casement increases the height of the ceiling plenum by 5-5/16(135mm).)



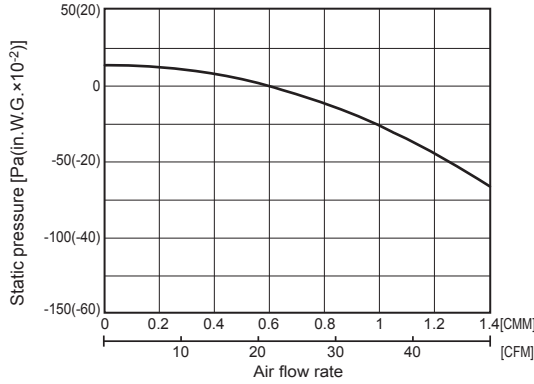
3. Fresh air intake amount & static pressure characteristics

1 PLA-A12 · A18EA7

Multifunction casement + Standard filter

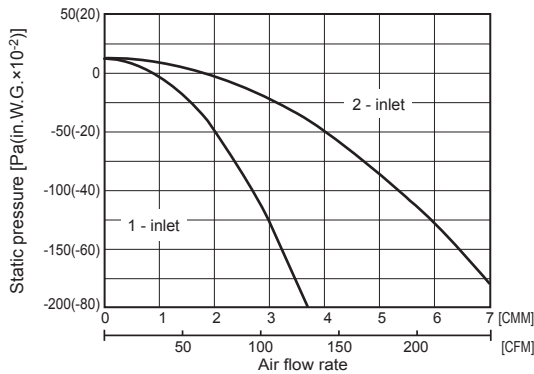


Taking air into the unit

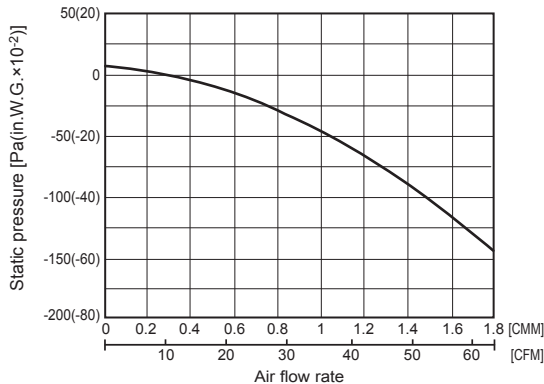


2 PLA-A24 · A30 · A36 · A42EA7

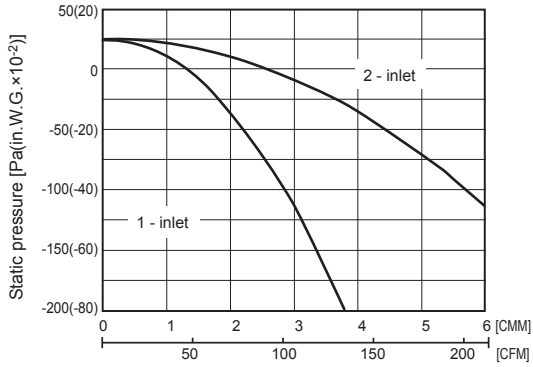
Multifunction casement + Standard filter



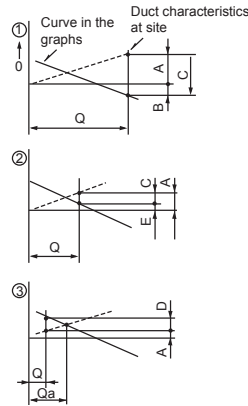
Taking air into the unit



Multifunction casement + High efficiency filter

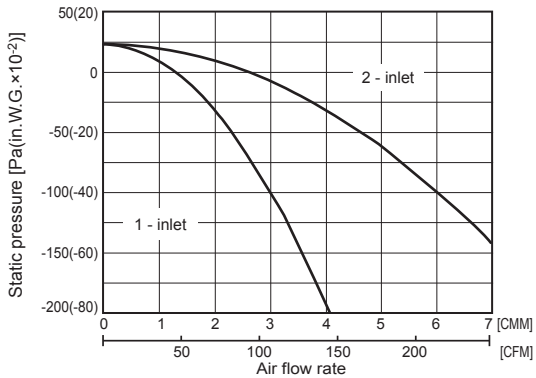


How to read curves



- Q...Designed amount of fresh air intake <CMM(CFM)>
- A...Static pressure loss of fresh air intake duct system with air flow amount Q <Pa(in.W.G.×10⁻²)>
- B...Forced static pressure at air conditioner inlet with air flow amount Q <Pa(in.W.G.×10⁻²)>
- C...Static pressure of booster fan with air flow amount Q <Pa(in.W.G.×10⁻²)>
- D...Static pressure loss increase amount of fresh air intake dust system for air flow amount Q <Pa(in.W.G.×10⁻²)>
- E...Static pressure of indoor unit with air flow amount Q <Pa(in.W.G.×10⁻²)>
- Qa...Estimated amount of fresh air intake without D <CMM(CFM)>

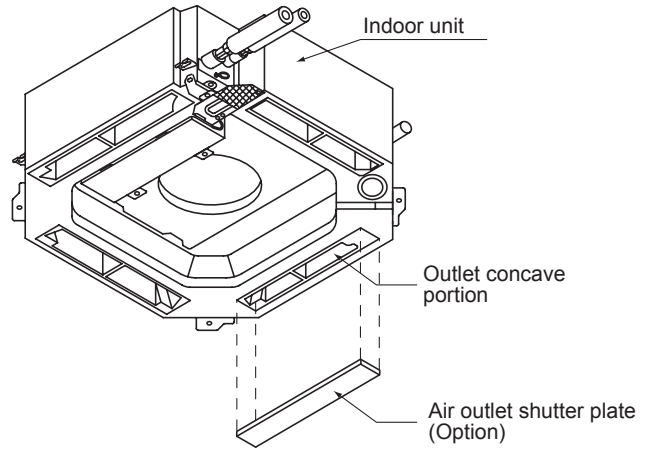
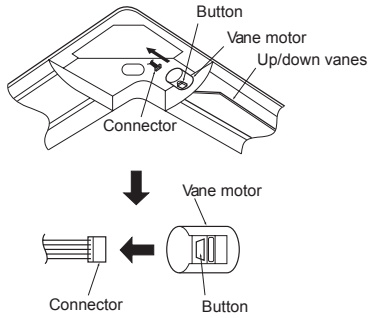
Multifunction casement + High efficiency filter



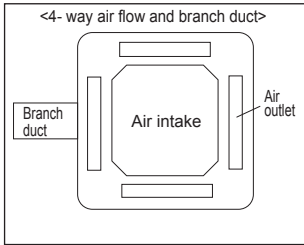
4. Change of outlet numbers

The optional air outlet is necessary.
To change the air outlet number to 3-, or 2-way outlet, the outlet number should be closed with the operational air outlet shutter.

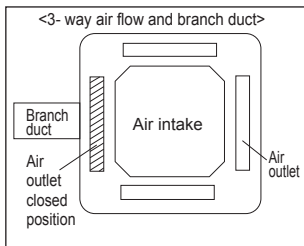
When the air outlets are closed, close the vane by removing the vane connector.



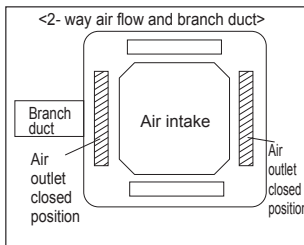
5. Branch duct and change of outlet numbers



※ Branch duct should be connected to one of the branch duct holes on the main unit.



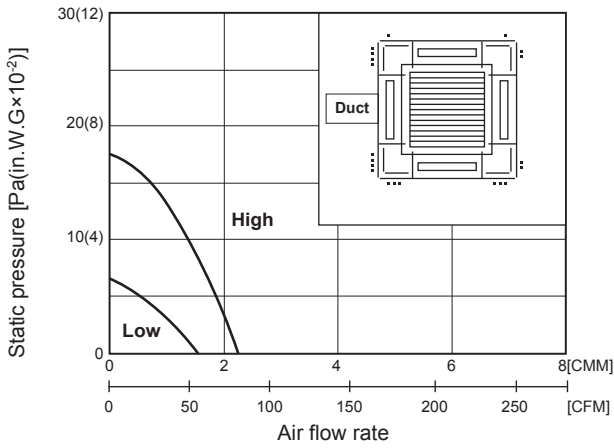
※ Close the outlet on the side of branch duct and air flows in 3 directions.



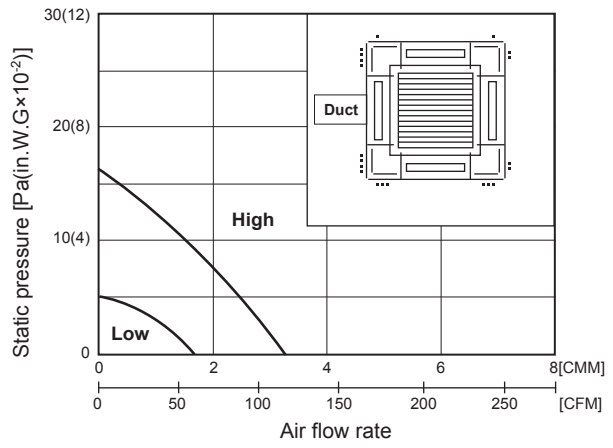
※ The outlet on the side of branch duct and one of the other outlets are closed.
Air flows in 2 directions.

PLA-A18EA7

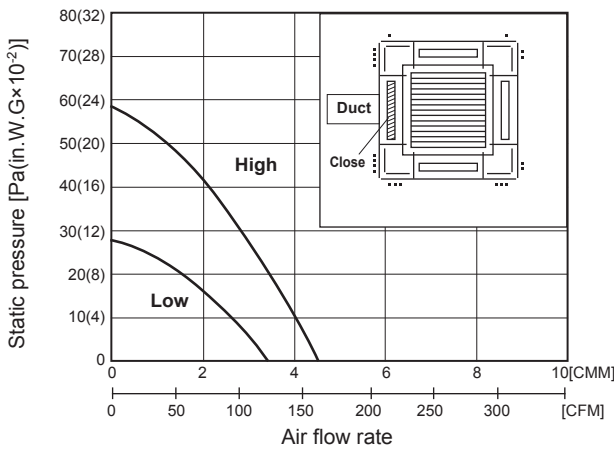
● 4-way air flow (horizontal vane) Round duct



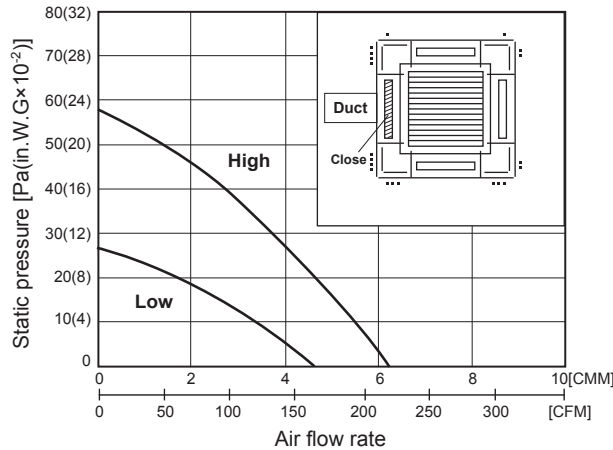
● 4-way air flow (horizontal vane) Rectangular duct



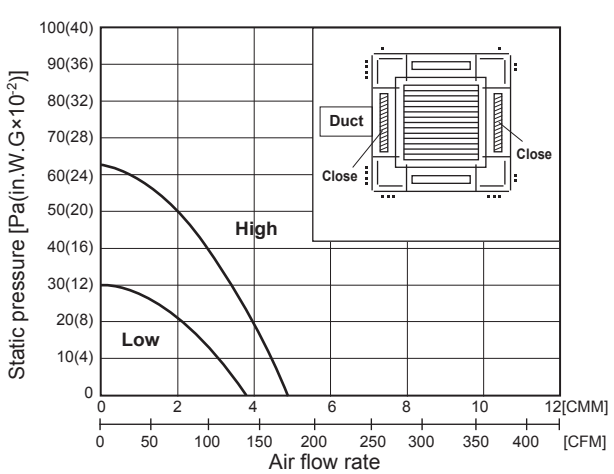
● 3-way air flow (horizontal vane) Round duct



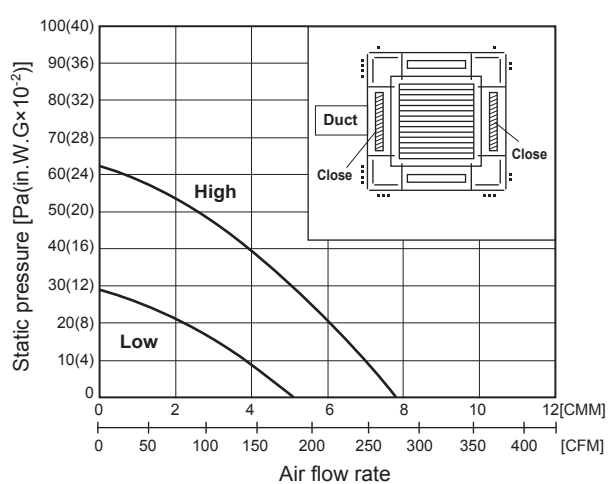
● 3-way air flow (horizontal vane) Rectangular duct



● 2-way air flow (horizontal vane) Round duct

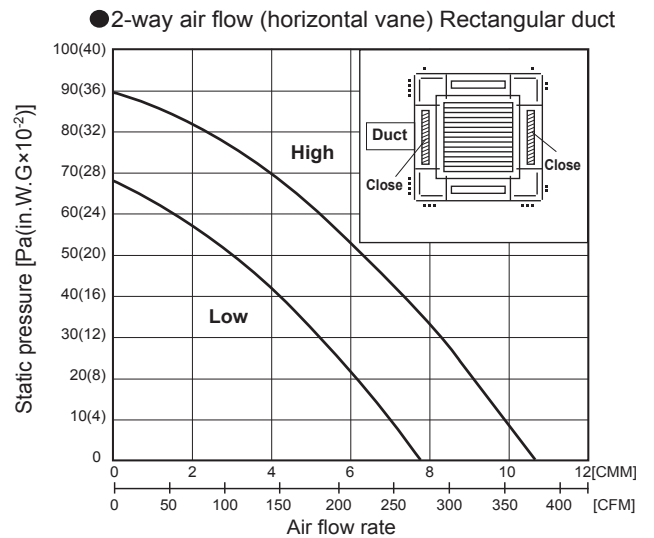
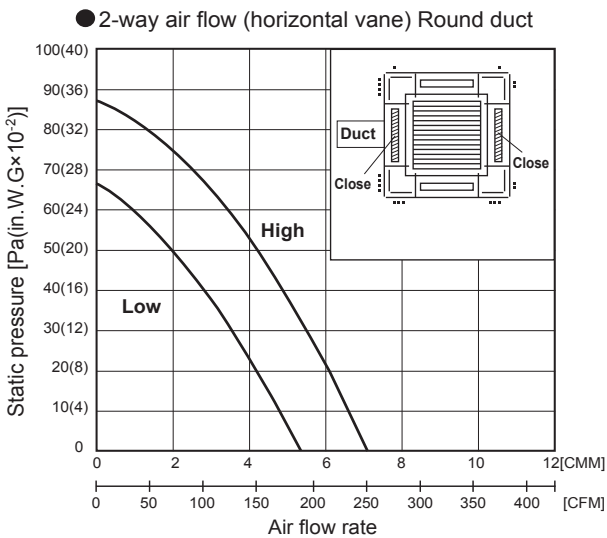
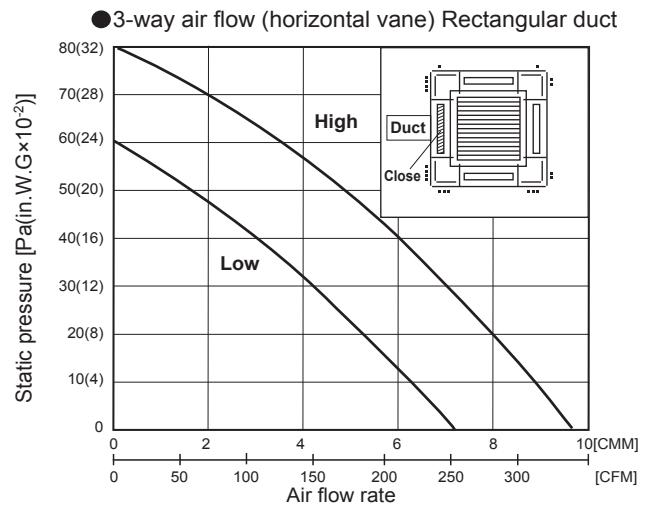
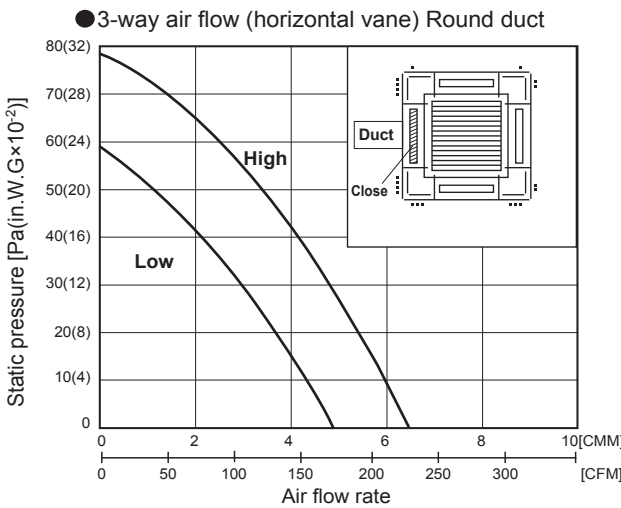
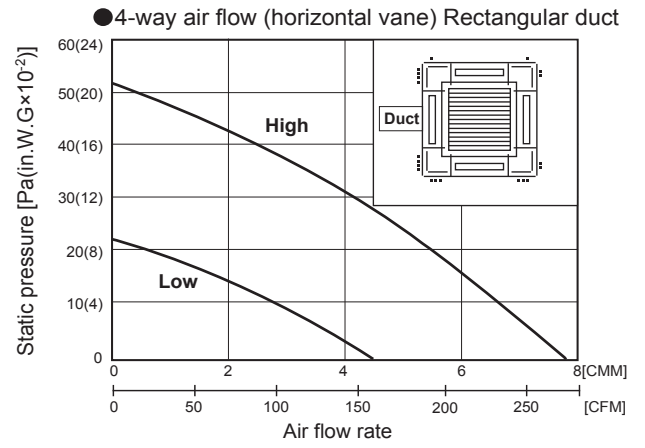
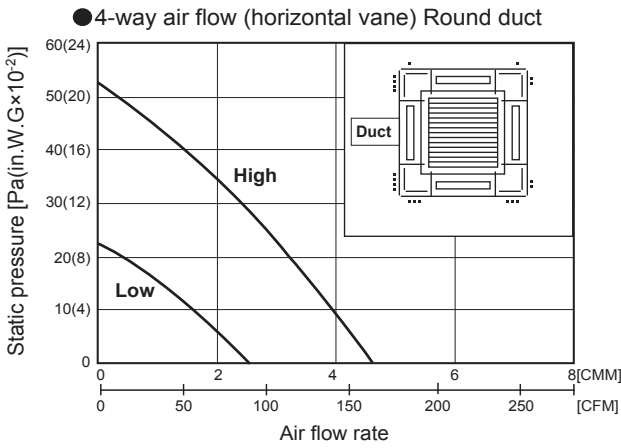


● 2-way air flow (horizontal vane) Rectangular duct



- Use 1 of the 2 duct holes on the indoor unit.
- Air flow rate of PLA-A12EA7 can be calculated from the air flow rate based on the characteristic of the duct for PLA-A18EA7.
- Use the optional air outlet shutter plate (PAC-SH51SP-E) for 3-way and 2-way air flow.

PLA-A42EA7



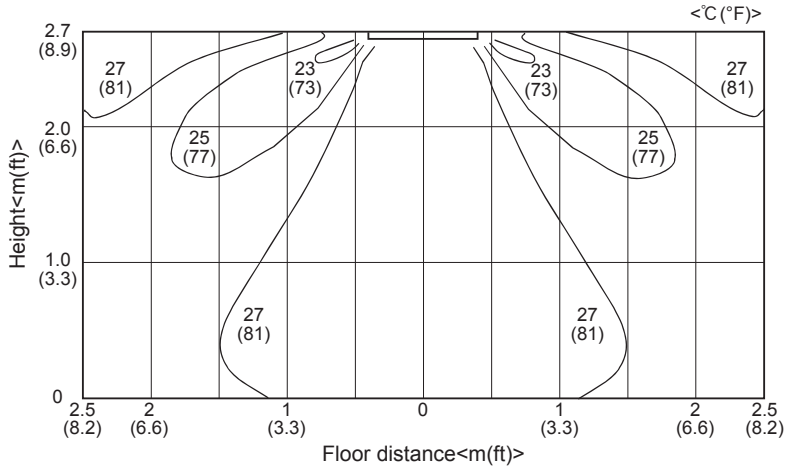
- Use 1 of the 2 duct holes on the indoor unit.
- Air flow rate of PLA-A24~36EA7 can be calculated from the air flow rate based on the characteristic of the duct for PLA-A42EA7.
- Use the optional air outlet shutter plate (PAC-SH51SP-E) for 3-way and 2-way air flow.

10-2-2. TEMPERATURE AND AIR FLOW DISTRIBUTIONS PLA-A12EA7

Temperature distribution

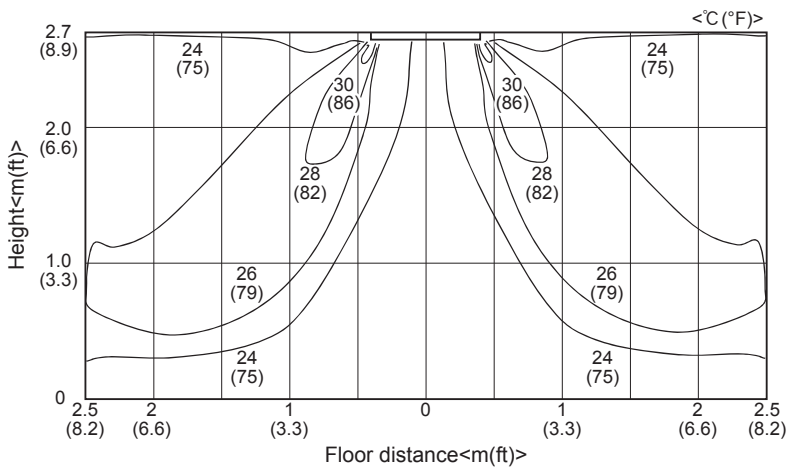
<Cooling mode>Standard

Flow angle: 30° 4-way flow
ceiling height: 2.7m(8.9ft)



<Heating mode>Standard

Flow angle: 60° 4-way flow
ceiling height: 2.7m(8.9ft)

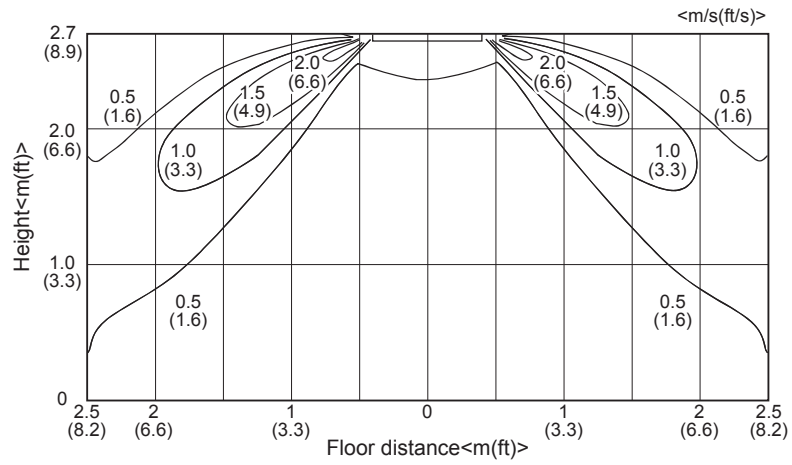


PLA-A12EA7

Airflow distribution

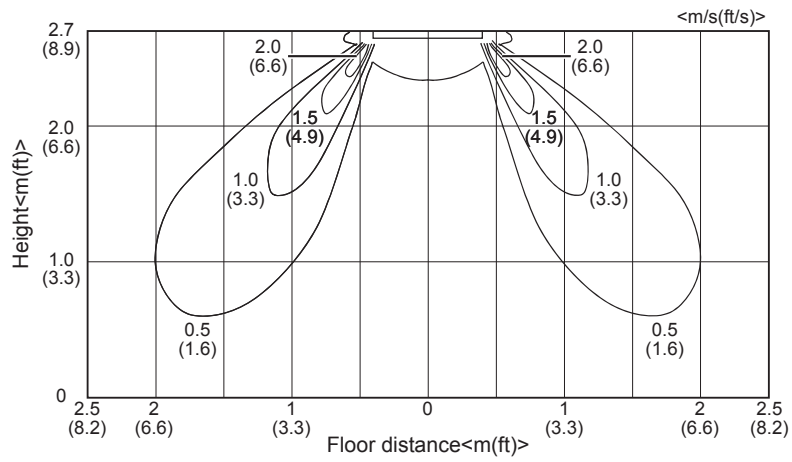
<Cooling mode>

Flow angle: 30°



<Heating mode>

Flow angle: 60°

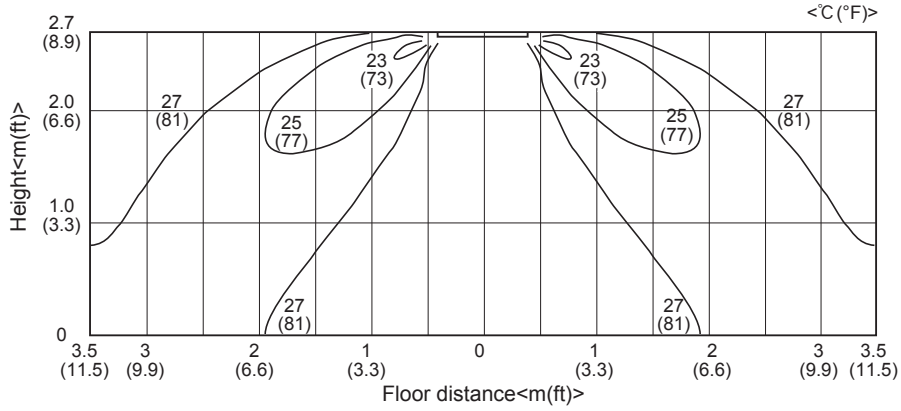


PLA-A18EA7

Temperature distribution

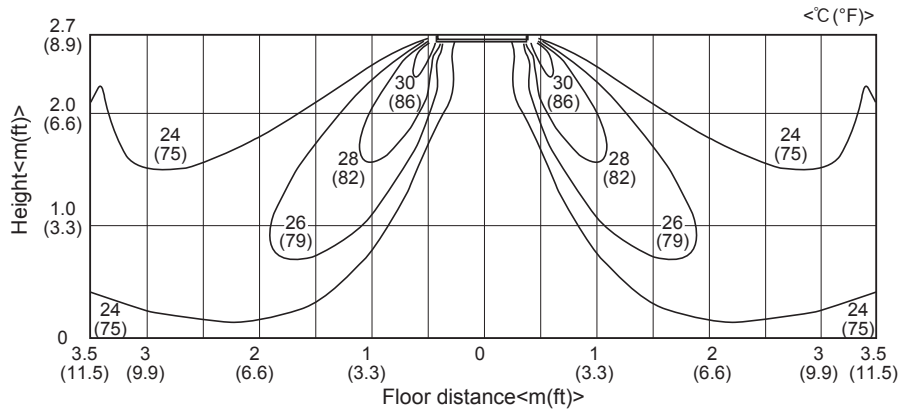
<Cooling mode>Standard

Flow angle: 30° 4-way flow
ceiling height: 2.7m(8.9ft)



<Heating mode>Standard

Flow angle: 60° 4-way flow
ceiling height: 2.7m(8.9ft)

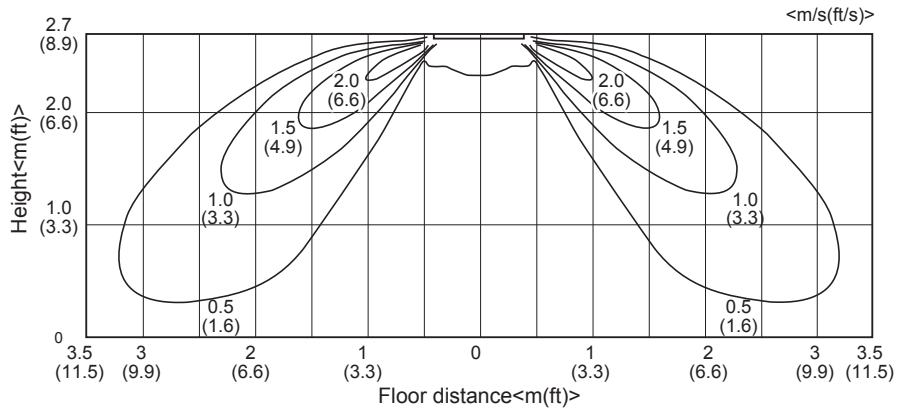


PLA-A18EA7

Airflow distribution

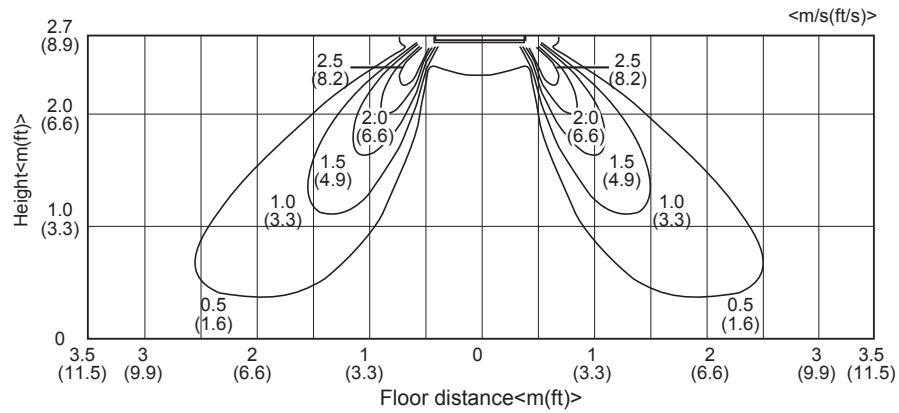
<Cooling mode>

Flow angle: 30°



<Heating mode>

Flow angle: 60°

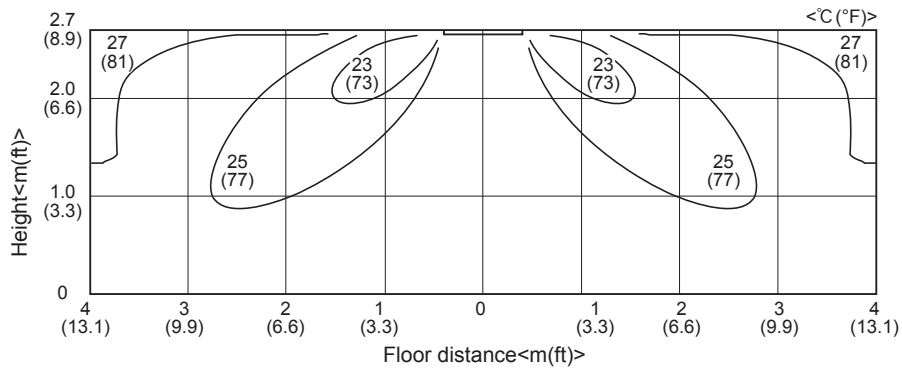


PLA-A24/30EA7

Temperature distribution

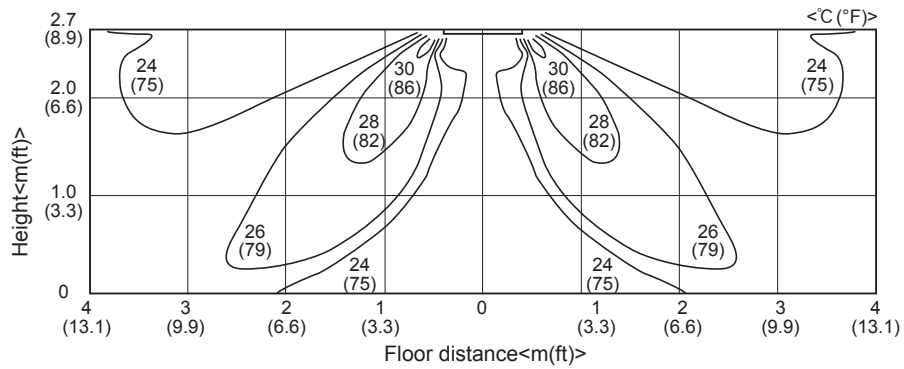
<Cooling mode>Standard

Flow angle: 30° 4-way flow
ceiling height: 2.7m(8.9ft)



<Heating mode>Standard

Flow angle: 60° 4-way flow
ceiling height: 2.7m(8.9ft)

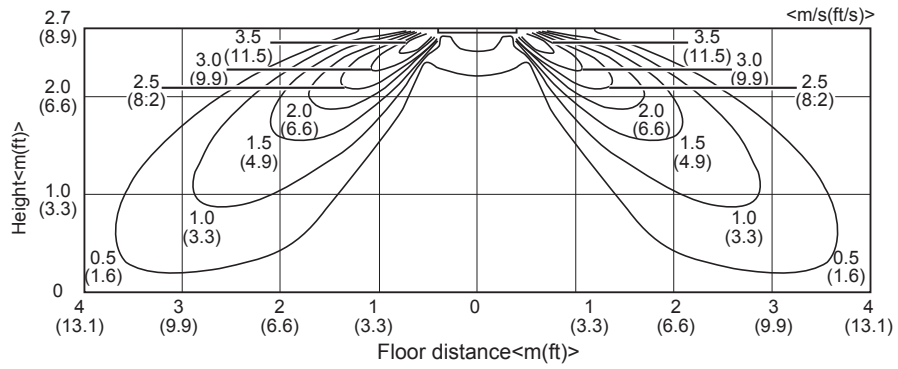


PLA-A24/30EA7

Airflow distribution

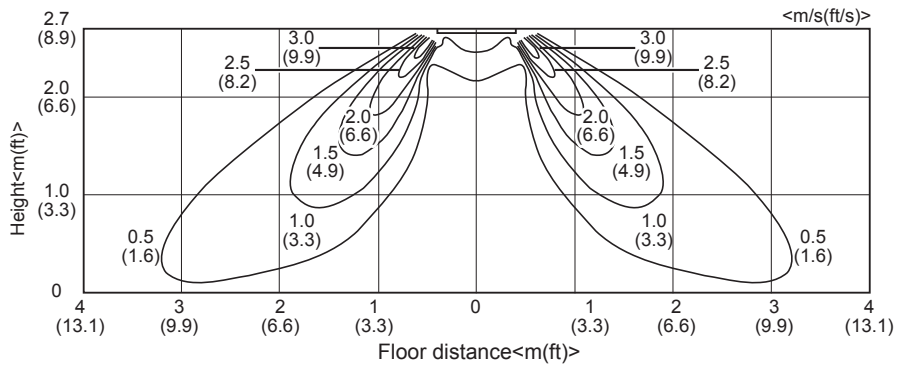
<Cooling mode>

Flow angle: 30°



<Heating mode>

Flow angle: 60°

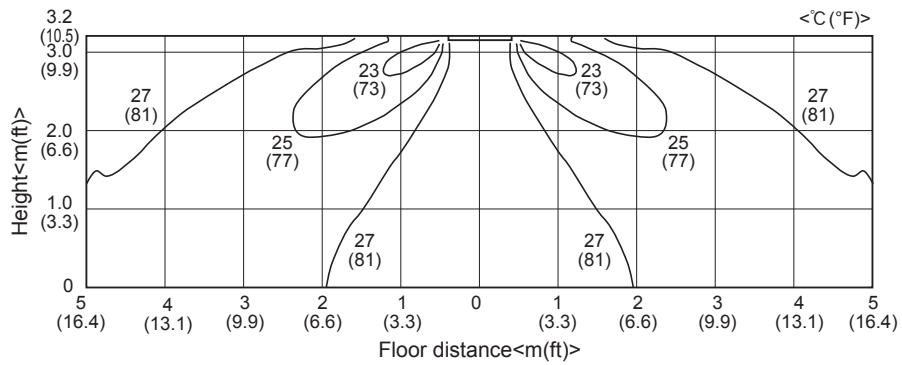


PLA-A36EA7

Temperature distribution

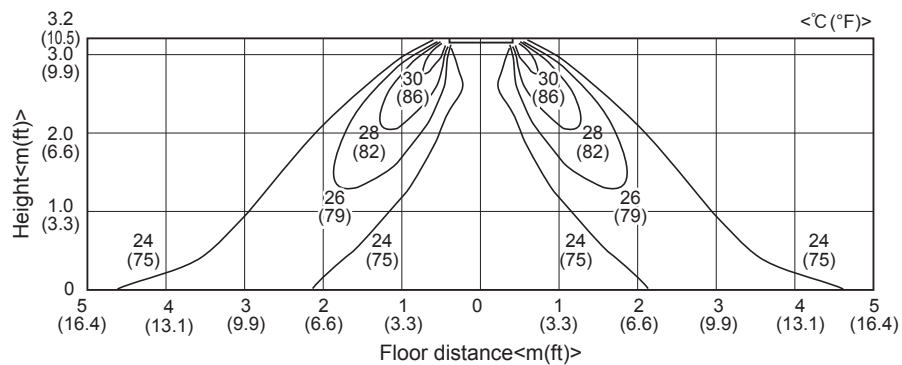
<Cooling mode>Standard

Flow angle: 30° 4-way flow
ceiling height: 3.2m(10.5ft)



<Heating mode>Standard

Flow angle: 60° 4-way flow
ceiling height: 3.2m(10.5ft)

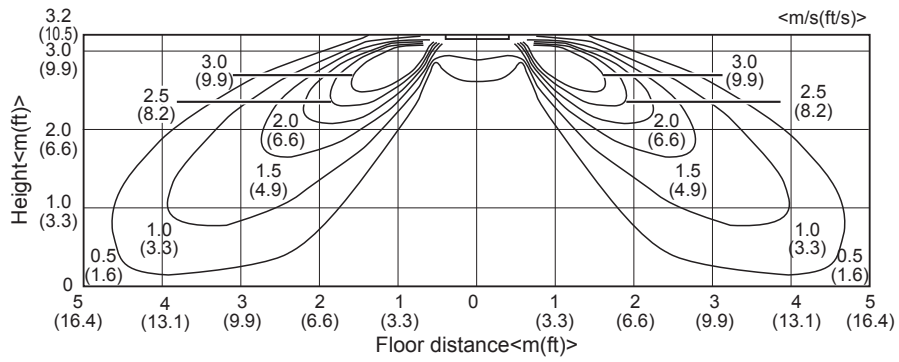


PLA-A36EA7

Airflow distribution

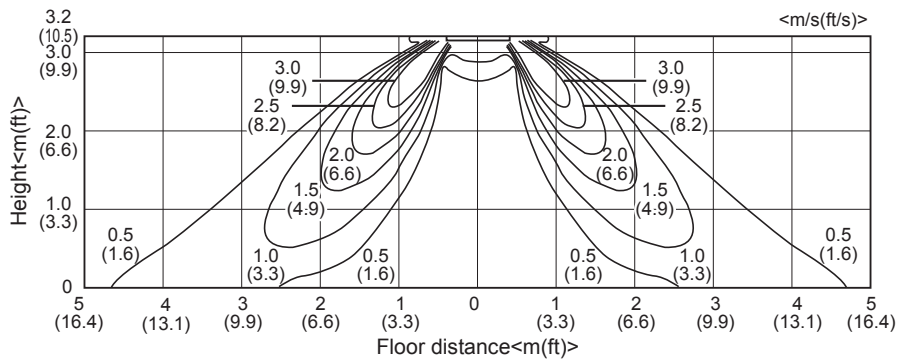
<Cooling mode>

Flow angle: 30°



<Heating mode>

Flow angle: 60°

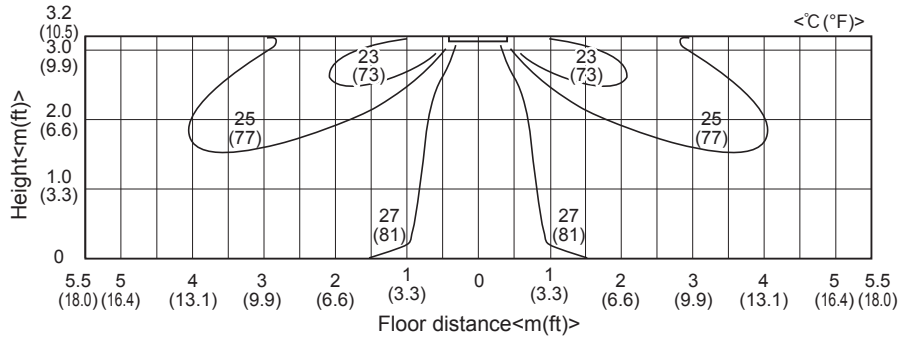


PLA-A42EA7

Temperature distribution

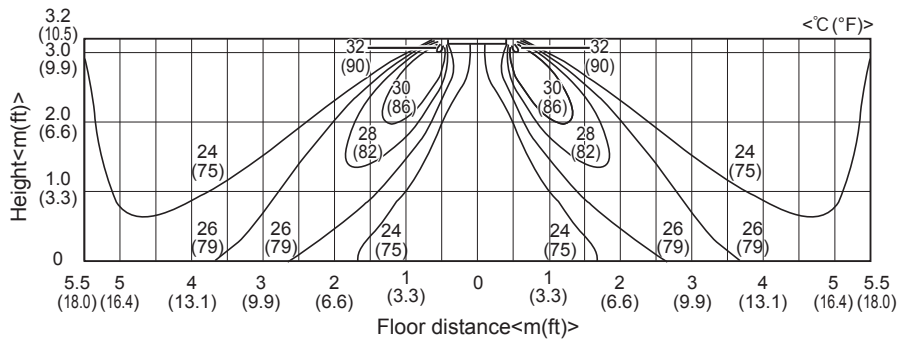
<Cooling mode>Standard

Flow angle: 30° 4-way flow
ceiling height: 3.2m(10.5ft)



<Heating mode>Standard

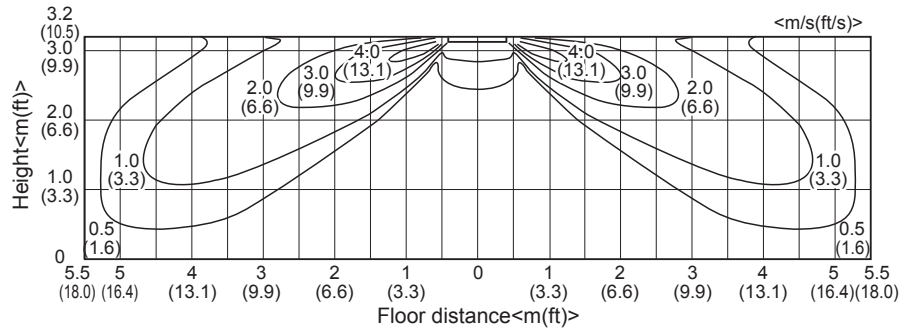
Flow angle: 60° 4-way flow
ceiling height: 3.2m(10.5ft)



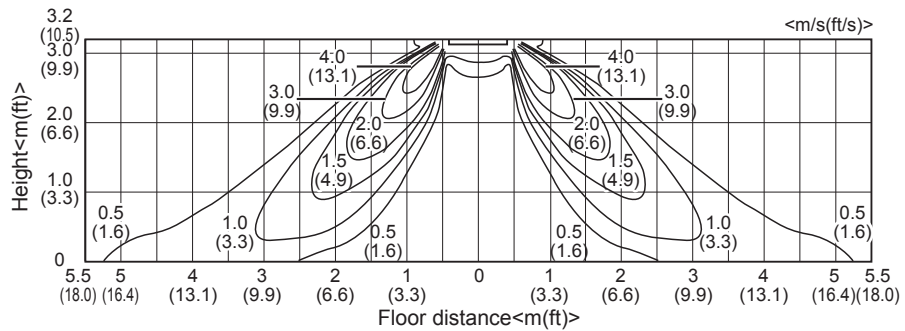
PLA-A42EA7

Airflow distribution

<Cooling mode>
Flow angle: 30°



<Heating mode>
Flow angle: 60°



10-3. PKA-A-HA7

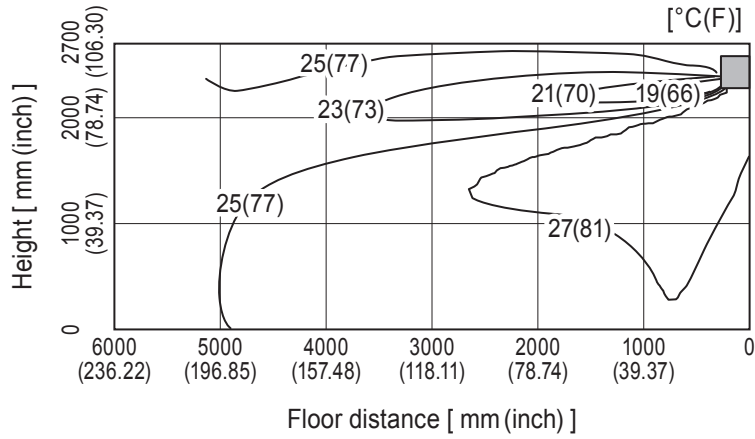
10-3-1. TEMPERATURE AND AIR FLOW DISTRIBUTIONS

PKA-A12HA7

Temperature distribution

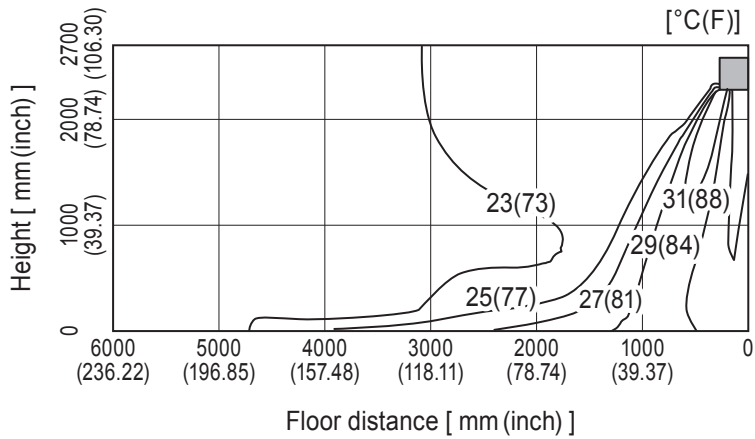
<Cooling mode>

Air volume: high
Air direction: auto (upward air flow)



<Heating mode>

Air volume: high
Air direction: auto (downward air flow)

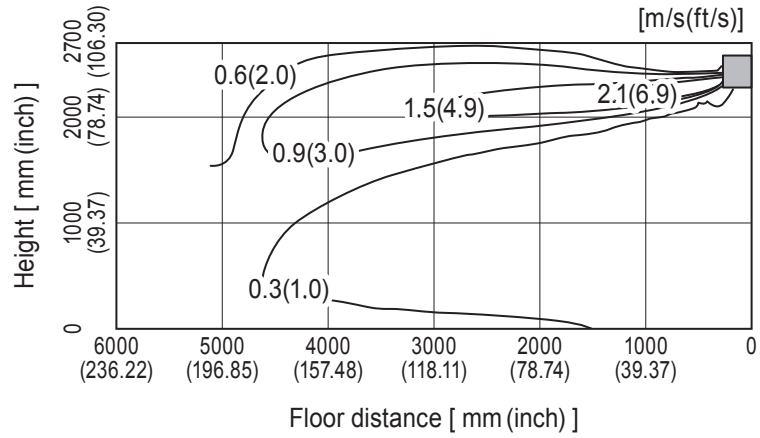


PKA-A12HA7

Airflow distribution

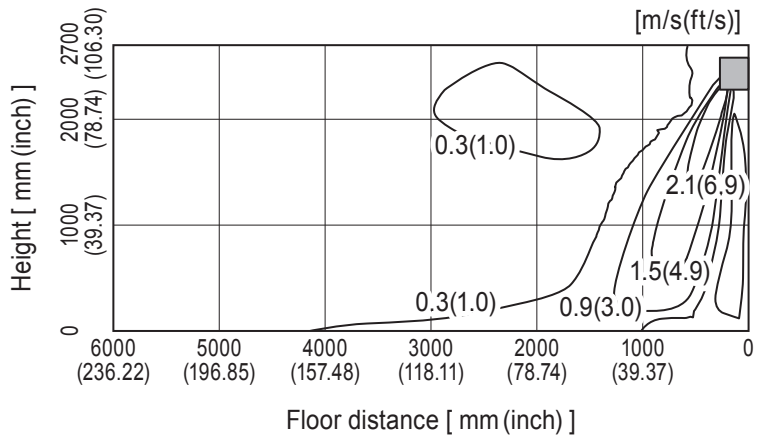
<Cooling mode>

Air volume: high
Air direction: auto (upward air flow)



<Heating mode>

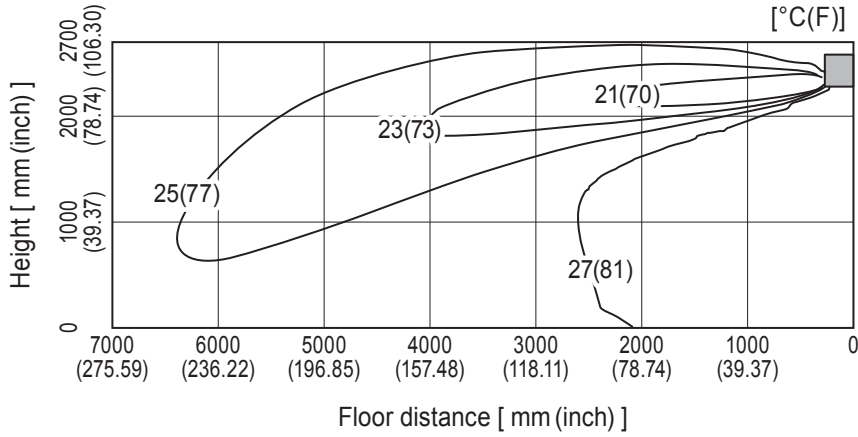
Air volume: high
Air direction: auto (downward air flow)



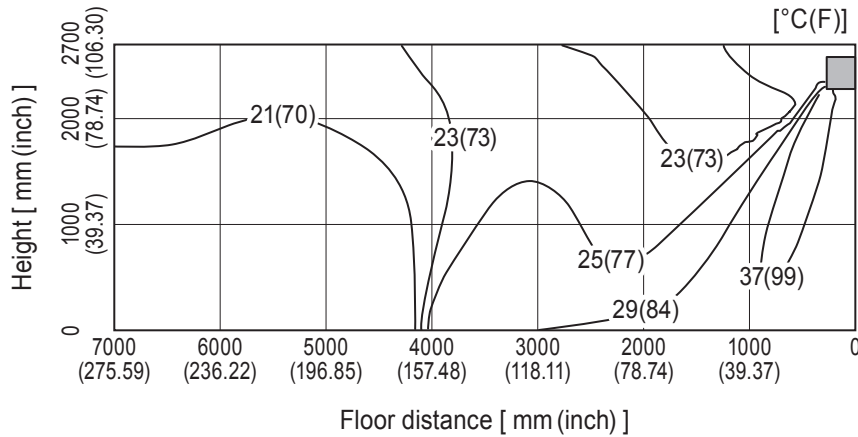
PKA-A18HA7

Temperature distribution

<Cooling mode> Air volume: high
 Air direction: auto (upward air flow)



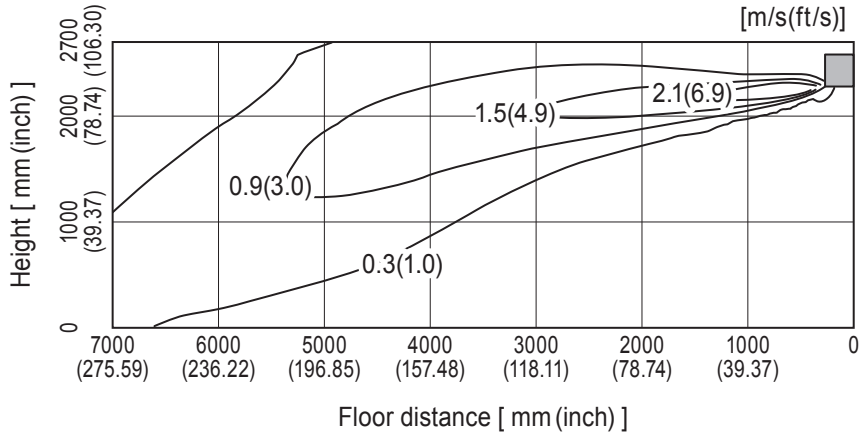
<Heating mode> Air volume: high
 Air direction: auto (downward air flow)



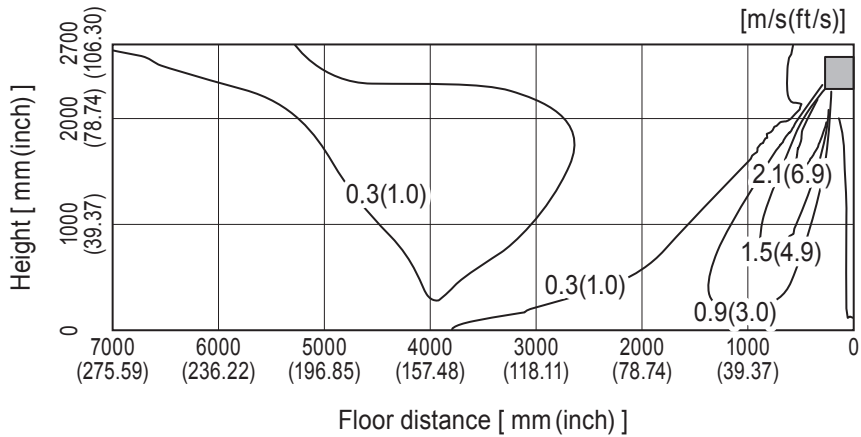
PKA-A18HA7

Airflow distribution

<Cooling mode> Air volume: high
 Air direction: auto (upward air flow)



<Heating mode> Air volume: high
 Air direction: auto (downward air flow)



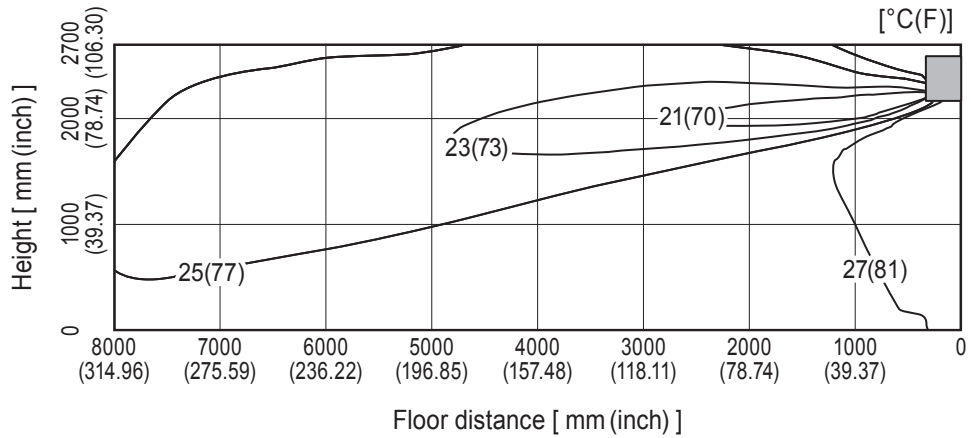
10-4. PKA-A-KA7

10-4-1. TEMPERATURE AND AIR FLOW DISTRIBUTIONS

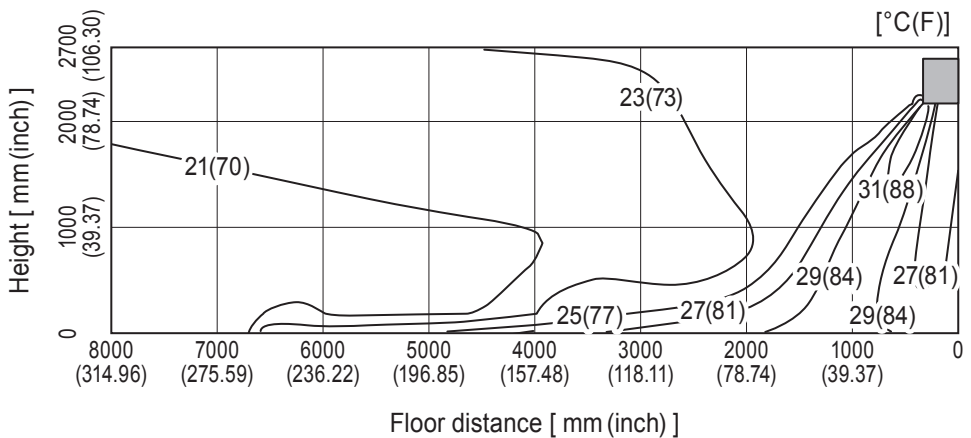
PKA-A24KA7

Temperature distribution

<Cooling mode> Air volume: high
Air direction: auto (upward air flow)



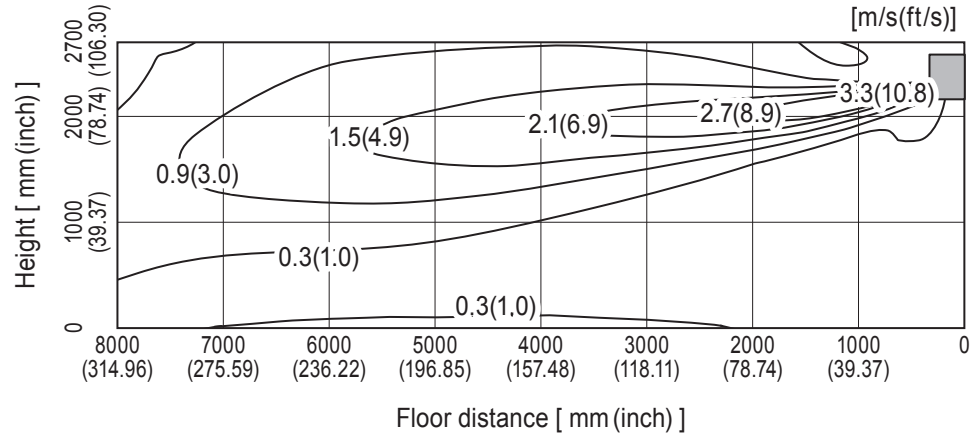
<Heating mode> Air volume: high
Air direction: auto (downward air flow)



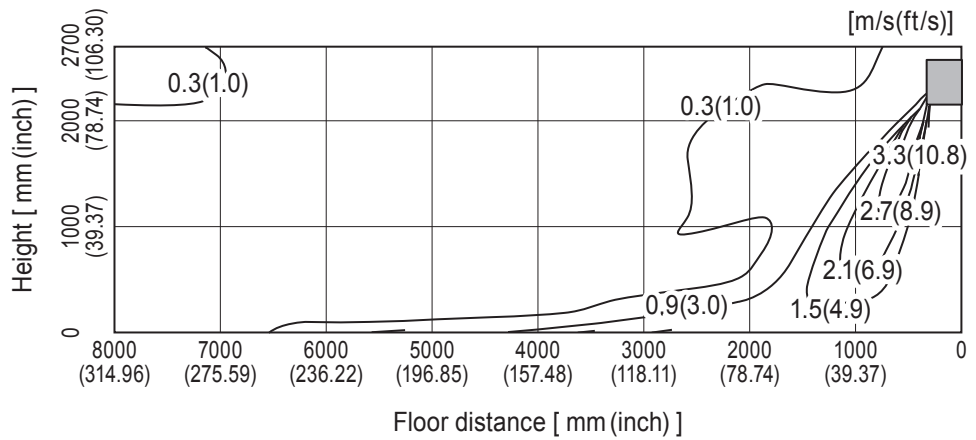
PKA-A24KA7

Airflow distribution

<Cooling mode> Air volume: high
 Air direction: auto (upward air flow)



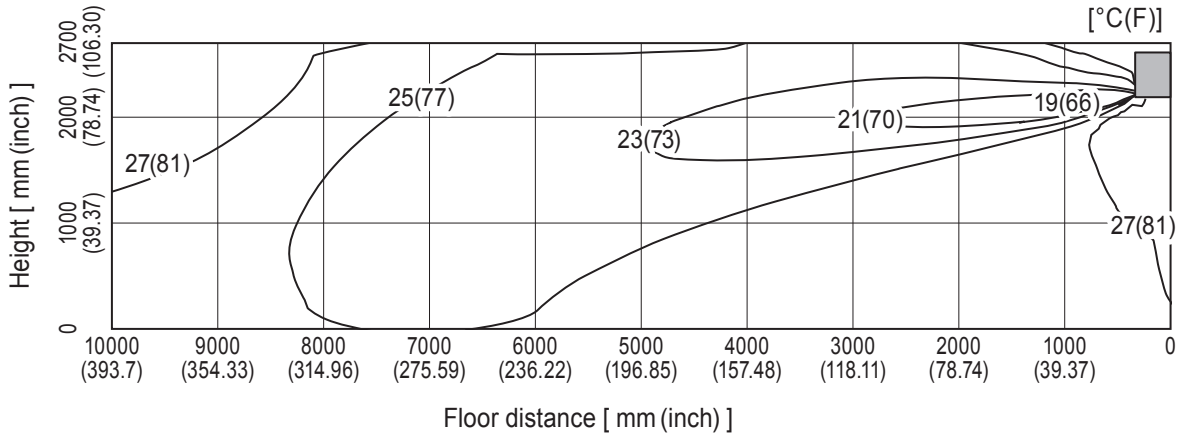
<Heating mode> Air volume: high
 Air direction: auto (downward air flow)



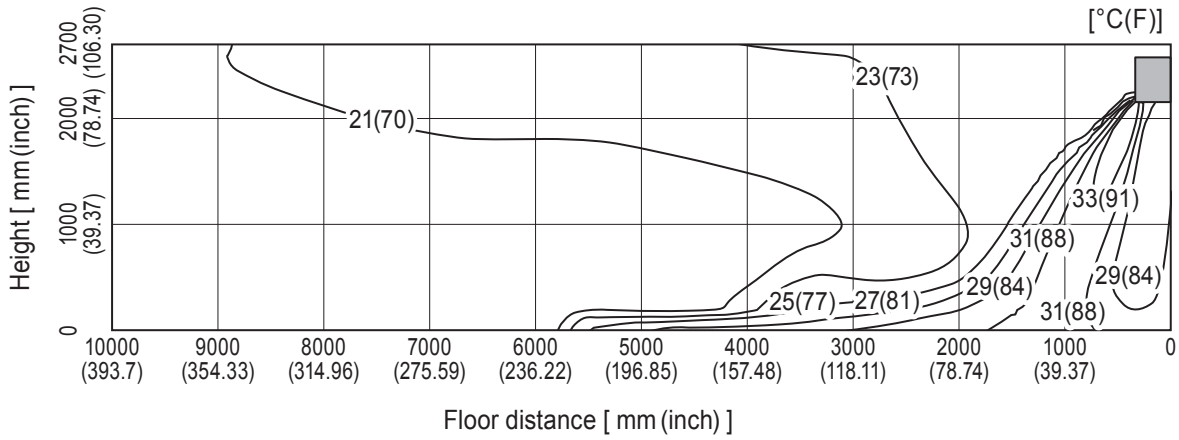
PKA-A30KA7

Temperature distribution

<Cooling mode> Air volume: high
Air direction: auto (upward air flow)



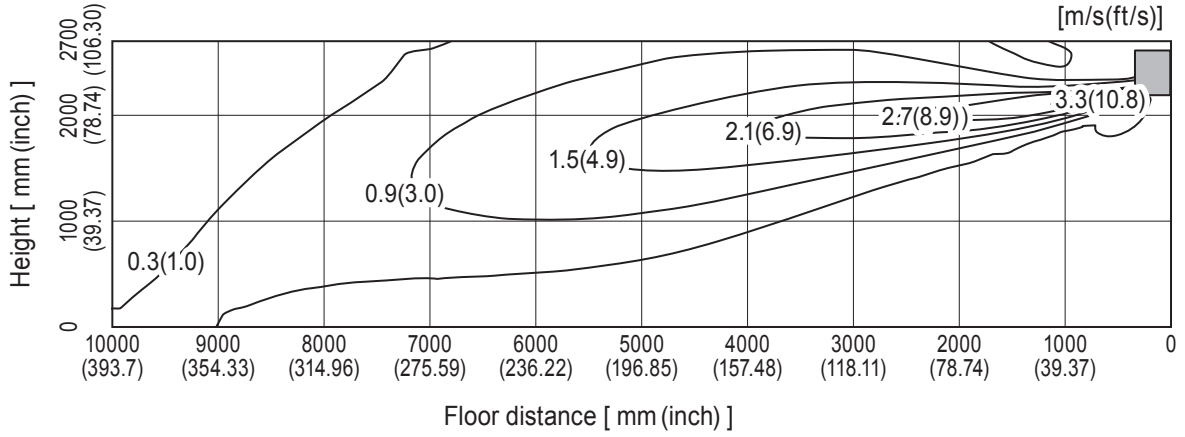
<Heating mode> Air volume: high
Air direction: auto (downward air flow)



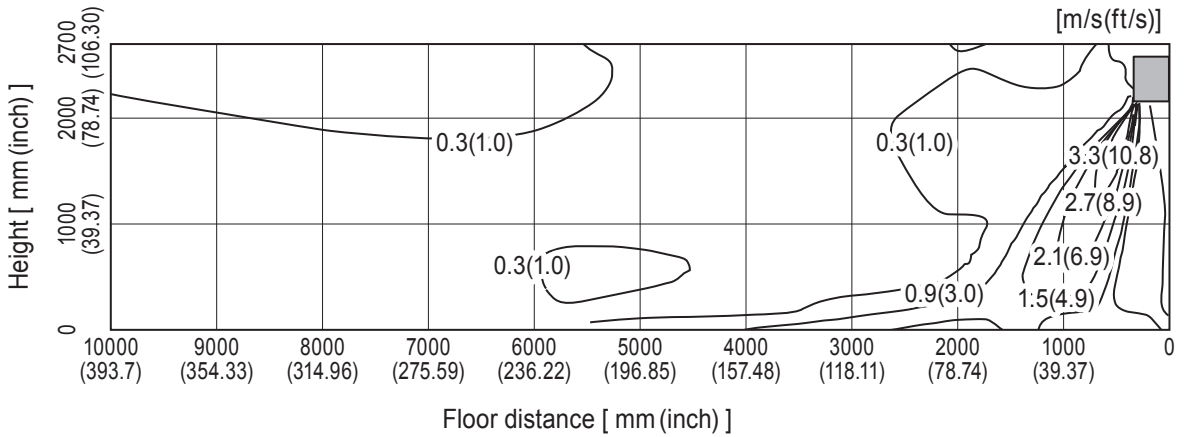
PKA-A30KA7

Airflow distribution

<Cooling mode> Air volume: high
 Air direction: auto (upward air flow)



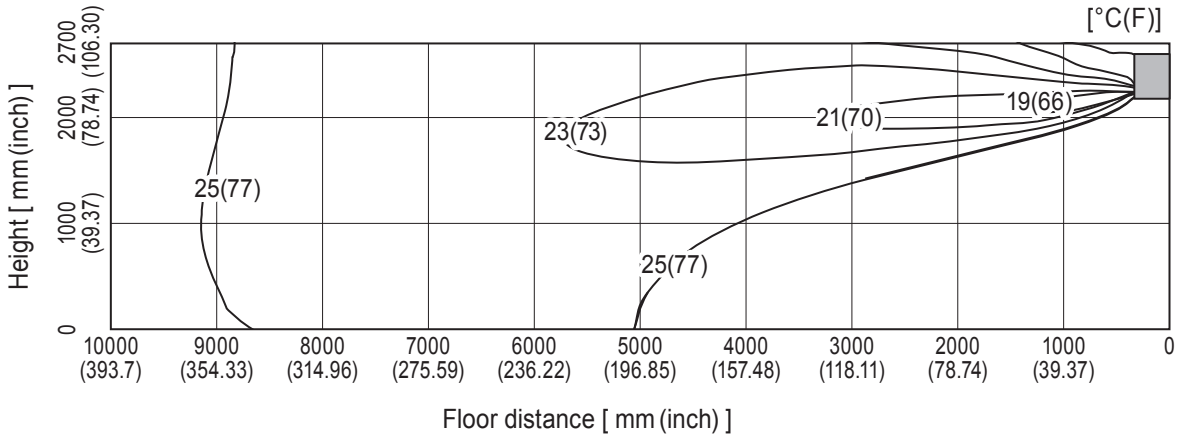
<Heating mode> Air volume: high
 Air direction: auto (downward air flow)



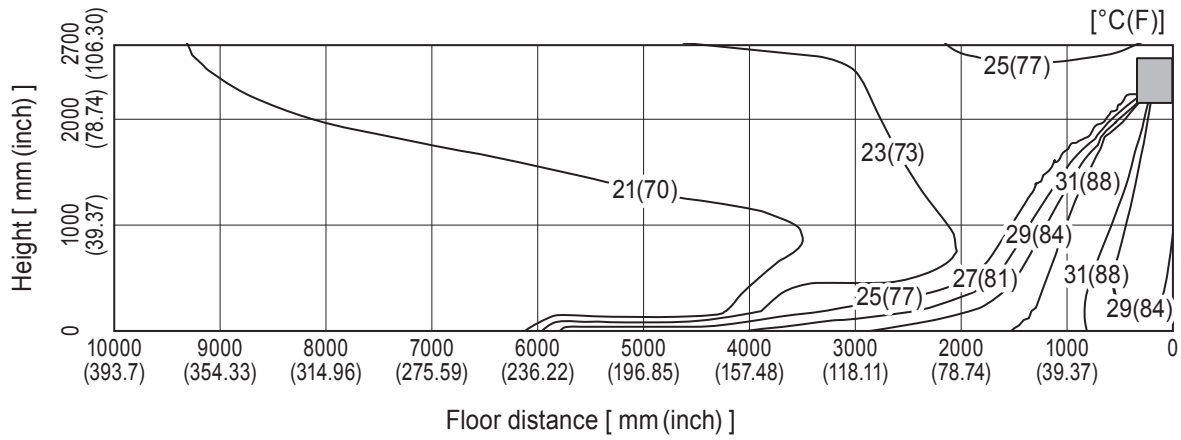
PKA-A36KA7

Temperature distribution

<Cooling mode> Air volume: high
 Air direction: auto (upward air flow)



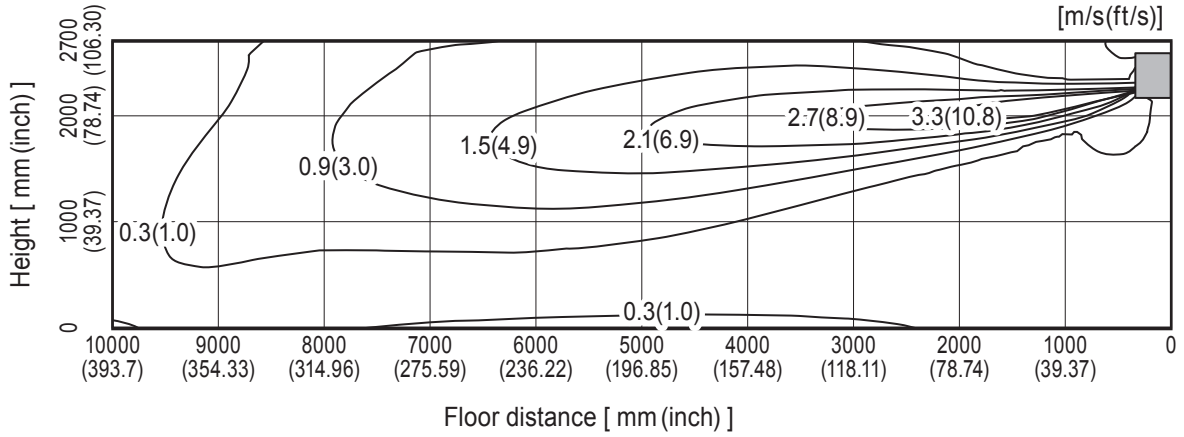
<Heating mode> Air volume: high
 Air direction: auto (downward air flow)



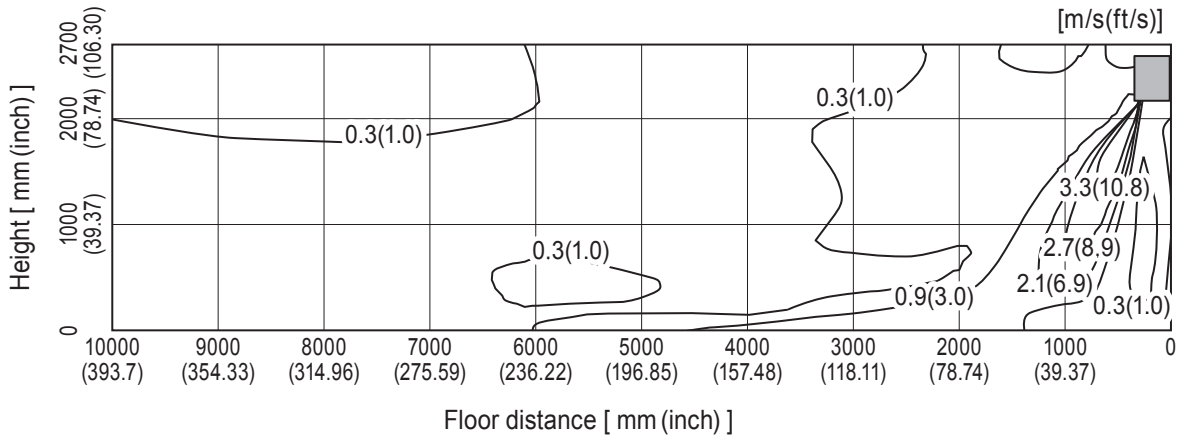
PKA-A36KA7

Airflow distribution

<Cooling mode> Air volume: high
Air direction: auto (upward air flow)



<Heating mode> Air volume: high
Air direction: auto (downward air flow)



10-5. PCA-A-KA7

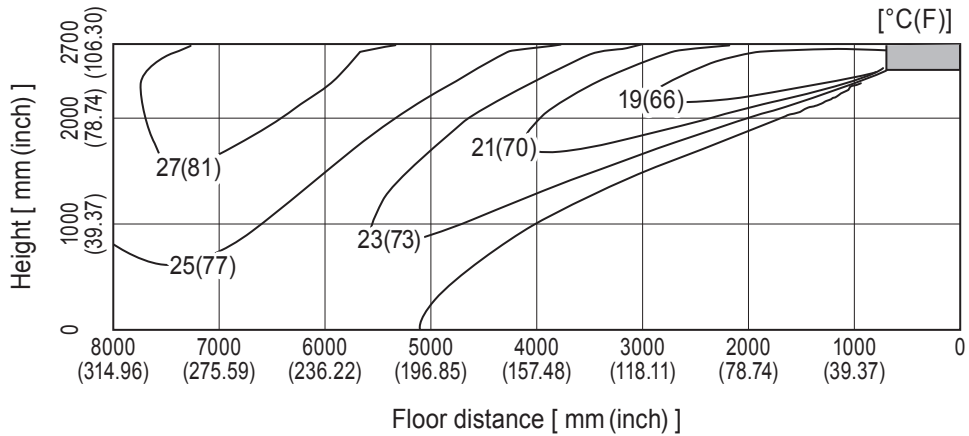
10-5-1. TEMPERATURE AND AIR FLOW DISTRIBUTIONS

PCA-A24KA7

Temperature distribution

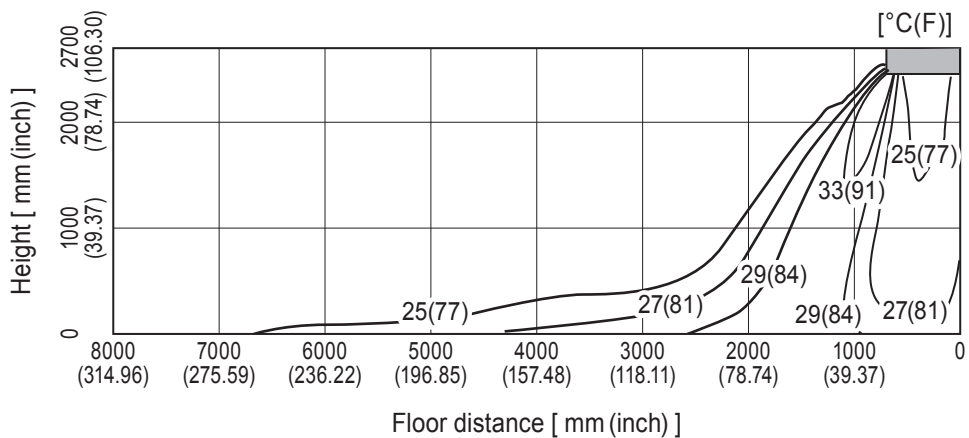
<Cooling mode>

Air volume: high
Air direction: auto (upward air flow)



<Heating mode>

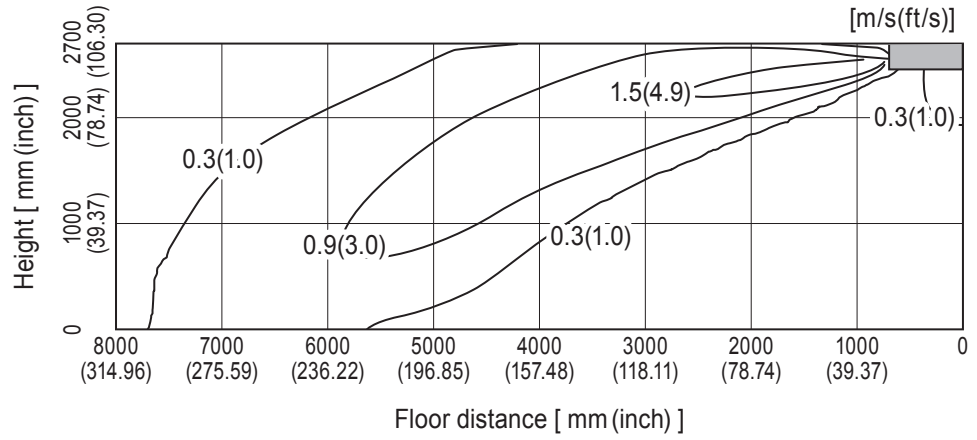
Air volume: high
Air direction: auto (downward air flow)



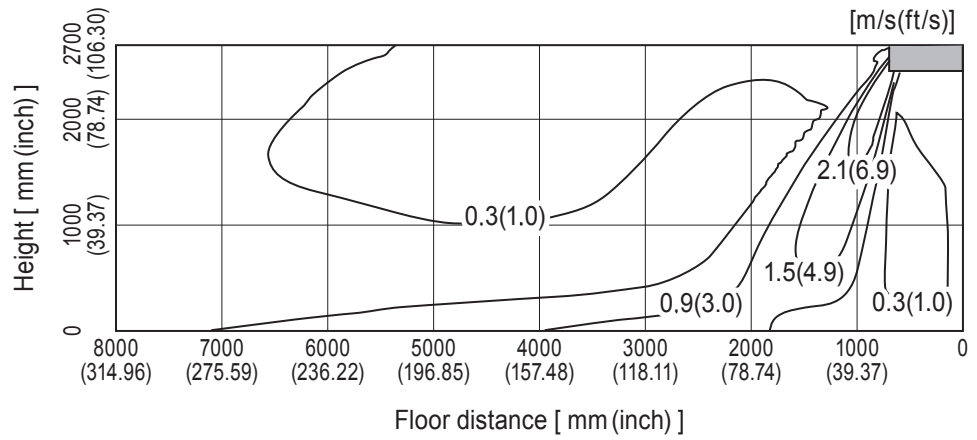
PCA-A24KA7

Airflow distribution

<Cooling mode> Air volume: high
 Air direction: auto (upward air flow)



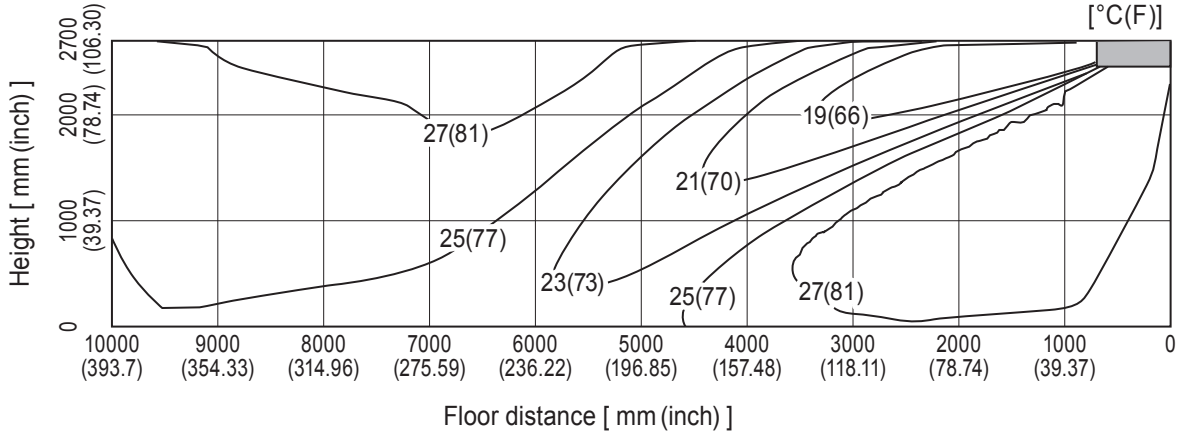
<Heating mode> Air volume: high
 Air direction: auto (downward air flow)



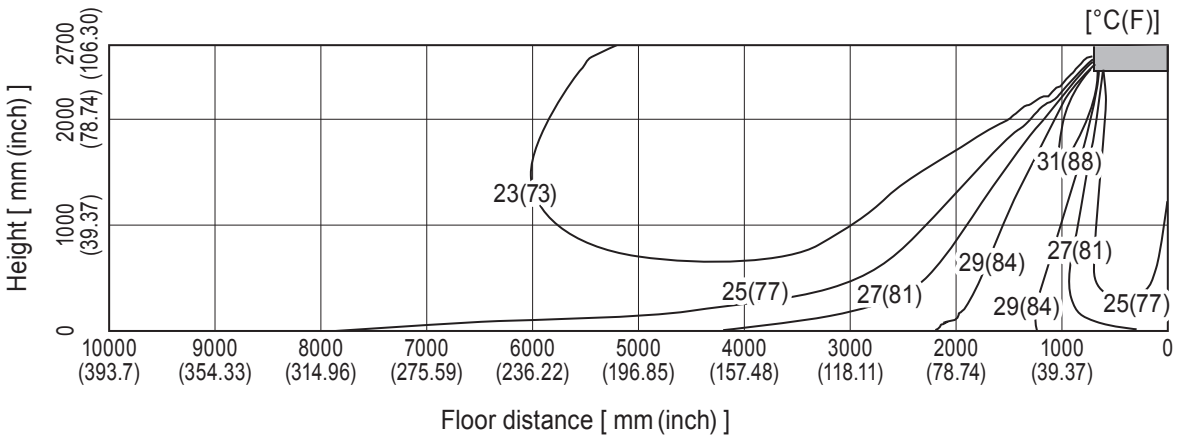
PCA-A30KA7

Temperature distribution

<Cooling mode> Air volume: high
Air direction: auto (upward air flow)



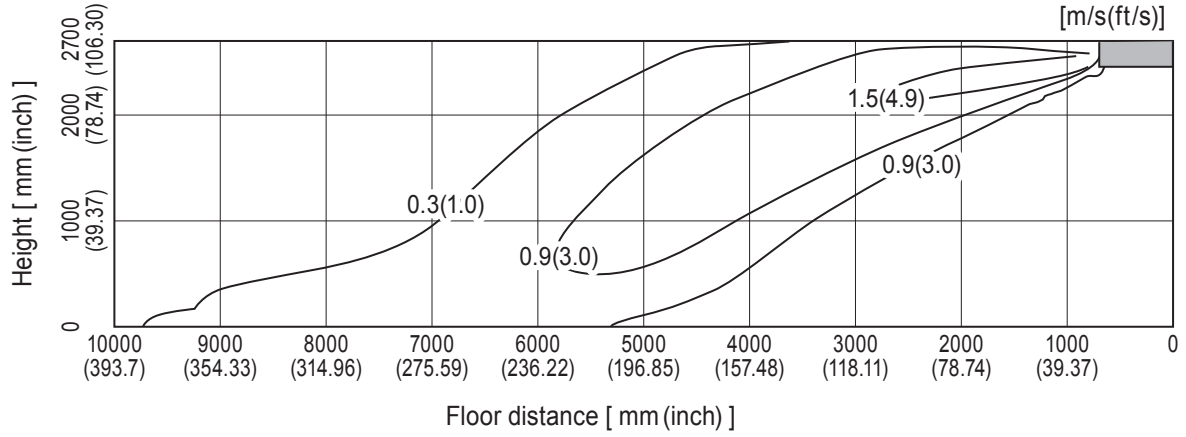
<Heating mode> Air volume: high
Air direction: auto (downward air flow)



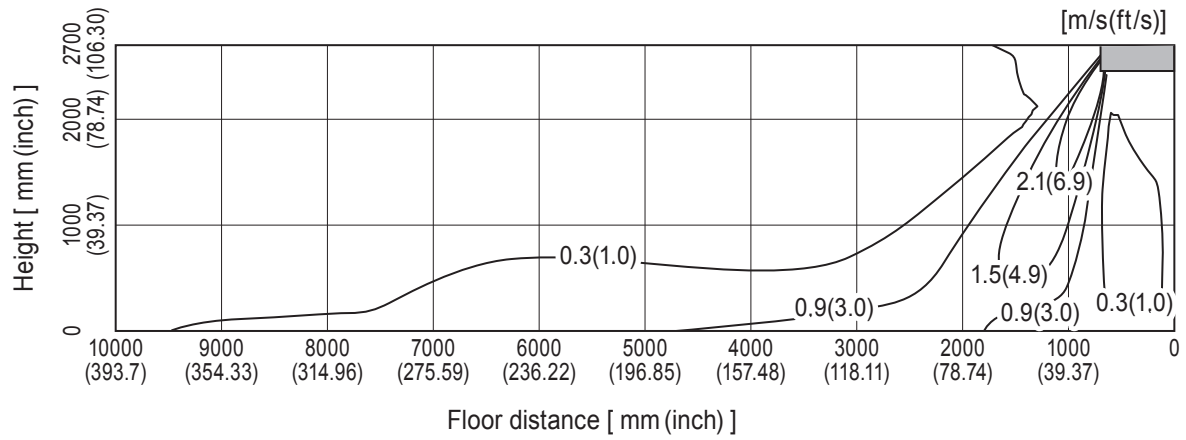
PCA-A30KA7

Airflow distribution

<Cooling mode> Air volume: high
 Air direction: auto (upward air flow)



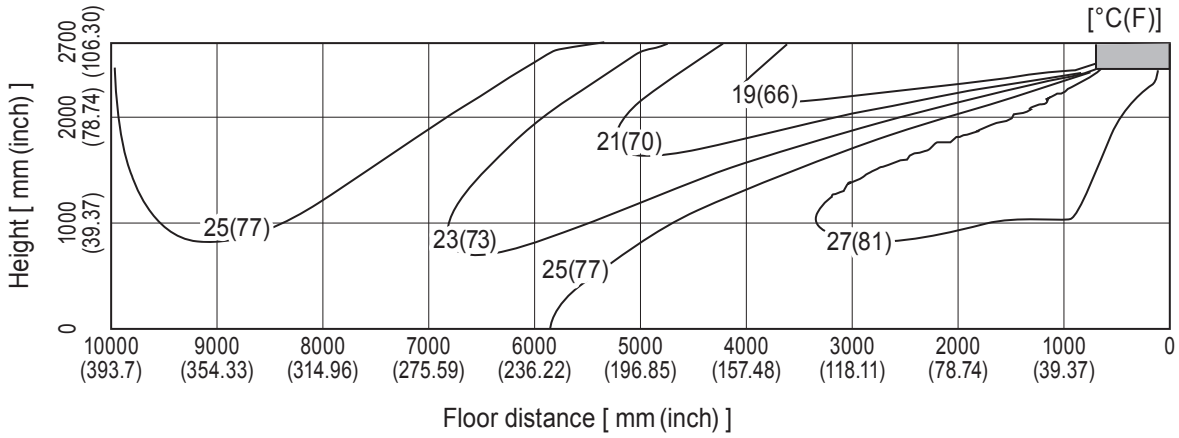
<Heating mode> Air volume: high
 Air direction: auto (downward air flow)



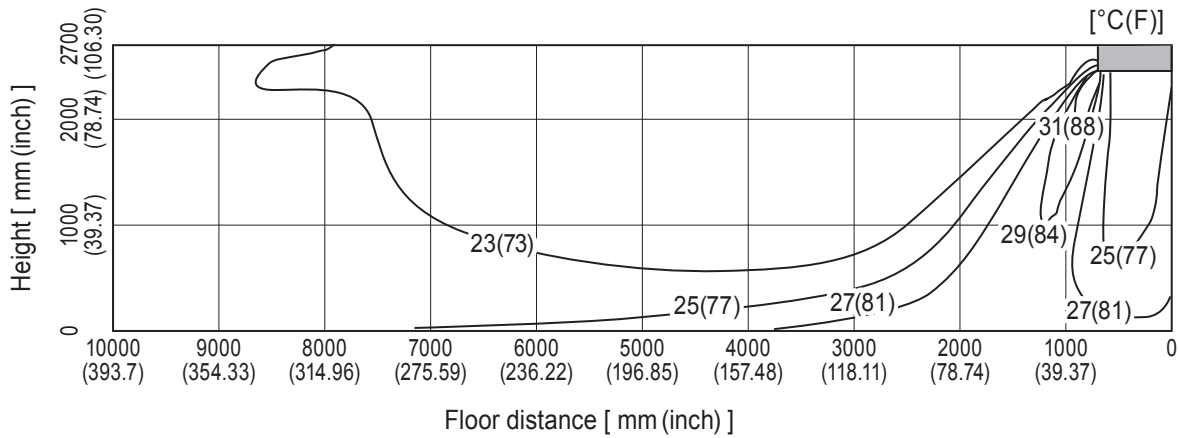
PCA-A36KA7

Temperature distribution

<Cooling mode> Air volume: high
Air direction: auto (upward air flow)



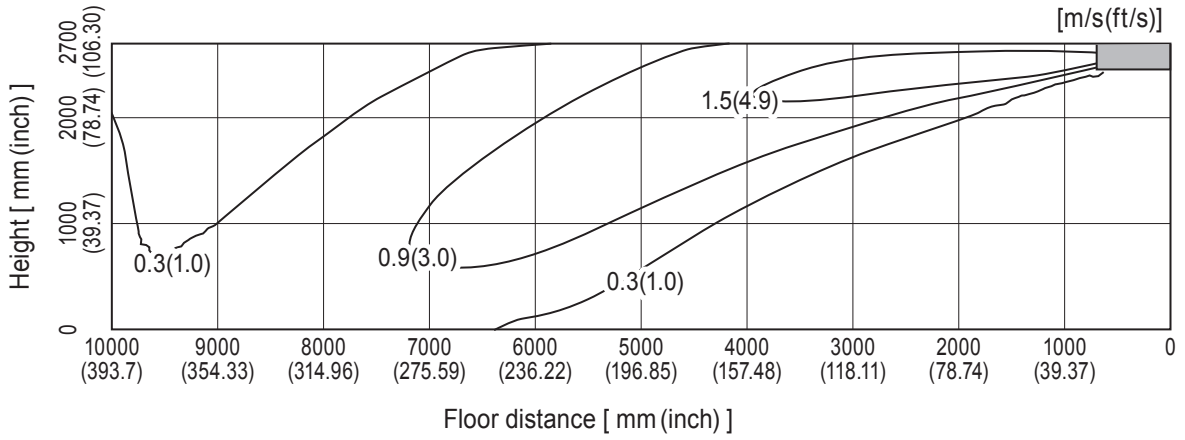
<Heating mode> Air volume: high
Air direction: auto (downward air flow)



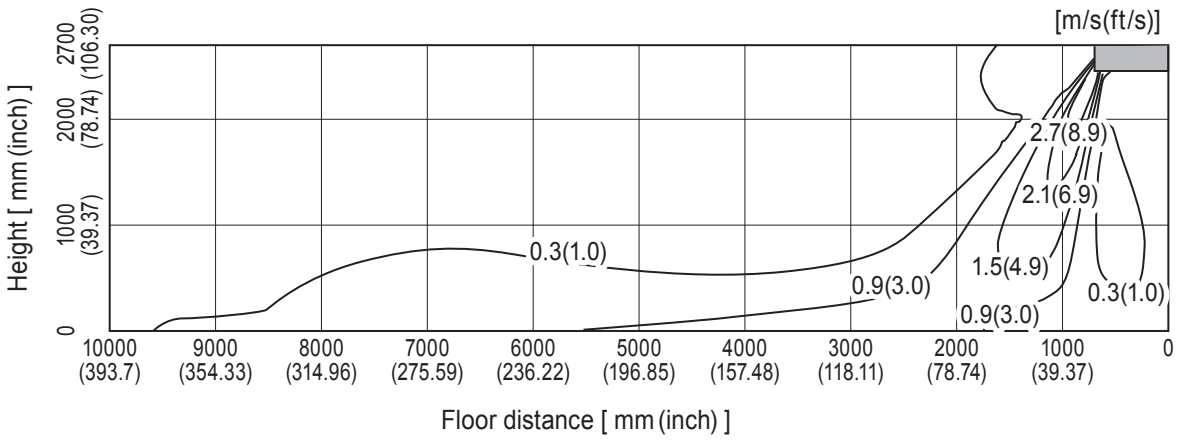
PCA-A36KA7

Airflow distribution

<Cooling mode> Air volume: high
Air direction: auto (upward air flow)



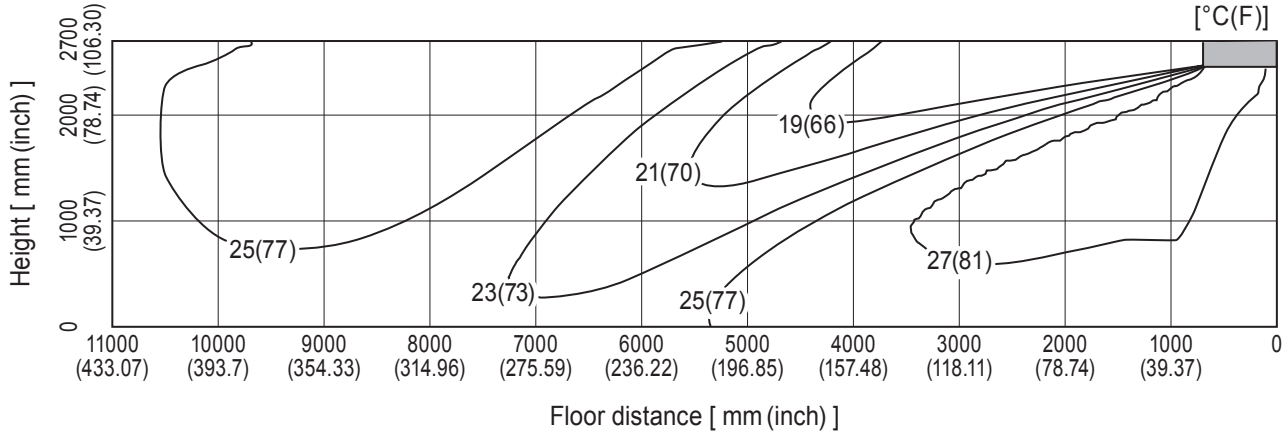
<Heating mode> Air volume: high
Air direction: auto (downward air flow)



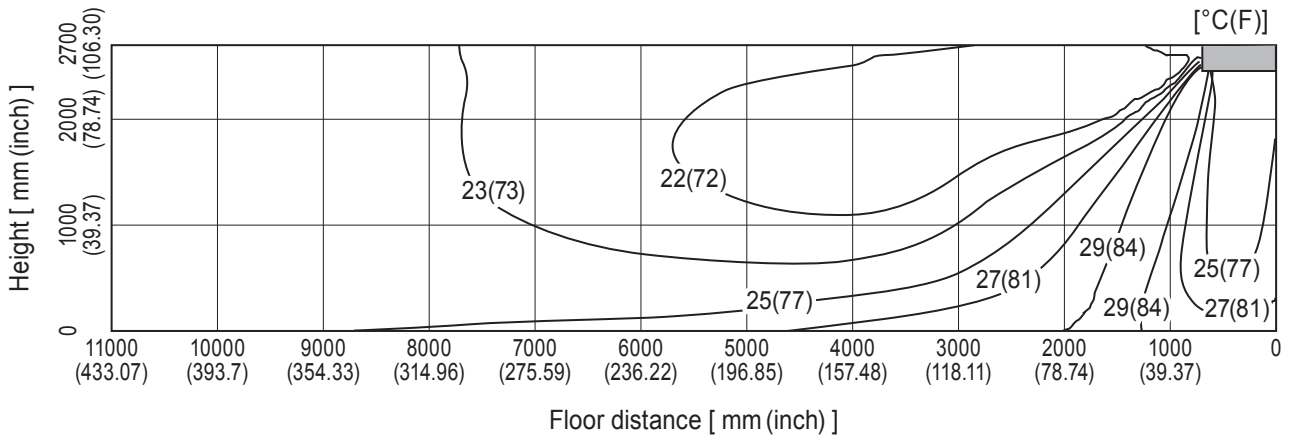
PCA-A42KA7

Temperature distribution

<Cooling mode> Air volume: high
Air direction: auto (upward air flow)



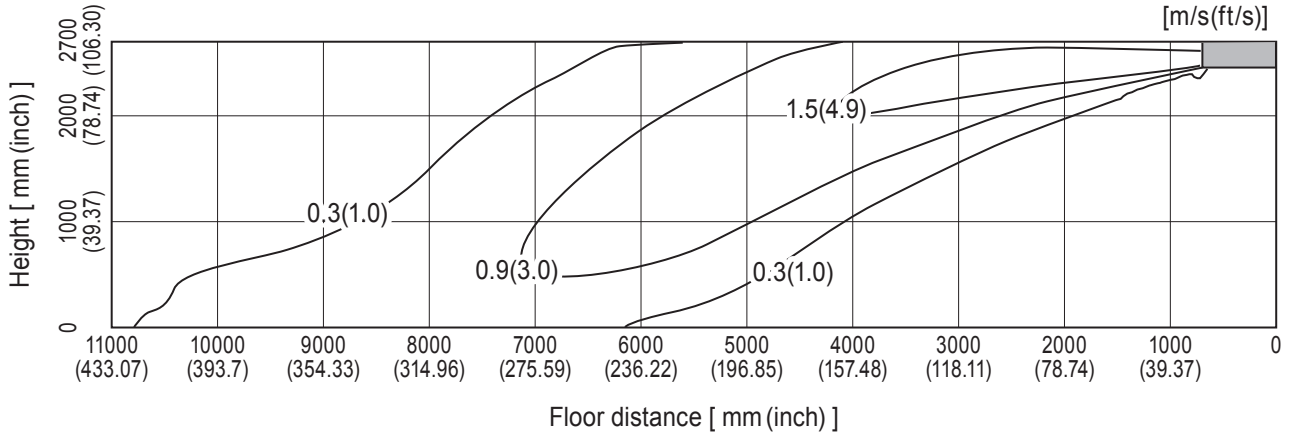
<Heating mode> Air volume: high
Air direction: auto (downward air flow)



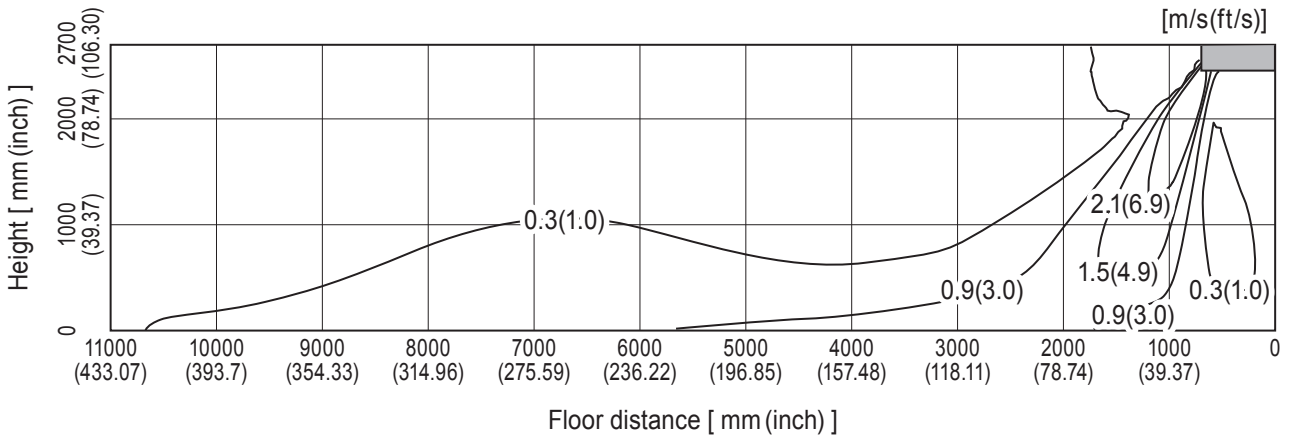
PCA-A42KA7

Airflow distribution

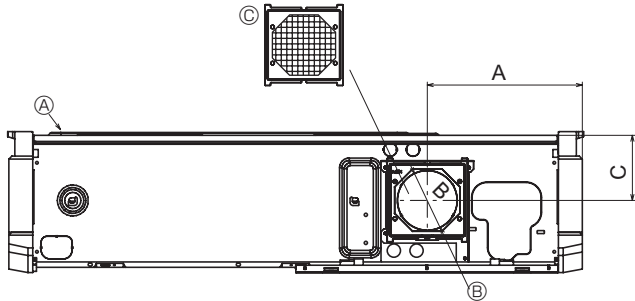
<Cooling mode> Air volume: high
Air direction: auto (upward air flow)



<Heating mode> Air volume: high
Air direction: auto (downward air flow)



10-5-2. FRESH AIR INTAKE AMOUNT & STATIC PRESSURE CHARACTERISTICS



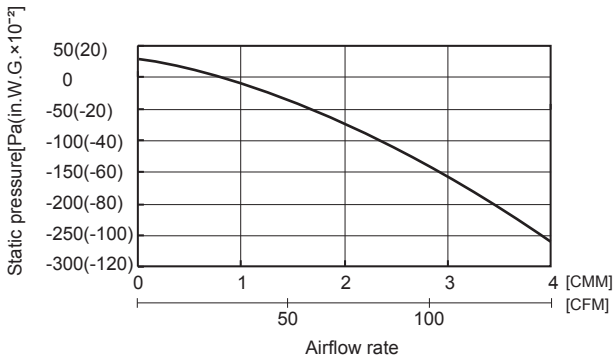
Fresh air intake hole

At the time of installation, use the duct holes (knock out) located at the positions shown in the left diagram, as and when required.

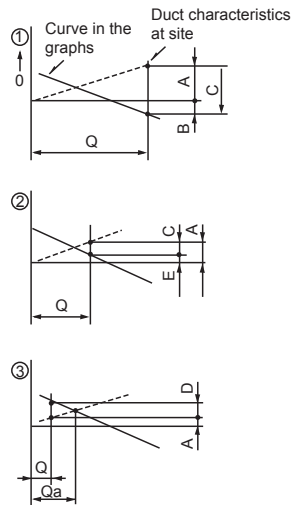
- Ⓐ Indoor unit
- Ⓑ Fresh air intake hole (knock out hole)
- Ⓒ Filter

in. (mm)		
A	B	C
10-3/16 (259.5)	∅ 3-15/16 (∅ 100)	4-5/16 (109)

■ PCA-A24, 30KA7

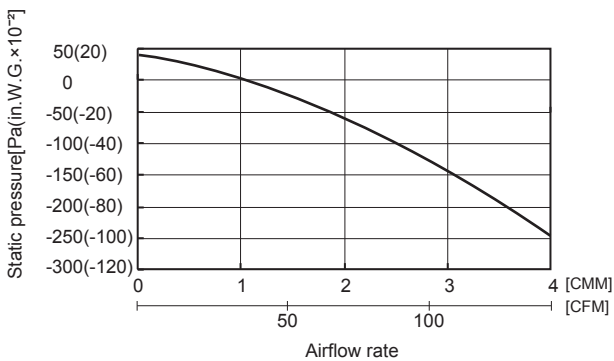


How to read curves



- Q...Designed amount of fresh air intake <CMM(CFM)>
- A...Static pressure loss of fresh air intake duct system with airflow amount Q <Pa(in.W.G.x10⁻²)>
- B...Forced static pressure at air conditioner inlet with airflow amount Q <Pa(in.W.G.x10⁻²)>
- C...Static pressure of booster fan with airflow amount Q <Pa(in.W.G.x10⁻²)>
- D...Static pressure loss increase amount of fresh air intake duct system for airflow amount Q <Pa(in.W.G.x10⁻²)>
- E...Static pressure of indoor unit with airflow amount Q <Pa(in.W.G.x10⁻²)>
- Qa...Estimated amount of fresh air intake without D <CMM(CFM)>

■ PCA-A36, 42KA7

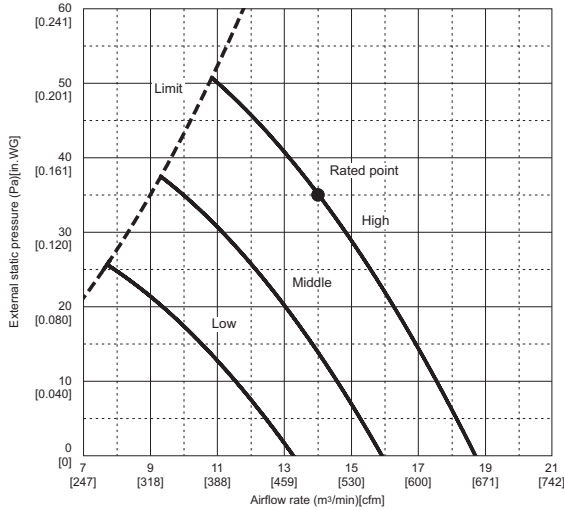


10-6. PEAD-A-AA7

10-6-1. INDOOR FAN PERFORMANCE AND CORRECTED AIR FLOW

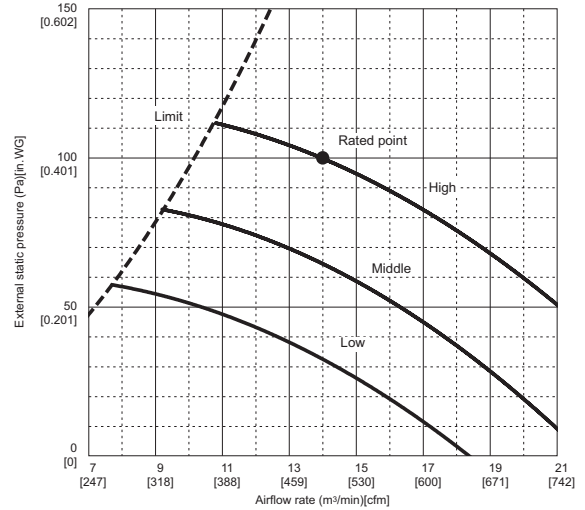
PEAD-A12AA7

(External static pressure 35Pa) 208-230V 60Hz



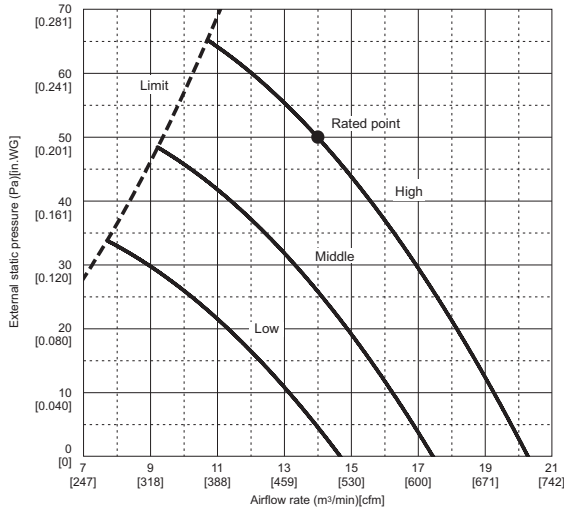
PEAD-A12AA7

(External static pressure 100Pa) 208-230V 60Hz



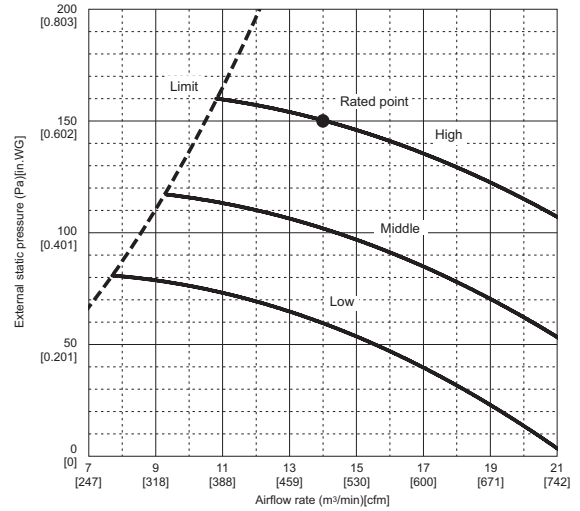
PEAD-A12AA7

(External static pressure 50Pa) 208-230V 60Hz



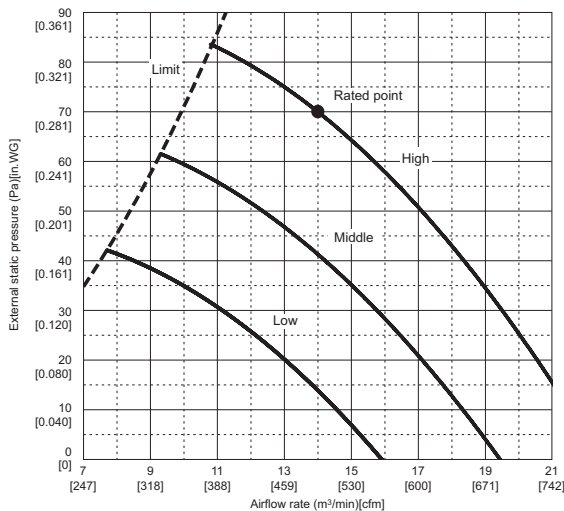
PEAD-A12AA7

(External static pressure 150Pa) 208-230V 60Hz



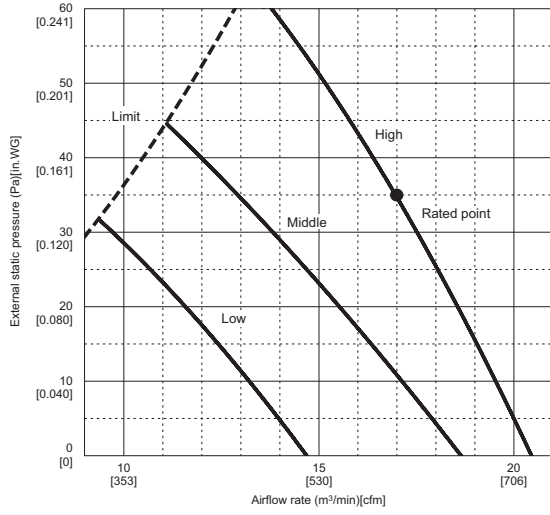
PEAD-A12AA7

(External static pressure 70Pa) 208-230V 60Hz



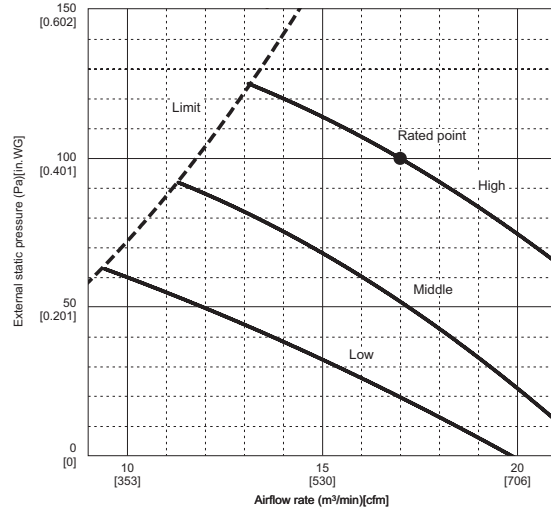
PEAD-A18AA7

(External static pressure 35Pa) 208-230V 60Hz



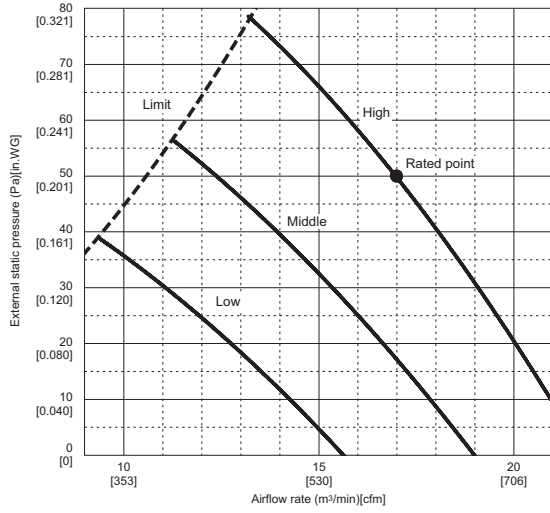
PEAD-A18AA7

(External static pressure 100Pa) 208-230V 60Hz



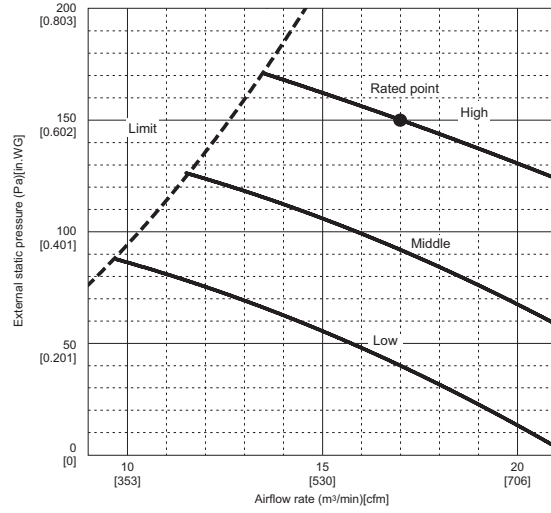
PEAD-A18AA7

(External static pressure 50Pa) 208-230V 60Hz



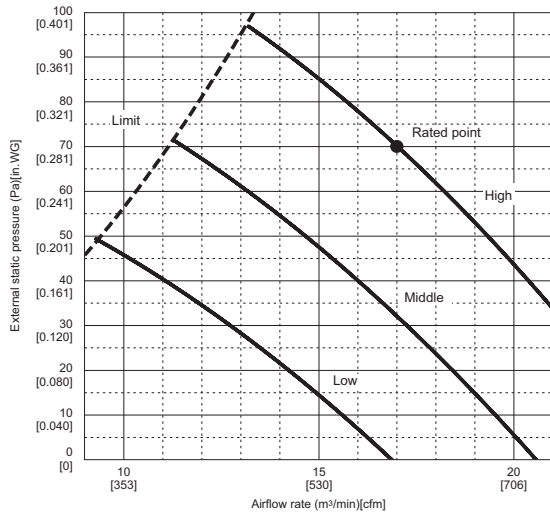
PEAD-A18AA7

(External static pressure 150Pa) 208-230V 60Hz



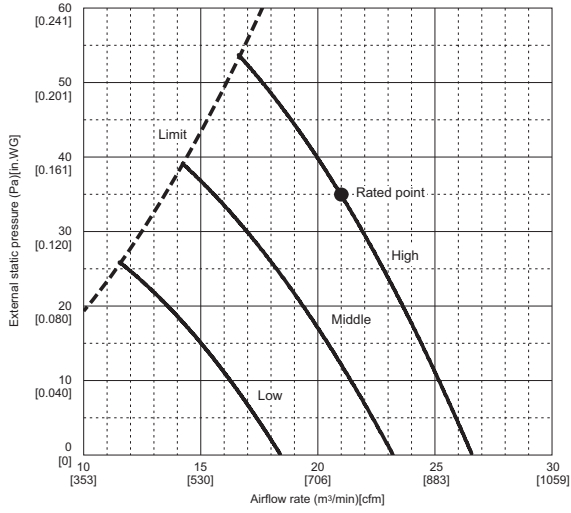
PEAD-A18AA7

(External static pressure 70Pa) 208-230V 60Hz



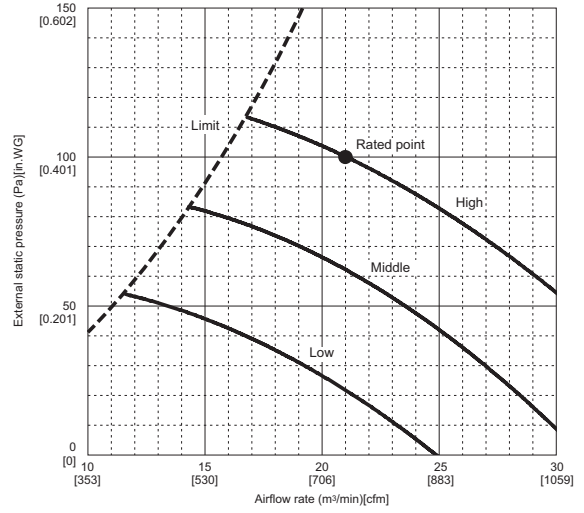
PEAD-A24AA7

(External static pressure 35Pa) 208-230V 60Hz



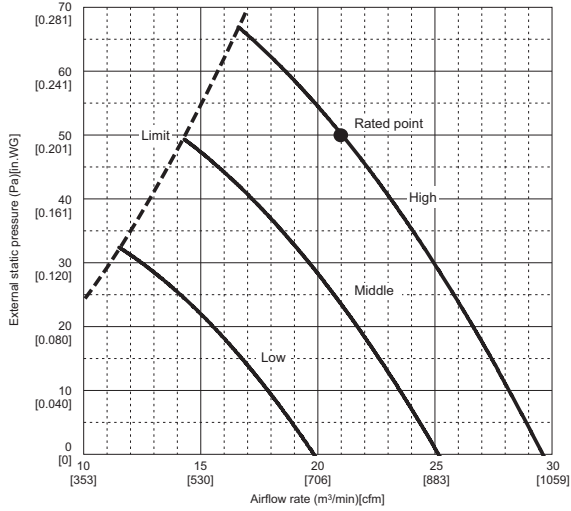
PEAD-A24AA7

(External static pressure 100Pa) 208-230V 60Hz



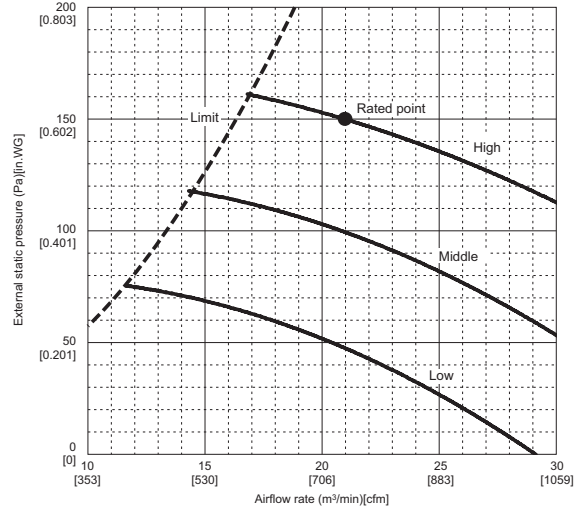
PEAD-A24AA7

(External static pressure 50Pa) 208-230V 60Hz



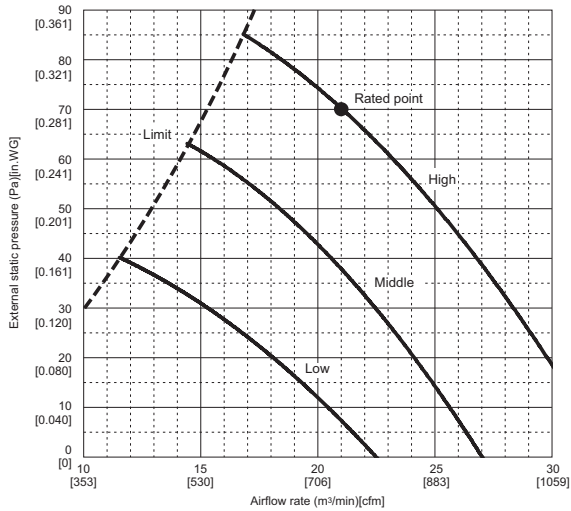
PEAD-A24AA7

(External static pressure 150Pa) 208-230V 60Hz



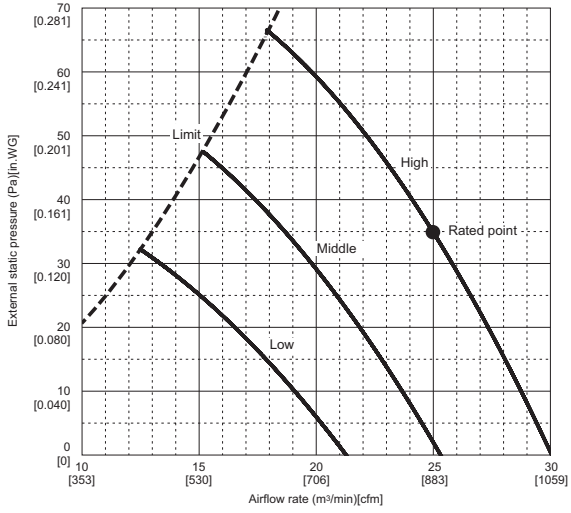
PEAD-A24AA7

(External static pressure 70Pa) 208-230V 60Hz



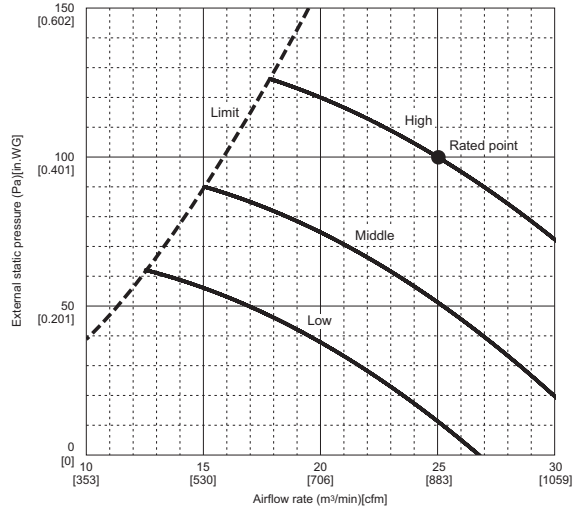
PEAD-A30AA7

(External static pressure 35Pa) 208-230V 60Hz



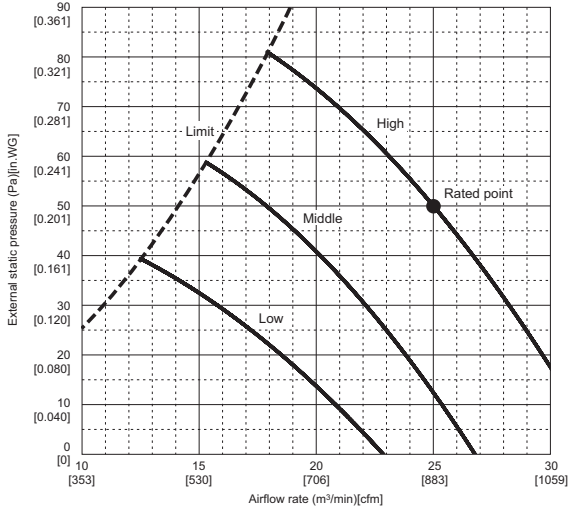
PEAD-A30AA7

(External static pressure 100Pa) 208-230V 60Hz



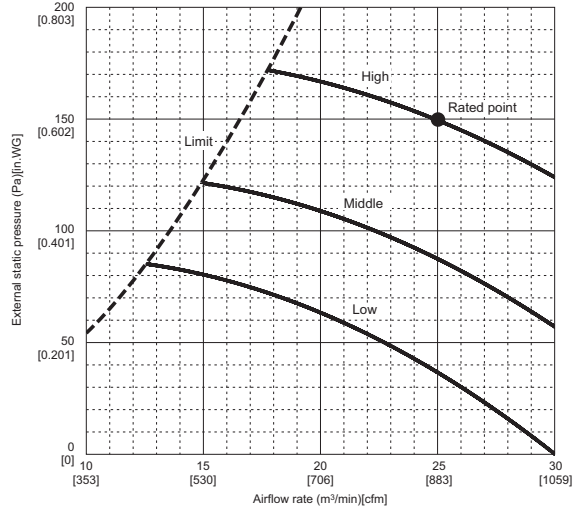
PEAD-A30AA7

(External static pressure 50Pa) 208-230V 60Hz



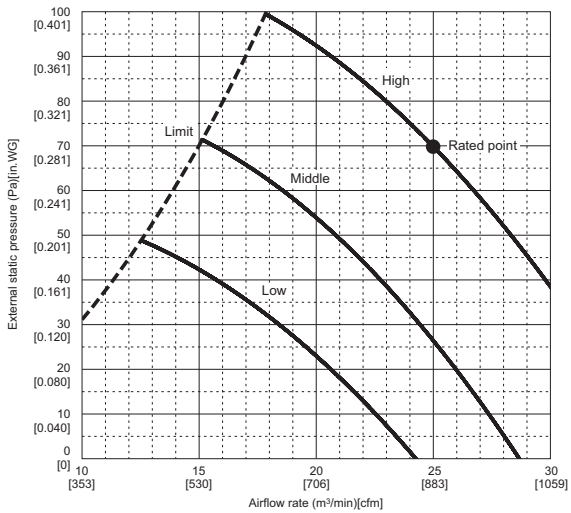
PEAD-A30AA7

(External static pressure 150Pa) 208-230V 60Hz



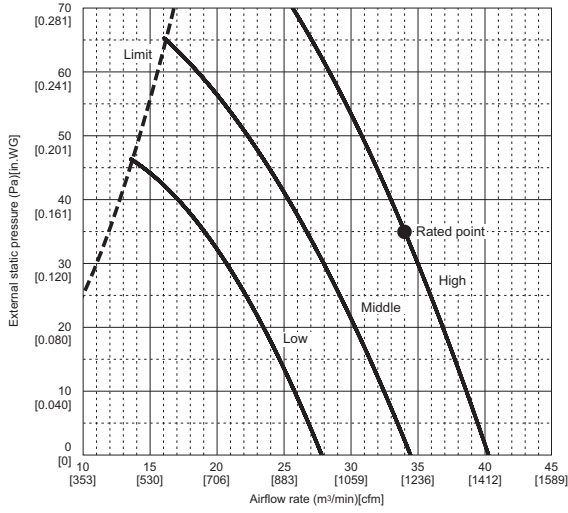
PEAD-A30AA7

(External static pressure 70Pa) 208-230V 60Hz



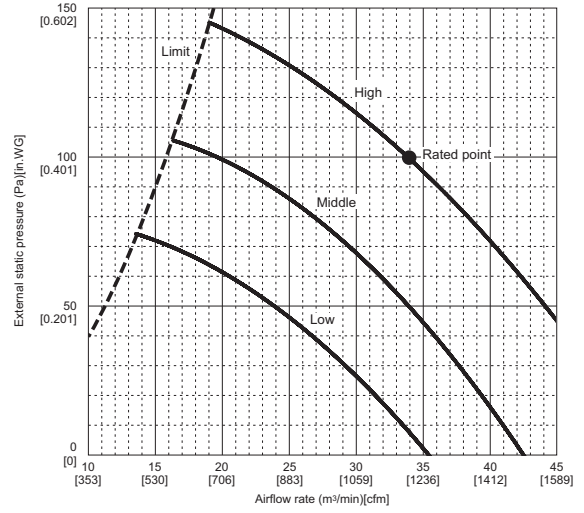
PEAD-A36AA7

(External static pressure 35Pa) 208-230V 60Hz



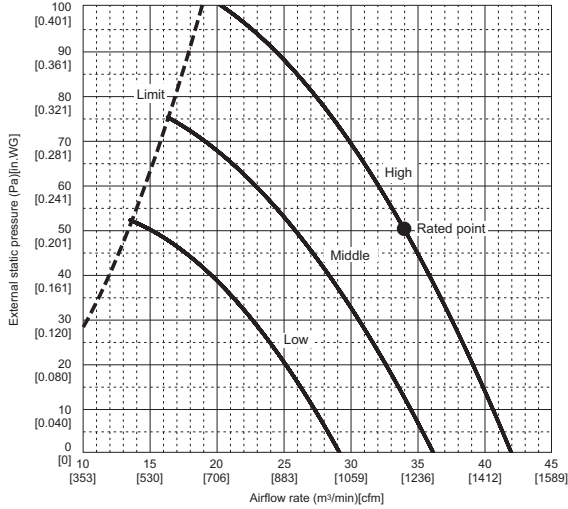
PEAD-A36AA7

(External static pressure 100Pa) 208-230V 60Hz



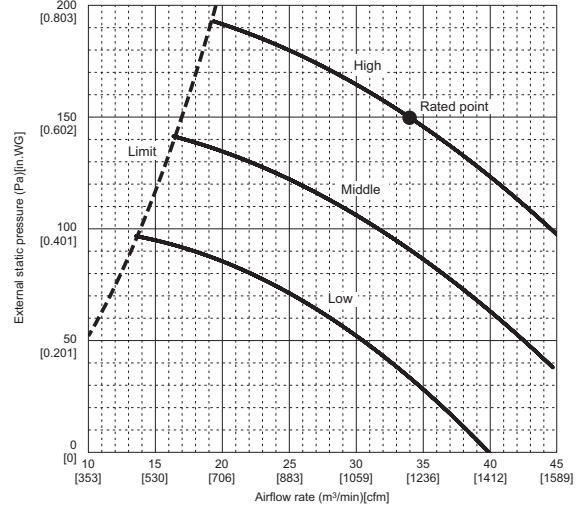
PEAD-A36AA7

(External static pressure 50Pa) 208-230V 60Hz



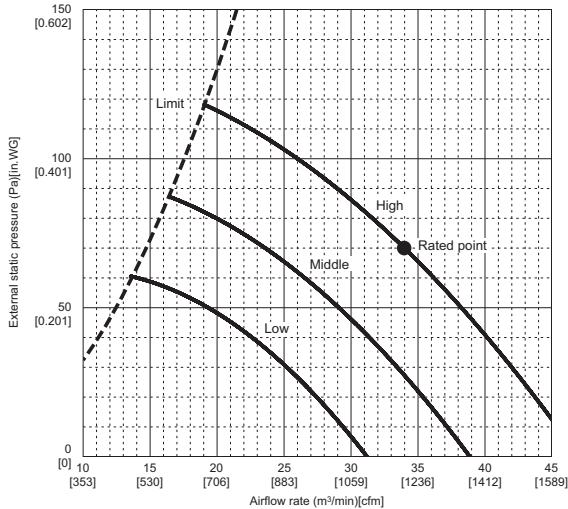
PEAD-A36AA7

(External static pressure 150Pa) 208-230V 60Hz



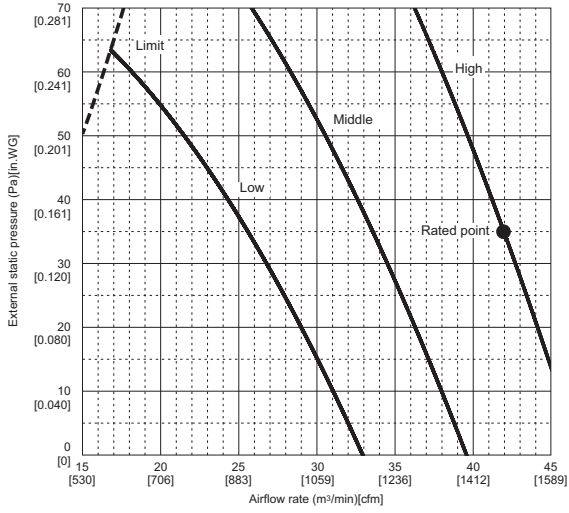
PEAD-A36AA7

(External static pressure 70Pa) 208-230V 60Hz



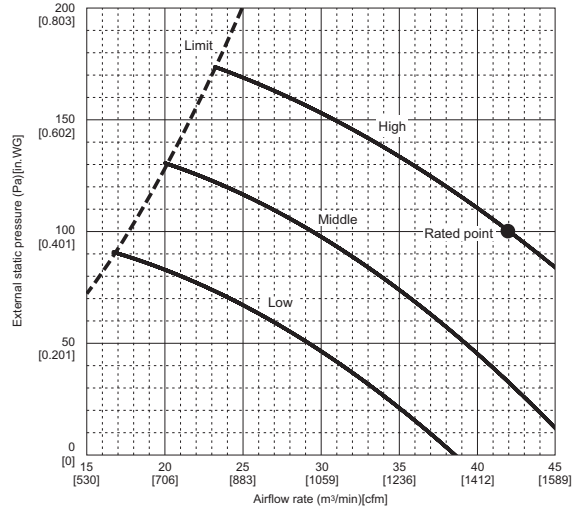
PEAD-A42AA7

(External static pressure 35Pa) 208-230V 60Hz



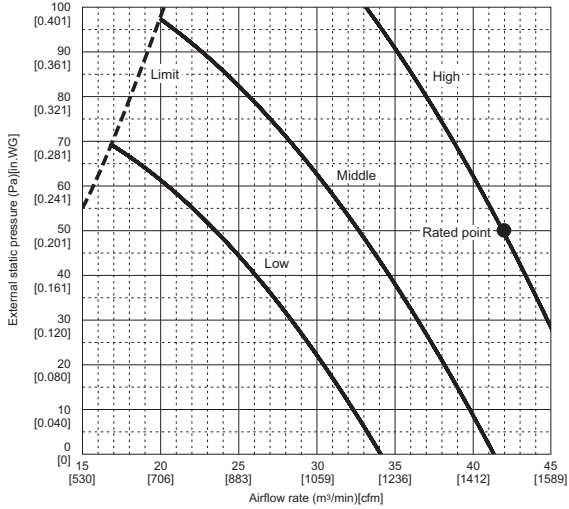
PEAD-A42AA7

(External static pressure 100Pa) 208-230V 60Hz



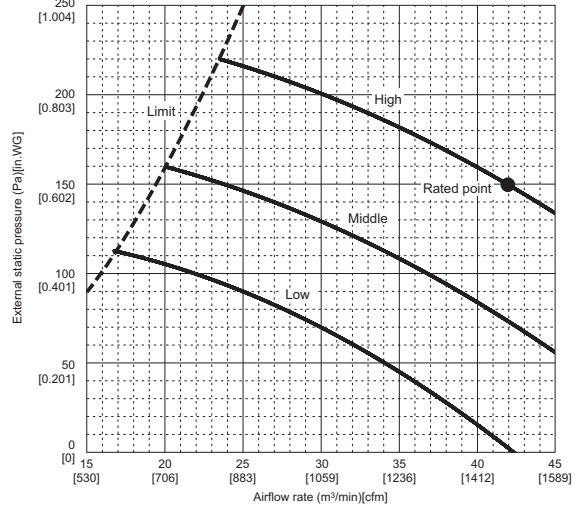
PEAD-A42AA7

(External static pressure 50Pa) 208-230V 60Hz



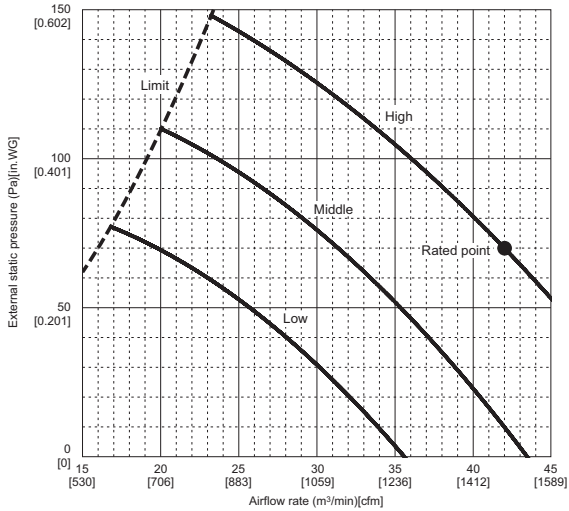
PEAD-A42AA7

(External static pressure 150Pa) 208-230V 60Hz



PEAD-A42AA7

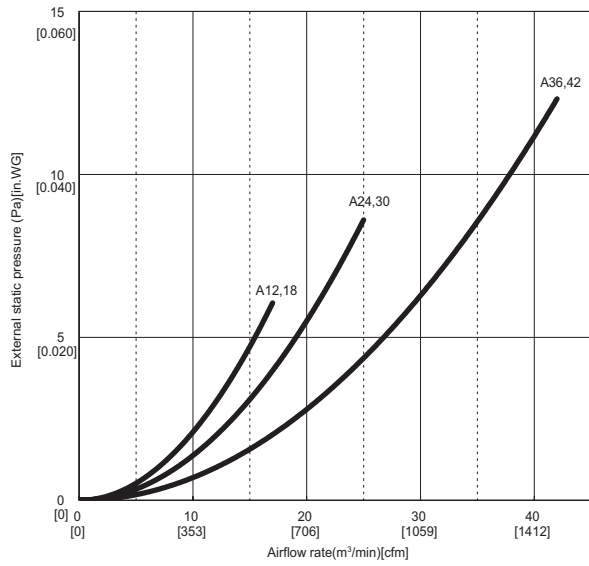
(External static pressure 70Pa) 208-230V 60Hz



10-6-2. AIR FILTER STATIL PRESSURE CURVES

PEAD-A12,18,24,30,36,42AA7

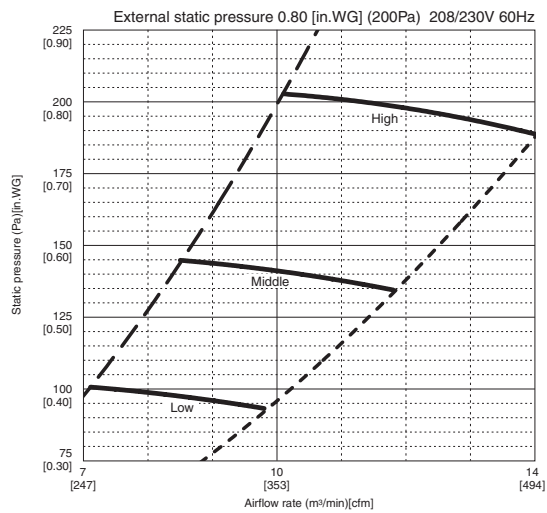
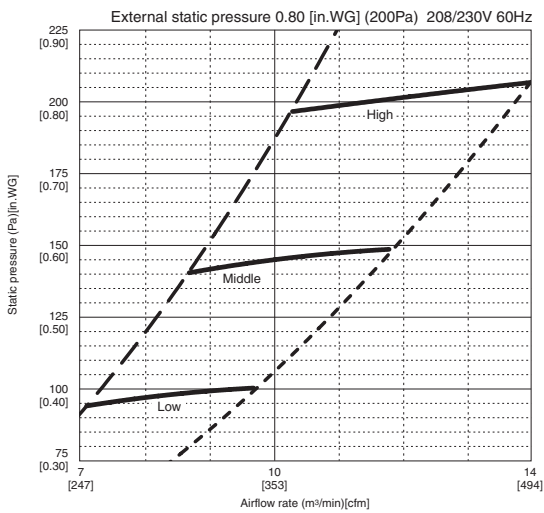
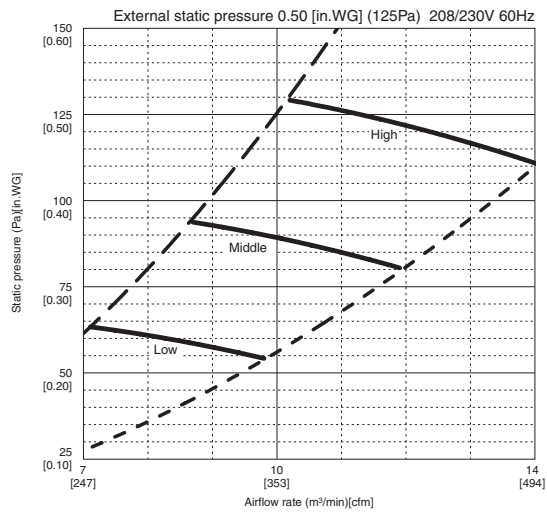
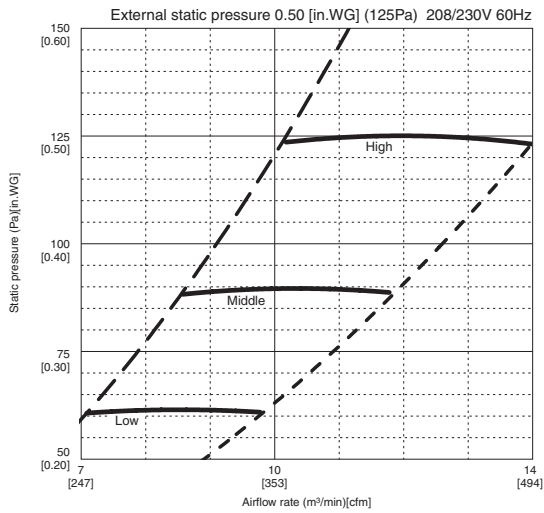
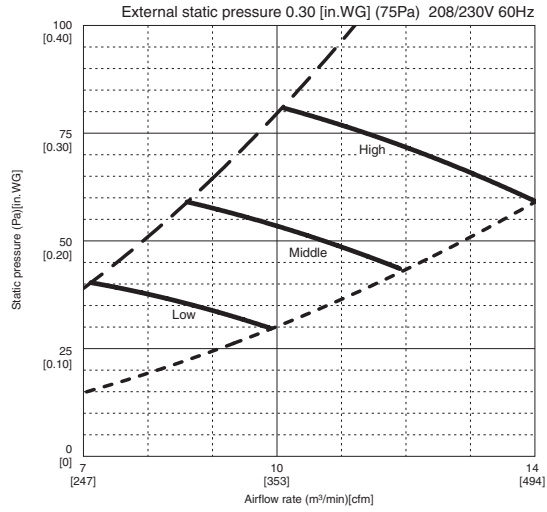
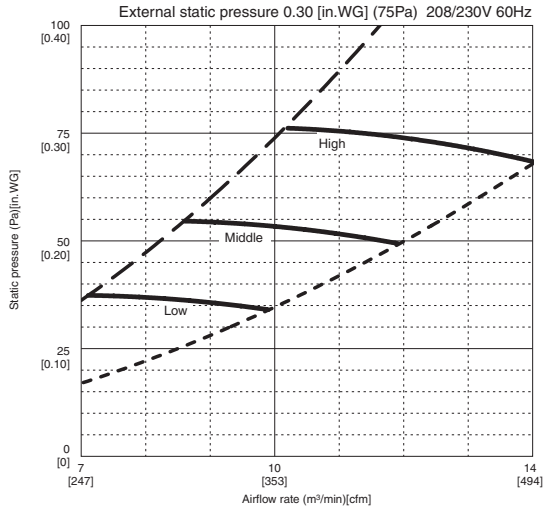
Air filter 208-230V 60Hz



10-7. PVA-A-AA7

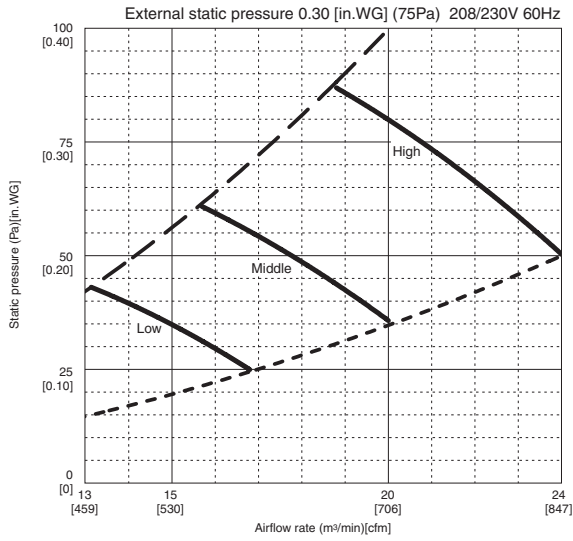
10-7-1. INDOOR FAN PERFORMANCE AND CORRECTED AIR FLOW PVA-A12AA7

- Vertical, Horizontal Right, Horizontal Left
- Downflow

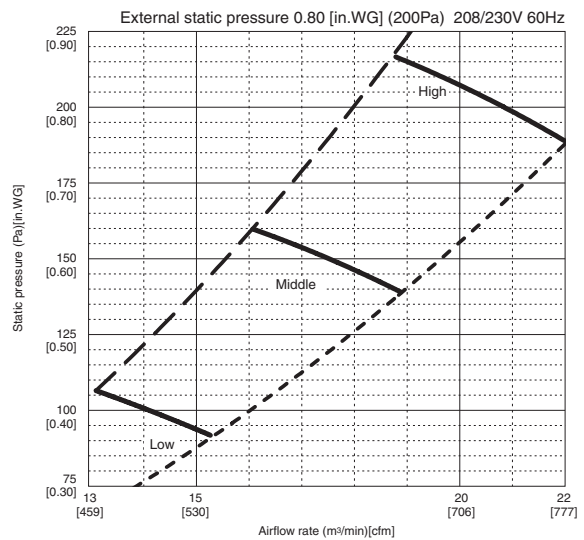
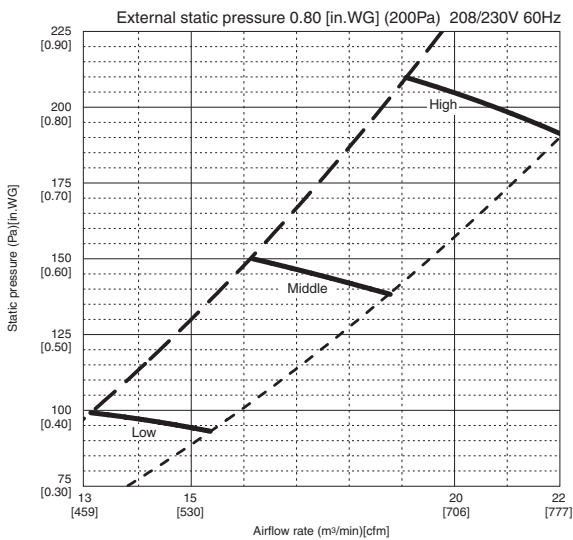
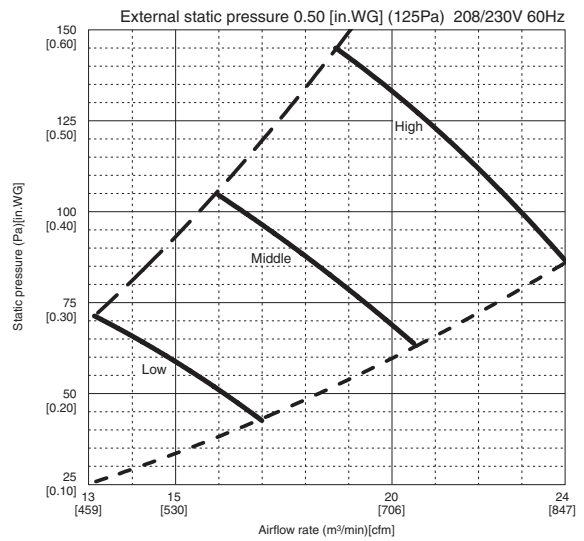
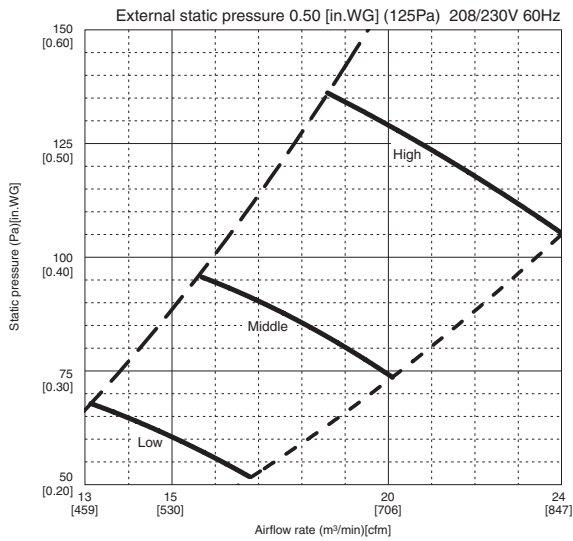
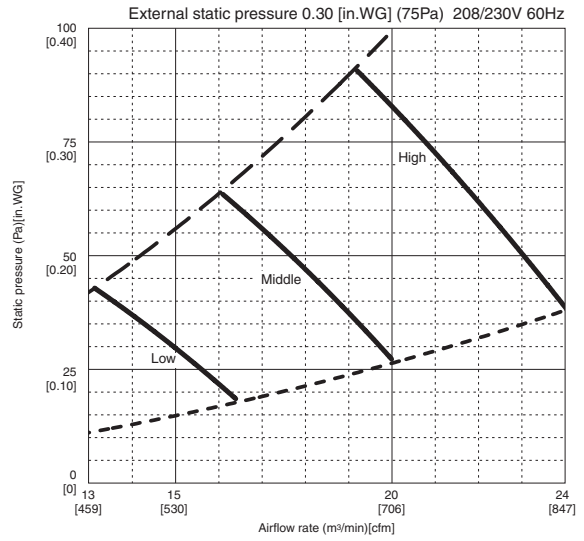


PVA-A18AA7

• Vertical, Horizontal Right, Horizontal Left

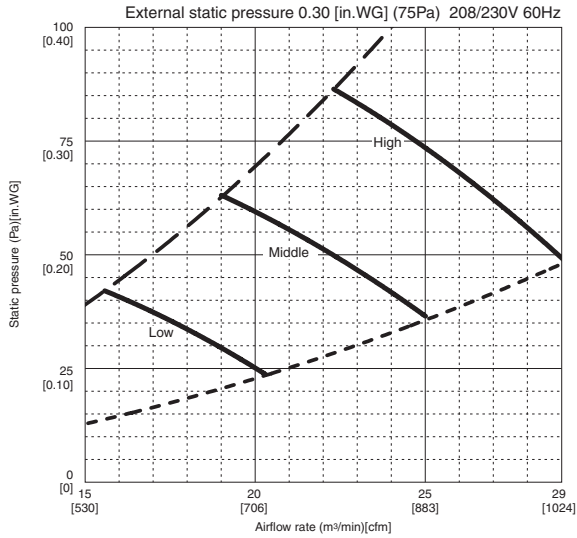


• Downflow

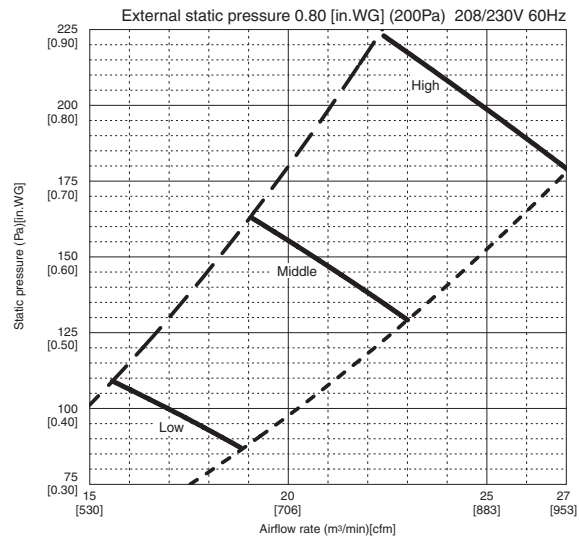
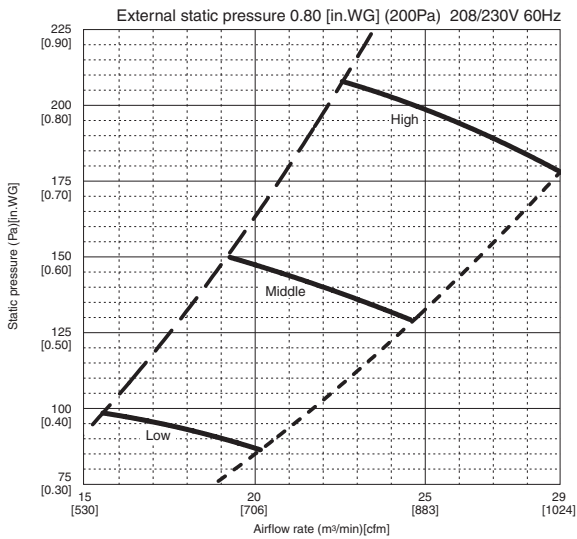
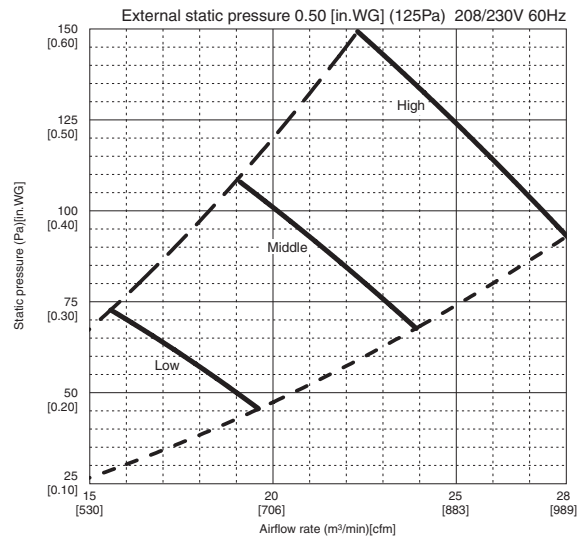
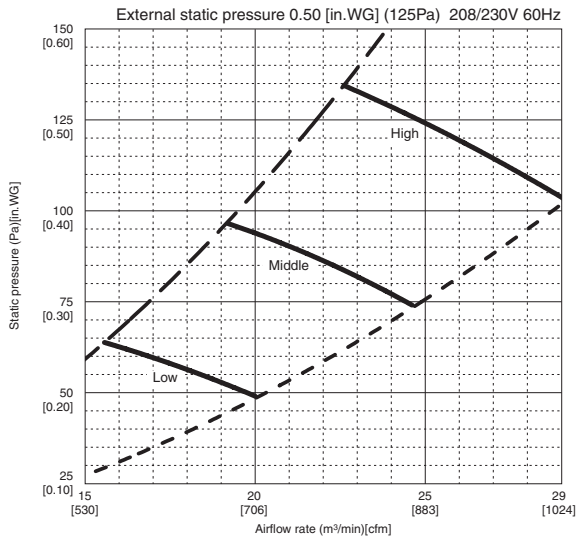
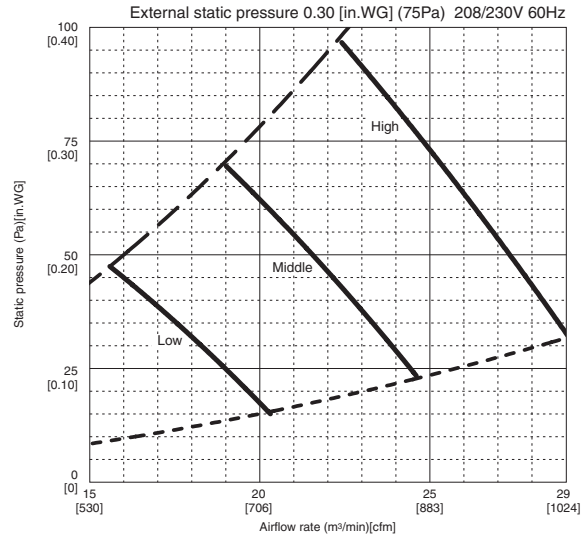


PVA-A24AA7

• Vertical, Horizontal Right, Horizontal Left

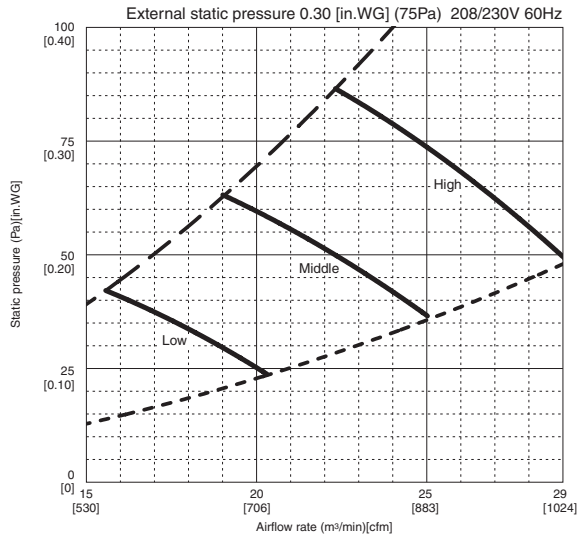


• Downflow

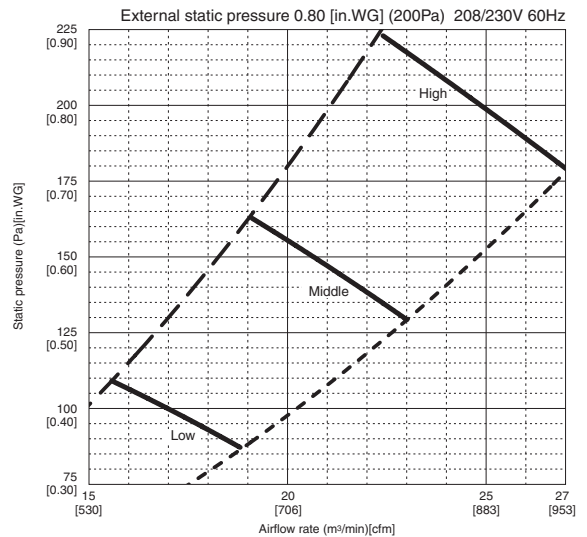
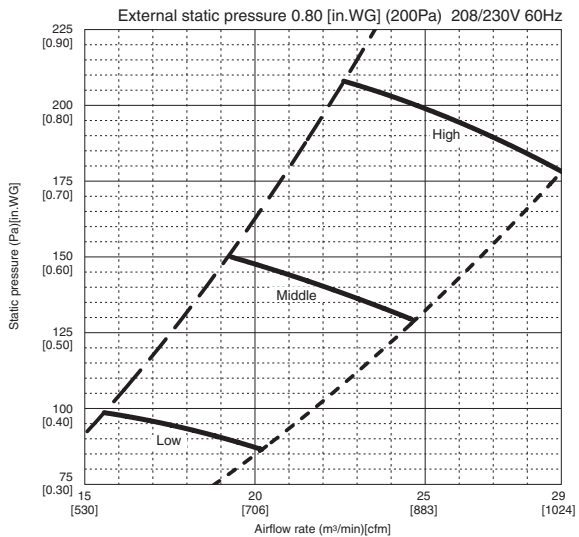
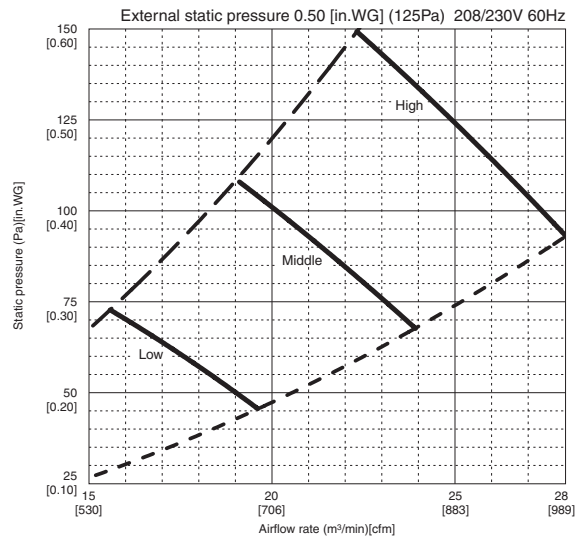
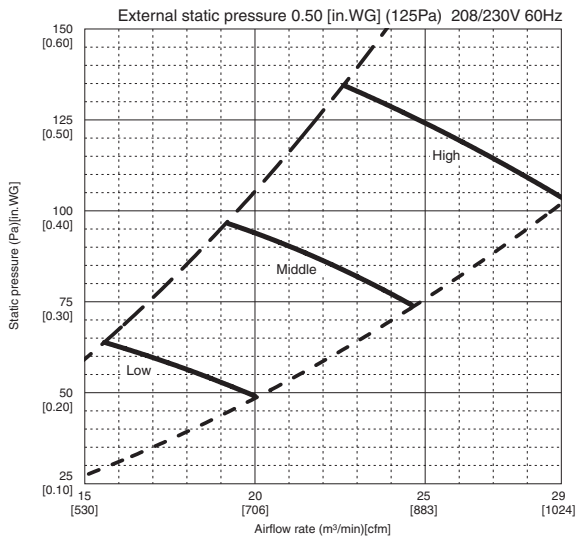
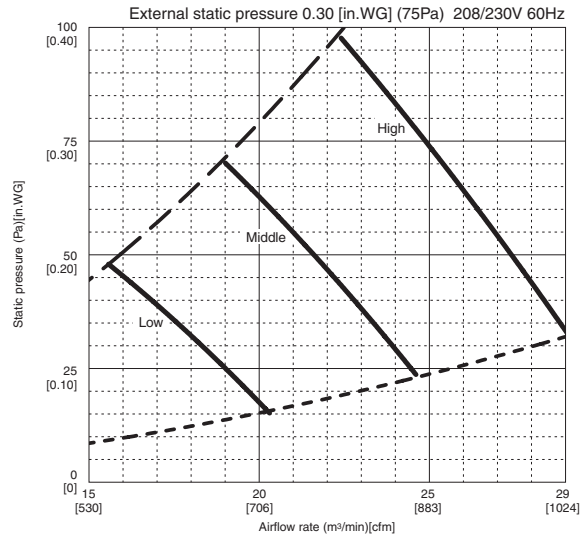


PVA-A30AA7

• Vertical, Horizontal Right, Horizontal Left

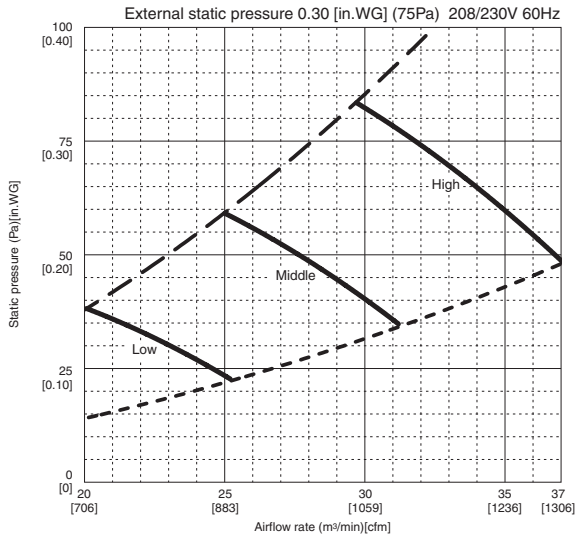


• Downflow

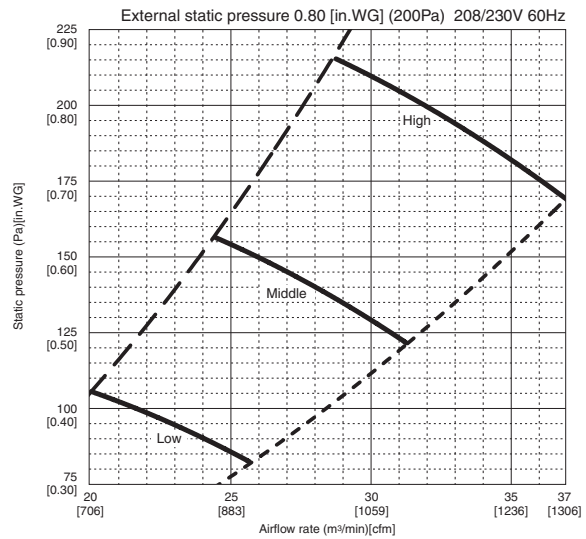
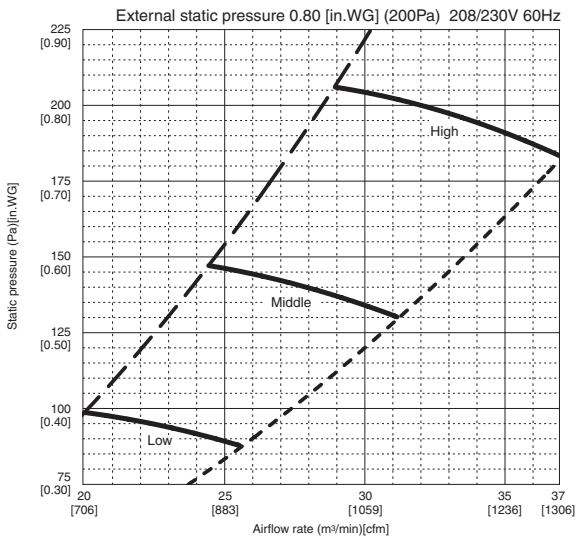
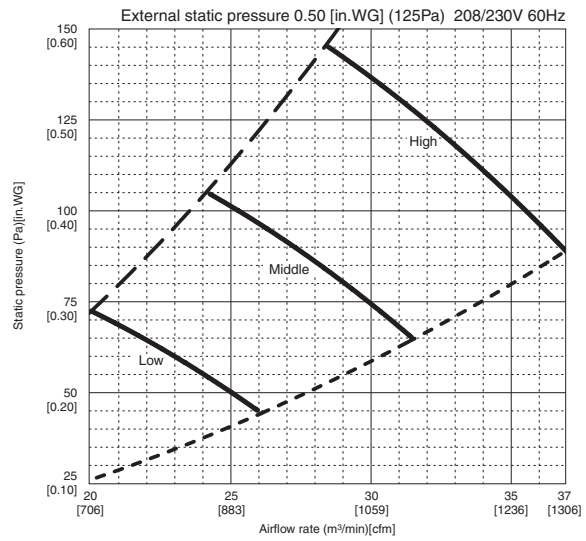
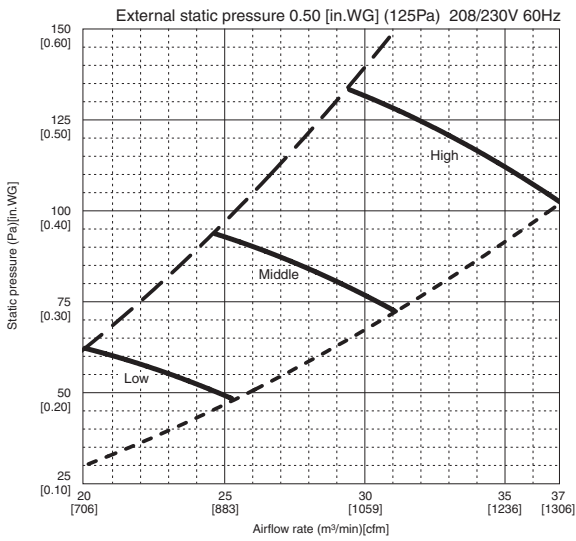
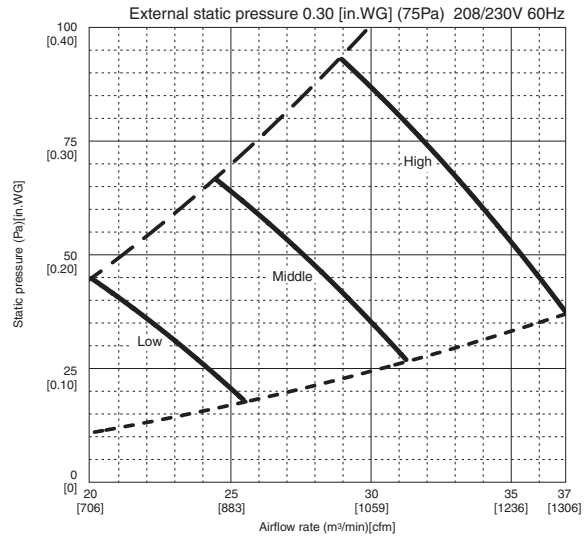


PVA-A36AA7

• Vertical, Horizontal Right, Horizontal Left

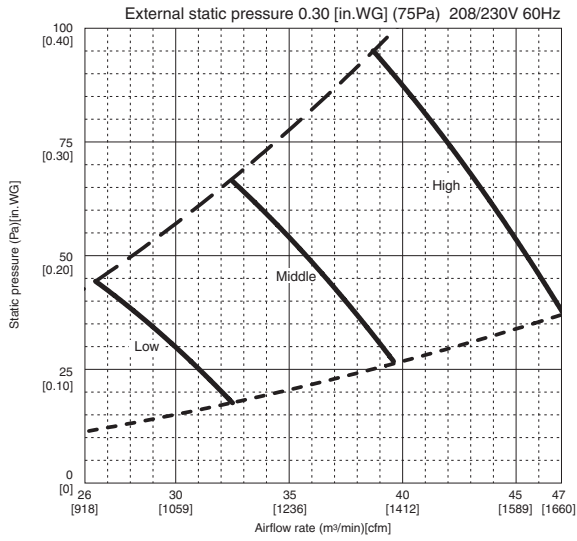


• Downflow

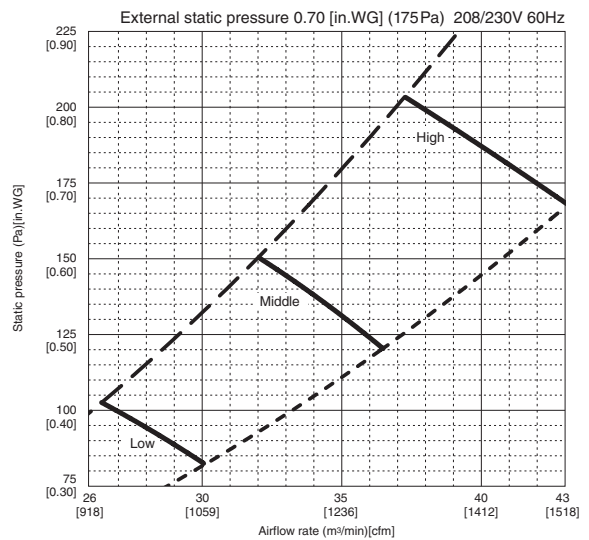
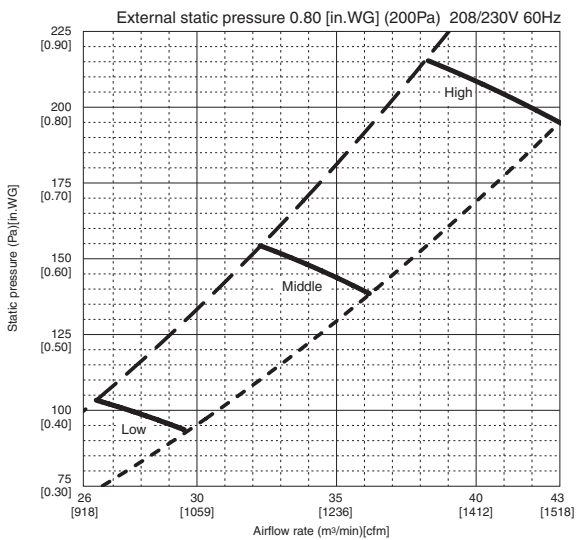
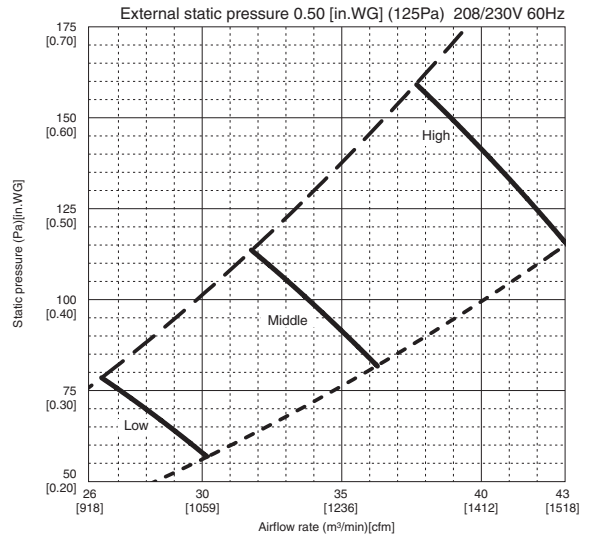
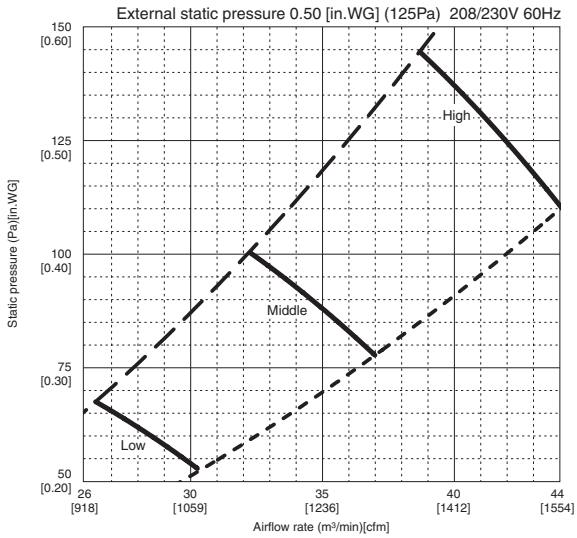
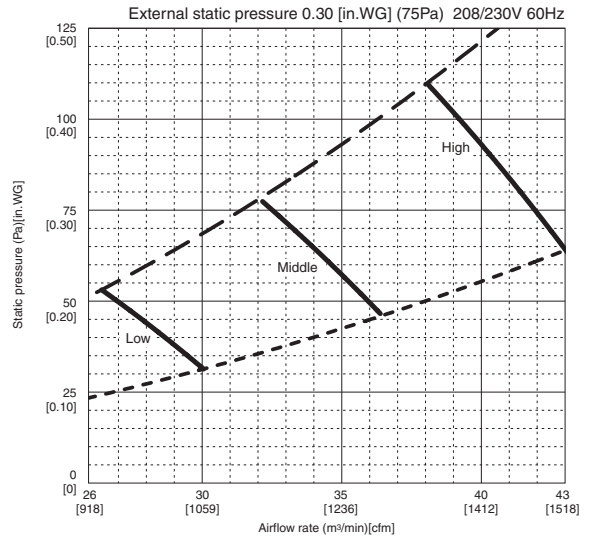


PVA-A42AA7

• Vertical, Horizontal Right, Horizontal Left



• Downflow

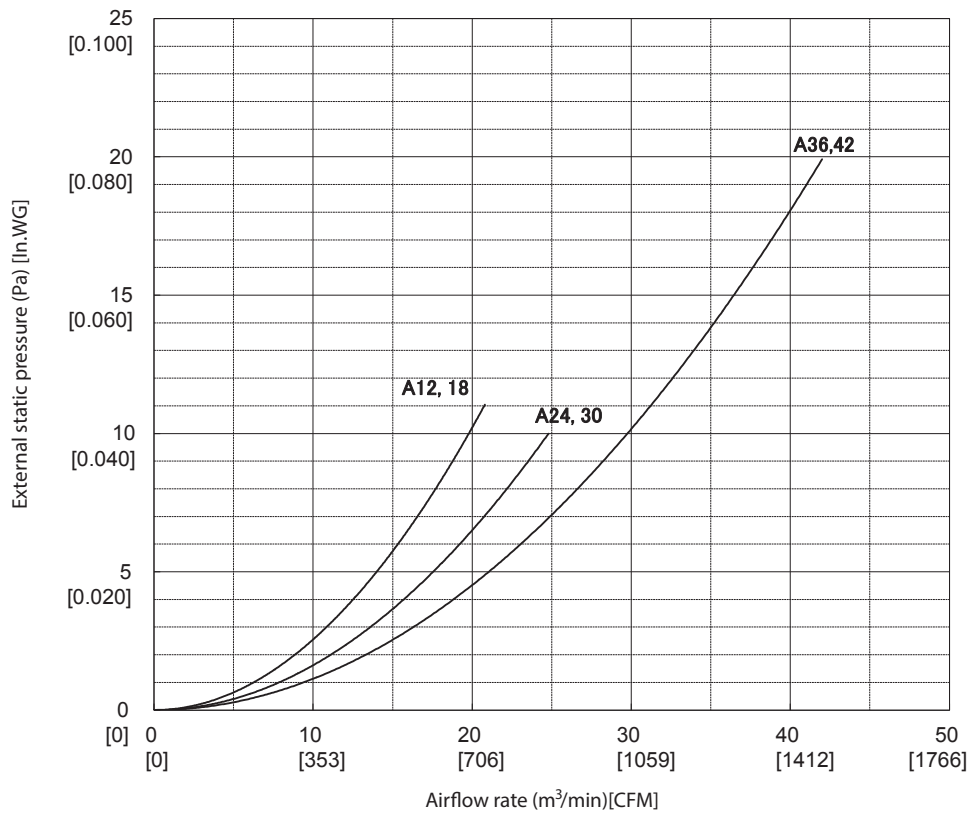


10-7-2. AIR FILTER STATIL PRESSURE CURVES

PVA-A12, 18, 24, 30, 36, 42AA7

Air Filter

Power Source: 60Hz, 208/230V

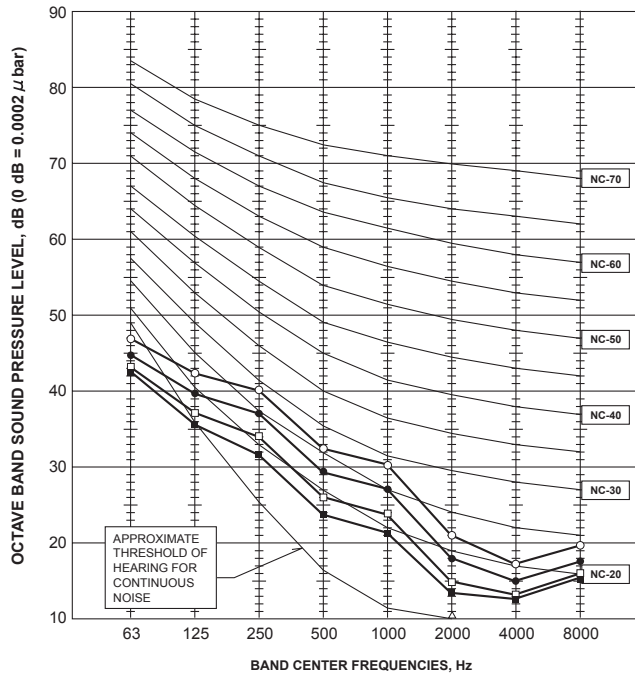


11 | NOISE CRITERION CURVES

11-1. INDOOR UNIT

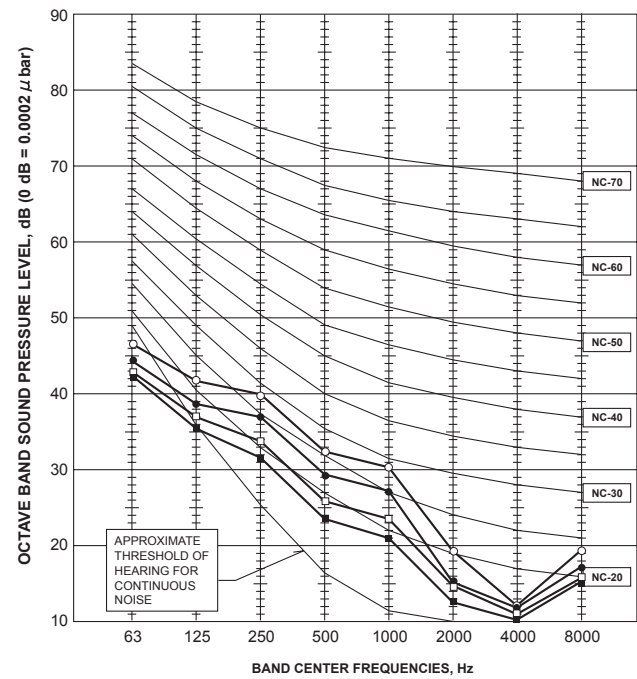
PLA-A12EA7

NOTCH	SPL(dB)	LINE
High	30	○—○
Medium1	29	●—●
Medium2	28	□—□
Low	27	■—■



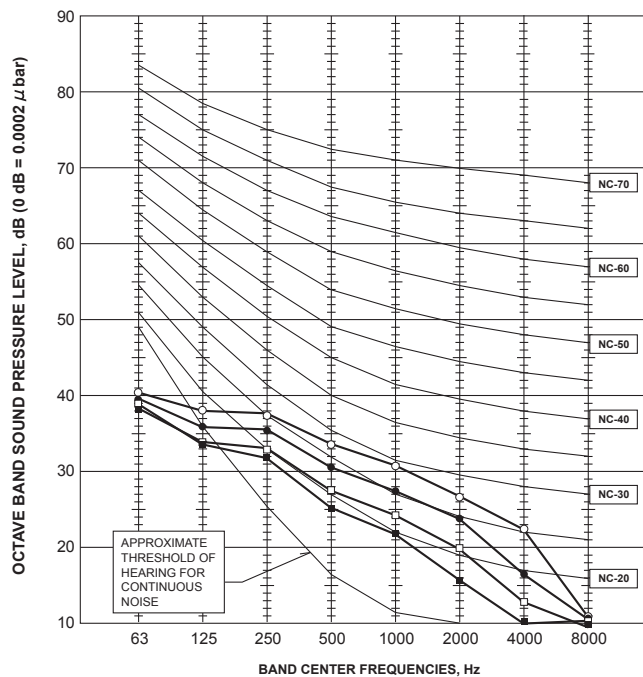
PLA-A18EA7

NOTCH	SPL(dB)	LINE
High	32	○—○
Medium1	31	●—●
Medium2	29	□—□
Low	28	■—■



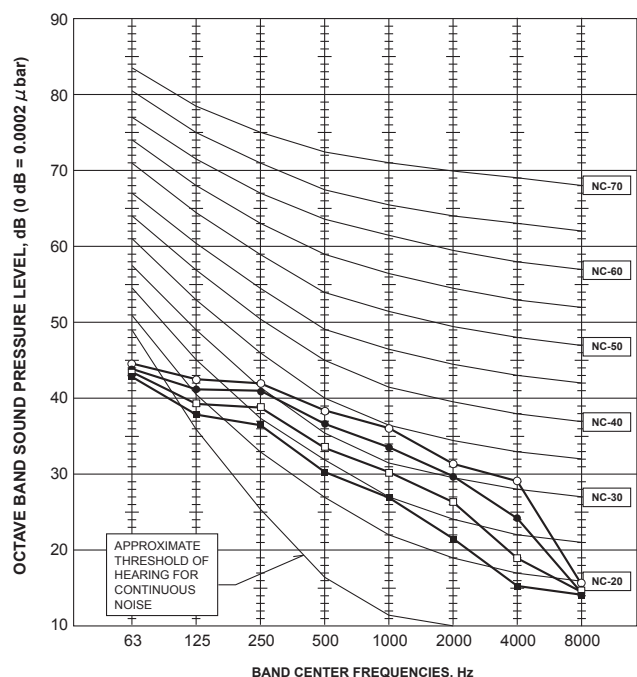
PLA-A24EA7

NOTCH	SPL(dB)	LINE
High	36	○—○
Medium1	33	●—●
Medium2	30	□—□
Low	28	■—■



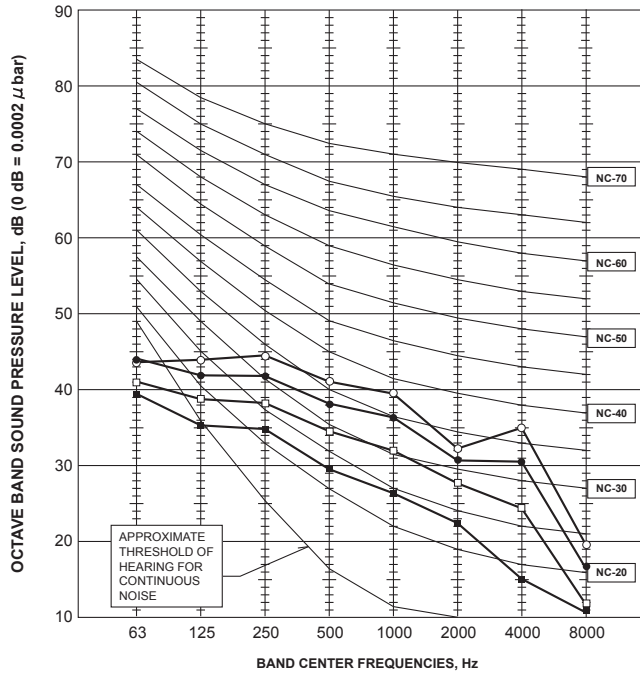
PLA-A30EA7

NOTCH	SPL(dB)	LINE
High	38	○—○
Medium1	35	●—●
Medium2	32	□—□
Low	28	■—■



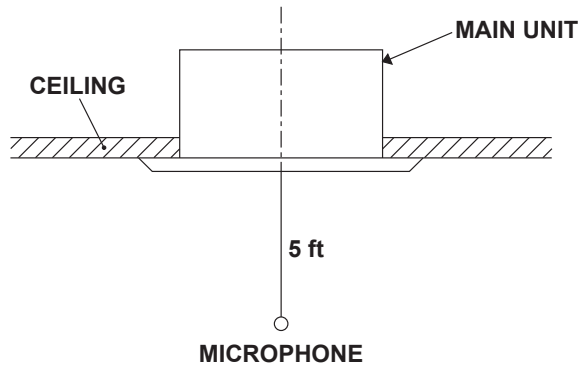
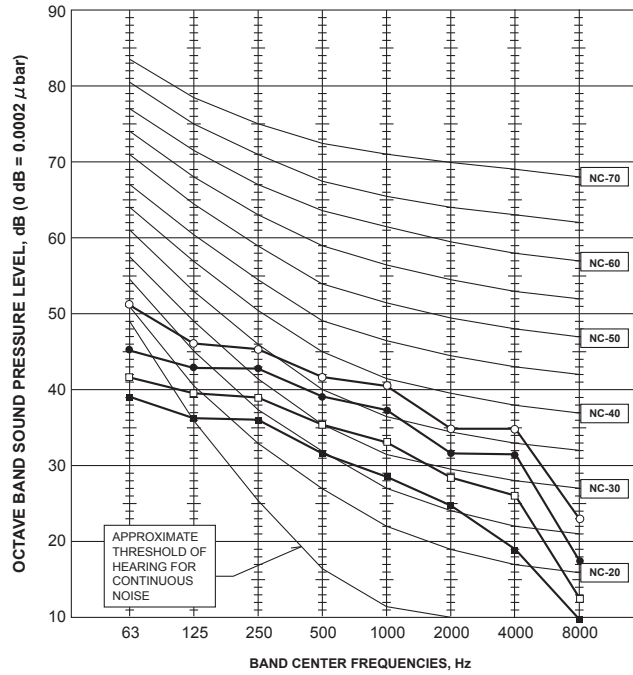
PLA-A36EA7

NOTCH	SPL(dB)	LINE
High	44	○—○
Medium1	41	●—●
Medium2	37	□—□
Low	32	■—■



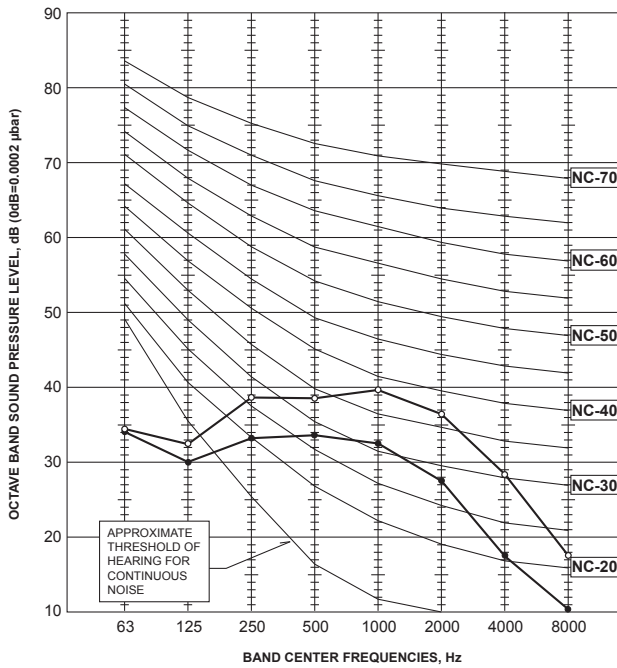
PLA-A42EA7

NOTCH	SPL(dB)	LINE
High	45	○—○
Medium1	42	●—●
Medium2	38	□—□
Low	34	■—■



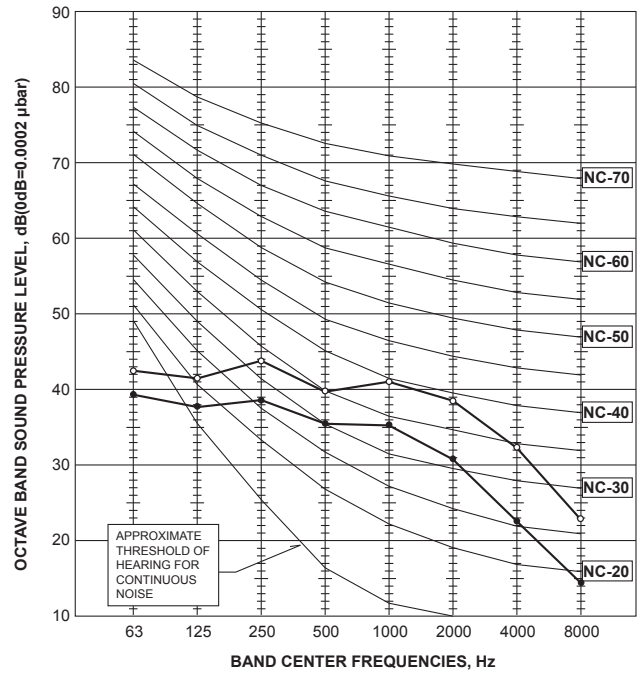
**PKA-A12HA7
PKA-A18HA7**

NOTCH	SPL(dB)	LINE
High	43	○—○
Low	36	●—●



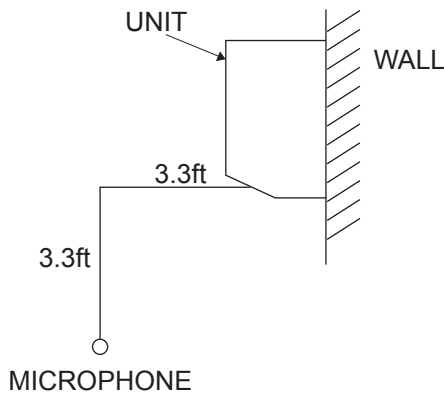
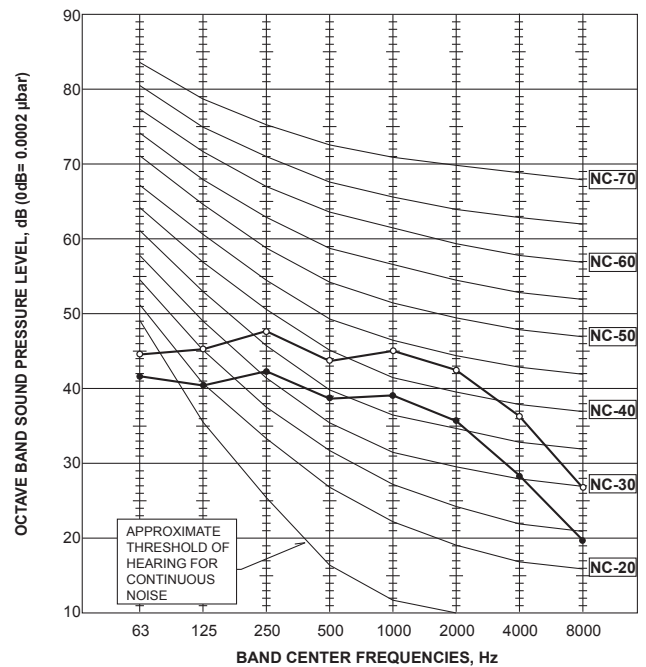
**PKA-A24KA7
PKA-A30KA7**

NOTCH	SPL(dB)	LINE
High	45	○—○
Low	39	●—●



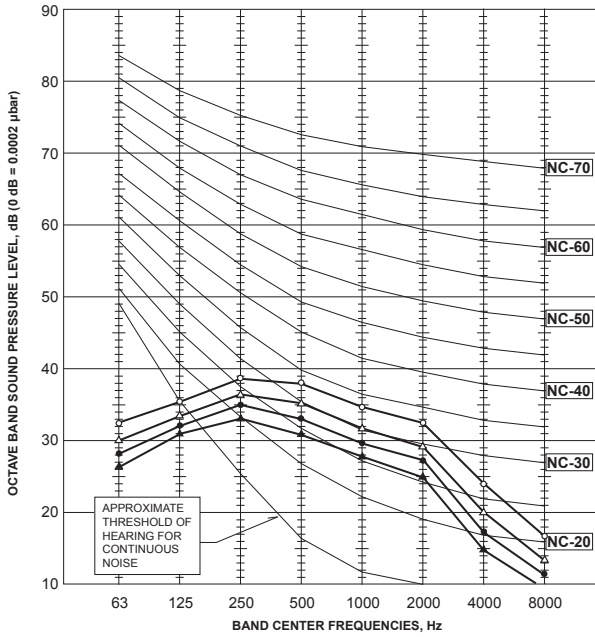
PKA-A36KA7

NOTCH	SPL(dB)	LINE
High	49	○—○
Low	43	●—●



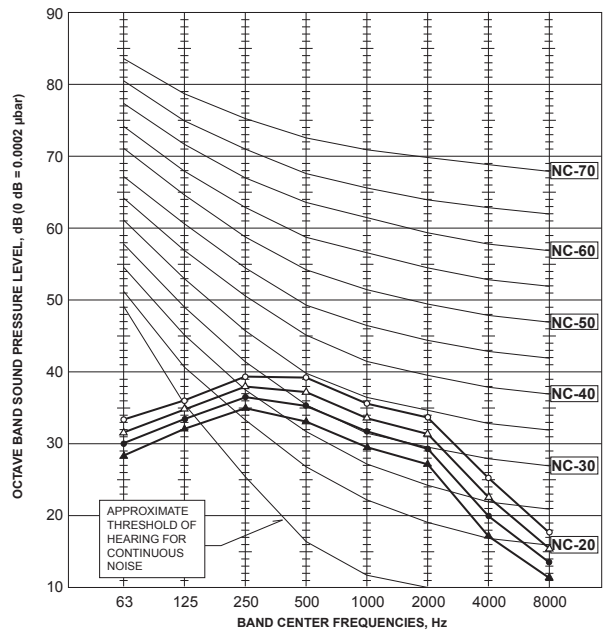
PCA-A24KA7

NOTCH	SPL(dB)	LINE
High	40	○—○
Medium1	37	△—△
Medium2	35	●—●
Low	33	▲—▲



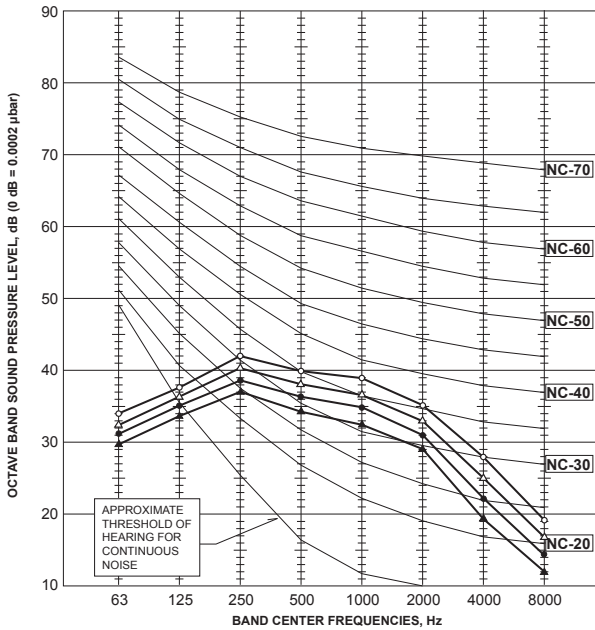
PCA-A30KA7

NOTCH	SPL(dB)	LINE
High	41	○—○
Medium1	39	△—△
Medium2	37	●—●
Low	35	▲—▲



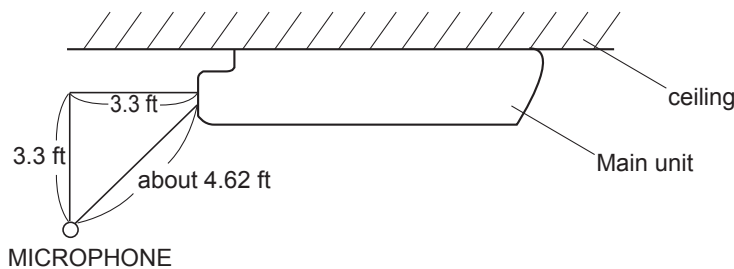
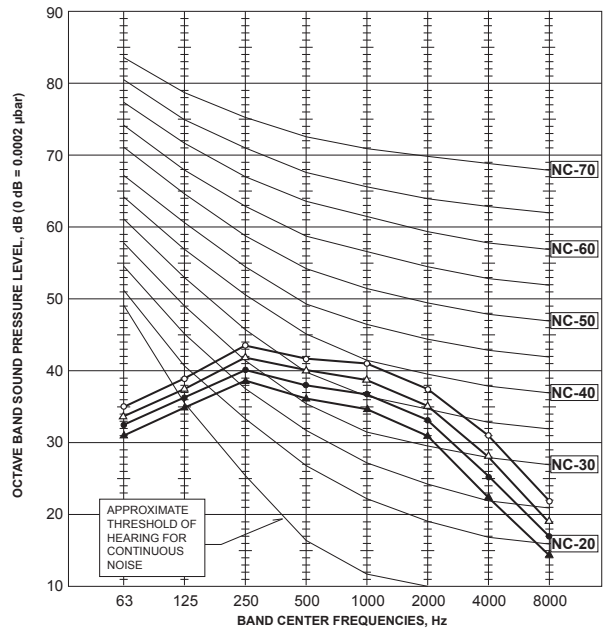
PCA-A36KA7

NOTCH	SPL(dB)	LINE
High	43	○—○
Medium1	41	△—△
Medium2	39	●—●
Low	37	▲—▲

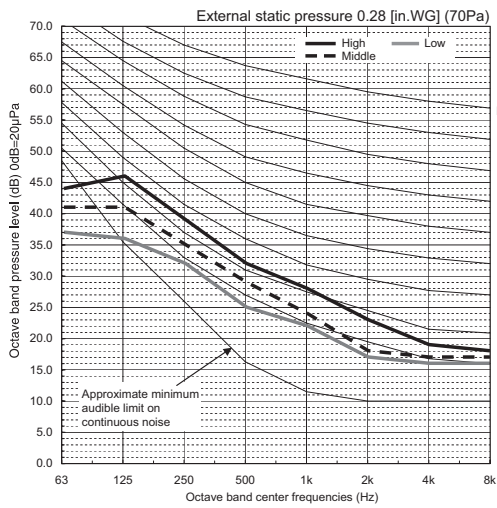
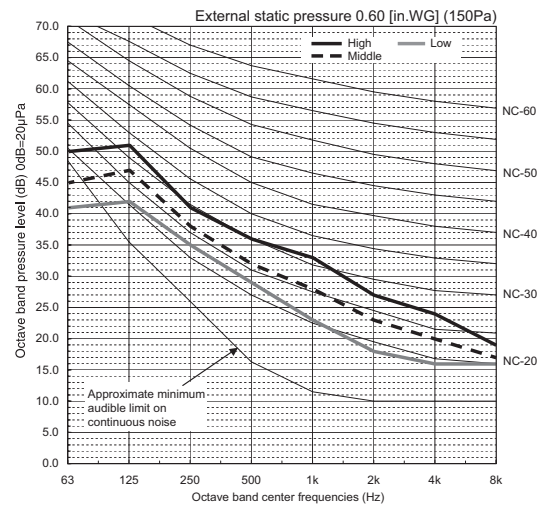
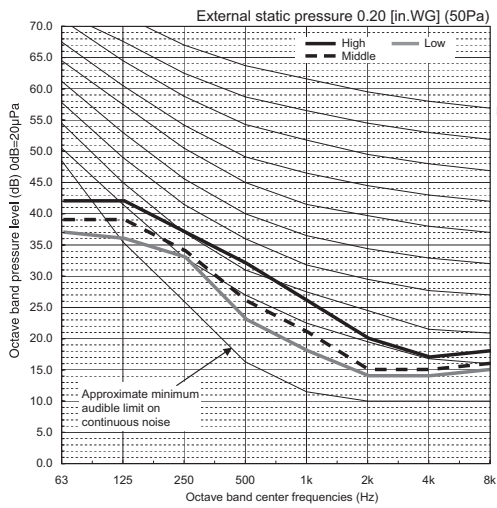
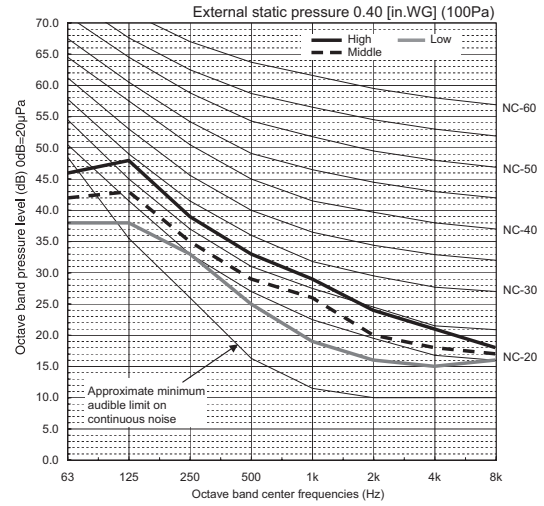
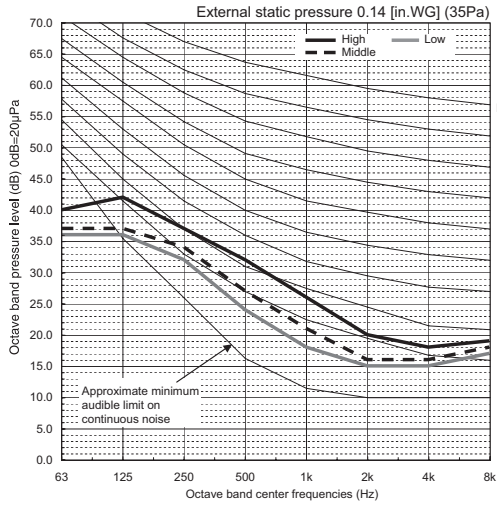


PCA-A42KA7

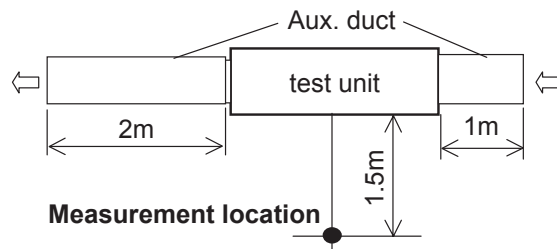
NOTCH	SPL(dB)	LINE
High	45	○—○
Medium1	43	△—△
Medium2	41	●—●
Low	39	▲—▲



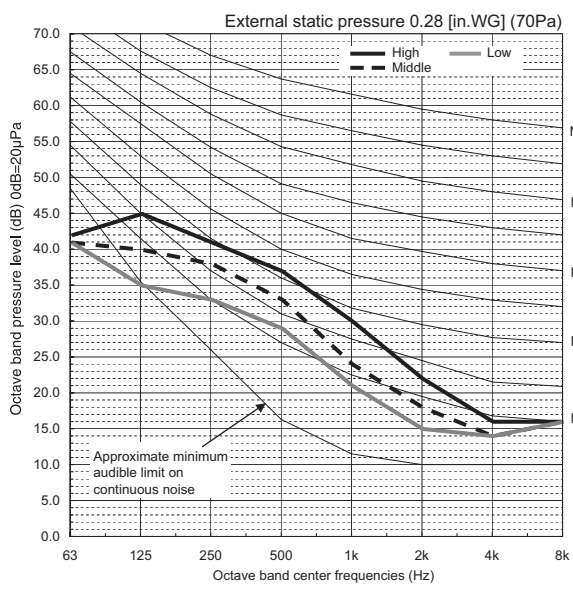
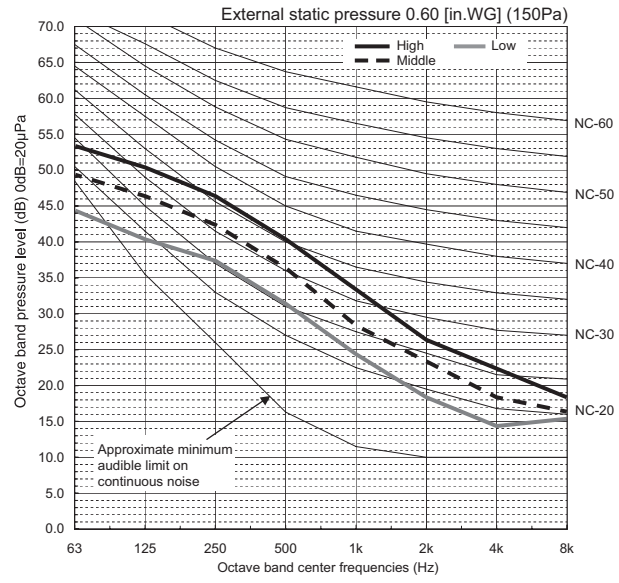
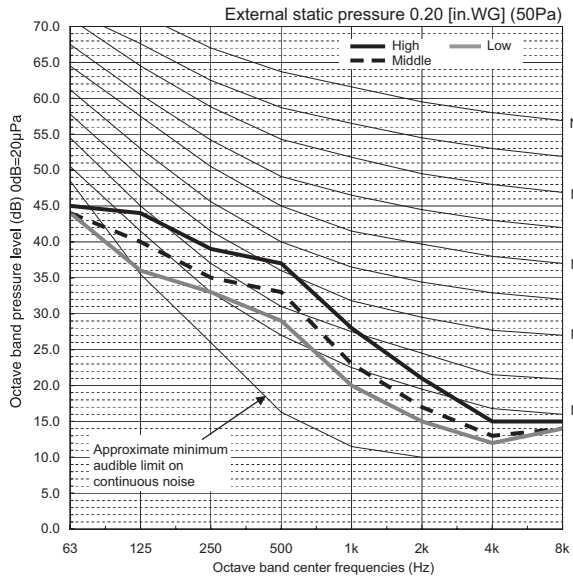
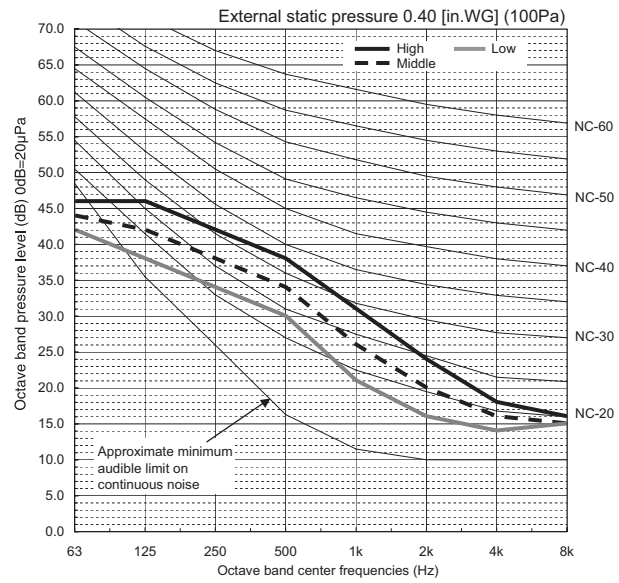
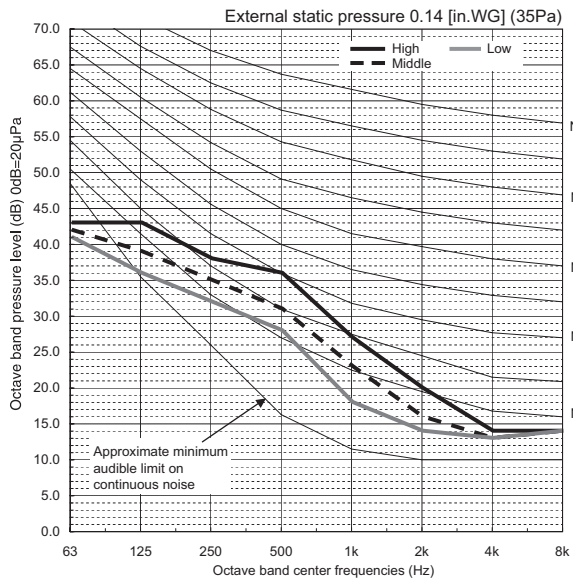
PEAD-A12AA7



NOTE: The sound level is measured in an anechoic room where echoes are few, when compressor stops. The sound may be bigger than displayed level under actual installation condition by surrounding echoes. The sound level can be higher by about 2 dB than the displayed level during cooling and heating operation.

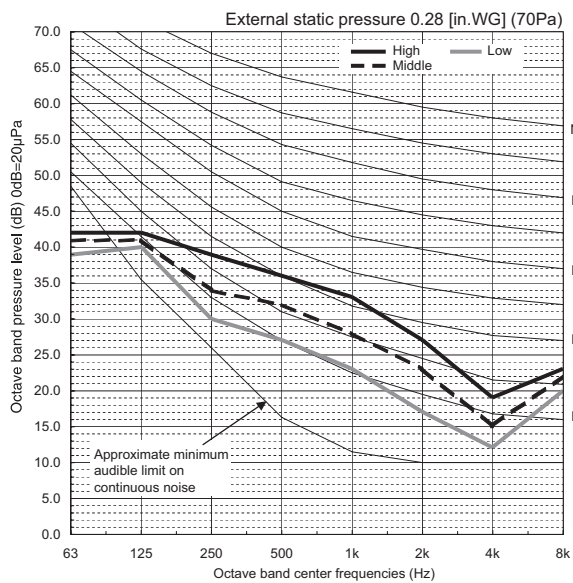
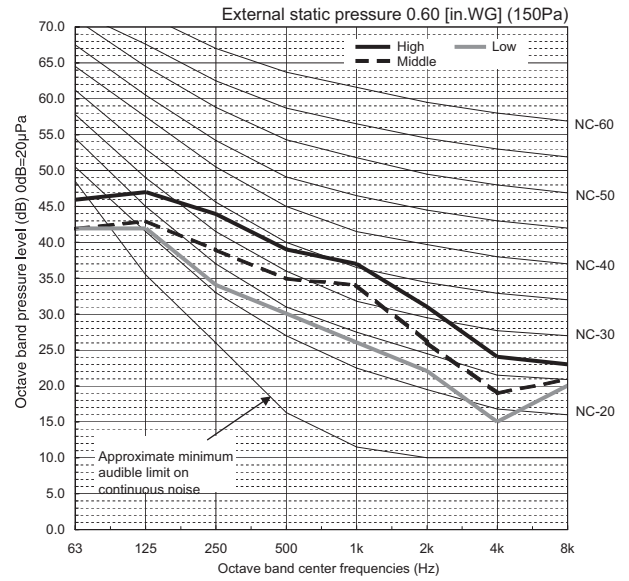
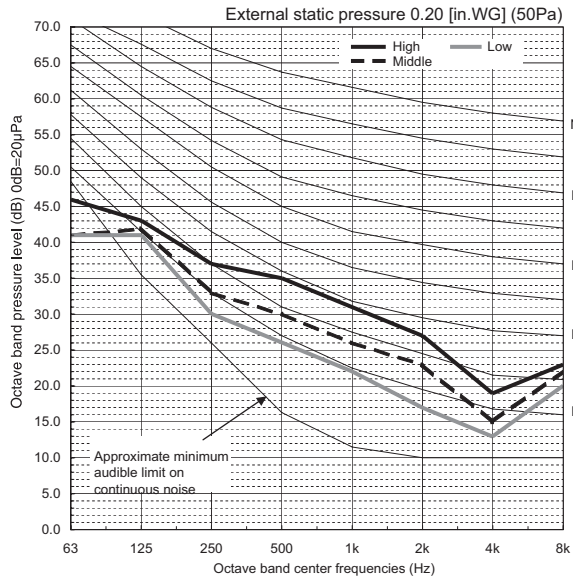
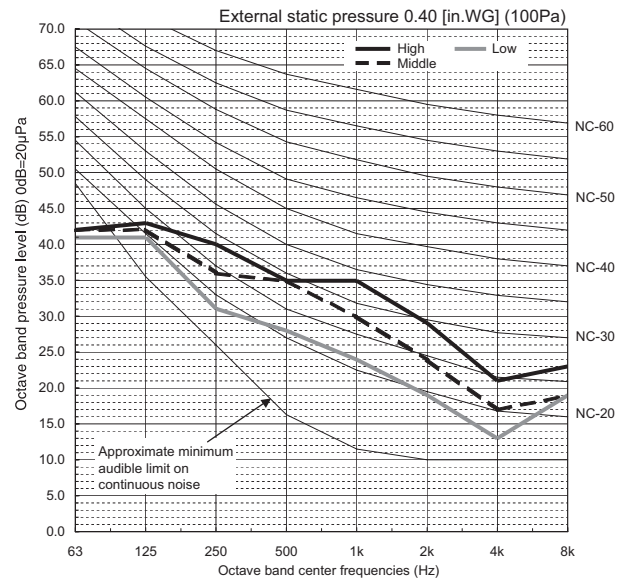
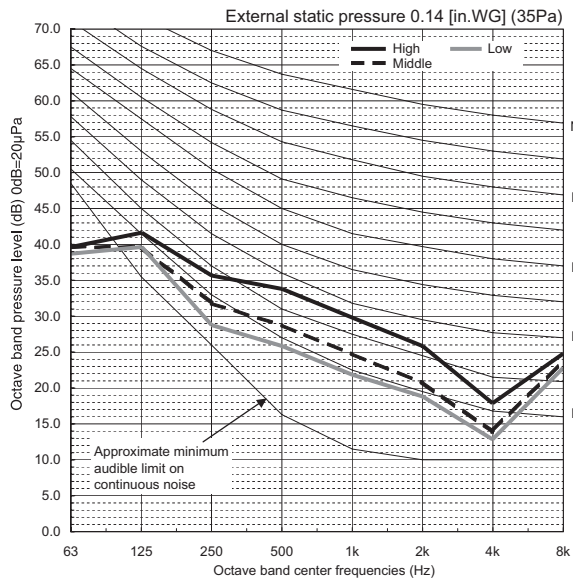


PEAD-A18AA7



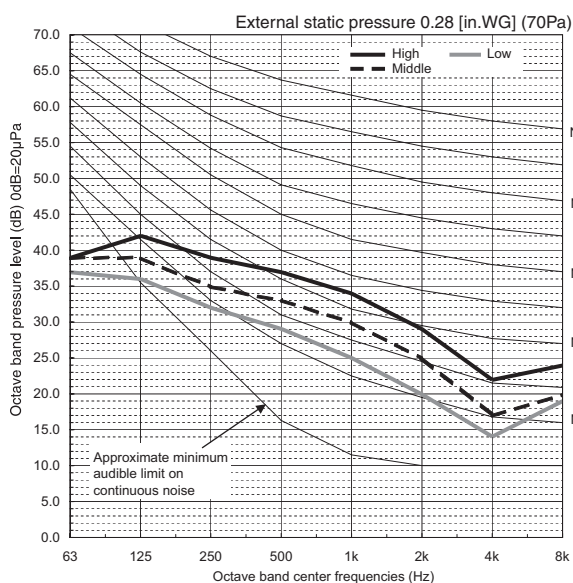
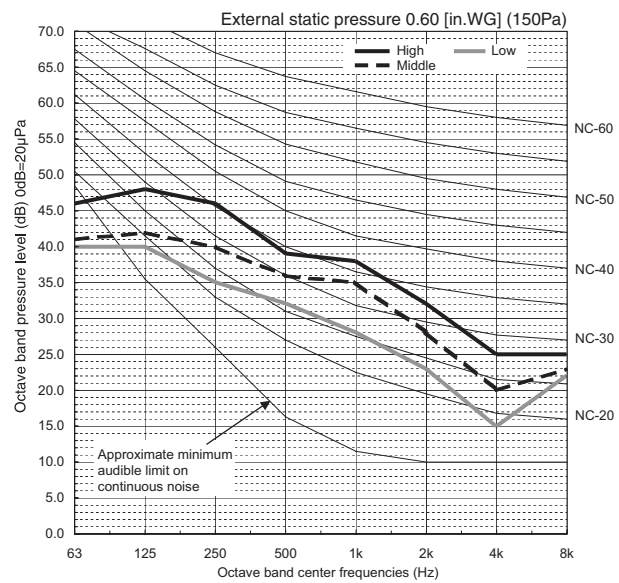
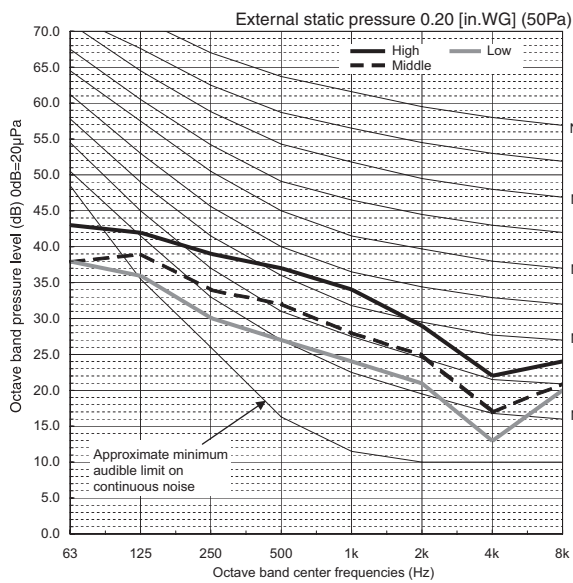
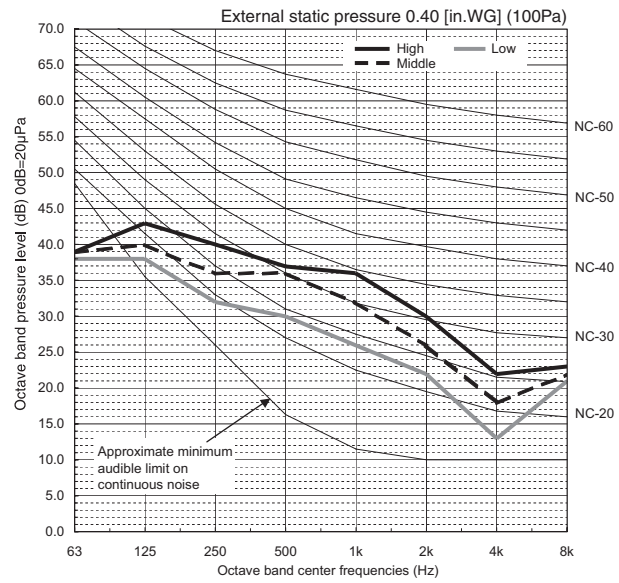
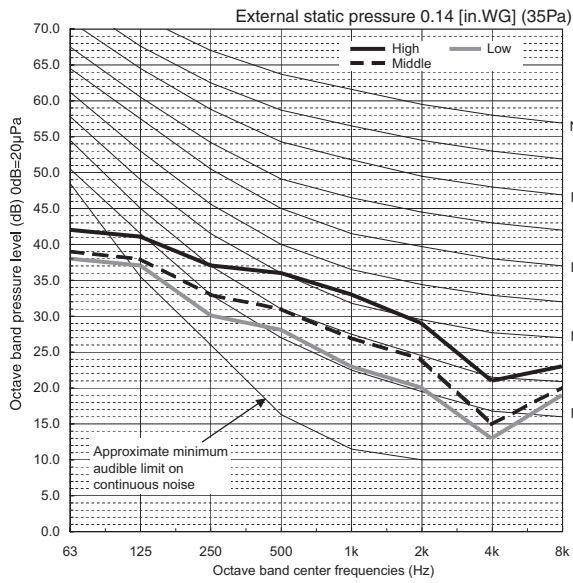
NOTE: The sound level is measured in an anechoic room where echoes are few, when compressor stops. The sound may be bigger than displayed level under actual installation condition by surrounding echoes. The sound level can be higher by about 2 dB than the displayed level during cooling and heating operation.

PEAD-A24AA7



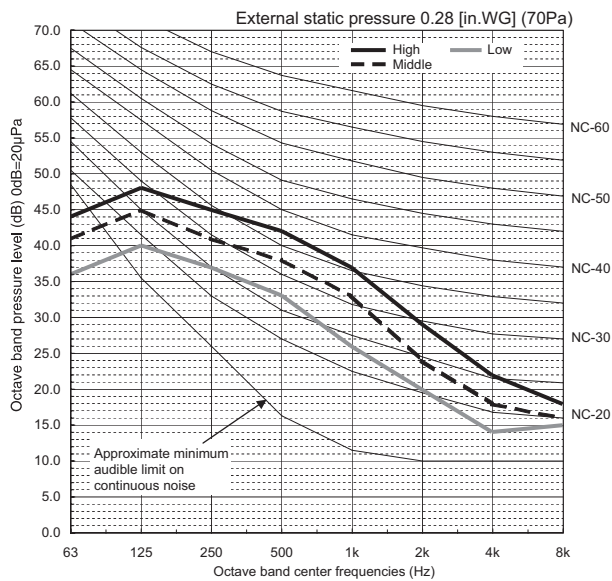
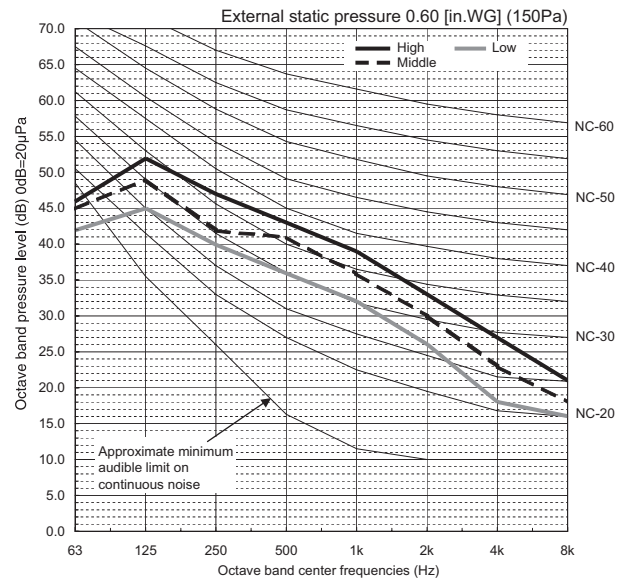
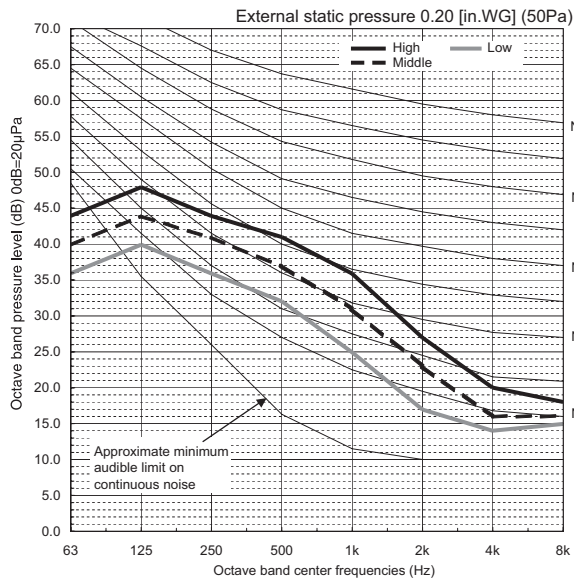
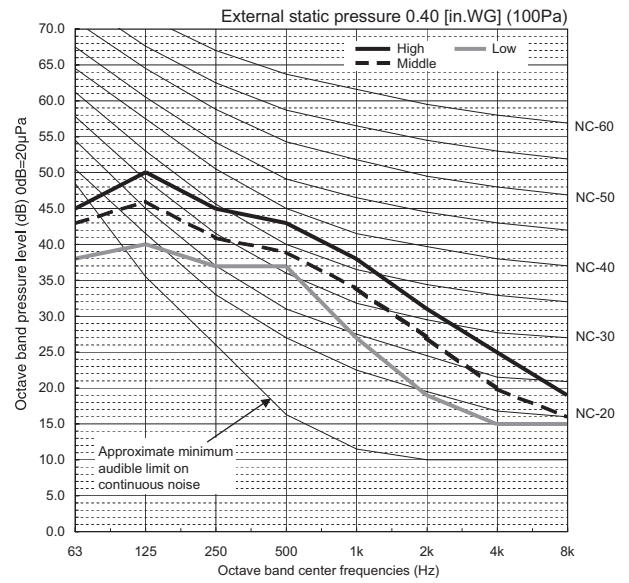
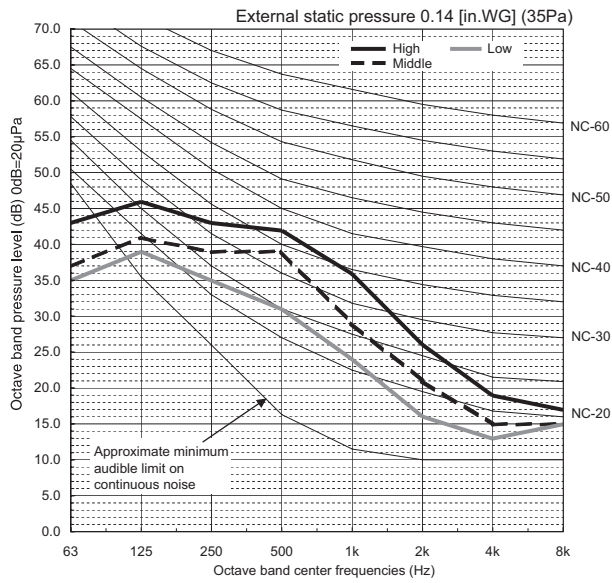
NOTE: The sound level is measured in an anechoic room where echoes are few, when compressor stops. The sound may be bigger than displayed level under actual installation condition by surrounding echoes. The sound level can be higher by about 2 dB than the displayed level during cooling and heating operation.

PEAD-A30AA7



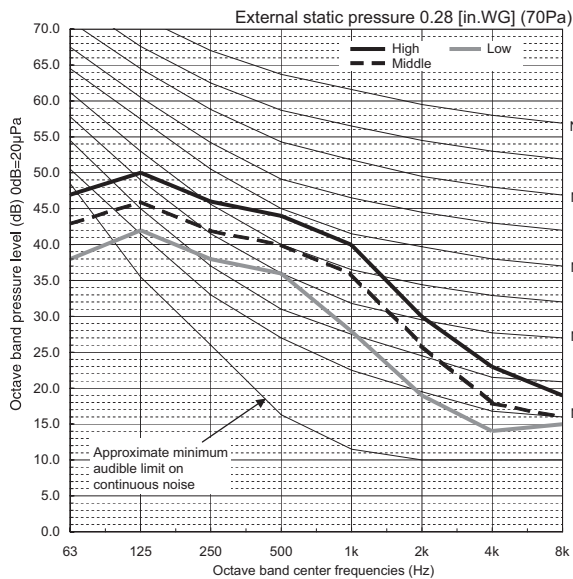
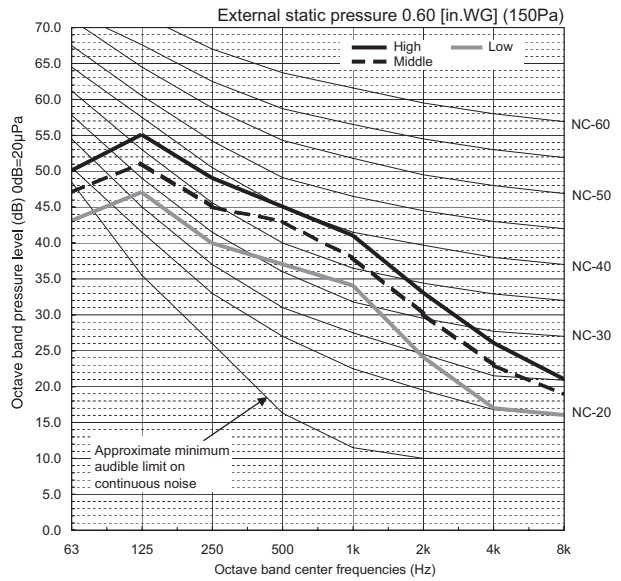
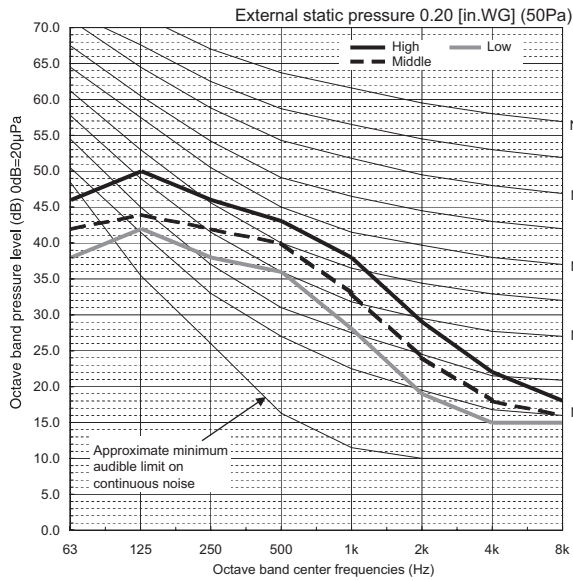
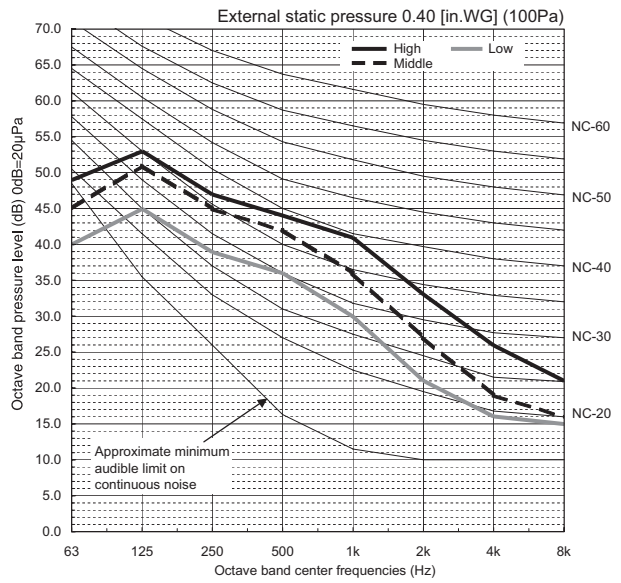
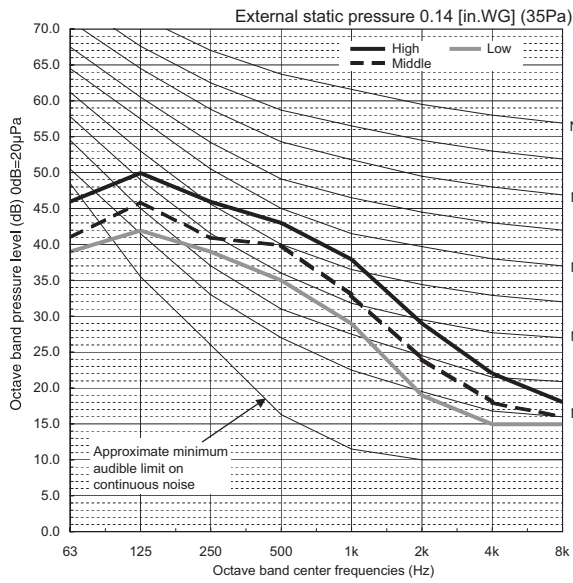
NOTE: The sound level is measured in an anechoic room where echoes are few, when compressor stops. The sound may be bigger than displayed level under actual installation condition by surrounding echoes. The sound level can be higher by about 2 dB than the displayed level during cooling and heating operation.

PEAD-A36AA7



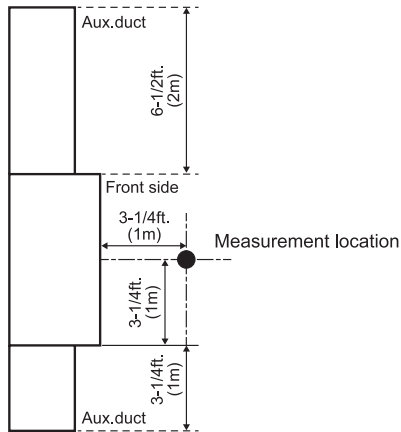
NOTE: The sound level is measured in an anechoic room where echoes are few, when compressor stops. The sound may be bigger than displayed level under actual installation condition by surrounding echoes. The sound level can be higher by about 2 dB than the displayed level during cooling and heating operation.

PEAD-A42AA7



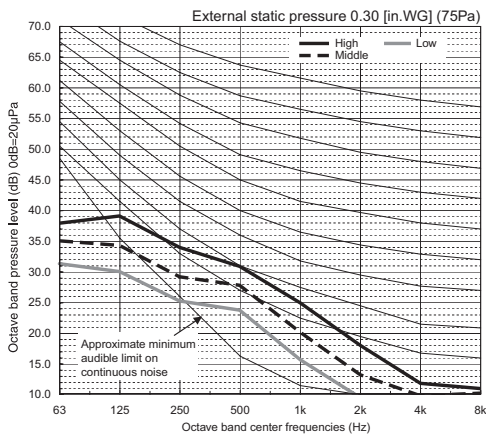
NOTE: The sound level is measured in an anechoic room where echoes are few, when compressor stops. The sound may be bigger than displayed level under actual installation condition by surrounding echoes. The sound level can be higher by about 2 dB than the displayed level during cooling and heating operation.

Sound pressure level Multi-Position

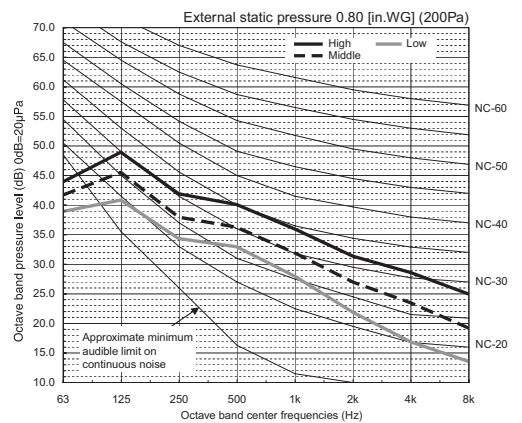
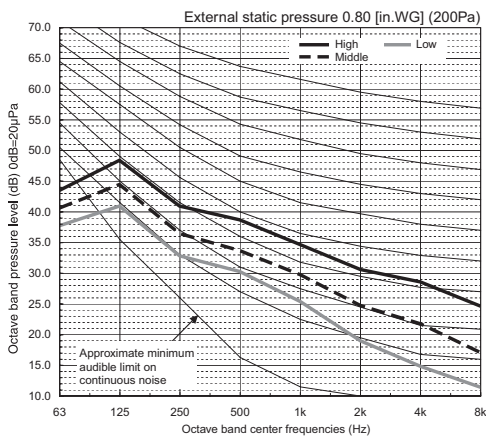
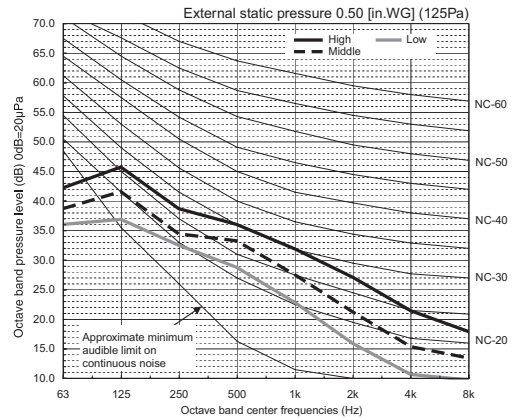
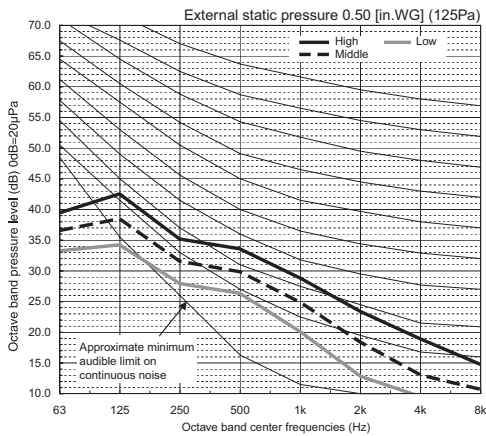
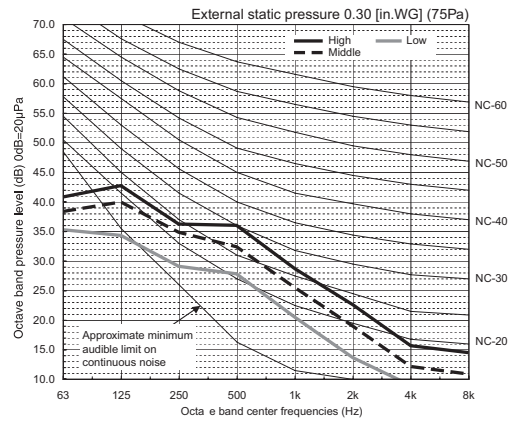


NC curves

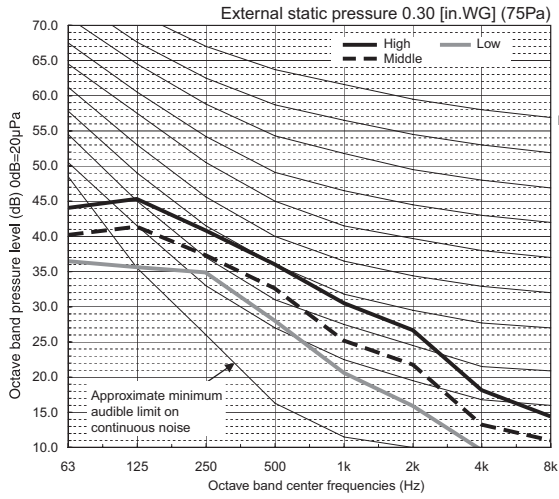
PVA-A12AA7



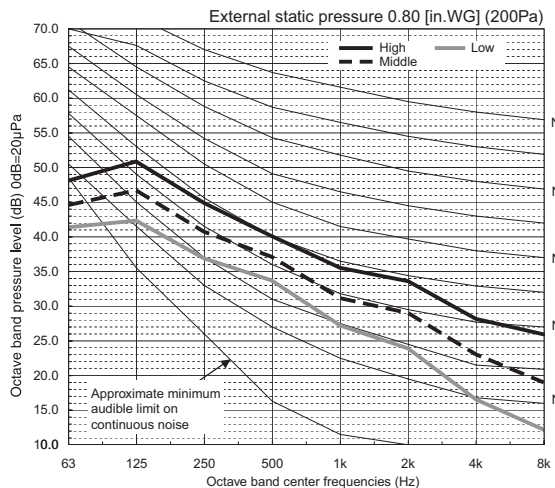
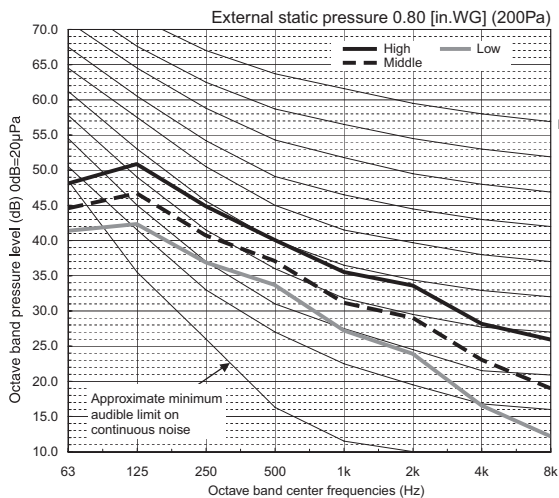
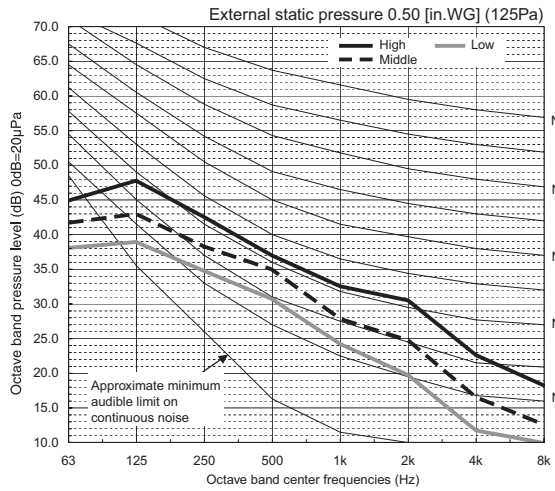
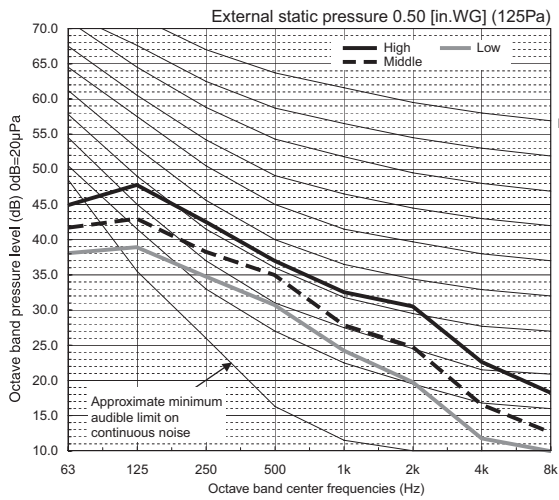
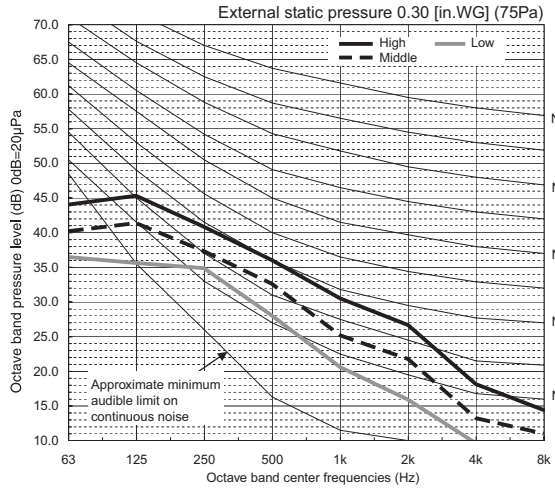
PVA-A18AA7



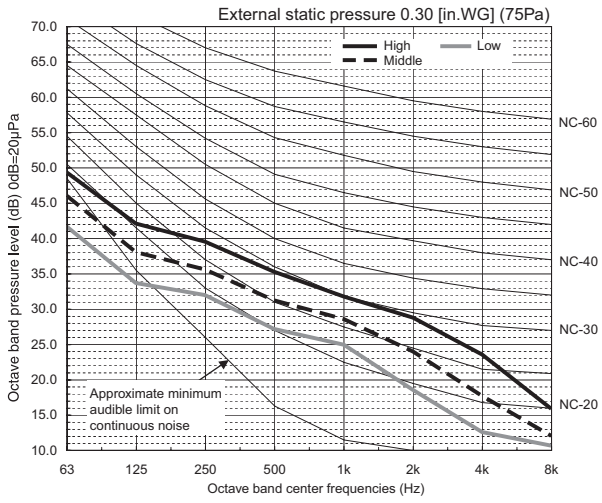
PVA-A24AA7



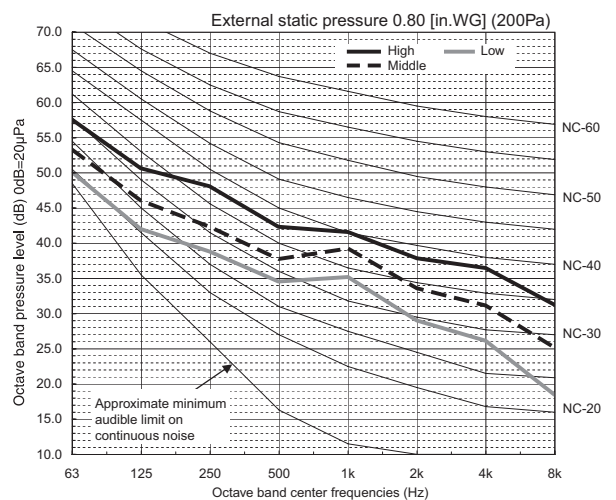
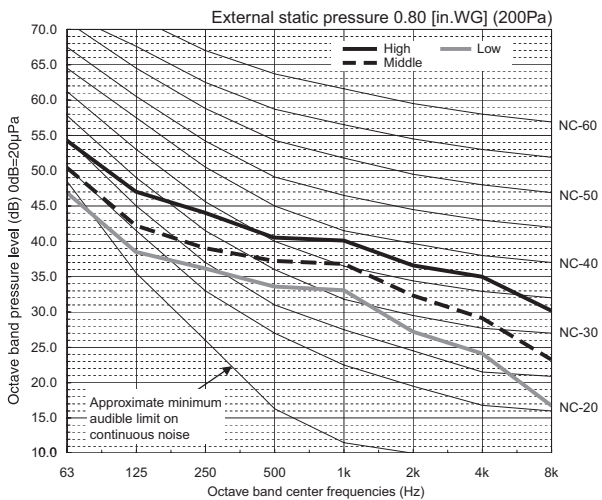
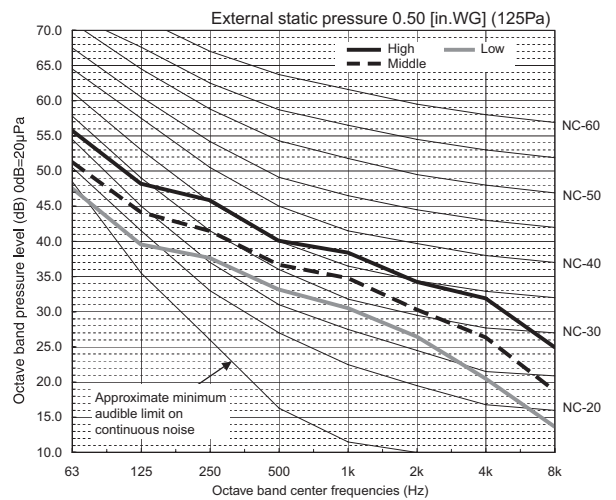
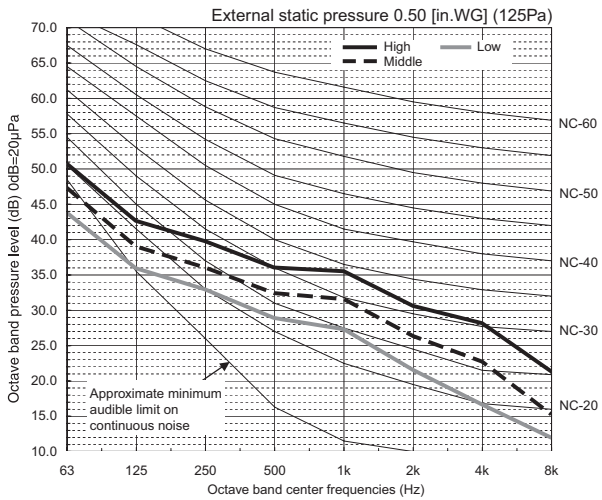
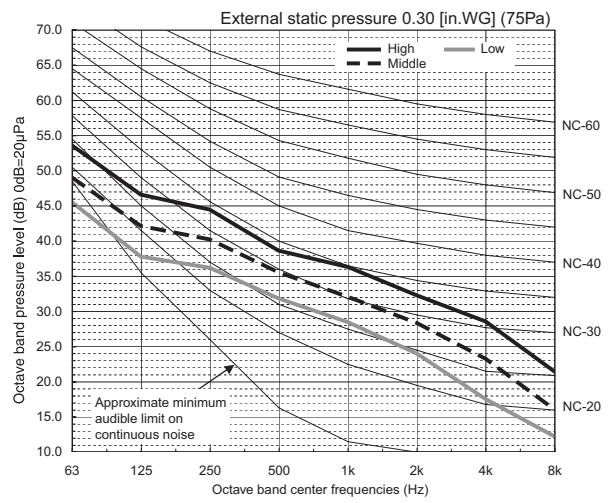
PVA-A30AA7



PVA-A36AA7



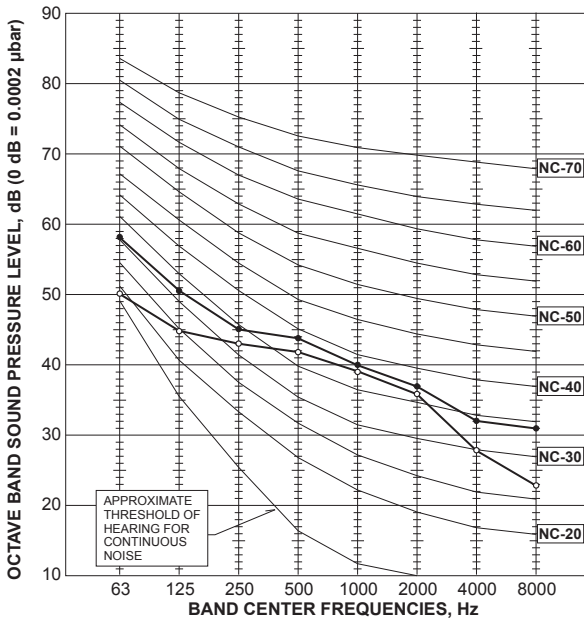
PVA-A42AA7



11-2. OUTDOOR UNIT

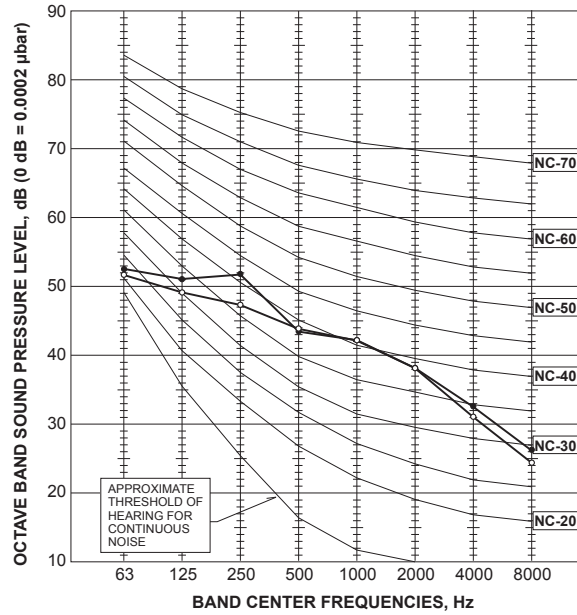
PUZ-A12/18NKA7(-BS)
PUY-A12/18NKA7(-BS)

MODE	SPL(dB)	LINE
COOLING	46	○—○
HEATING	47	●—●



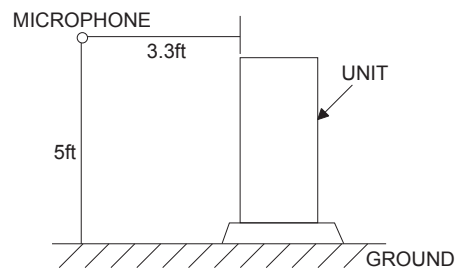
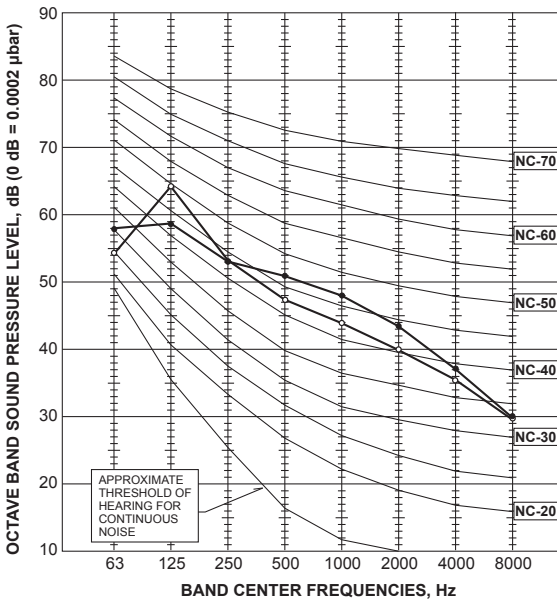
PUZ-A24/30NHA7(-BS)
PUY-A24/30NHA7(-BS)

MODE	SPL(dB)	LINE
COOLING	47	○—○
HEATING	48	●—●



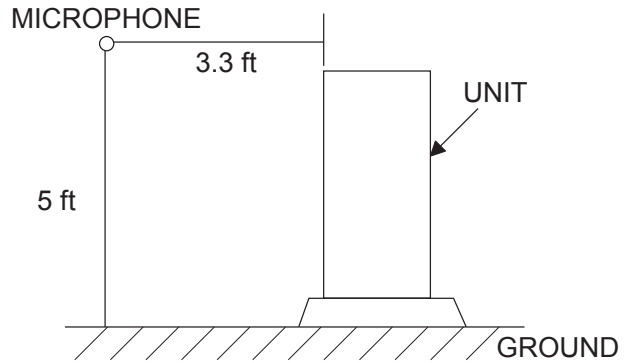
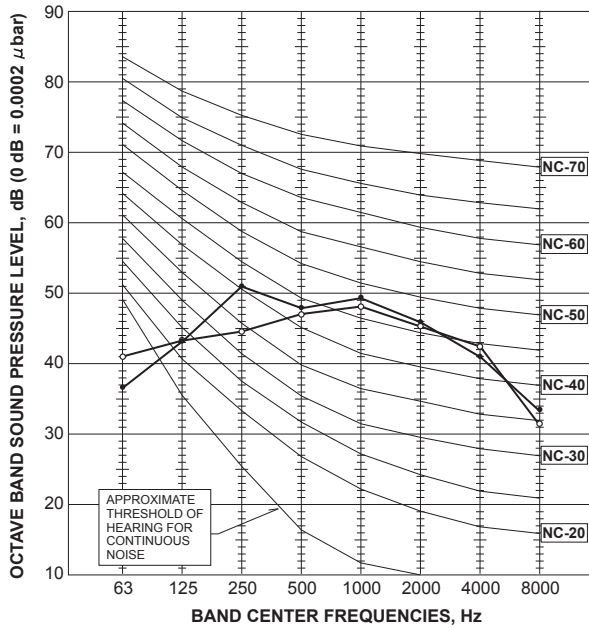
PUZ-A36/42NKA7(-BS)
PUY-A36/42NKA7(-BS)

MODE	SPL(dB)	LINE
COOLING	52	○—○
HEATING	53	●—●



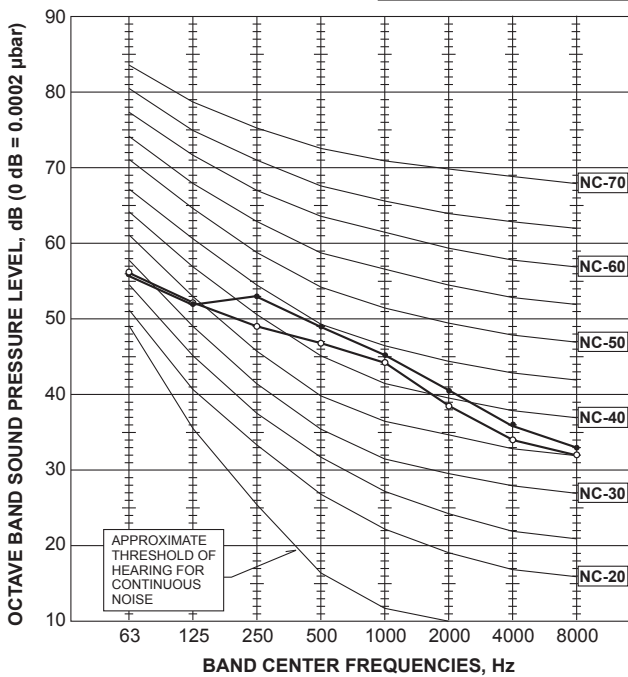
**PUZ-HA30NHA5
PUZ-HA36NHA5**

MODE	SPL(dB)	LINE
COOLING	52	○—○
HEATING	53	●—●



PUZ-HA42NKA

MODE	SPL(dB)	LINE
COOLING	49	○—○
HEATING	51	●—●



12 | OPTIONAL PARTS

Optional Parts List for Indoor [P-series]

Series Name		Wall-mounted					Ceiling-suspended			
		PKA					PCA-			
		A12HA7	A18HA7	A24KA7	A30KA7	A36KA7	A24KA7	A30KA7	A36KA7	A42KA7
High-efficiency Filter Element	PAC-SH59KF-E									
	PAC-SH89KF-E						•	•		
	PAC-SH90KF-E							•	•	
Filter Box	PAC-KE92TB-E									
	PAC-KE93TB-E									
	PAC-KE94TB-E									
Decoration panel	PLP-40EAU									
Decoration panel with 3D I-see sensor	PLP-40EAEU									
Air outlet shutter Plate	PAC-SJ37SP-E									
Multi-functional Casement	PAC-SJ41TM-E									
Flange for fresh-air Intake	PAC-SH65OF-E									
Space Panel	PAC-SJ38AS-E									
Drain Pump	PAC-SH94DM-E			•	•	•				
	PAC-SH75DM-E	•	•							
	PAC-SH84DM-E						•	•	•	•
Wi-Fi adapter	PAC-USWHS002-WF-1	•	•	•	•	•	•	•	•	•
T-STAT Interface	PAC-US444CN-1	•	•	•	•	•	•	•	•	•
Wired remote controller	PAR-32MAA	•	•	•	•	•	•	•	•	•
Signal Receiver	PAR-SA9CA-E									
	PAR-SR3LA-E									
Simple remote controller	PAC-YT53CRAU	•	•	•	•	•	•	•	•	•
Wireless Remote Controller	PAR-FL32MA-E	•	•	•	•	•	•	•	•	•
Wireless Signal Receiver	PAR-FA32MA-E									
Controller Kit (Sender & Receiver)	PAR-SL93B-E						•	•	•	•
Controller Kit with i-see Sensor	PAR-SA92MW-E						•	•	•	•
Remote Sensor (extensible)	PAC-SE41TS-E	•	•	•	•	•				
Connector Cable for Remote Display	PAC-SA88HA-EP									
	PAC-725AD-E(10pcs)									
Connector for CN32 (remote on/off)	PAC-SE55RA-E	•	•	•	•	•				
Connector for CN 24 (Back up heating)	PAC-SE56RA-E									
Connector for CN 30 (LLC)	PAC-SE57RA-E									
Remote Operation Adapter	PAC-SF40RM-E *1									
i-see Sensor	PAC-SH91MK-E						•	•	•	•
External fan / Heater control relay adapter	CN24RELAY-KIT-CM3									

*1 Unable to use with wireless remote controller


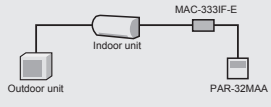
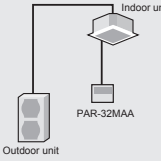

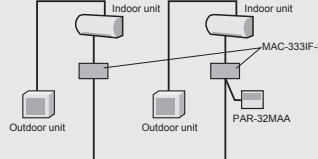
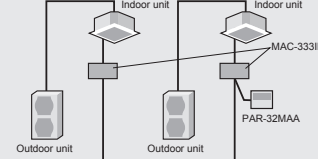
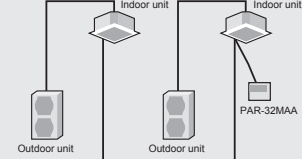

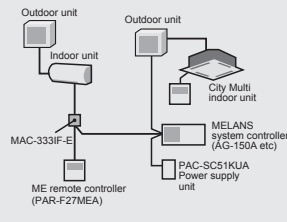
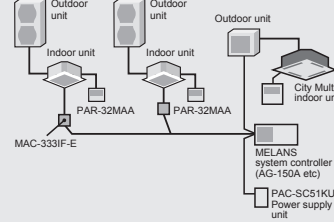
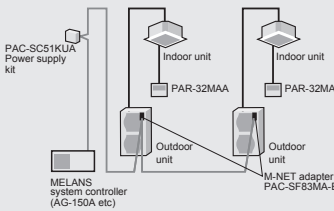
*2 Unable to use with the electric heat time delay

Optional Parts List for Outdoor [P-series]

Series Name			Cooling Only							
			PUY-A							
			12NKA7(-BS)	18NKA7(-BS)	24NHA7(-BS)	30NHA7(-BS)	36NKA7(-BS)	42NKA7(-BS)		
Distribution pipe	For Twin (50:50)	MSDD-50TR-E								
Air Outlet Guide		PAC-SJ07SG-E	•	•						
		PAC-SG59SG-E			•	•				
		PAC-SH96SG-E					•		•	
Air Protection Guide		PAC-SJ06AG-E	•	•						
		PAC-SH63AG-E			•	•				
		PAC-SH95AG-E					•		•	
Drain socket		PAC-SJ08DS-E	•	•						
		PAC-SG61DS-E			•	•	•		•	
Centralized Drain Pan		PAC-SG63DP-E	•	•						
		PAC-SG64DP-E			•	•				
		PAC-SH97DP-E					•		•	
M-NET Converter		PAC-SJ19MA-E	•	•						
		PAC-SF83MA-E			•	•	•		•	
Control/Service Tool		PAC-SK52ST	•	•	•	•	•		•	
Base heater		PAC-SJ20BH-E								

13 | SYSTEM CONTROL

13-1.MAJOR SYSTEM CONTROL

		System Examples		
Indoor Unit	M Series Indoor Unit	S Series	P Series Indoor Unit	
Outdoor Unit	M Series and MXZ Series Outdoor	S Series and MXZ Series Outdoor		P Series Outdoor
 <p>PAR-32MAA Control</p>				
Details	<ul style="list-style-type: none"> Wired remote controller can be connected to indoor unit 	Standard equipment (for indoor units compatible with wired remote controllers)		
Major Optional Parts Required	<ul style="list-style-type: none"> MAC-333IF-E (Interface) PAR-32MAA (Wired remote controller) 	<ul style="list-style-type: none"> PAR-32MAA (Wired remote controller) 		
 <p>System Group Control</p>				
Details	<ul style="list-style-type: none"> One remote controller can control plural air conditioners with the same settings simultaneously. One remote controller can control up to 16 refrigerant systems. (When connected to a MXZ unit, MAC-333IF-E is counted as one system.) Up to two remote controller can be connected. 			
Major Optional Parts Required	<ul style="list-style-type: none"> MAC-333IF-E (Interface) PAR-32MAA (Wired remote controller) 		<ul style="list-style-type: none"> PAR-32MAA (Wired remote controller) 	
 <p>M-NET Connections</p>				
Details	<ul style="list-style-type: none"> Group of air conditioners can be controlled by MELANS system controller (M-NET). <p>Note: When connecting to M-NET, the reduction control for the power failure automatic recovery does not operate and it will take 3 minutes to restart.</p>			
Major Optional Parts Required	<ul style="list-style-type: none"> MAC-333IF-E (M-NET Interface) MELANS System controller PAC-SC51KUA (power supply unit) 		<ul style="list-style-type: none"> PAC-SF83MA-E (M-NET converter) MELANS System controller PAC-SC51KUA (power supply unit) 	

13-2.OTHERS

For M Series Indoor Units (New A-control Models Only)

	System Examples	Connection Details	Control Details	Major Optional Parts Required
<p>1 Remote On/Off Operation</p> <ul style="list-style-type: none"> Air conditioner can be started/stopped remotely. (1) and (2) can be used in combination) 		<p>Connect the interface to the air conditioner. Then connect the locally purchased remote controller to the terminal in the interface.</p>	<p>On/Off operation is possible from a remote location.</p>	<ul style="list-style-type: none"> MAC-333IF-E (Interface) Parts for circuit such as relay box, lead wire, etc. (to be purchased locally)
<p>2 Remote Display of Operation Status</p> <ul style="list-style-type: none"> The On/Off status of air conditioners can be confirmed remotely. (1) and (2) can be used in combination) 		<p>Connect the interface to the air conditioner. Then connect the locally purchased remote controller to the terminal in the interface.</p>	<p>The operation status (On/Off) or error signals can be monitored from a remote location.</p>	<ul style="list-style-type: none"> MAC-333IF-E (Interface) Parts for circuit to be purchased locally (DC power source needed) External power source (12V DC) is required when using MAC-333IF-E.

For P Series and S Series Indoor Units

	System Examples		Details	Major Optional Parts Required
	Wired remote controller	Wireless remote controller		
<p>A 2-remote Controller Control</p> <p>With two remote controllers, control can be performed locally and remotely from two locations.</p>	<p>(Example of 1 : 1 system)</p>	<p>(Example of Simultaneous Twin)</p>	<ul style="list-style-type: none"> Up to two remote controllers can be connected to one group. Both wired and wireless remote controllers can be used in combination. 	<ul style="list-style-type: none"> Wired Remote Controller PAR-32MAA Wireless Remote Controller PAR-FL32MA Wireless Remote Controller Kit for PCA PAR-SL93B-E
<p>B Operation Control by Level Signal</p> <p>Air conditioner can be started/stopped remotely. In addition, On/Off operation by local remote controller can be prohibited/permited.</p>	<p>(Example of 1 : 1 system x 2)</p>	<p>(Example of 1 : 1 system x 2)</p>	<ul style="list-style-type: none"> Operation other than On/Off (e.g., adjustment of temperature, fan speed, and airflow) can be performed even when remote controller operation is prohibited. Timer control is possible with an external timer. 	<ul style="list-style-type: none"> Adapter for remote On/Off PAC-SE55RA-E Relay box (to be purchased locally) Remote control panel (to be purchased locally)
<p>C Operation Control by Pulse Signal</p>	<p>(Example of 1 : 1 system x 2)</p>	<p>(Example of 1 : 1 system x 2)</p>	<ul style="list-style-type: none"> The pulse signal can be turned On/Off. Operation/emergency signal can be received at a remote location. 	<ul style="list-style-type: none"> Connector cable for remote display PAC-SA88HA-E / PAC-725AD (10 pcs. x PAC-SA88HA-E) Relay box (to be purchased locally) Remote control panel (to be purchased locally)
<p>D Remote Display of Operating Status</p> <p>Operating status can be displayed at a remote location.</p>	<p>(Example of 1 : 1 system)</p>	<p>(Example of Simultaneous Twin)</p>	<ul style="list-style-type: none"> Operation/emergency signal can be received at a remote location (when channeled through the PAC-SF40RM-E → no-voltage signal, when channeled through the PAC-SA88HA-E → DC 12V signal). 	<ul style="list-style-type: none"> Remote display panel (to be purchased locally) Connector cable for remote display PAC-SA88HA-E / PAC-725AD (10 pcs. x PAC-SA88HA-E) Relay box (to be purchased locally) Remote operation adapter PAC-SF40RM-E *Unable to use with wireless remote controller
<p>E Timer Operation</p> <p>Allows On/Off operation with timer</p> <p>*For control by an external timer, refer to [B] Operation Control by Level Signal.</p>	<p>(Example of 1 : 1 system)</p>		<ul style="list-style-type: none"> Weekly Timer: On/Off and up to 8 pattern temperatures can be set for each calendar day. (Initial setting) On/Off Timer: On/Off can be set once each within 72 hr in intervals of 5-minute units. Auto-off Timer: Operation will be switched off after a certain time elapse. Set time can be changed from 30 min. to 4 hr. at 10 min. intervals. <p>*Simple Timer and Auto-off Timer cannot be used at the same time.</p>	<p>Standard functions of PAR-32MAA</p>

Optional Parts

Model Name

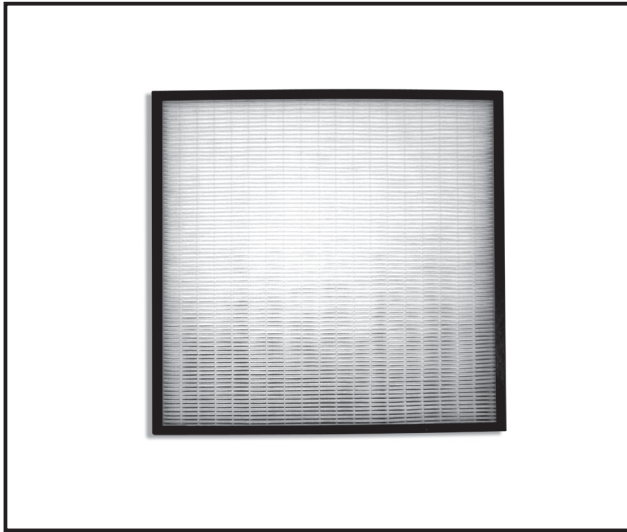
●Optional Parts for indoor unit

PAC-SH59KF-E	156
PAC-SH89/90KF-E	158
PAC-KE92/93/94TB-E	159
PLP-40EAU	163
PLP-40EAEU	167
PAC-SJ37SP-E	171
PAC-SJ41TM-E	173
PAC-SH65OF-E	178
PAC-SJ38AS-E	180
PAC-SH94DM-E	182
PAC-SH75DM-E	186
PAC-SH84DM-E	190
PAC-USWHS002-WF-1	196
PAC-US444CN-1	197
PAR-32MAA	205
PAR-SA9CA-E	224
PAR-SR3LA-E	228
PAC-YT53CRAU	231
PAR-FL32MA-E	253
PAR-FA32MA-E	254
PAC-SH91MK-E/PAR-SA92MW-E/ PAR-SL93B-E	260
PAC-SE41TS-E	267
PAC-SA88HA-E/ PAC-725AD-E(10pcs)	269
PAC-SE55RA-E	271
PAC-SF40RM-E	273
CN24RELAY-KIT-CM3	277

●Optional Parts for outdoor unit

MSDD-50TR-E	280
PAC-SJ07SG-E	282
PAC-SG59SG-E	285
PAC-SH96SG-E	287
PAC-SJ06AG-E	289
PAC-SH63AG-E	291
PAC-SH95AG-E	294
PAC-SJ08DS-E	296
PAC-SG61DS-E	297
PAC-SG63DP-E	299
PAC-SG64DP-E	301
PAC-SH97DP-E	303
PAC-SJ19MA-E	305
PAC-SF83MA-E	307
PAC-SK52ST	309
PAC-SJ20BH-E	310

Photo



Descriptions

High-efficiency Filter is part that remove dust in air.
 PAC-SH53TM-E (Multi-function Casement) is required for installation.

Applicable Models

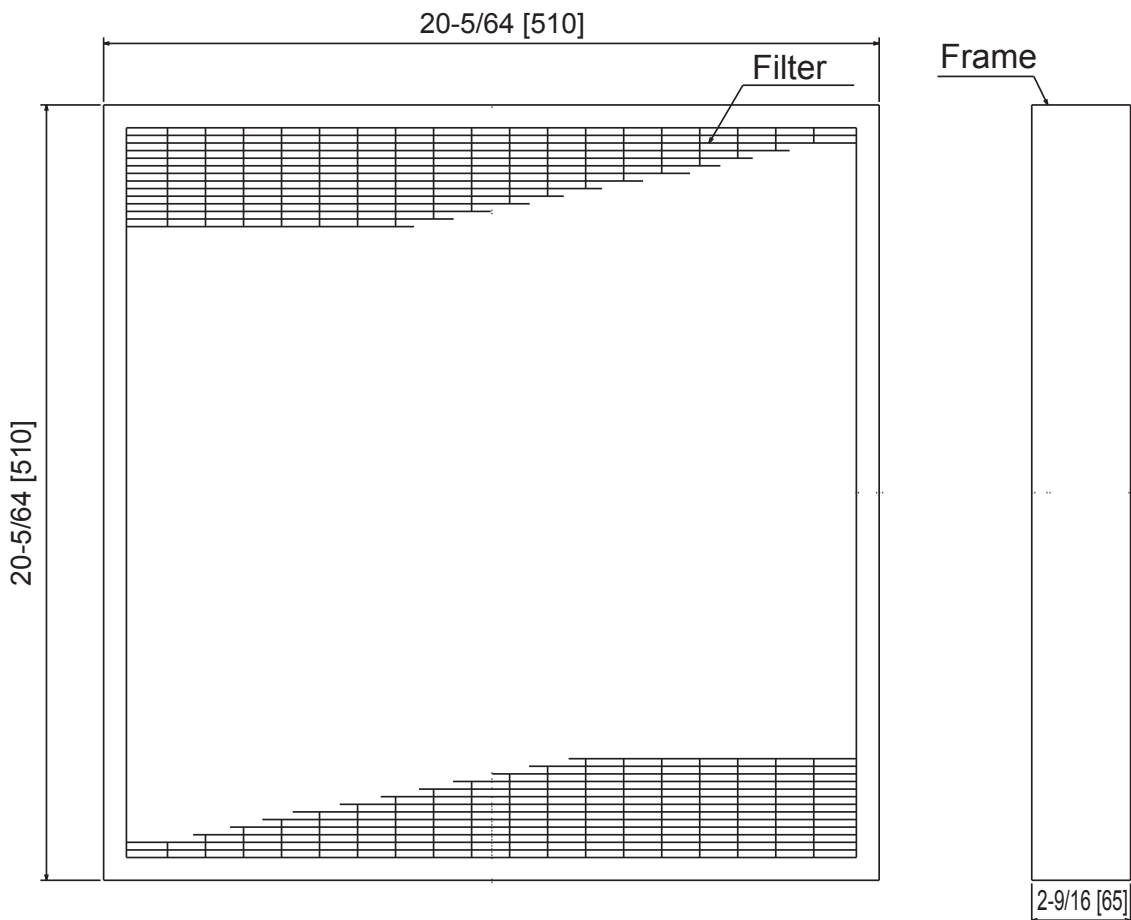
■ PLA-A12/18/24/30/36/42EA7

Specifications

Dust collection efficiency	Colorimetric method 65% (JIS 11 class)
Filter element material	Electrostatic polyolefin fiber
Life	Approx. 2,500 hours (at dust density 0.15 mg/m ³) *Reproduction not possible
Parts composition	This element x 1

Dimensions

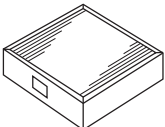
Unit: inch [mm]



How to Use / How to Install

1 Checking packed parts

(The unit is provided with this manual and following parts in the box.)

Part # Name	High-efficiency filter element
Q'ty	1
Shape	

NOTICE

In case that the High-efficiency filter element is installed, it should be installed on the Multi-functional casement which is option. Be sure to purchase the Multi-functional casement.

2 Installation of High-efficiency filter element (same procedure for replacement)

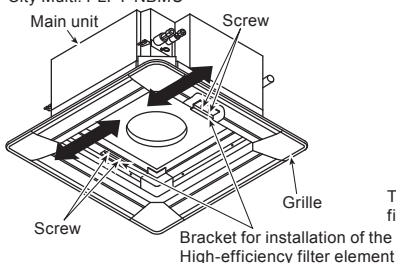
- Remove the intake grille of the grille in advance. (See the "installation instructions of grille" for details.)
- Loosen the 4 screws (B type)/8 screws (E type) of the 2 plates (B type)/4 plates (E type) for installation of the High-efficiency filter element of the Multi-functional casement as shown below. Then, slide them outward.
- Set the High-efficiency filter element in the Multi-functional casement, slide the plates inward, and then tighten the 4 screws (B type)/8 screws (E type) securely.

Note:

- When the main unit is used with "2 ways" air outlet, the High-efficiency filter element is not available.
- When the High-efficiency filter element is installed, the operation noise can be larger.
- When attaching the High-efficiency filter element, check the direction of air flow, referring to the stamp on the side.

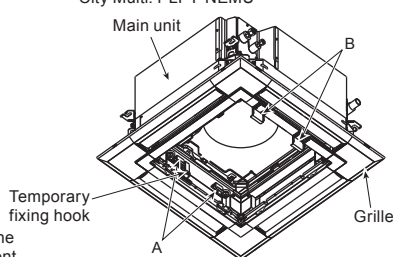
B type

Mr.Slim: PLA-BA
City Multi: PLFY-NBMU

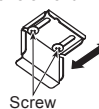


E type

Mr.Slim: PLA-EA
City Multi: PLFY-NEMU



Bracket for installation of the High-efficiency filter element "B"



Bracket for installation of the High-efficiency filter element "A"



3 Air flow volume setting when High-efficiency filter element is installed

Note:

- When the High-efficiency filter element is attached for the first time, the setting for increase in airflow rate must be performed.
- This setting is necessary only when the element is newly attached: No setting is required when the filter is replaced.

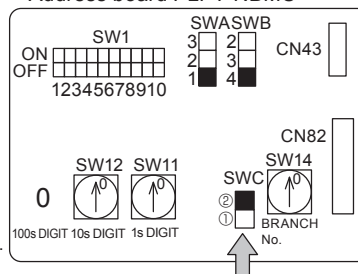


Set up for increasing air flow volume.

- If the set up is not done correctly, the air flow volume will decrease and it can lower the performance and cause dew drop.

- If the main unit to be combined is a slim air conditioner (combination with PLA):
 - Setting must be performed from the remote control: See the pages of "Function Selection" in the installation manual provided with the remote control. (Set optional assembly to "Yes".)
- If the main unit to be combined is a multi air conditioner (combination with PLFY):
 - For PLFY-NBMU: Set switch "SWC" on the address board in the main unit to the "option" side ("standard" at the factory).
 - For PLFY-NEMU: Set switch SW21-5 on the control board in the main unit to the "ON" side ("OFF" at the factory). For the location of switch SW21 on the control board, see the wiring diagram of the main unit.

<Address board PLFY-NBMU>



4 Replacement Period

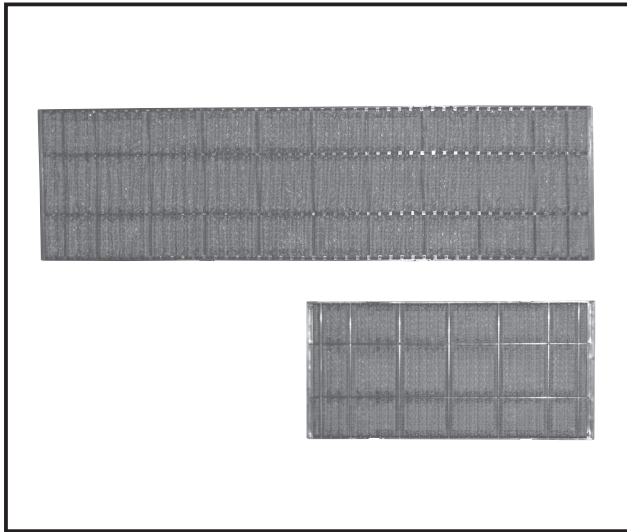
- The High-efficiency filter element is single-use (not recyclable).
- The reference for operation time is 2,500 hours (depending on the environment in which the air-conditioner is installed).



Do not wash with water.

- Washing with water will degrade the performance and could cause the element to become unusable.

Photo



Descriptions

- High-efficiency Filter is part that remove dust in air.
Dust collection efficiency: 70% (Weighing method)
- It is the best for the air-conditioning of the stove where a lot of going of the person in and out exists.

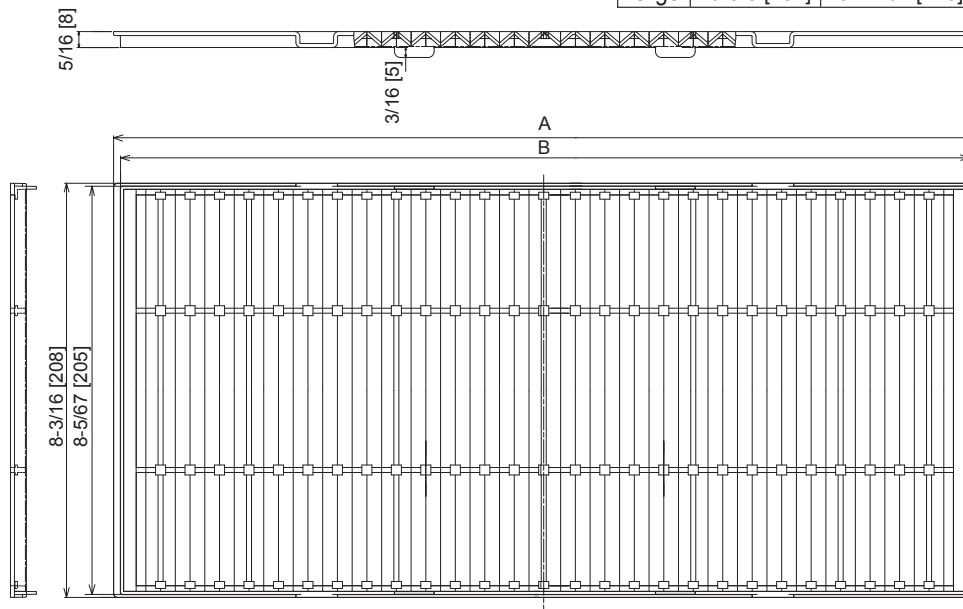
Applicable Models and Specifications

Model	PAC-SH89KF-E	PAC-SH90KF-E	
Dust collection efficiency	70% (weighing method)		
Filter material	PP fiber (antibacterial + mildew-proof), honeycomb weave (Identification: gray yarn woven)		
Maintenance	Approx. 2,500 hours (varies with operating conditions)		
Parts composition	Filter (large)	1	2
	Filter (small)	1	—
Applicable models	PCA-A24/30KA7	PCA-A36/42KA7	

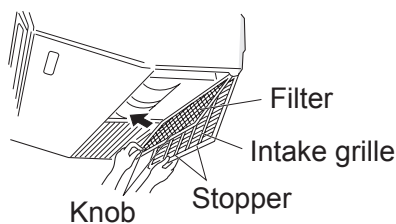
Dimensions

Unit: inch [mm]

	A	B
Small	17 [432]	16-47/64 [425]
Large	29-5/8 [752]	29-21/64 [745]



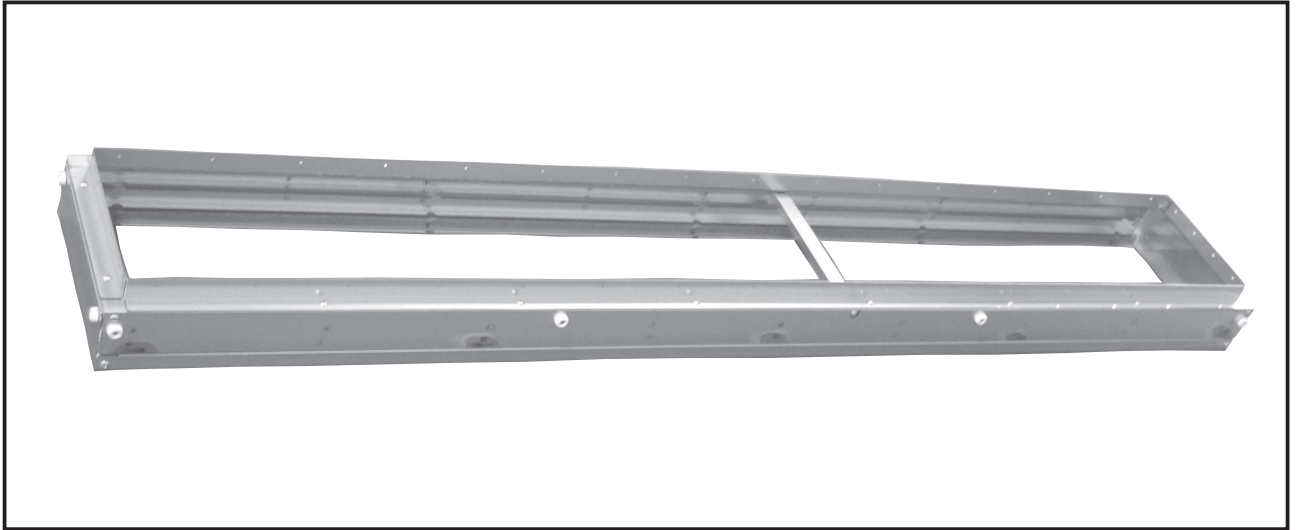
How to Use / How to Install



- 1 Open the intake grille.
- 2 Hold the knob on the filter then pull the filter up in the direction of an arrow. To replace the high efficiency filter, be sure to insert the filter far enough until it fits into the stopper.



Photo



Applicable Models

Model	PAC-KE92TB-E	PAC-KE93TB-E	PAC-KE94TB-E
Applicable models	PEAD-A12AA7 PEAD-A18AA7	PEAD-A24AA7 PEAD-A30AA7	PEAD-A36AA7 PEAD-A42AA7

How to Use / How to Install

1 Confirming the Supplied Parts

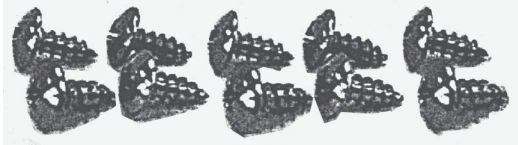
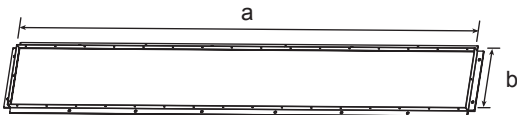
1. Model names and applicable models

Unit : inch [mm]

Model name	Applicable types	Applicable filter	
		Size	Q'ty
PAC-KE92TB-E	PEAD-A12AA7 PEAD-A18AA7	35-7/16 × 9-1/2 [900×240]	1
PAC-KE93TB-E	PEAD-A24AA7 PEAD-A30AA7	21-21/32 × 9-1/2 [550×240]	2
PAC-KE94TB-E	PEAD-A36AA7 PEAD-A42AA7	27-9/16 × 9-1/2 [700×240]	2

2. Provided parts

Check that the packet includes the following parts in addition to this installation manual.

PARTS	SHAPE	Q'ty	Model name	
① SCREW(4 × 10)		24	PAC-KE92/93TB-E	
		30	PAC-KE94TB-E	
② SUCTION FLANGE		a × b	-	
		33-3/4 × 8-3/16 [857 × 208]	1	PAC-KE92TB-E
		41-39/64 × 8-3/16 [1057 × 208]	1	PAC-KE93TB-E
		53-27/64 × 8-3/16 [1357 × 208]	1	PAC-KE94TB-E

2 Attach the filter box

Attach the filter box before installing the indoor unit.

1. Remove the filter on the indoor unit. (Fig. 2-1)

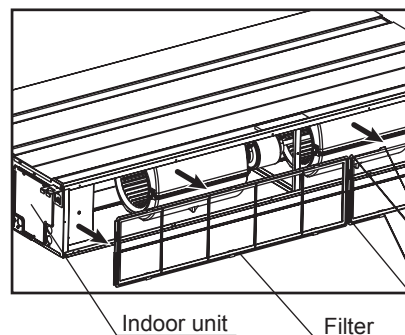


Fig.2-1

2. Install the filter box on the indoor unit with the supplied screws.
(Fig. 2-2)

PAC-KE92/93TB-E10 pcs.
PAC-KE94TB-E12 pcs.

Note) Failure to firmly tightened the screws will cause air leakage. Make sure the screws are firmly tightened.

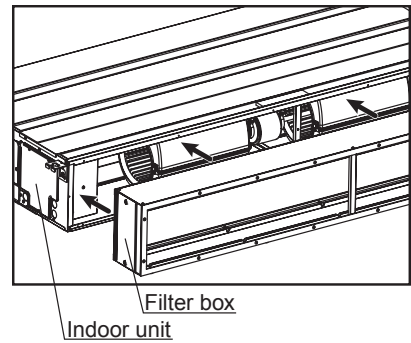


Fig.2-2

3. Install the supplied suction flange on the filter box with the supplied screws. (Fig. 2-3)

PAC-KE92/93TB-E12 pcs.
PAC-KE94TB-E16 pcs.

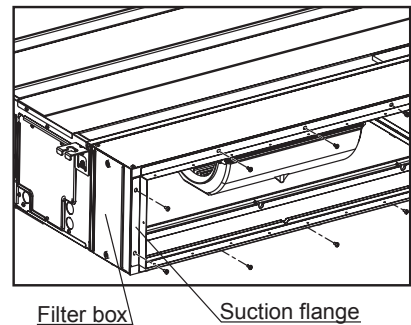


Fig.2-3

3 Installing the filter

1. Installation that allows for maintenance from the side

- (1) Remove the side panel from the filter box. (Fig. 3-1-1)

(2) Insert the filter that was removed in step 2-1 above along the top and bottom rails. (Fig. 3-1-2)
When using the PAC-KE93 or 94TB model, join the two filters before inserting them. (Fig. 3-1-3)

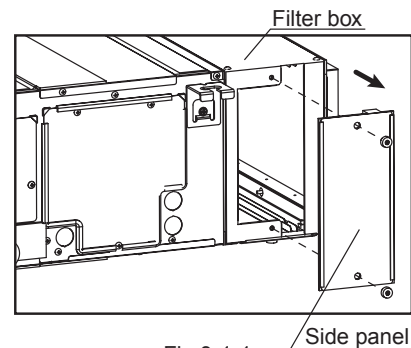


Fig.3-1-1

If the two filters are inserted without them being joined together, it will render the one in the back difficult to remove.

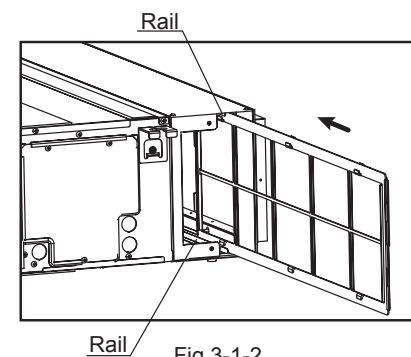


Fig.3-1-2

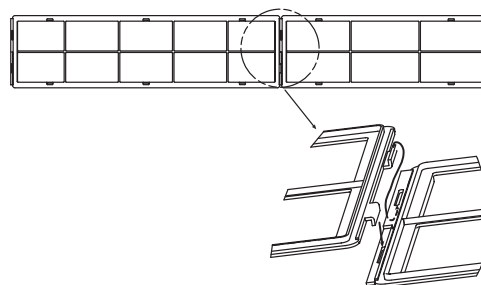


Fig.3-1-3

⚠ CAUTION

Never place your hand inside the filter box during maintenance. If the filter tabs become caught when the filter is removed for maintenance, use a long stick or similar item to remove the remaining filter.

2. Installation that allows for maintenance from the bottom

- (1) Remove the under panel from the filter box. (Fig. 3-2-1)
- (2) Insert the filter that was removed in step 3-1 above through the bottom of the filter box. (Fig. 3-2-2)
- (3) Insert the filter between the insulators on the top plate of the filter box until the filter is completely inside the filter box, and place the filter on the under frame of the filter box. (Fig. 3-2-3)
- (4) Install the under panel.

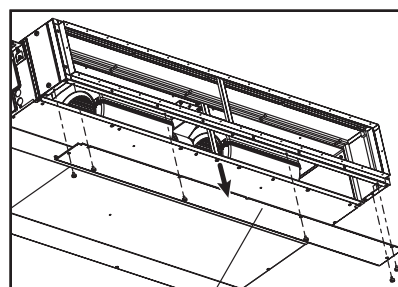


Fig.3-2-1

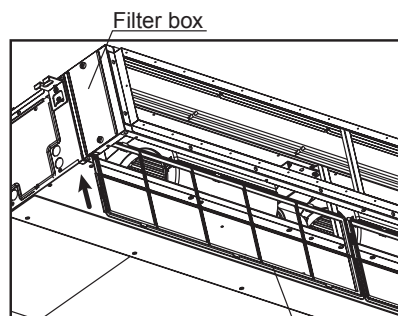


Fig.3-2-2

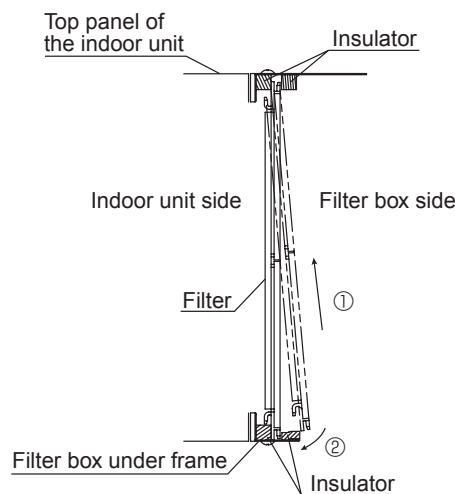


Fig.3-2-3

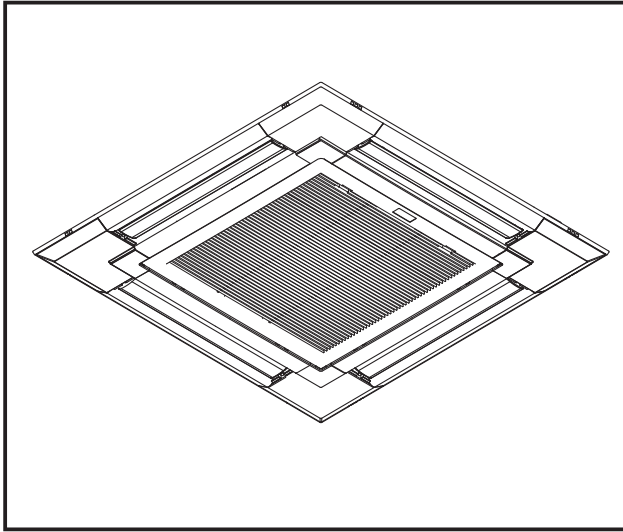
Final Check

The last step of the procedure is to make sure that nothing has been overlooked during the procedure. In addition, once the filter box has been mounted and the above procedure has been completed, carefully check for air leakage at the connections of the indoor unit.

For more detailed information, please consult your dealer.



Figure



Descriptions

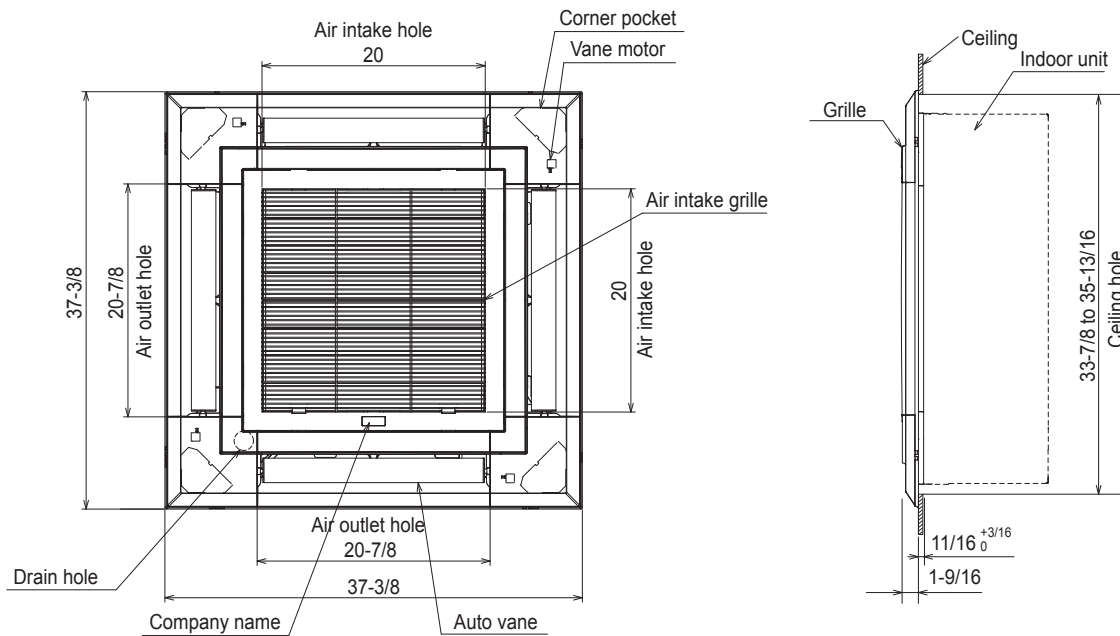
This panel is only for ceiling cassette type indoor units.

Applicable Models

- PLA-A12/18/24/30/36/42EA7

Dimensions

Unit : inch



How to Use / How to Install

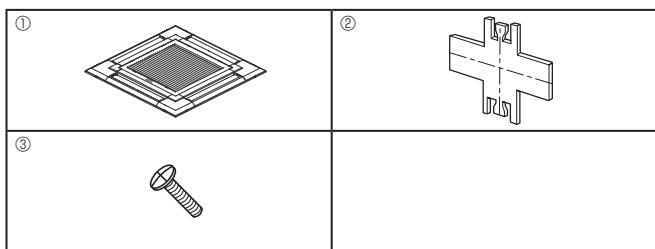


Fig. 1

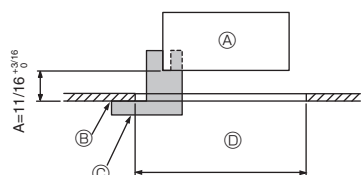


Fig. 2

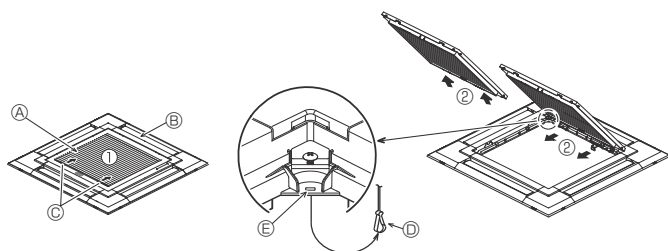


Fig. 3

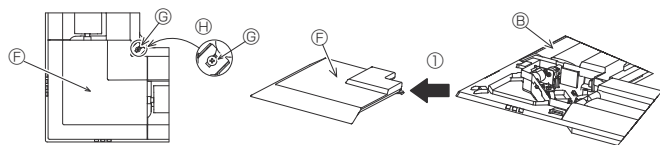


Fig. 4

	4-directional	3-directional
Blowout direction patterns	1 pattern: initial setting 	4 patterns: one air outlet fully closed
Blowout direction patterns	2-directional 6 patterns: 2 air outlet fully closed 	

Table 1

<Hook is in the raised position>

<Hook is in the lowered position>



Fig. 5

1. Checking the contents (Fig. 1)

- This kit contains this manual and the following parts.

	Accessory name	Qty	Remarks
①	Grille	1	950 × 950 (mm), 37-3/8 × 37-3/8 (inch)
②	Installation gauge	1	(Divided into 4 parts)
③	Screw (4 × 16)	1	For PLP-40EAU, PLP-40EAEU

2. Preparing to attach the grille (Fig. 2)

- With the gauge ② supplied with this kit, adjust and check the positioning of the main unit relative to the ceiling surface. If the main unit is not properly positioned relative to the ceiling surface, it may allow air leaks or cause condensation to collect.
- Make sure that the opening in the ceiling is within the following tolerances: 860 × 860-910 × 910 mm, 33-7/8 × 33-7/8 to 35-13/16 × 35-13/16 inch
- Make sure that A is performed within 17-22 mm, 11/16 to 7/8 inch. Damage could result by failing to adhere to this range.
 - Ⓐ Main unit
 - Ⓑ Ceiling surface
 - Ⓒ Installation gauge ② (inserted into the main unit)
 - Ⓓ Ceiling opening dimensions

2.1. Removing the intake grille (Fig. 3)

- Slide the levers in the direction indicated by the arrows ① to open the intake grille.
- Unlatch the hook that secures the grille.
 - * Do not unlatch the hook for the intake grille.
- With the intake grille in the "open" position, remove the hinge of the intake grille from the grille as indicated by the arrows ②.

2.2. Removing the corner panel (Fig. 4)

- Loose the 4 screws on the corner. Slide the corner panel in the direction of the arrow ① in the figure and remove the corner panel.

[Fig. 3] [Fig. 4]

- Ⓐ Intake grille
- Ⓑ Grille ①
- Ⓒ Intake grille levers
- Ⓓ Grille hook
- Ⓔ Hole for the grille's hook
- Ⓕ Corner panel
- Ⓖ Screw
- Ⓗ Detail

3. Selection of air outlets

For this grille the discharge direction is available in 11 patterns. Also, by setting the remote controller to the appropriate settings, you can adjust the air-flow and speed. Select the required settings from the Table 1 according to the location in which you want to install the unit. (More than two directions must be selected.)

- Decide on the discharge direction pattern.
- Be sure to set the remote controller to the appropriate settings according to the number of air outlets and the height of the ceiling on which the main unit will be installed.

Notes:

- When changing the number of directions, you need an air outlet shutter plate, which is optional part.
- Do not select 2 directions in a hot and humid environment. (Dew formation or dew drop may result.)

4. Installing the grille

4.1. Preparations (Fig. 5)

Make sure to flip 2 hooks on the grille up.

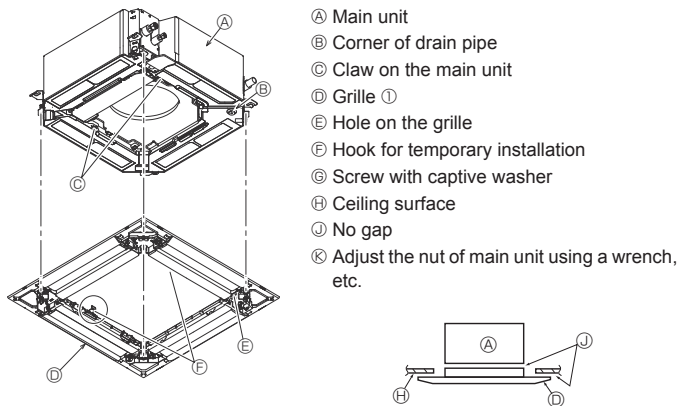


Fig. 6

< The grille temporary installed >

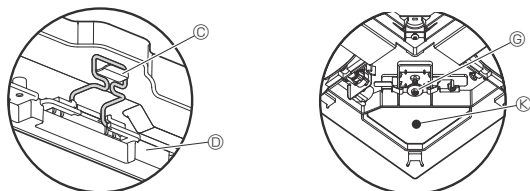


Fig. 7

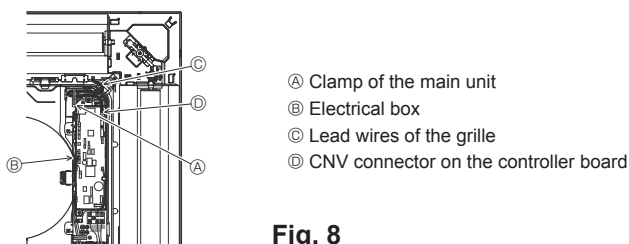


Fig. 8

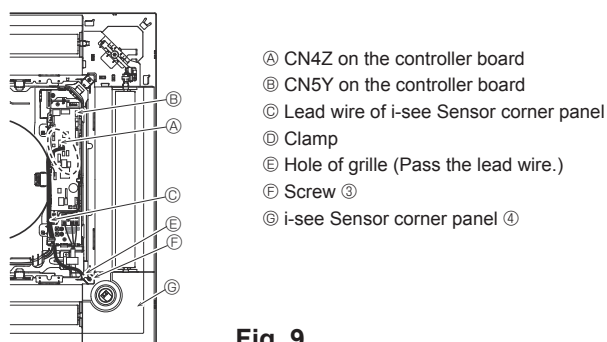


Fig. 9

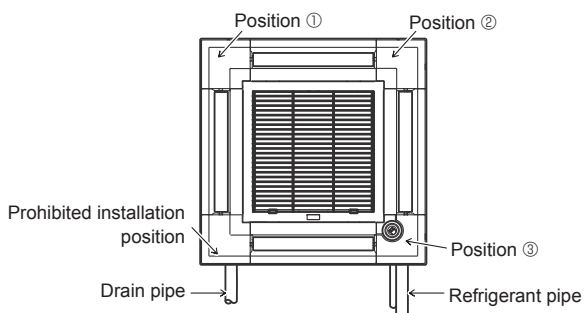


Fig. 10

4.2. Temporary installation of the grille (Fig. 6)

- Join the corner of drain pipe on the main unit with the corner with hole on the grille and put them together temporarily by hanging the hook of the grille to the claw of the main unit.

4.3. Fixing the grille

- By tightening the pre-installed screws, fix the grille onto the main unit. (Fig. 6)
Note:
Make sure there is no gap between the main unit and the grille or between the grille and the ceiling surface. (Fig. 7)

If there is a gap between the grille and the ceiling:
With the grille attached, slightly adjust the installation height of the main unit and clear the gap.

⚠ Caution:

- **When tightening the screw, make sure that the tightening torque is 2.8 N·m to 3.6 N·m, 2.1 to 2.6 ft·lbs. Never use an impact screw driver.**
- **After tightening the screw, confirm that the two grille hooks (Fig. 6) are latched onto the hooks on the main unit.**

4.4. Wire connection (Fig. 8)

- Loose the 2 screws fixing the electrical box cover on the main unit, and slide the cover to open.
- Route the lead wire from side of the electrical box.
- Make sure to connect a connector for vane motor (white, 20 poles) to CNV connector (white) on the controller board of the main unit.
- Lead wires that lead off the grille must be held together without slack using a clamp into the electrical box.

4.5. Installation of i-see Sensor corner panel (Fig. 9)

- Route the lead wire from the side of electrical box.
- Route the lead wire connector (white, 4 poles and white, 5 poles) of the i-see Sensor corner panel ④ from the side of the electrical box on the main unit and connect to the connector CN4Z and CN5Y on the controller board.
- The remaining lead wire of i-see Sensor corner panel must be held together without slack using the clamp into the electrical box.
- Put the cover back on the electrical box with 2 screws.
Note:
Make sure wires are not caught in the electrical box cover.
- The i-see Sensor corner panel should be fixed onto the grille ① with screw ③.
- * If the position of the i-see Sensor was changed from default position (Position ③) to the other position, change the function settings. (Refer to Fig. 10)
- The i-see Sensor corner panel can not installed on the drain pipe side for the main unit. (Refer to Fig. 10)

Position ①: (Air outlet identification marks □/□□□)

Position ②: (Air outlet identification marks □/□)

Position ③: Default i-see Sensor position (Air outlet identification marks □□/□□)

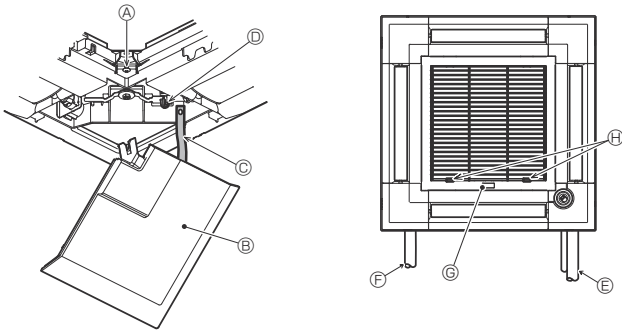


Fig. 11

5. Installing the intake grille (Fig. 11)

Note:

When reinstalling the corner panels (each with a safety strap attached), connect the other end of each safety strap to the grille as shown in the illustration.

* If the corner panels are not attached surely, they may fall off while the main unit is operating.

• Perform the procedure that is described in "2. Preparing to attach the grille" in reverse order to install the intake grille and the corner panel.

• The direction of the intake grille can be changed according to the wishes of the customer.

Ⓐ Screw (4 × 16)

Ⓑ Corner panel

Ⓒ Safety strap

Ⓓ Hook

Ⓔ Refrigerant pipe

Ⓕ Drain pipe

Ⓖ Company logo

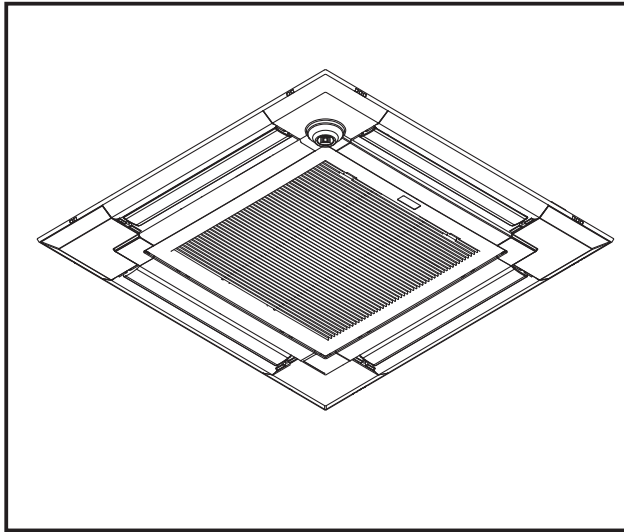
* Installation in any position is possible.

ⓓ Initial position of the levers on the intake grille

* Although the clips can be installed in any of 4 positions, the configuration shown here is recommended. (It is not necessary to remove the intake grille when maintenance is performed on the electrical box of the main unit.)



Figure



Descriptions

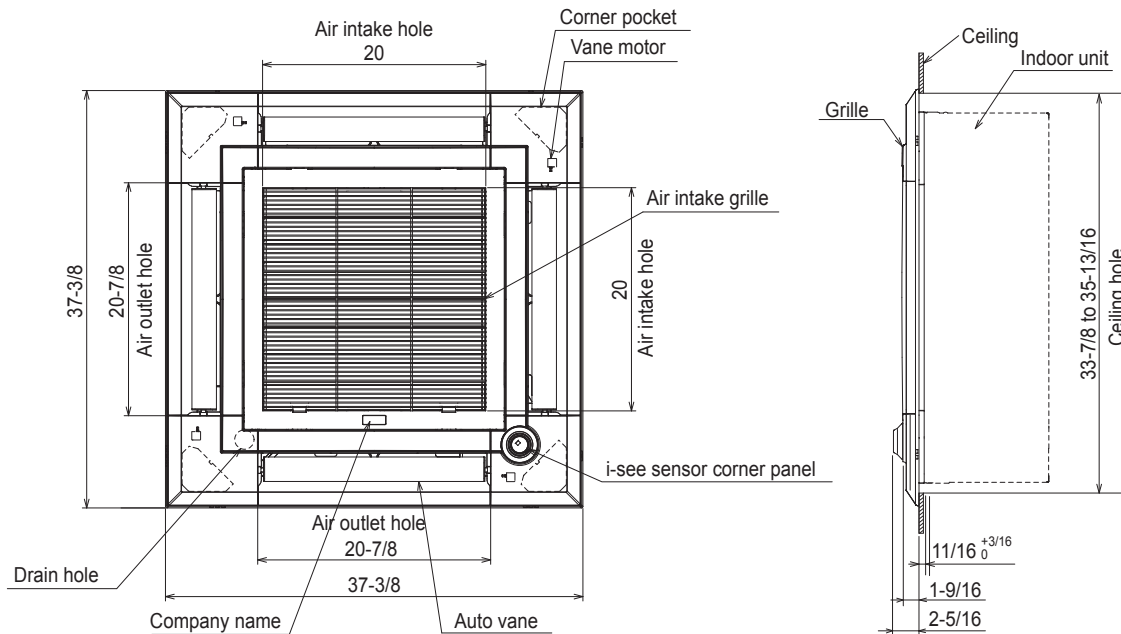
This panel is only for ceiling cassette type indoor units with i-see sensor.

Applicable Models

■ PLA-A12/18/24/30/36/42EA7

Dimensions

Unit : inch



How to Use / How to Install

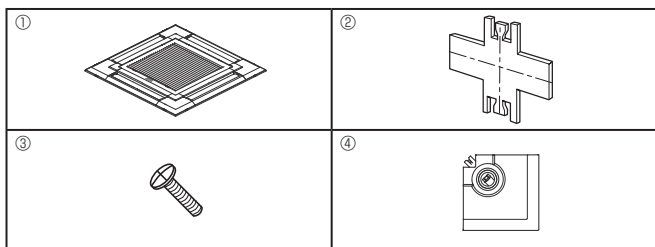


Fig. 1

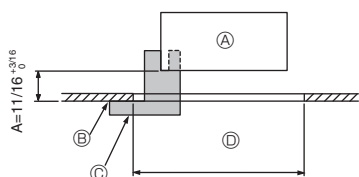


Fig. 2

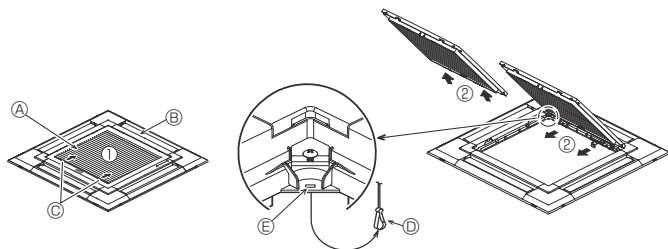


Fig. 3

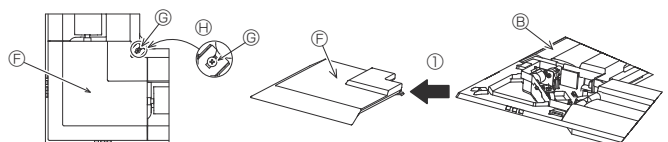


Fig. 4

	4-directional	3-directional
Blowout direction patterns	1 pattern: initial setting 	4 patterns: one air outlet fully closed
Blowout direction patterns	2-directional 	
Blowout direction patterns	6 patterns: 2 air outlet fully closed 	

Table 1

<Hook is in the raised position>

<Hook is in the lowered position>



Fig. 5

1. Checking the contents (Fig. 1)

- This kit contains this manual and the following parts.

	Accessory name	Q'ty	Remarks
①	Grille	1	950 × 950 (mm), 37-3/8 × 37-3/8 (inch)
②	Installation gauge	1	(Divided into 4 parts)
③	Screw (4 × 16)	1	
④	i-see Sensor corner panel	1	

2. Preparing to attach the grille (Fig. 2)

- With the gauge ② supplied with this kit, adjust and check the positioning of the main unit relative to the ceiling surface. If the main unit is not properly positioned relative to the ceiling surface, it may allow air leaks or cause condensation to collect.
- Make sure that the opening in the ceiling is within the following tolerances: 860 × 860-910 × 910 mm, 33-7/8 × 33-7/8 to 35-13/16 × 35-13/16 inch
- Make sure that A is performed within 17-22 mm, 11/16 to 7/8 inch. Damage could result by failing to adhere to this range.
 - Ⓐ Main unit
 - Ⓑ Ceiling surface
 - Ⓒ Installation gauge ② (inserted into the main unit)
 - Ⓓ Ceiling opening dimensions

2.1. Removing the intake grille (Fig. 3)

- Slide the levers in the direction indicated by the arrows ① to open the grille.
- Unlatch the hook that secures the grille.
 - * Do not unlatch the hook for the intake grille.
- With the intake grille in the "open" position, remove the hinge of the intake grille from the grille as indicated by the arrows ②.

2.2. Removing the corner panel (Fig. 4)

- Loose the 4 screws on the corner. Slide the corner panel in the direction of the arrow ① in the figure and remove the corner panel.

[Fig. 3] [Fig. 4]

- Ⓐ Intake grille
- Ⓑ Grille ①
- Ⓒ Intake grille levers
- Ⓓ Grille hook
- Ⓔ Hole for the grille's hook
- Ⓕ Corner panel
- Ⓖ Screw
- Ⓗ Detail

3. Selection of air outlets

For this grille the discharge direction is available in 11 patterns. Also, by setting the remote controller to the appropriate settings, you can adjust the air-flow and speed. Select the required settings from the Table 1 according to the location in which you want to install the unit. (More than two directions must be selected.)

- Decide on the discharge direction pattern.
- Be sure to set the remote controller to the appropriate settings according to the number of air outlets and the height of the ceiling on which the main unit will be installed.

Notes:

- When changing the number of directions, you need an air outlet shutter plate, which is optional part.
- Do not select 2 directions in a hot and humid environment. (Dew formation or dew drop may result.)

4. Installing the grille

4.1. Preparations (Fig. 5)

Make sure to flip 2 hooks on the grille up.

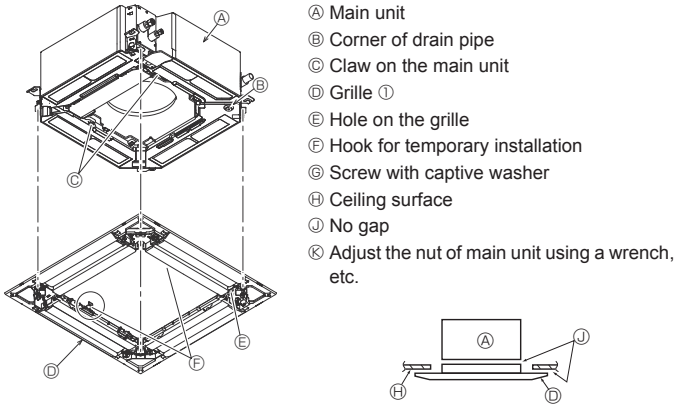


Fig. 6

< The grille temporarily installed >

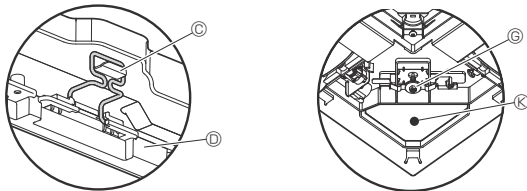


Fig. 7

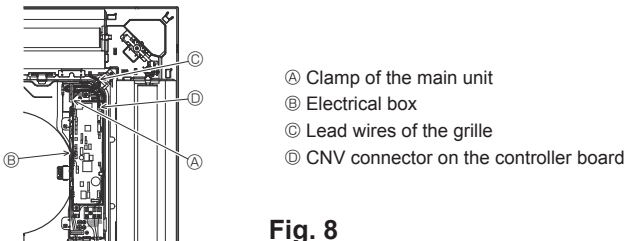


Fig. 8

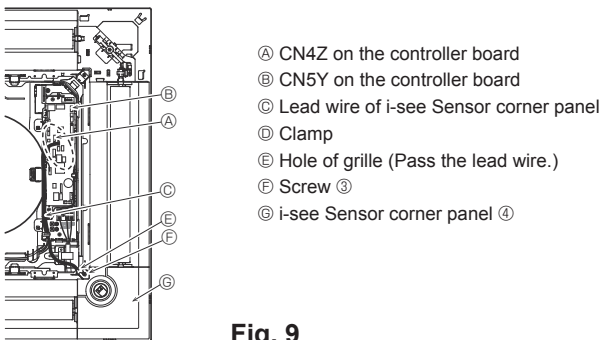


Fig. 9

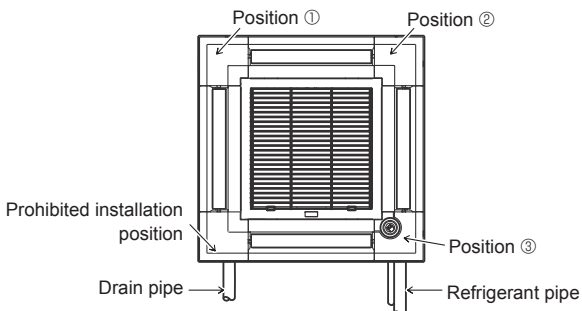


Fig. 10

4.2. Temporary installation of the grille (Fig. 6)

- Join the corner of drain pipe on the main unit with the corner with hole on the grille and put them together temporarily by hanging the hook of the grille to the claw of the main unit.

4.3. Fixing the grille

- By tightening the pre-installed screws, fix the grille onto the main unit. (Fig. 6)
Note:
Make sure there is no gap between the main unit and the grille or between the grille and the ceiling surface. (Fig. 7)

If there is a gap between the grille and the ceiling:
With the grille attached, slightly adjust the installation height of the main unit and clear the gap.

⚠ Caution:

- **When tightening the screw, make sure that the tightening torque is 2.8 N·m to 3.6 N·m, 2.1 to 2.6 ft·lbs. Never use an impact screw driver.**
- **After tightening the screw, confirm that the two grille hooks (Fig. 6) are latched onto the hooks on the main unit.**

4.4. Wire connection (Fig. 8)

- Loose the 2 screws fixing the electrical box cover on the main unit, and slide the cover to open.
- Route the lead wire from side of the electrical box.
- Make sure to connect a connector for vane motor (white, 20 poles) to CNV connector (white) on the controller board of the main unit.
- Lead wires that lead off the grille must be held together without slack using a clamp into the electrical box.

4.5. Installation of i-see Sensor corner panel (Fig. 9)

- Route the lead wire from the side of electrical box.
- Route the lead wire connector (white, 4 poles and white, 5 poles) of the i-see Sensor corner panel ④ from the side of the electrical box on the main unit and connect to the connector CN4Z and CN5Y on the controller board.
- The remaining lead wire of i-see Sensor corner panel must be held together without slack using the clamp into the electrical box.
- Put the cover back on the electrical box with 2 screws.
Note:
Make sure wires are not caught in the electrical box cover.
- The i-see Sensor corner panel should be fixed onto the grille ① with screw ③.
- * If the position of the i-see Sensor was changed from default position (Position ③) to the other position, change the function settings. (Refer to Fig. 10)
- The i-see Sensor corner panel can not installed on the drain pipe side for the main unit. (Refer to Fig. 10)

Position ①: (Air outlet identification marks □/□□□)

Position ②: (Air outlet identification marks □/□□)

Position ③: Default i-see Sensor position (Air outlet identification marks □□/□□□)

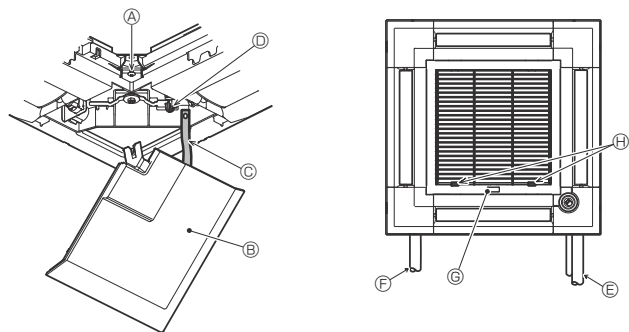


Fig. 11

5. Installing the intake grille (Fig. 11)

Note:

When reinstalling the corner panels (each with a safety strap attached), connect the other end of each safety strap to the grille as shown in the illustration.

* If the corner panels are not attached surely, they may fall off while the main unit is operating.

• Perform the procedure that is described in "2. Preparing to attach the grille" in reverse order to install the intake grille and the corner panel.

• The direction of the intake grille can be changed according to the wishes of the customer.

Ⓐ Screw (4 × 16)

Ⓑ Corner panel

Ⓒ Safety strap

Ⓓ Hook

Ⓔ Refrigerant pipe

Ⓕ Drain pipe

Ⓖ Company logo

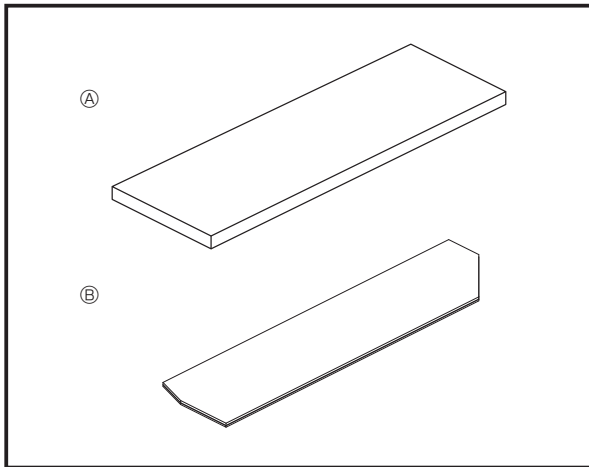
* Installation in any position is possible.

ⓓ Initial position of the levers on the intake grille

* Although the clips can be installed in any of 4 positions, the configuration shown here is recommended. (It is not necessary to remove the intake grille when maintenance is performed on the electrical box of the main unit.)



Figure



Descriptions

Part to block the air outlet of a cassette-type indoor unit.

Applicable Models

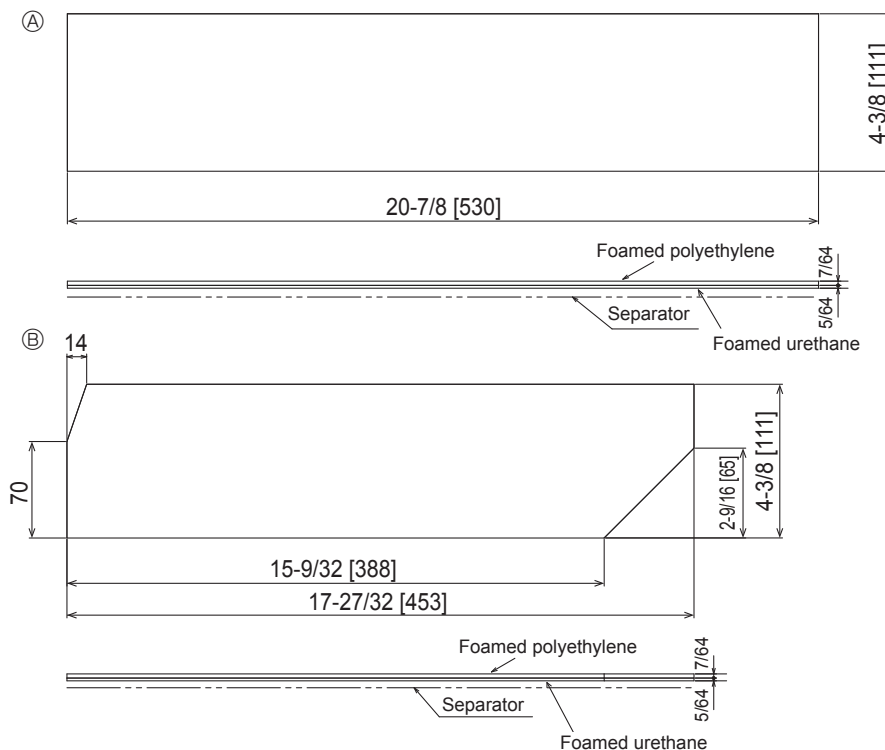
■ PLA-A12/18/24/30/36/42EA7

Specifications

Air outlet pattern	Number of shutter plates	
	4 directions → 3 directions	1
	4 directions → 2 directions	2
(Change to 1 direction is not possible.)		
Note 1: Selecting "2 directions" requires cleaning of the filter approximately once. (Filter clogging may cause cooling/heating performance to drop.)		
Note 2: Selecting "3 directions" or "2 directions" may increase operating sound.		
Note 3: "2 directions" should not be selected when operating in high-temperature/high-humidity environment. (Dew formation or dewdrop may result.)		
Note 4: When set to "2 ways", the unit cannot be used with the optional high efficiency filter element.		
Note 5: When this air outlet shutter plate is installed, a draft reduction setting is not available.		
Material	Foamed polyethylene + Foamed urethane	
Color	Black	
Installation method	Glued to the air outlet of the indoor unit.	

Dimensions

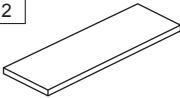
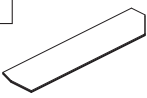
Unit : inch [mm]



How to Use / How to Install

Checking for provided parts

Make sure that the parts shown on the right are in this bag, along with the instruction sheet.

Part #, Name	① Shutter plate	② Shutter plate
Q'ty	2	1
Figure		

Air-outlet shutter plate Installation Manual

1. Locate the Shutter Plate installation position

- This is a part which is used to convert the number of air-outlet from "4 ways" to "3 ways" or "2 ways".

Note: Convert to "1 way" is not available.

- Select the outlet direction and decide the outlet to be closed.

Notes:

- When the number of outlet is selected to "2 ways", be sure to explain to the customer that the filter should be cleaned once a month. (Otherwise, the filter will be clogged, and the performance of the cooling and heating can be lower.)
- When the number of outlet is selected to "3 ways" or "2 ways", the operation noise can be larger.
- Never to select "2 ways" in the environment of high temperature and high humidity. (It can cause dew drops.)

2. Installation of shutter plate (Fig.1)

- Install the shutter plate to the indoor unit so that it can fit the air-outlet concave portion.

Notes:

- Install one piece of Shutter plate ① per one air-outlet.
- The installation should be done before the grille is installed.
- The shutter plate must be installed not to cause wrinkle or gap. (It can cause dew drops.)

- When attaching the shutter plate to the blow outlet (marked ★) between the refrigerant piping and the drain pump, attach the shutter plate ②.

3. Function setting

- When the number of air-outlet is changed, it is necessary to make function selection.

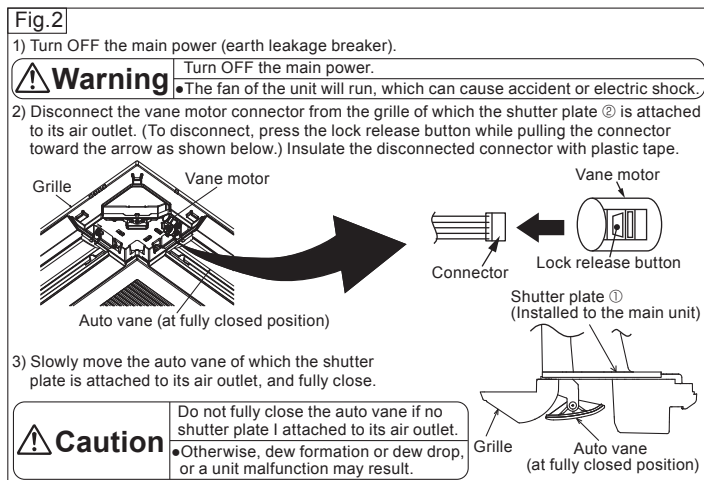
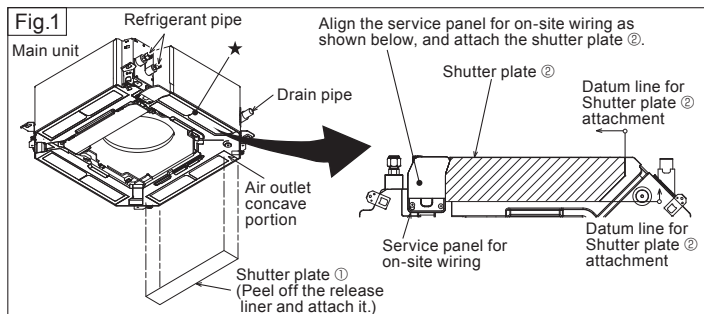
For the setting method, refer to the installation manual of the main unit.

4. Setting of the auto vane (Fig.2)

- It is possible to fix the auto vane of the grille to the fully closed position, which is applied to the air-outlet installed on the shutter plate.

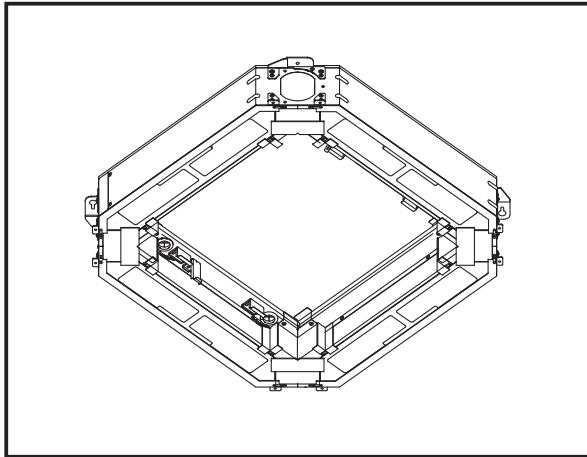
Once the auto vane is fixed, the operation of a remote controller and all of automatic control will not be available.

Note that the fixed vane angle differs from the one which is displayed on the remote controller.





Figure



Descriptions

Part to block the air outlet of a cassette-type indoor unit.

Applicable Models

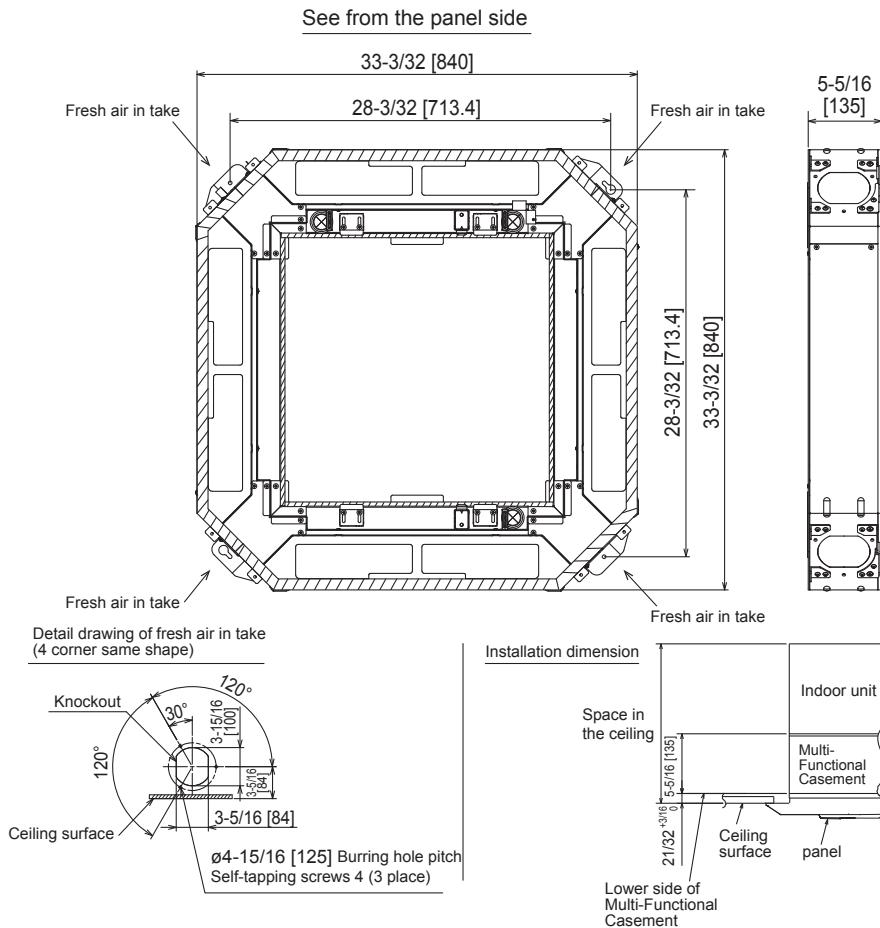
■ PLA-A12/18/24/30/36/42EA7

Specifications

Connected duct diameter (inch)	Ø3-15/16	
Fresh air intake	Number of intakes	Any 2 corners or less (among four corners)
	Input volume	20% or less of indoor units air volume
High-performance filter element (Optional parts)	Colorimetric method (65%)	

Dimensions

Unit: inch [mm]

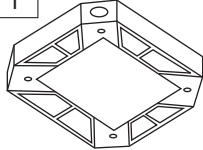


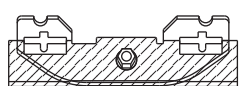


How to Use / How to Install

1 Parts check

(The unit is provided with this manual and following parts in the box.)

MULTI-FUNCTIONAL CASEMENT

Part No., Name	① Multi-functional casement	② Screw with washer (black)	③ Screw	④ Grille securing bracket
Q'ty	1	4 M5×0.8×25	8 M5×0.8×12	4 With insulator
Figure				

NOTICE

- (1) When taking in fresh air from outside, use the PAC-SH65OF-E duct flange (optional).
In addition, procure following items at local site: duct fan, duct, and dust collecting filter.
Intake-air volume should be 20% or less of indoor unit air volume.
Note: It is available of fresh-air intake even when the High-efficiency filter element is installed.
- (2) Follow the procedure in this installation manual of the Multi-functional casement ①.
Otherwise, it is possible that installation of refrigerant pipes, drain pipe, and electrical wiring will not be available.

2 Installation of Main unit

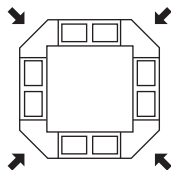
- Follow the procedure in the installation manual which is attached to the main unit.

3 Installation of Multi-functional casement

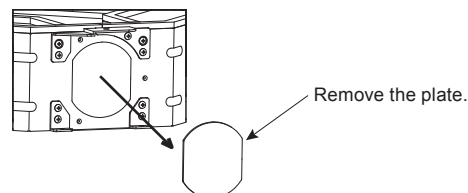
Preparation before installation

- An optional part Shutter plate to change the number of air outlet is to be installed on the main unit of the indoor unit; thus install the shutter plate before installing the Multi-functional casement ①.
- The Multi-functional casement ① has 4 knockout on each side so that the fresh air can be taken from any of four sides. Select any one or two sides in advance and make knockout holes on the Multi-functional casement ①.

— Knockout hole position for fresh-air intake. —



— Making knockout holes —



- Be sure to use the PAC-SH65OF-E (optional) for duct flange.

3 Installation of Multi-functional casement

Electrical work of main unit

- Be sure to do the wiring (indoor/outdoor unit connection cable, remote controller cable, etc.) before installing the Multi-functional casement ①:

Note: Wiring after installing the Multi-functional casement ① will be difficult.

Temporary installation

Note: Be sure to use two persons for this work.

- Fix the 2 screw with washer (black) ② to each position (drain pipe corner position and to its opposite corner).
- Align the direction of the Multi-functional casement ① according to the label for checking the installation position attached inside the Multi-functional casement ①.

Note: If installed in improper direction, parts damage, wind leakage, or dew drop may result.

- Hook the hole of the Multi-functional casement ① to the screw with washer (black) ② and hand tight.

Fixing

- Temporarily secure the 2 screws with washers ②, and also the other 2 screws with washers ②, and then tighten these screws with washers ② after making sure that the position of Multi-functional casement ① is correct.

Caution

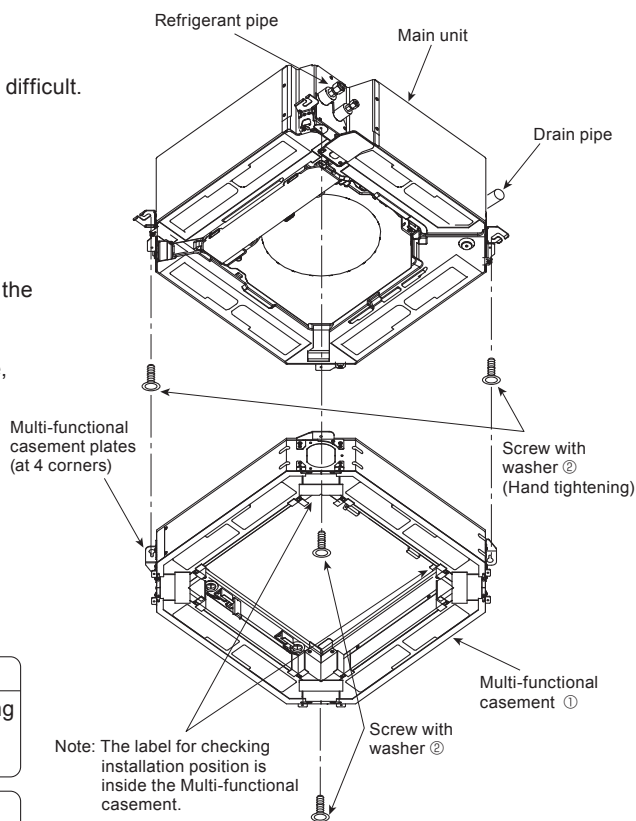
Temporarily secure the 4 screws with washers.

- Tightening the screws without temporarily securing them could damage the screws with washers, or cause air leakage.

Caution

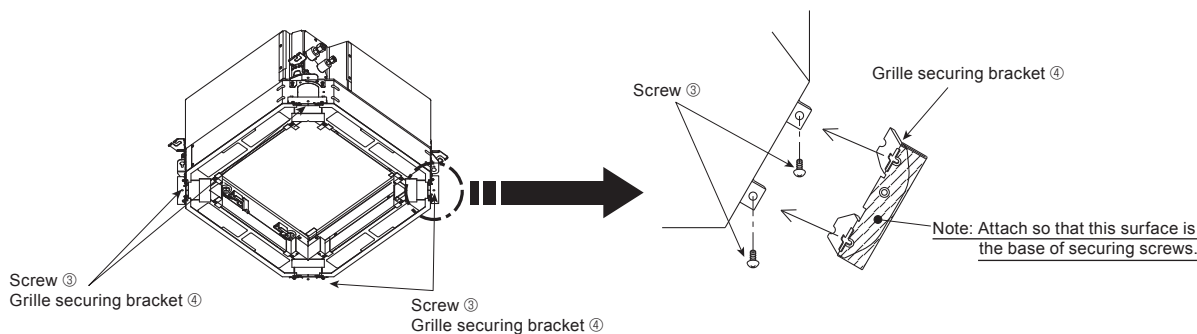
When tightening the screw with washer ②, tighten it at a torque of 2.8 to 3.6 N·m (2.1 to 2.6 ft·lbs) or less. Never use an impact screwdriver.

- It may result in parts damage.



Attaching bracket for securing grille

- Use 8 screws ③ to secure the 4 Grille securing brackets ④ to each corner of Multi-functional casement ①. (See the figure below.)

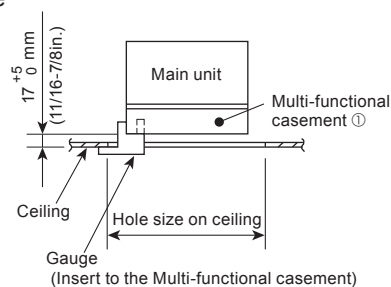


Height adjustment

Note: It is recommended to make this adjustment before installation of duct when fresh air intake.

- Readjust the height of the Multi-functional casement ① with the gauge which is attached to the grille as show right.


The gap must be in a range from 17mm(11/16in.) to 22mm(7/8in.). If out of range, it can cause malfunction.

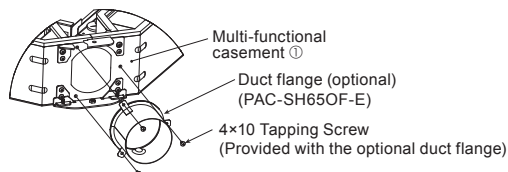
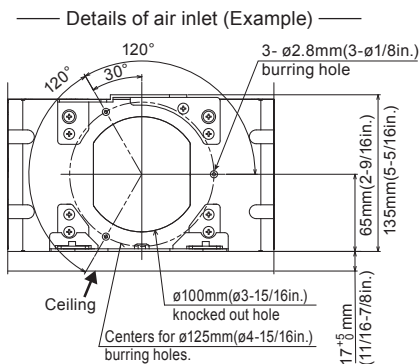


4 Installation of duct (in case of fresh air intake)

Installation of duct flange

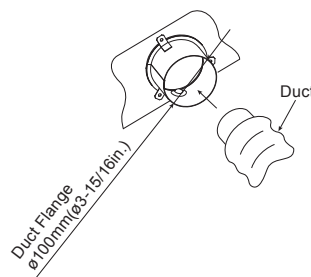
- Install the optional duct flange referring to the installation manual provided with it.

 Caution	Linkage of duct fan and air conditioner.
	<ul style="list-style-type: none"> • In case that a duct fan is used, be sure to make it linked with the air conditioner when outside air is taken. Do not run the duct fan only. It can cause dew drop.



Installation of duct (should be prepared locally)

- Prepare a duct of which inner diameter fits into the outer diameter of the duct flange.
- In case that the environment above the ceiling is high temperature and high humidity, wrap the duct in a heat insulator to avoid causing dew drop on the wall.
- A duct must be prepared at local site for dust collecting filter since the dust contained in the outside air taken into the indoor unit is not removed without such filter.

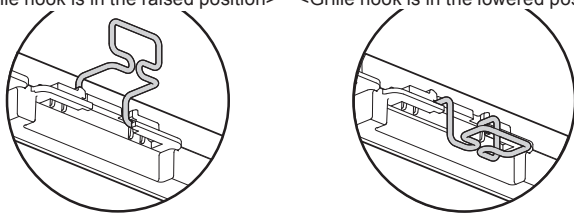


5 Installation of grille

Preparation for temporarily hanging the grille

- Check that the 2 temporary hanging hooks on the grille are in the raised position.

<Grille hook is in the raised position> <Grille hook is in the lowered position>

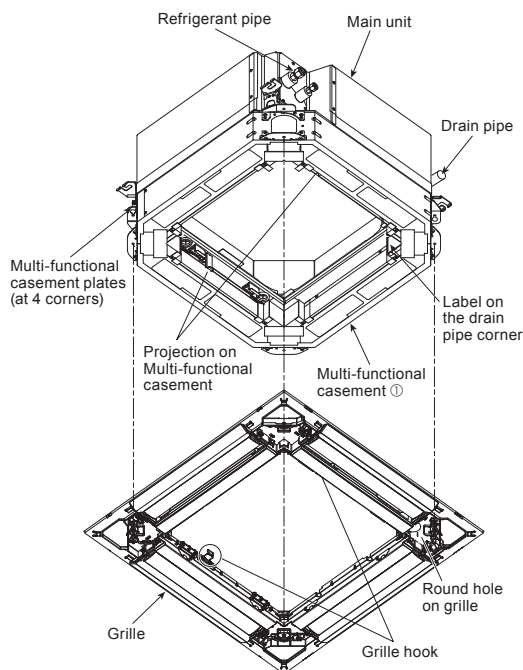
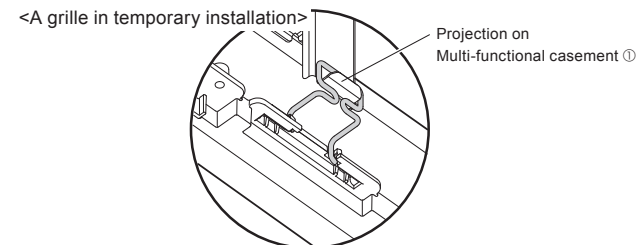


Temporary installation of the grille

- Align the label attached on the drain pipe corner of the Multi-functional casement to the corner with the round hole of the grille, and temporarily install the grille by latching the grille hooks onto the projections on the Multi-functional casement ①.

Notes:

1. Make sure electrical wires are not caught between the Multi-functional casement and the grille.
2. Never force pressure on the grille during the temporary installation. It may result in accident and damage.



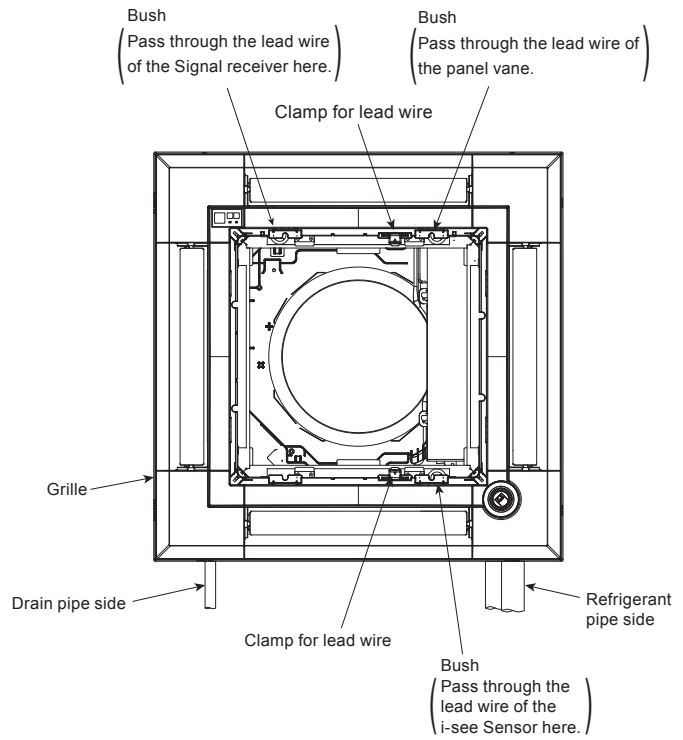
5 Installation of grille

Fixing the grille

- Refer to the installation manual of the main unit for the installation.

Electrical work

- For lead wires of the grille the Signal receiver, and the i-see Sensor make sure that they passed through the bush on the Multi-functional casement, as shown in the right figure, and connect to the main unit.



Duct Flange for Fresh-air Intake PAC-SH650F-E

Photo



Descriptions

Part to attach a duct to take in fresh air from outdoors.

Applicable Models

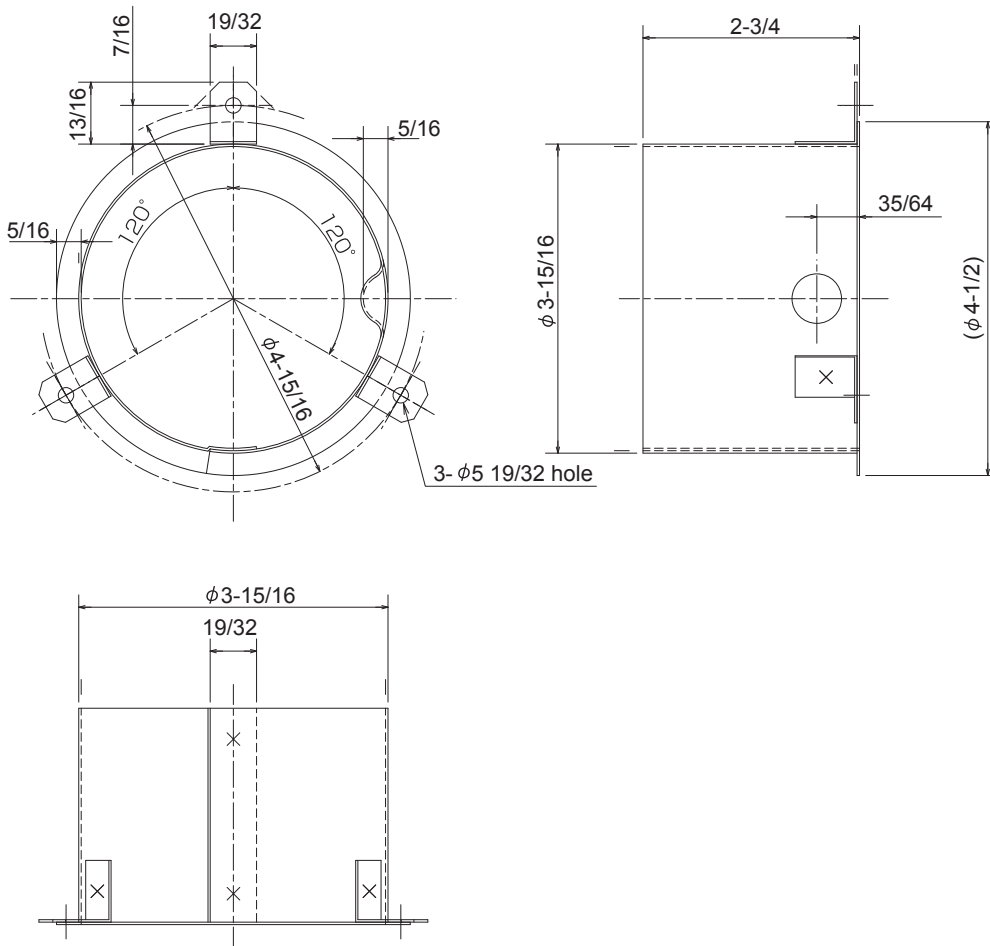
■ PLA-A12/18/24/30/36/42EA7

Specifications

Connection duct diameter (inch)	ø7-7/8
Material	Hot-dip zinc-coated carbon steel sheet (t0.8)
Accessory	Insulator, Fixing screw (ST4x10)x3

Dimensions

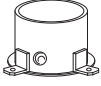


Unit : inch



How to Use / How to Install

1. Checking Parts

(This box contains the installation manual and the following parts)

Part	①Duct flange	②Insulator	③Screws(M4×10)
Qty	1	1	3
Shape			

2. Attaching Duct Flange for External Air Input

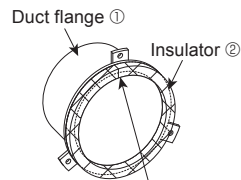
- Punch an opening for the duct flange.
 - <When attaching to main unit>
 - Cut the slit of the $\phi 100$ cut-out hole to which the duct flange is to be attached.
 - <When attaching to Multi-functional casement>
 - Remove the $\phi 100$ knockout hole to which the duct flange is to be attached.

2) Paste insulator ② on the duct flange ① (see the figure on the right).

3) Use 3 screws ③ to attach duct flange ① (see the figure below).

Note:

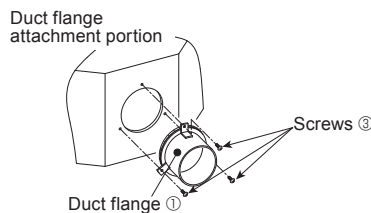
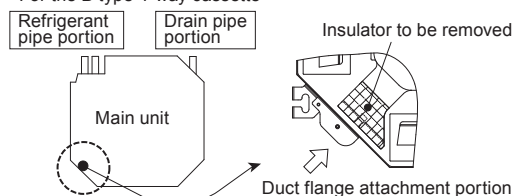
- When attaching to the main unit, **be sure to remove the insulator** that is pasted on the location of main unit (shown in the figure below).
- When attaching to Multi-functional casement, be sure to **set the concave portion of duct flange ① toward the grille attachment surface when attaching it.** (If the duct flange is attached to a location other than the specified one, the grille cannot be attached.)
- When external air is input directly through the main unit, intake-air volume should be 5% or less of indoor unit air volume.
- When external air is input through the Multi-functional casement, intake-air volume should be 20% or less of indoor unit air volume.
- To input the external air, the duct fan and dust collecting filter to prevent drawing in dust and other particles are necessary. For details, see "Fresh air intake volume & static pressure characteristics" in the P series DATA BOOK.
- When external air is input into the main unit, the operation noise can be larger.



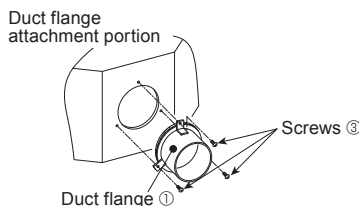
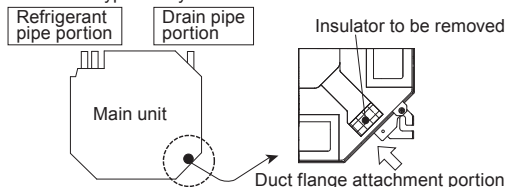
Paste insulator ② so that there is no gap at joints.

When attaching to main unit

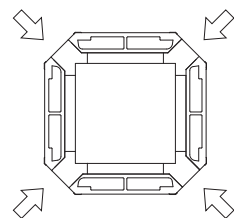
- For the B type 4-way cassette



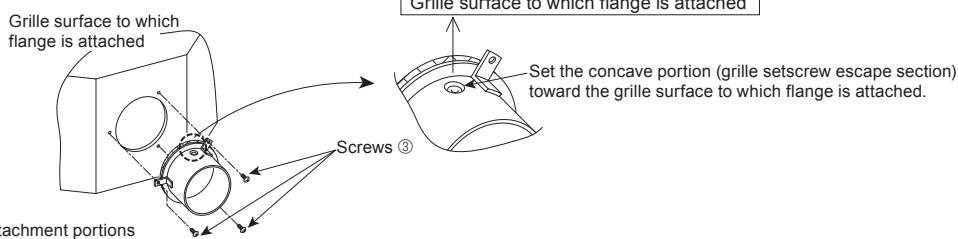
- For the E type 4-way cassette



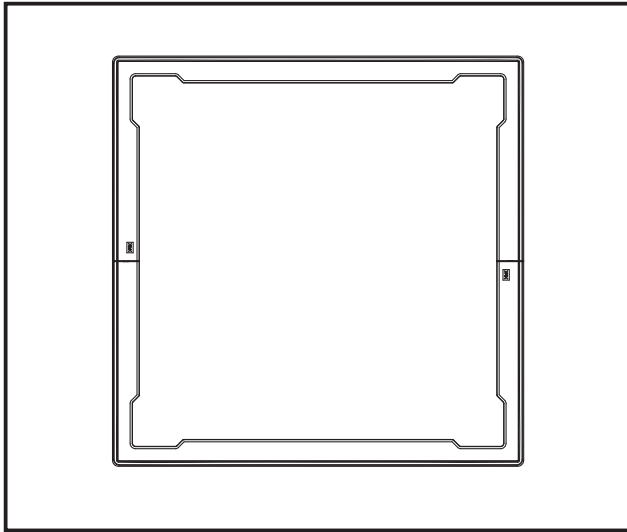
When attaching to Multi-functional casement



Arrow views (4 portions) Duct flange attachment portions



Figure



Descriptions

Enables to install cassette-type indoor units even if the ceiling height is low.

A part to the panel 40 mm lower than the ceiling surface.

Applicable Models

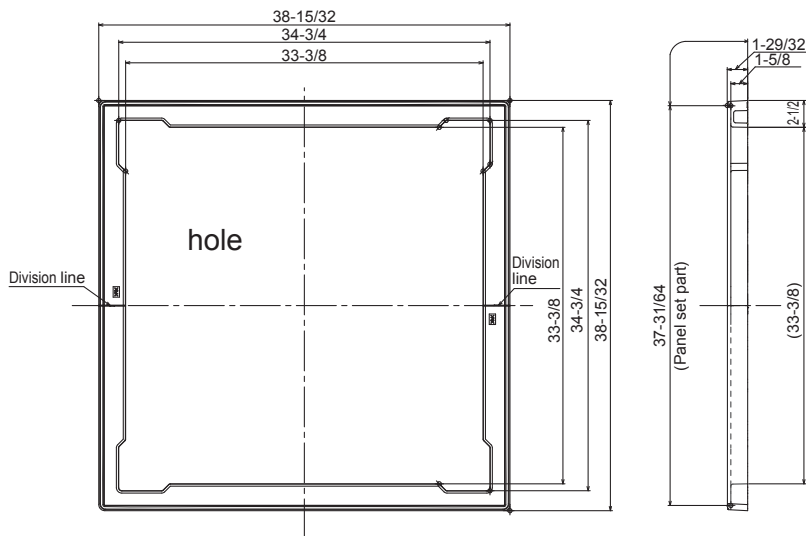
■ PLA-A12/18/24/30/36/42EA7

Specifications

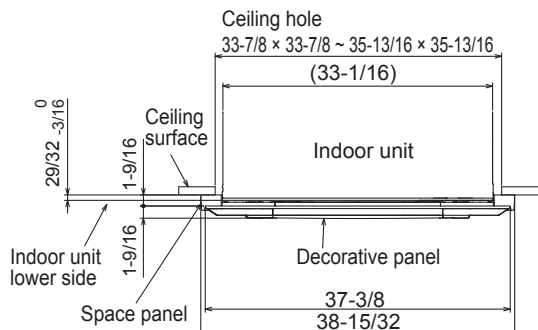
Exterior	Color (Mansell No.)	Pure White (6.4Y 8.9/0.4)
	Surface treatment	Coating
	Material	Styrofoam

Dimensions

Unit : inch



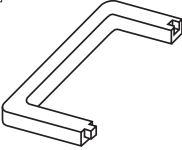
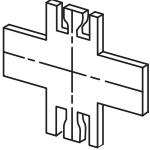
Installation dimension



How to Use / How to Install

1. Checking packed parts

Make sure that you have all the following parts, in addition to this manual in this box:

Part No. /Part name	① Space panel	② Gauge for installation
Quantity	2	1 (Split this into 4 pieces)
Shape		

2. Installing space panel

- Install before installing grille.
- This space panel is to be installed on grille before installing on main unit. (If grille has already been installed, remove it.)

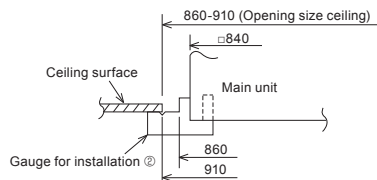
Preparation for installation

(1) Checking size of opening in ceiling

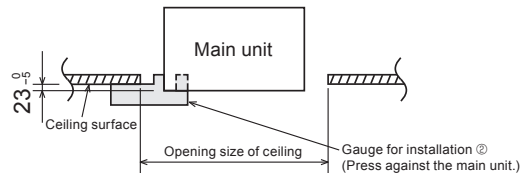
- Make sure that opening in ceiling is within the range shown below:
860×860-910×910

(2) Positioning of ceiling surface and main unit

- Divide the provided gauge for installation ② into four parts, and insert it into the unit or outlet of Multi-functional casement. Place the unit in the center of opening in ceiling, referring to the figure below.



- Using provided gauge for installation ②, position the ceiling surface and main unit. If position of ceiling surface and main unit does not match, it may result in leak of draft, drip of dewdrops and incorrect operation of horizontal vane of grille, etc.



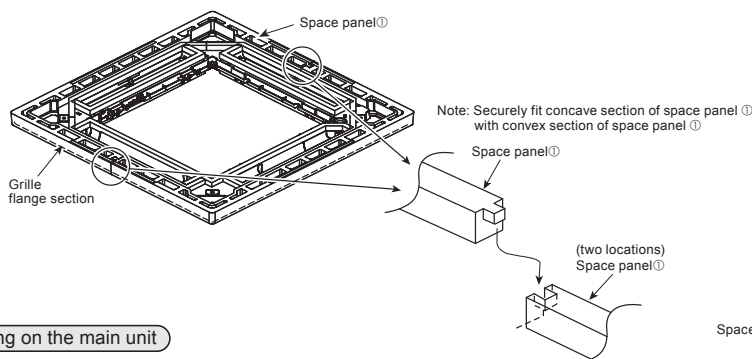
Setting the grille and space panel

- Place the space panel ① (two locations), matching the flange section of grille, and assemble space panel ① on the grille and then set them.

Note: Be sure to assemble space panel ① on the grille.

If assembled incorrectly, space panel ① may break.

Note: As an example, the illustration of the E type 4-way cassette is shown.



Installing on the main unit

- The procedures are the same as those for grille. Install the assembled set, referring to the installation manual for grille.

Photo



Descriptions

Raises drain generated during unit's operation to secure the appropriate angle of the drain pipe.

Applicable Models

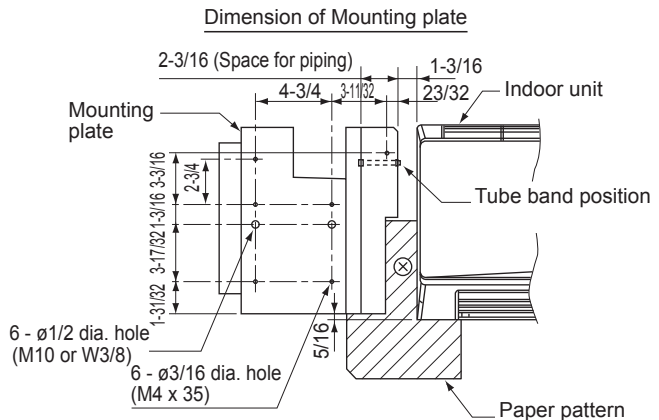
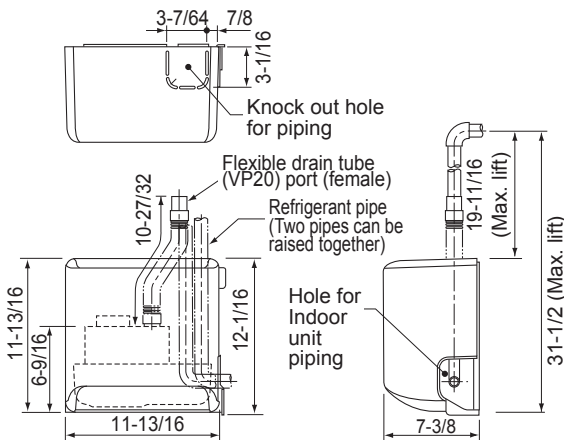
- PKA-A24KA7
- PKA-A30KA7
- PKA-A36KA7

Specifications

Rated voltage	220-240V 50Hz / 60Hz
Power consumption	12 / 10.8W
Operating current	0.114 / 0.092A
Discharge lift	Max. 500 mm from drain pump's top surface
Discharge rate	24ℓ/h or more
External dimensions (inch)	11-13/16 (H) x 11-13/16 (W) x 7-3/8 (D)
Exterior	Cover : ABS resin (Munsell 6.4Y 8.9/0.4)
Driving motor	Single, shading type (Class E insulation)
Drain piping	Connected to drain outlet. PVC pipe VP-20 (O.D. 26) can be used

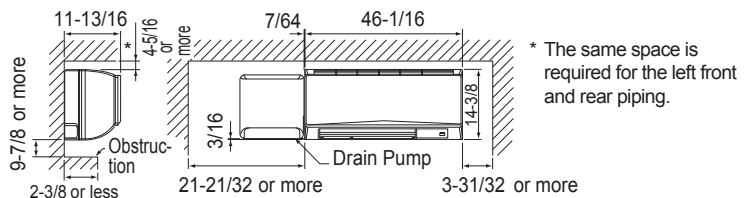
Dimensions

Unit : inch



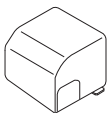

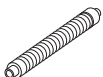




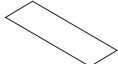
Required space for installation of Drain Pump [Maintenance space]

* In case that there is a rim at the corner of ceiling, consider the dimension of the rim before installation.



Accessories

(Make sure of the following items attached with the Drain Pump before installation.)

(A) Drain Pump	(B) Screw	(C) Drain tube	(D) Drain tube cover	(E) Tube clip	(F) Pull tight	(G) Paper pattern	(H) Wiring plate
 x 1	 (M4 x 16) x 1 (M4 x 35) x 6	 x 1	 x 1	 x 1	 x 1	 x 1	 x 1

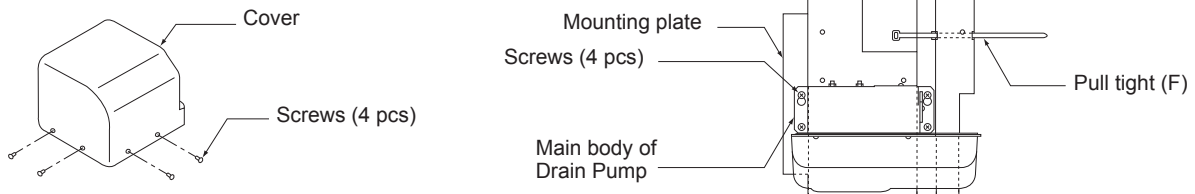
* The items (B) – (F) are packed between main body and cover of the Drain Pump. Take them out after the cover removed.

How to Use / How to Install

1. Before installation of the Drain Pump (* Position the indoor unit first.)

1-1 Set up of the Drain Pump

- Remove the cover and the mounting plate which is fixed on the back of the Drain Pump each.
 - * The packaging material which is put between the cover and the main body of Drain Pump is only for cushion for transportation. Take it out as it is unnecessary.
 - * Take out the accessories.
- Run the pull tight (F) attached through the square hole on the mounting plate.
- Cut the knock out hole on the cover with a nipper and etc.

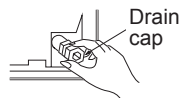


* The screws removed will be used later. Keep them not to lose.

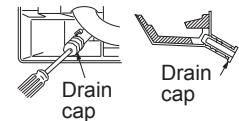
1-2 Set up and installation of the indoor unit (* See the item of piping connection set up in the installation manual of the indoor unit.)

(1) Make the knock out hole for left side piping on the left side panel of the indoor unit.

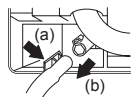
- (2) Pull out the drain cap from the left drain outlet.
- Hold the convex section at the end and pull the drain cap.



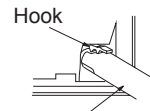
- (4) Insert the drain cap into the right drain outlet.
- Insert a screwdriver or similar tool into the hole at the end of the cap and insert the cap fully into the outlet.



- (3) Remove the drain hose from the indoor unit.
- Hold the end of the drain hose (a) (marked by the arrow) and pull the drain hose out (b).



- (5) Insert the accessory drain hose (C) into the left drain outlet.
- Insert the hose up to the base of the drain pipe connection opening.
 - * Make sure that the hook on the drain hose is securely caught on the projection in the opening in the drain pan.



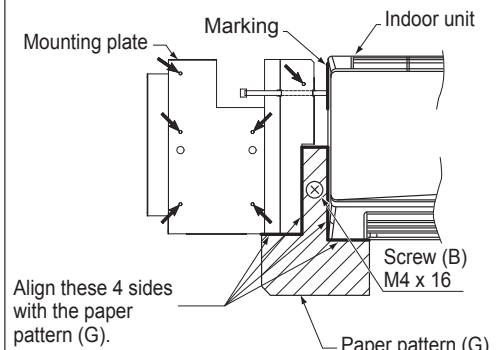
(6) Install the indoor unit.

	CAUTION
	<p>The indoor unit must be installed horizontally. Otherwise, the water can leak and it will make the wall dirty.</p>

2. Installation of the Drain Pump

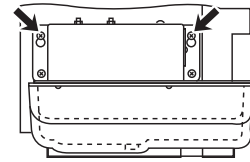
2-1 Fixing of the mounting plate

- The installation place should be carefully considered if it is proper for installation. If it is not strong enough to hold the unit, make it stronger by using board or beam before installation.
- Decide the installation position of the mounting plate by using the paper pattern (G) attached.
 - (* The left end of the indoor unit should be marked in advance.)
 - 1) Fix the paper pattern on the wall with the screw (B) (M4 × 16) attached with putting it to the left end of the indoor unit for positioning of the Drain Pump as shown in the drawing.
 - 2) Position the mounting plate with pushing it against the paper pattern.
 - Fix the mounting plate with the screws (B) (M4 × 35) attached. Fix the mounting plate using the 5 dia. holes. (6 locations pointed by arrows in the drawing.)
In case that the mounting plate is fixed by fixing bolts (through bolts, bolt anchors, or nut anchors), get M10 or W3/8 screws locally and put them into two ø 12 holes of the mounting plate to fix it.
 - When the mounting plates is installed, remove the paper pattern.
 - Check that the mounting plate is level and positioned correctly with the indoor unit. (Refer to Dimensions)



2-2 Installation of the Drain Pump

- Fix the Drain Pump on the mounting plate
- (1) Install the screws to the 2 upper holes (indicated by the arrows shown in right figure) of the mounting plate by hand tightening them about halfway, and then hook the Drain Pump on the screws.
- (2) Level the Drain Pump by using a spirit level. Then tighten the 4 screws securely to fix the Drain Pump.



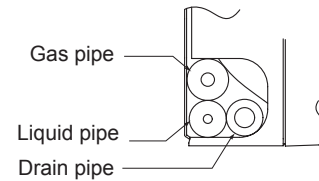
CAUTION

The Drain Pump must be leveled.

Otherwise, the water leaks and it makes wall dirty.

3. Installation of refrigerant piping (* See the item of refrigerant piping connection in the Installation of the indoor unit.)

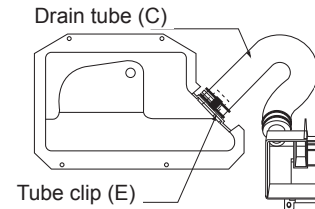
- (1) Install the refrigerant piping using the left piping method.
- (2) When the refrigerant piping and drain pipe are routed vertically together, route the piping through the space in the mounting plate.
 - Be sure that the indoor unit must be positioned at the place where was marked at 2-1.
 - The bending radius of the refrigerant pipe must be R80 or less.
 - The tube raised should be fixed with the pull tight which was put through the square hole of the mounting plate.
- (3) Position the refrigerant piping in the left piping space of the indoor unit as shown in right figure.



4. Installation of drain piping

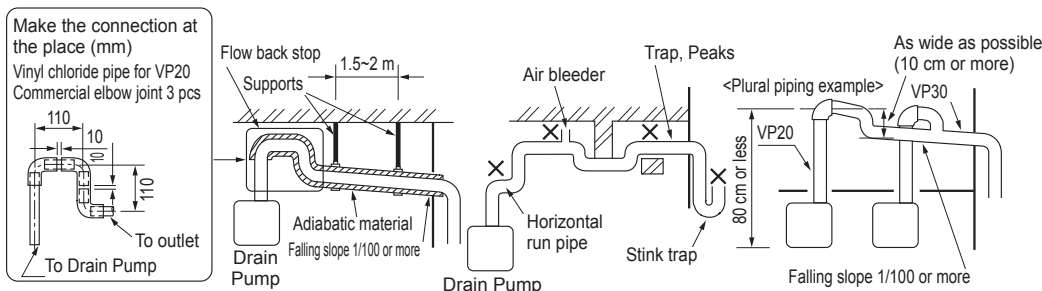
4-1 Connection of drain tube

- (1) Connect the drain tube (C) which is installed to the left side drain port of the indoor unit to the drain port of the Drain Pump.
- (2) Fix the connection port securely with the tube clip (E) attached.
- (3) Connect the flexible drain tube, which is run from the top panel of the Drain Pump, to the local drain piping. The part connected must be closed by vinyl chloride type glue.
- (4) Insulate the flexible drain tube which is run from top panel of Drain Pump with the drain tube cover (D) attached.



4-2 Installation of drain piping

- (1) The drain pipe should be installed in accordance with the following procedure.
 - The drain pipe should be installed so that the outdoor side (drain side) becomes falling slope (1/100 or more) and do not make trap or peaks.
 - The horizontal run of the drain pipe should be 20 m or less. In case that the tube is crosscut sawing for long distance, some support brackets should be installed to prevent the pipe from being wavy. Never install the air bleeder. The drain will blow out.
 - The hard vinyl chloride pipe VP20 (outer dia. 26 mm) should be used for the drain pipe. And the part connected must be closed by vinyl chloride type glue to prevent water leak.
 - Be sure to wrap the drain pipe with adiabatic material (foam polyethylene: specific gravity 0.03, thickness 9 mm or more) available on the market.
 - Do not install stink trap to the outlet of the drain pipe.
 - The outlet of the drain pipe should be installed the place where it is not possible to cause stink.
 - In case that plural drain pipes are installed, install the main pipe so that it comes approximately 10 cm lower than the drain outlet and the pipes must be made of material of VP30 or similar and they should be falling slope (1/100 or more).
 - It is possible to raise the outlet of the drain pipe to 80 cm (max. lift) from bottom face of Drain Pump. However, if there is a horizontal run pipe connected to the vertical section of the drain pipe, water will overflow from the drain pan. This is because too much water will flow back when the operation stops. Therefore, the drain pipe must be raised vertically. Also, install the flow back stop at the highest point to prevent the water from flow back from horizontal part of the pipe. See the drawing below.



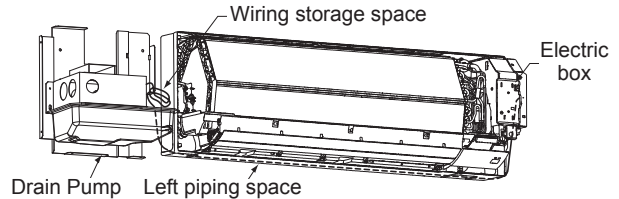
5. Electric wiring

5-1 Set up of the indoor unit (* Confirm that the power is off before starting the installation work.)

- (1) Remove the panel of indoor unit and the electric box cover. (* See the indoor unit installation section in the installation manual of the indoor unit.)

5-2 Electric wiring

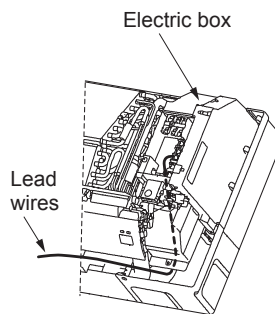
- Route the wiring through the left piping space of the indoor unit to the electric box as shown in right figure.
- Connect the lead wires to the connectors of the indoor unit control board, and then place the slack in the wires in the wiring storage space of the Drain Pump. (Fix the lead wires with the clamps.)



5-3 Electric wiring operation

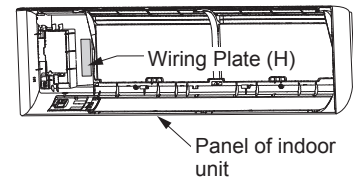
- Pull out the electric box as far as necessary to connect the lead wires to the control board connectors "CNP" and "CN4F".
- Connect the lead wires with connectors to the control board connectors "CNP" and "CN4F". At this time, remove the bypass connector (will be unused) from the terminal CN4F of the control board.
- Be sure not to have the lead wires touch the heat generator (heat sink) on the control board.

Electric wiring operation

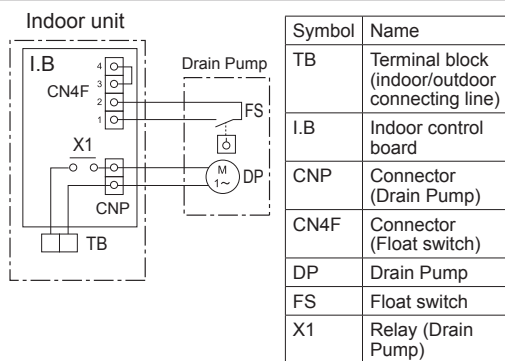


Wiring plate

- Affix the wiring plate (H) to the rear of the panel.

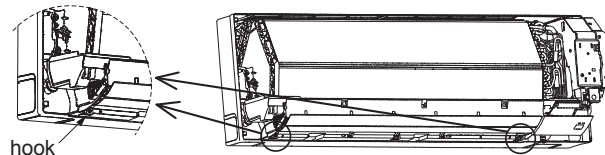


Electric circuit diagram



Note: □ stands for terminal connection.
 □□ stands for connector joint.

- After completing the electric wiring operation, make sure that the hooks are securely caught on the unit, and then put the electric box cover and panel back in place.



6. Test run

- After the installation of the Drain Pump has been completed, make sure that the drain works correctly and the water does not leak from any part of connection.

(1) Pour water

Pour water approximately 800 cc to the drain pan. (* See the drain pipe [checking the drain flow] section in the installation manual of the indoor unit.)

(* If the water is poured too much, it is possible that the drainage does not work due to alarm stop by activation of drain over flow protection device.)

(2) Test run

In accordance with the procedure for test run in the installation manual for the indoor unit, operate the air cooling and make sure that the drainage works and the water does not leak.

* When the Drain Pump is installed in winter season, the water must be drained.

To drain water, remove the drain plug under the Drain Pump. Prepare the pan to receive drain.

When the drainage has been completed, put the drain plug back in place.

(3) After checking, put the cover back in place.

* Make sure that the left end of the indoor unit perfectly comes on the point marked at 2-1. (If they do not match, the cover will not be able to be installed or there will be a gap between the cover and the indoor unit.)

Photo



Descriptions

Raises drain generated during unit's operation to secure the appropriate angle of the drain pipe.

Applicable Models

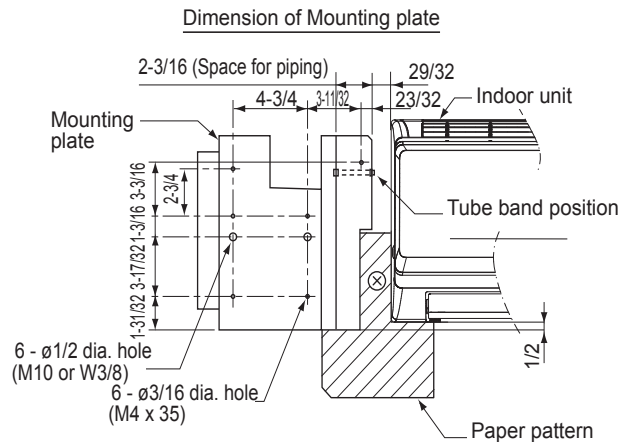
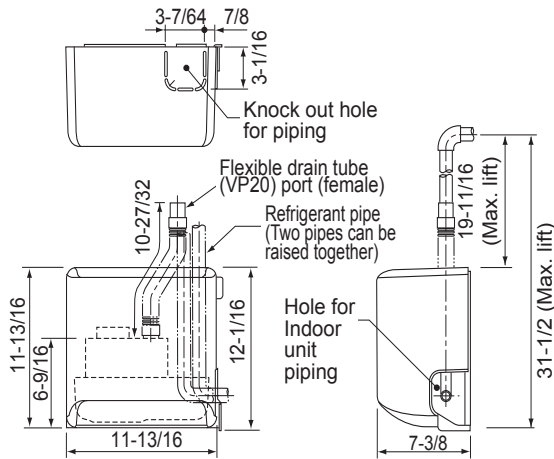
- PKA-A12HA7
- PKA-A18HA7

Specifications

Rated voltage	220-240V 50Hz / 60Hz
Power consumption	12 / 10.8W
Operating current	0.114 / 0.092A
Discharge lift	Max. 500 mm from drain pump's top surface
Discharge rate	24ℓ/h or more
External dimensions (inch)	11-13/16 (H) x 11-13/16 (W) x 7-3/8 (D)
Exterior	Cover : ABS resin (Munsell 6.4Y 8.9/0.4)
Driving motor	Single, shading type (Class E insulation)
Drain piping	Connected to drain outlet. PVC pipe VP-20 (O.D. 26) can be used

Dimensions

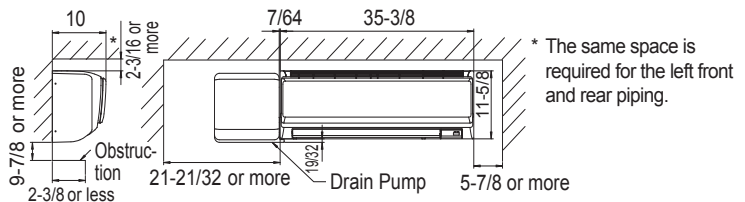
Unit : inch



Required space for installation of Drain Pump

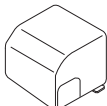







[Maintenance space]

* In case that there is a rim at the corner of ceiling, consider the dimension of the rim before installation.



Accessories

(Make sure of the following items attached with the Drain Pump before installation.)

(A) Drain Pump	(B) Screw	(C) Drain tube	(D) Drain tube cover	(E) Tube clip	(F) Pull tight	(G) Paper pattern	(H) Wiring plate
 x 1	 (M4 x 16) x 1 (M4 x 35) x 6	 x 1	 x 1	 x 1	 x 1	 x 1	 x 1

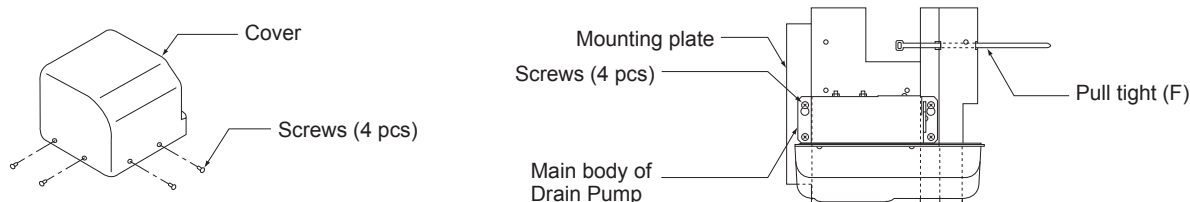
* The items (B) – (F) are packed between main body and cover of the Drain Pump. Take them out after the cover removed.

How to Use / How to Install

1. Before installation of the Drain Pump (* Position the indoor unit first.)

1-1 Set up of the Drain Pump

- Remove the cover and the mounting plate which is fixed on the back of the Drain Pump each.
 - * The packaging material which is put between the cover and the main body of Drain Pump is only for cushion for transportation. Take it out as it is unnecessary.
 - * Take out the accessories.
- Run the pull tight (F) attached through the square hole on the mounting plate.
- Cut the knock out hole on the cover with a nipper and etc.



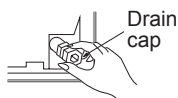
* The screws removed will be used later. Keep them not to lose.

1-2 Set up and installation of the indoor unit (* See the item of piping connection set up in the installation manual of the indoor unit.)

(1) Make the knock out hole for left side piping on the left side panel of the indoor unit.

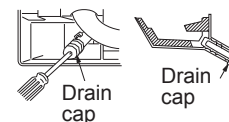
(2) Pull out the drain cap from the left drain outlet.

- Hold the convex section at the end and pull the drain cap.



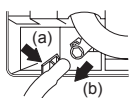
(4) Insert the drain cap into the right drain outlet.

- Insert a screwdriver or similar tool into the hole at the end of the cap and insert the cap fully into the outlet.



(3) Remove the drain hose from the indoor unit.

- Hold the end of the drain hose (a) (marked by the arrow) and pull the drain hose out (b).



(5) Insert the accessory drain hose (C) into the left drain outlet.

- Insert the hose up to the base of the drain pipe connection opening.

* Make sure that the hook on the drain hose is securely caught on the projection in the opening in the drain pan.



(6) Install the indoor unit.

	CAUTION	The indoor unit must be installed horizontally.
	Otherwise, the water can leak and it will make the wall dirty.	

2. Installation of the Drain Pump

2-1 Fixing of the mounting plate

- The installation place should be carefully considered if it is proper for installation. If it is not strong enough to hold the unit, make it stronger by using board or beam before installation.

(1) Decide the installation position of the mounting plate by using the paper pattern (G) attached.

(* The left end of the indoor unit should be marked in advance.)

- Fix the paper pattern on the wall with the screw (B) (M4 × 16) attached with putting it to the left end of the indoor unit for positioning of the Drain Pump as shown in the drawing.
- Position the mounting plate with pushing it against the paper pattern.

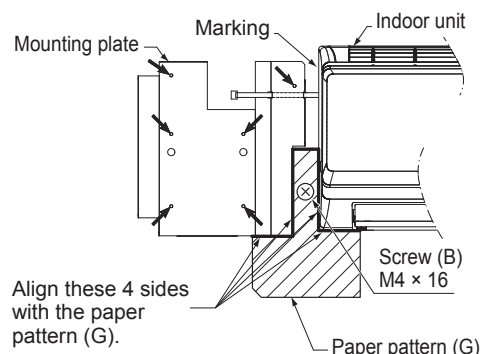
(2) Fix the mounting plate with the screws (B) (M4 × 35) attached. Fix the mounting plate using the 5 dia. holes.

(6 locations pointed by arrows in the drawing.)

In case that the mounting plate is fixed by fixing bolts (through bolts, bolt anchors, or nut anchors), get M10 or W3/8 screws locally and put them into two ø 12 holes of the mounting plate to fix it.

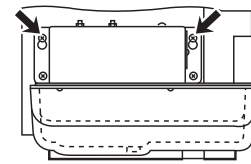
(3) When the mounting plates is installed, remove the paper pattern.

(4) Check that the mounting plate is level and positioned correctly with the indoor unit. (Refer to Dimensions)



2-2 Installation of the Drain Pump

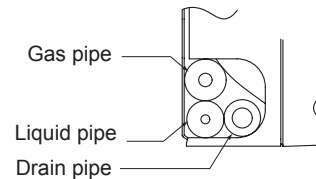
- Fix the Drain Pump on the mounting plate.
- (1) Install the screws to the 2 upper holes (indicated by the arrows shown in right figure) of the mounting plate by hand tightening them about halfway, and then hook the Drain Pump on the screws.
- (2) Level the Drain Pump by using a spirit level. Then tighten the 4 screws securely to fix the Drain Pump.



CAUTION The Drain Pump must be leveled.
Otherwise, the water leaks and it makes wall dirty.

3. Installation of refrigerant piping (* See the item of refrigerant piping connection in the Installation of the indoor unit.)

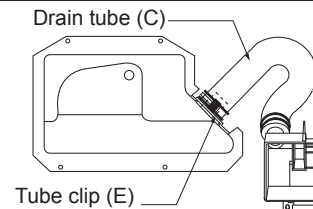
- (1) Install the refrigerant piping using the left piping method.
- (2) When the refrigerant piping and drain pipe are routed vertically together, route the piping through the space in the mounting plate.
 - Be sure that the indoor unit must be positioned at the place where was marked at 4-1.
 - The bending radius of the refrigerant pipe must be R80 or less.
 - The tube raised should be fixed with the pull tight which was put through the square hole of the mounting plate.
- (3) Position the refrigerant piping in the left piping space of the indoor unit as shown in right figure



4. Installation of drain piping

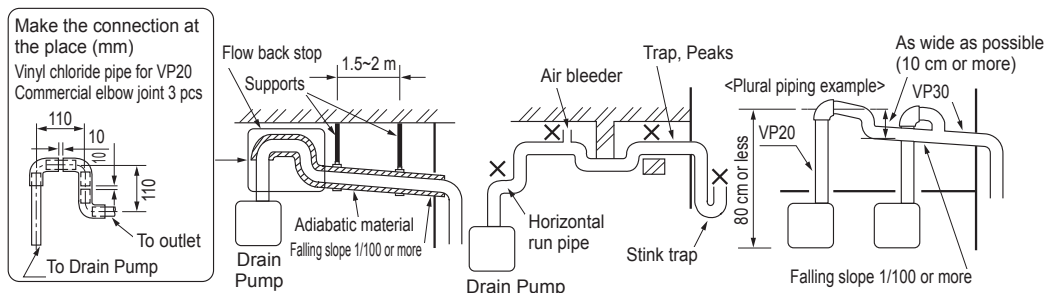
4-1 Connection of drain tube

- (1) Connect the drain tube (C) which is installed to the left side drain port of the indoor unit to the drain port of the Drain Pump.
- (2) Fix the connection port securely with the tube clip (E) attached.
- (3) Connect the flexible drain tube, which is run from the top panel of the Drain Pump, to the local drain piping. The part connected must be closed by vinyl chloride type glue.
- (4) Insulate the flexible drain tube which is run from top panel of Drain Pump with the drain tube cover (D) attached.



4-2 Installation of drain piping

- (1) The drain pipe should be installed in accordance with the following procedure.
 - The drain pipe should be installed so that the outdoor side (drain side) becomes falling slope (1/100 or more) and do not make trap or peaks.
 - The horizontal run of the drain pipe should be 20 m or less. In case that the tube is horizontally run for long distance, some support brackets should be installed to prevent the pipe from being wavy. Never install the air bleeder. The drain will blow out.
 - The hard vinyl chloride pipe VP20 (outer dia. 26 mm) should be used for the drain pipe. And the part connected must be closed by vinyl chloride type glue to prevent water leak.
 - Be sure to wrap the drain pipe with adiabatic material (foam polyethylene: specific gravity 0.03, thickness 9 mm or more) available on the market.
 - Do not install stink trap to the outlet of the drain pipe.
 - The outlet of the drain pipe should be installed the place where it is not possible to cause stink.
 - In case that plural drain pipes are installed, install the main pipe so that it comes approximately 10 cm lower than the drain outlet and the pipes must be made of material of VP30 or similar and they should be falling slope (1/100 or more).
 - It is possible to raise the outlet of the drain pipe to 80 cm (max. lift) from bottom face of Drain Pump. However, if there is a horizontal run pipe connected to the vertical section of the drain pipe, water will overflow from the drain pan. This is because too much water will flow back when the operation stops. Therefore, the drain pipe must be raised vertically. Also, install the flow back stop at the highest point to prevent the water from flow back from horizontal part of the pipe. See the drawing below.



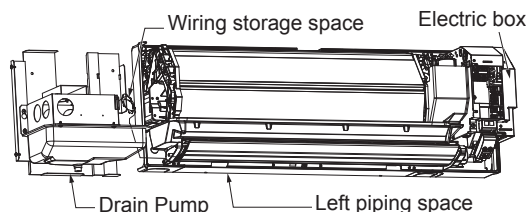
5. Electric wiring

5-1 Set up of the indoor unit (* Confirm that the power is off before starting the installation work.)

- (1) Remove the panel of indoor unit and the electric box cover. (* See the indoor unit installation section in the installation manual of the indoor unit.)

5-2 Electric wiring

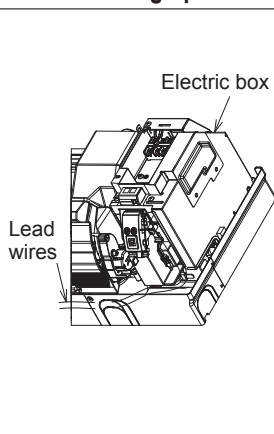
- Route the wiring through the left piping space of the indoor unit to the electric box as shown in right figure.
- Connect the lead wires to the connectors of the indoor unit control board, and then place the slack in the wires in the wiring storage space of the Drain Pump. (Fix the lead wires with the clamps.)



5-3 Electric wiring operation

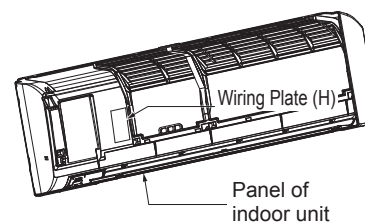
- Pull out the electric box as far as necessary to connect the lead wires to the control board connectors "CNP" and "CN4F".
- Connect the lead wires with connectors to the control board connectors "CNP" and "CN4F". At this time, remove the bypass connector (will be unused) from the terminal CN4F of the control board.
- Be sure not to have the lead wires touch the heat generator (heat sink) on the control board.

Electric wiring operation

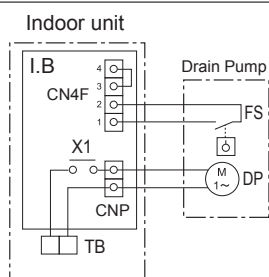


Wiring plate

- Affix the wiring plate (H) to the rear of the panel.



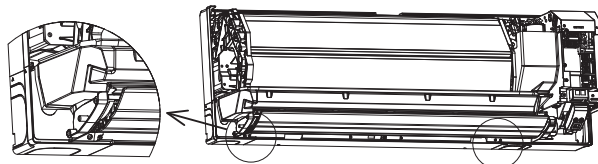
Electric circuit diagram



Symbol	Name
TB	Terminal block (indoor/outdoor connecting line)
I.B	Indoor control board
CNP	Connector (Drain Pump)
CN4F	Connector (Float switch)
DP	Drain Pump
FS	Float switch
X1	Relay (Drain Pump)

Note: □ stands for terminal connection.
 □□ stands for connector joint.

- After completing the electric wiring operation, make sure that the hooks are securely caught on the unit, and then put the electric box cover and panel back in place.



6. Test run

- After the installation of the Drain Pump has been completed, make sure that the drain works correctly and the water does not leak from any part of connection.

(1) Pour water

Pour water approximately 800 cc to the drain pan. (* See the drain pipe [checking the drain flow] section in the installation manual of the indoor unit.)

(* If the water is poured too much, it is possible that the drainage does not work due to alarm stop by activation of drain over flow protection device.)

(2) Test run

In accordance with the procedure for test run in the installation manual for the indoor unit, operate the air cooling and make sure that the drainage works and the water does not leak.

* When the Drain Pump is installed in winter season, the water must be drained.

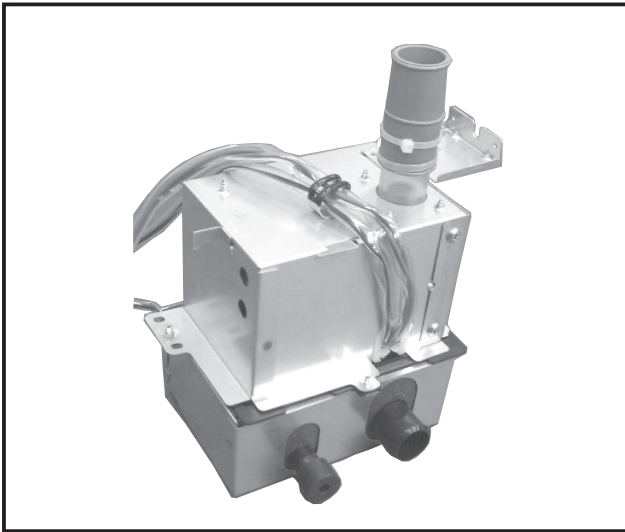
To drain water, remove the drain plug under the Drain Pump. Prepare the pan to receive drain.

When the drainage has been completed, put the drain plug back in place.

(3) After checking, put the cover back in place.

* Make sure that the left end of the indoor unit perfectly comes on the point marked at 2-1. (If they do not match, the cover will not be able to be installed or there will be a gap between the cover and the indoor unit.)

Photo



Descriptions

Raises drain generated during unit's operation to secure the appropriate angle of the drain pipe.

Applicable Models

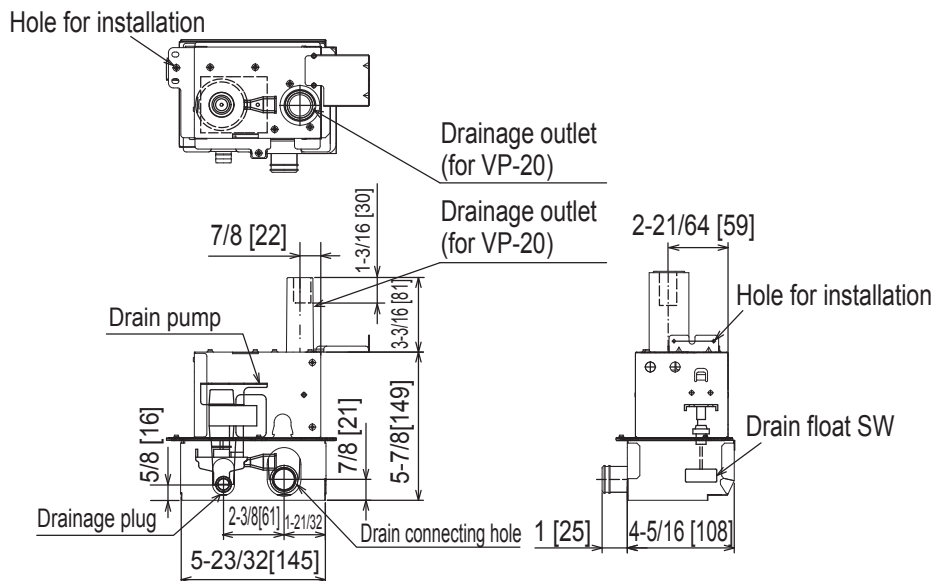
■ PCA-A24/30/36/42KA7

Specifications

Rated power	220V AC, single-phase, 50/60Hz
Power consumption	12/10.8W
Operating current	0.114/0.092A
Drain lift	Max. 600mm from indoor unit's top surface
Discharge rate	24ℓ/h or more
Driving motor	Shading type (Class E insulation)
Drain piping	Connected to drain outlet. PVC pipe VP-20 (O.D.Ø26) can be used.

Dimensions

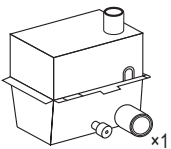
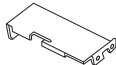


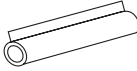
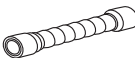

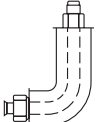
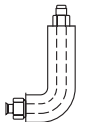


Unit: inch [mm]



How to Use / How to Install

1 Confirming Supplied Accessories

* Before starting installation, make sure that the following accessories are present.

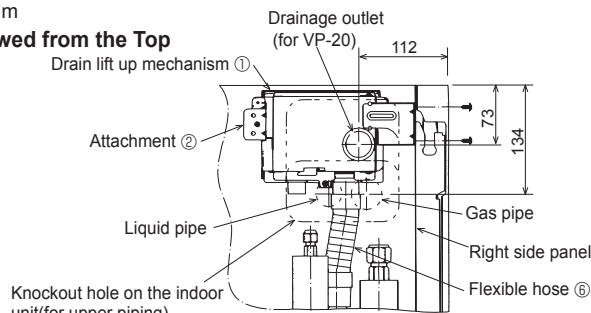
① Drain lift up mechanism  x1	② Attachment  x1 ① Drain lift up mechanism fixture x1	③ Screws (4×10)  x6 For the installation of drain lift up mechanism①	④ VP-20 pipe  x1	⑤ Pipe cover  x1 For insulation of VP20 pipe④	⑥ Flexible hose  x1	⑦ Fastener  x1
⑧ L-shaped pipe (gas pipe)  x1	⑨ L-shaped pipe (liquid pipe)  PAC-SH84 x1	⑩ Insulator A 6t×220×80 (For internal insulation)  x2 For the insulation of L-shaped pipes ⑧ and ⑨ and the refrigerant pipes.	⑪ Insulator B 3t×250×120 (For external insulation)  x2 For the insulation of L-shaped pipes ⑧ and ⑨ and the refrigerant pipes.			

2 Installation Diagram of the Drain lift up mechanism

- * This drain lift up mechanism must be installed inside an indoor unit.
- * Installing this drain lift up mechanism limits to arrange the refrigerant pipe only upward.
- * To facilitate installation of the drain lift up mechanism, it should be installed before indoor unit.
- * The size of the plumbing that must connect, by the refrigerant kind of the indoor unit that corresponds in the case of PAC-SH85DM-E, changes.
- * Please refer to the installation manual of an indoor unit for details.
- * The L-shaped pipes there are bringing are corresponding to either refrigerant plumbing.
- ※1 In case of accessory parts VP-20pipe ④ and pipe cover ⑤ do not have enough length because the lifting height is high, please supply locally.

Unit:mm

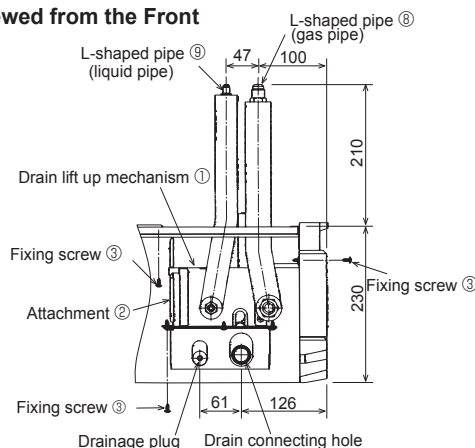
Viewed from the Top



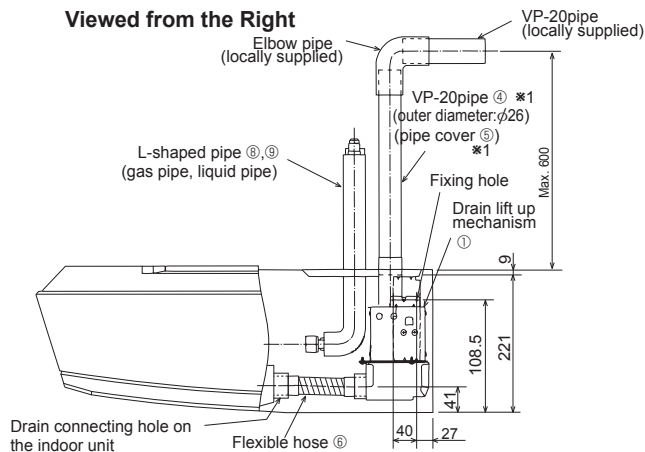
<Table 1>

Gas pipe	Liquid Pipe	Drain lift up mechanism Model
φ15.88	φ9.52	PAC-SH84

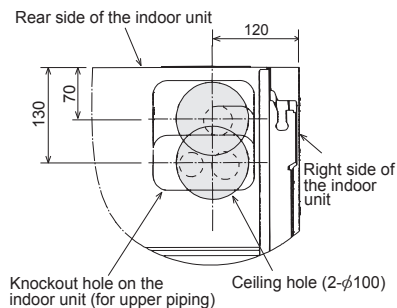
Viewed from the Front



Viewed from the Right

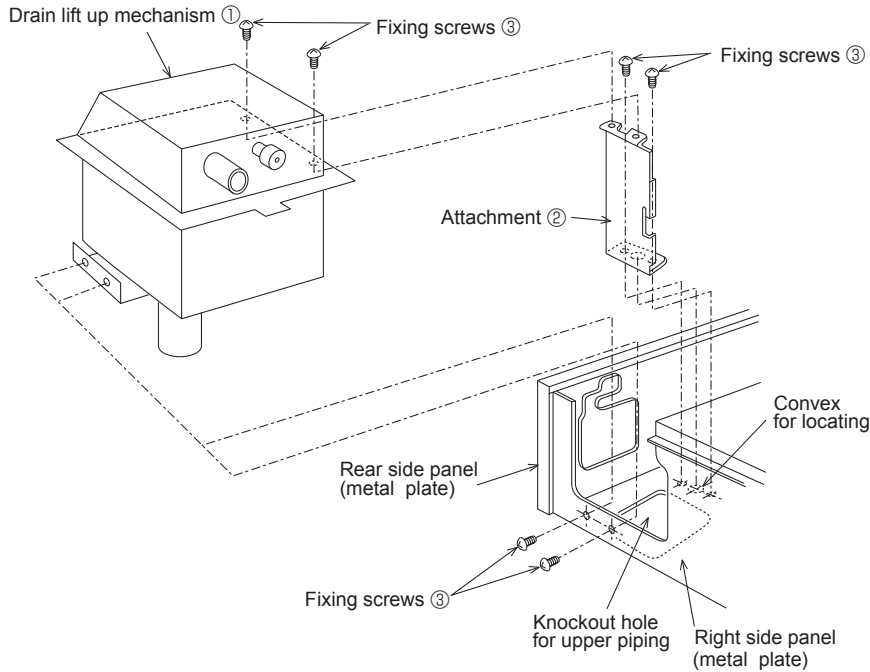


Positions of Holes on the Ceiling



3 Installing the Drain lift up mechanism

1. Remove the intake grille and side panel. (Refer to the indoor unit installation manual.)
2. Prepare the knockout hole to be used for the upper piping of the indoor unit.
3. Fix the attachment ② with the fixing screws ③ (×2)
4. Fix the drain lift up mechanism ① with the fixing screws ③ (×4)



4 Refrigerant Piping

*For details on piping, refer to the installation manual of the indoor unit.

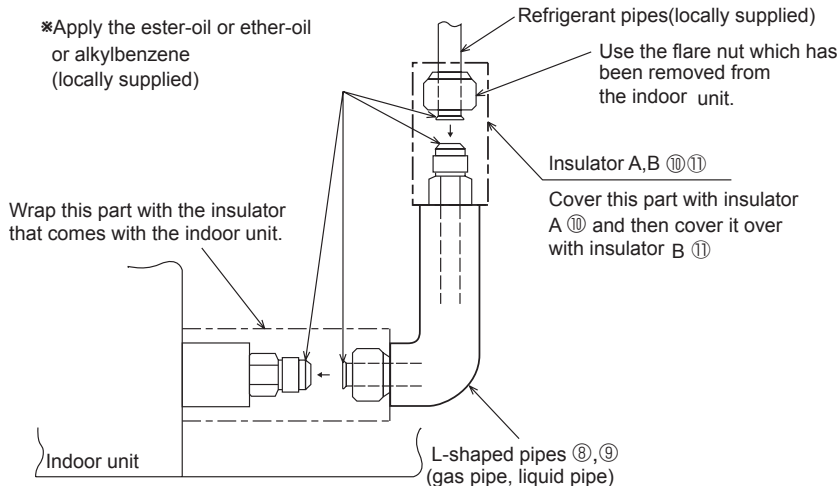
[With the stop valve of the outdoor unit fully closed]

1. Apply lubricant to the flare sheet of the L-shaped pipes (gas pipe, liquid pipe) ⑧⑨.
2. Remove the flare nut and cap from the indoor unit.
3. Apply lubricant to the flare sheet connecting section of the indoor unit.
4. Connect the L-shaped pipes (gas pipe, liquid pipes) ⑧ and ⑨ quickly.
5. Fit the removed flare nut to the existing pipes and carry out flaring.
6. Connect the L-shaped pipes with the existing pipes in the same way.
7. Cover each connection with heat insulator ⑩⑪

[After the refrigerant circuit is complete]

8. Vacuumize the refrigerant lines through the service port of the liquid stop valve.
9. Fully open the stop valves (both liquid and gas).

* The method for operating the stop valve is described on the outdoor unit installation manual.



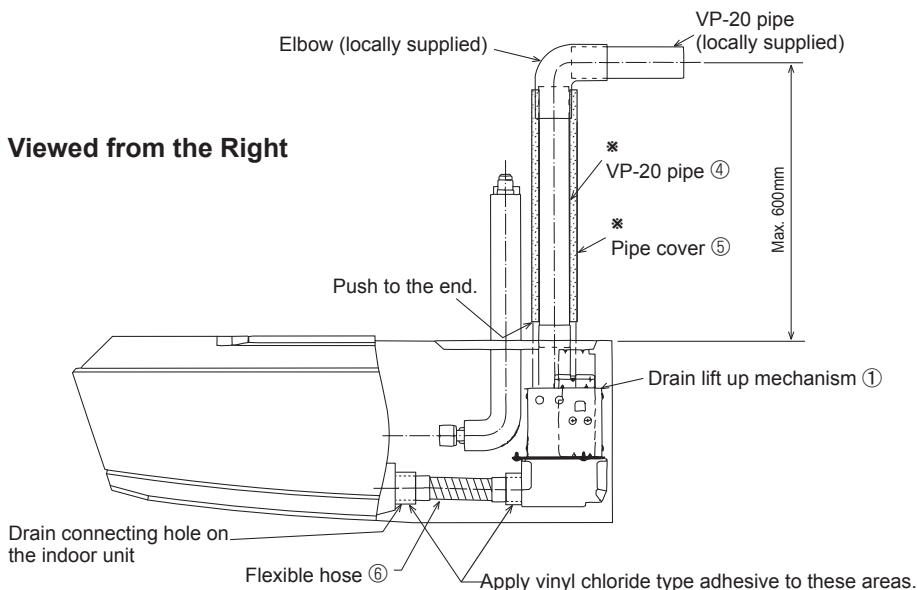
5 Drain Piping

* In case of accessory parts VP-20 pipe ④ and pipe cover ⑤ do not have enough length because the lifting height is high, please purchase procure supply locally.

***For details on piping, refer to the installation manual of the indoor unit.**

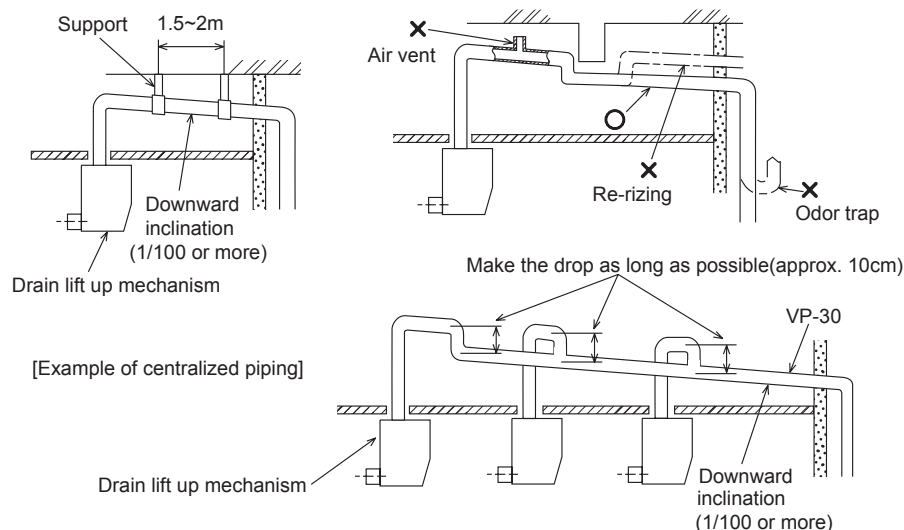
1. Apply vinyl chloride type adhesive to the drainage outlet of the drain lift up mechanism ①, then insert the VP-20 pipe ④ into it, (30mm deep)
2. Connect the VP20 pipe ④ and existing drain pipe using a 90-degree elbow etc. and adhesive.
3. Cover the VP-20 pipe ④ with the pipe cover ⑤.
4. Apply vinyl chloride type adhesive to the drain lift up mechanism ① and drain connecting hole on the indoor unit, then insert the flexible hose ⑥ into them. Take care that the hose does not twist.

***Insulate all pipes, from the drain lift up mechanism up to the outside.**



[Make sure to follow the following points during drain piping.]

- *Drain lifting height must be less than 600mm.
- *Incline the drain pipe downwards (1/100 or more) to the drainage side (outdoor).
- *Do not create traps or peaks.
- *Keep the horizontal piping within 20m. Use fixtures to prevent the pipe from waving.
- *Do not install air vent pipes. The drainage may spout out.
- *Use general-purpose hard vinyl chloride pipes (outer diameter:φ26) and apply vinyl chloride type adhesive to prevent any leakage.
- *Cover with insulator (made of foamed polyethylene, with specific gravity of 0.03 thickness of 9mm or more).
- *Do not install odor trap at the drain outlet.
- *Locate the end of pipe at a point where odor is unlikely to occur.
- *Do not insert the pipe directly into a drainage ditch where sulfur gas may be produced.
- *Use VP-30 pipes for centralized piping. Install the centralized drain pipe approximately 10cm below the output of pipes connected from the drain lift up mechanism.

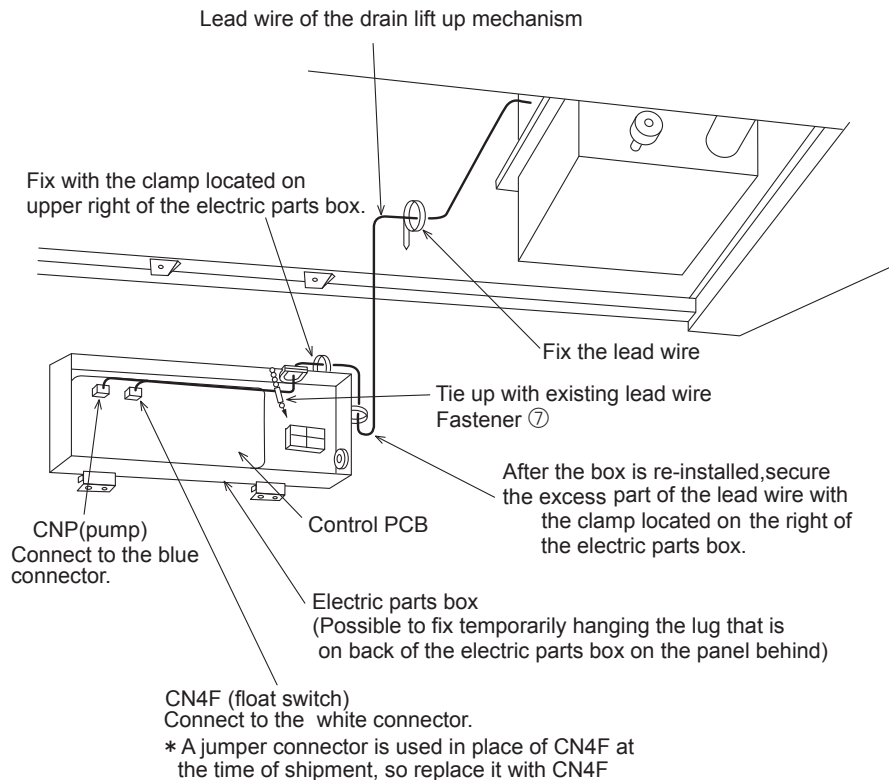
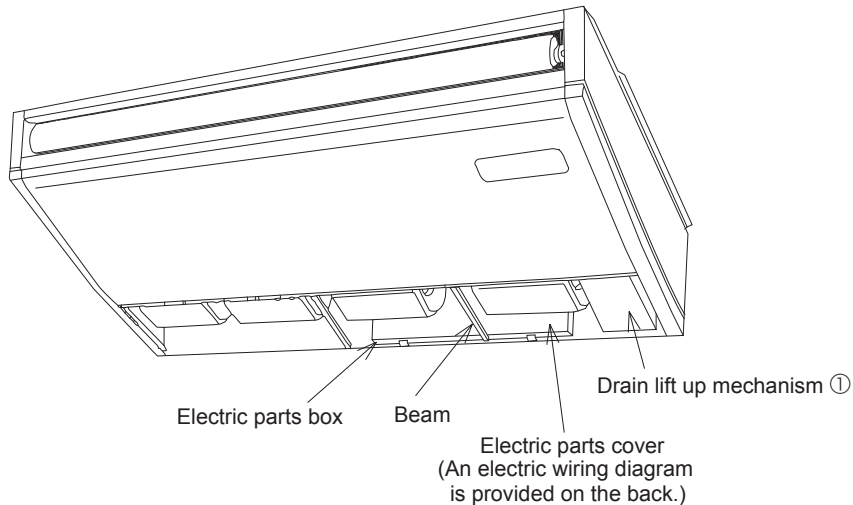


6 Electric Wiring

*Refer to the installation manual of the indoor unit together with this manual.

*Perform the work after checking that the power supply is off.

- 1.Remove the beam.
- 2.Remove the electric parts cover.
- 3.Pull the electric parts box downwards.
- 4.Connect the lead wire of drain lift up mechanism to the CNP and CN4F connectors provided on the control PCB of the indoor unit.
- 5.Tie up the lead wires with the fastener ⑦ so that the wires do not come apart inside the electric parts box.
- 6.When the wiring is finished, re-install the electric parts box, its cover and the beam.



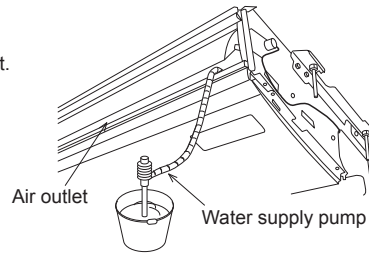
* The positions of the connectors which must be connected to the control PCB in certain models differ from those specified in the above diagram. Make sure that the lead wire are connected to CNP and CN4F connectors.

7 Test Run

*Through this test run, check that drainage is discharged properly and that there is no water leakage from any of the connections.
*Refer to the installation manual of the indoor unit together with this manual.

1. Supplying water

Supply approximately 1000cc of water to the air outlet.



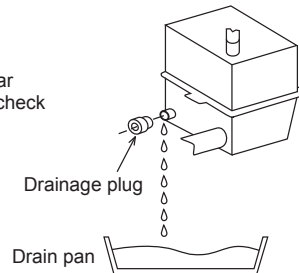
2. Carrying out a test run

- (1) Turn the power ON.
- (2) Press the TEST RUN button on the remote controller twice.
- (3) Press the MODE button to select cooling mode.
*The drain lift up mechanism will be activated to start discharging the water.
- (4) Check whether water is discharged properly.
- (5) Press the POWER ON/OFF button to cancel the test run.
- (6) Turn the power OFF.

3. Re-install each part after checking.

*If the drain lift up mechanism is installed at the time of the year when heating is used, make sure that the water for the drain check has been removed.

After removal of the water, reinstall the drainage plug.



Photo



Descriptions

Allows for a Mitsubishi Electric indoor unit to communicate with to the kumo cloud™ app and web.

Applicable Models

- MSZ-FH06/09/12/15NA
- MSZ-FH18NA2
- MSZ-EF09/12/15/18NAW(B)(S)
- MSZ-GL06/09/12/15/18/24NA
- MSZ-D30/36NA
- MSY-GL09/12/15/18/24NA
- MSY-D30/36NA
- MFZ-KJ09/12/15/18NA
- SLZ-KA09/12/15NA
- SEZ-KD09/12/15/18NA4
- MVZ-A09/12/15/18/24AA4
- PKA-A12/18HA7
- PKA-A24/30/36KA7
- PCA-A24/30/36/42KA7
- PLA-A12/18/24/30/36/42EA7
- PEAD-A12/18/24/30/36/42AA7
- PVA-A12/18/24/30/36/42AA7

Specifications

Input Voltage	DC12.7V (from indoor unit)
Power consumption	MAX 2W
Size W×H×D (mm,inch)	17.526×46.228×74.168, 0.69×1.82×2.92
RF channel	1ch ~ 11ch
Usgae environment	Temperature 32 ~ 104°F (0 ~ 40°F)

About Wireless Interface

This Wireless Interface will communicate status information and control the connected air conditioner.

- Some room air conditioners are not compatible with the Wireless Interface.

Make sure that the room air conditioner is compatible with the Wireless Interface before attempting to install the Wireless Interface.

Connecting the Wireless Interface

Note: Installation should be conducted by a professional installer.

- Turn off and verify the power has been disconnected to the complete air-conditioning system
- Dismantle the indoor unit in accordance with the service manual and locate CN105 on the main control PCB
- Connect the cable on the PAC-USWHS002-WF-1 to the CN105 connector on the indoor unit
- PAC-USWHS002-WF-1 may be attached on or in close vicinity to the indoor unit. Attach one strip to the PAC-USWHS002-WF-1 and the other to the installation site. Align the strips and press to securely attach the PAC-USWHS002-WF-1 to the installation site.
- Start up: Refer to the PAC-USWHS002-WF-1 Install guide located at <https://meus.mylinkdrive.com/item/PAC-USWHS002-WF-1.html>.

Photo



Descriptions

Allows a HVAC Thermostat or I/O Controller to control a MitsubishiElectric Cooling & Heating CITY MULTI® or M-Series or P-Series indoor unit.

Applicable Models

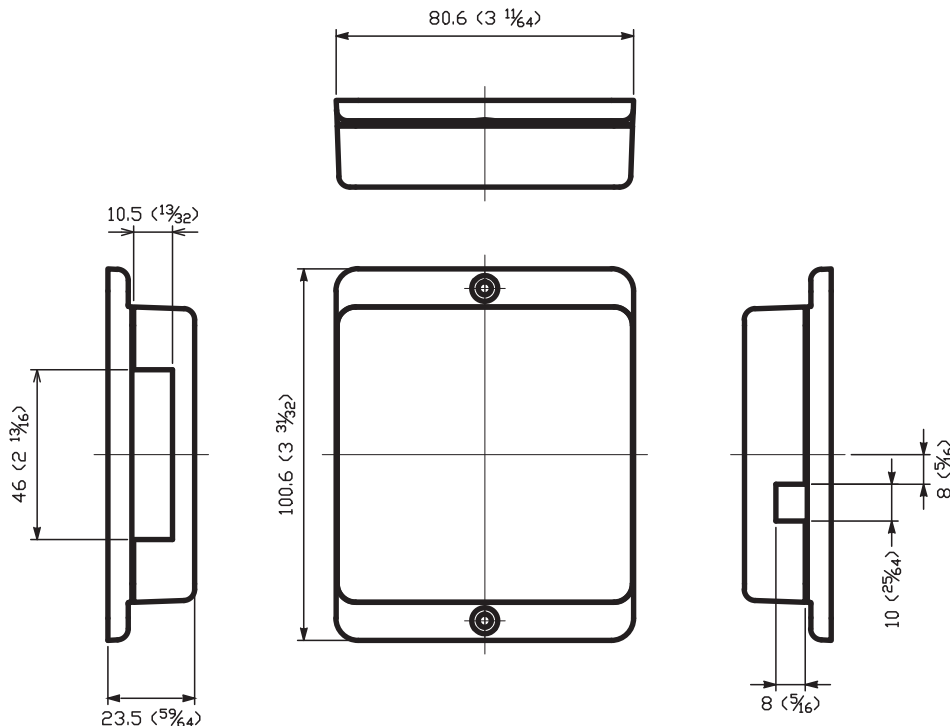
- MSZ-FH06/09/12/15NA
- MSZ-FH18NA2
- MSZ-EF09/12/15/18NAW(B)(S)
- MSZ-GL06/09/12/15/18/24NA
- MSZ-HM09/12/15/18/24NA
- MSZ-D30/36NA
- MSY-GL09/12/15/18/24NA
- MSY-D30/36NA
- MFZ-KJ09/12/15/18NA
- SLZ-KA09/12/15NA
- SEZ-KD09/12/15/18NA4
- MVZ-A12/18/24/30/36AA4
- PKA-A12/18HA7
- PKA-A24/30/36KA7
- PCA-A24/30/36/42KA7
- PLA-A12/18/24/30/36/42EA7
- PEAD-A12/18/24/30/36/42AA7
- PVA-A12/18/24/30/36/42AA7

Specifications

Indoor unit mode	Cool, Heat, Fan, and Off
Provide 3 input terminals to control fan speed control	High, Medium, Low
Addressing	No addressing required
Connection	CN105 - IT Terminal
Dimensions(H×W×D) [in]	3.96×3.17×0.93
Terminal Block	20 - 30 VAC Rated

Dimensions

Unit : mm [inch]



System Configuration

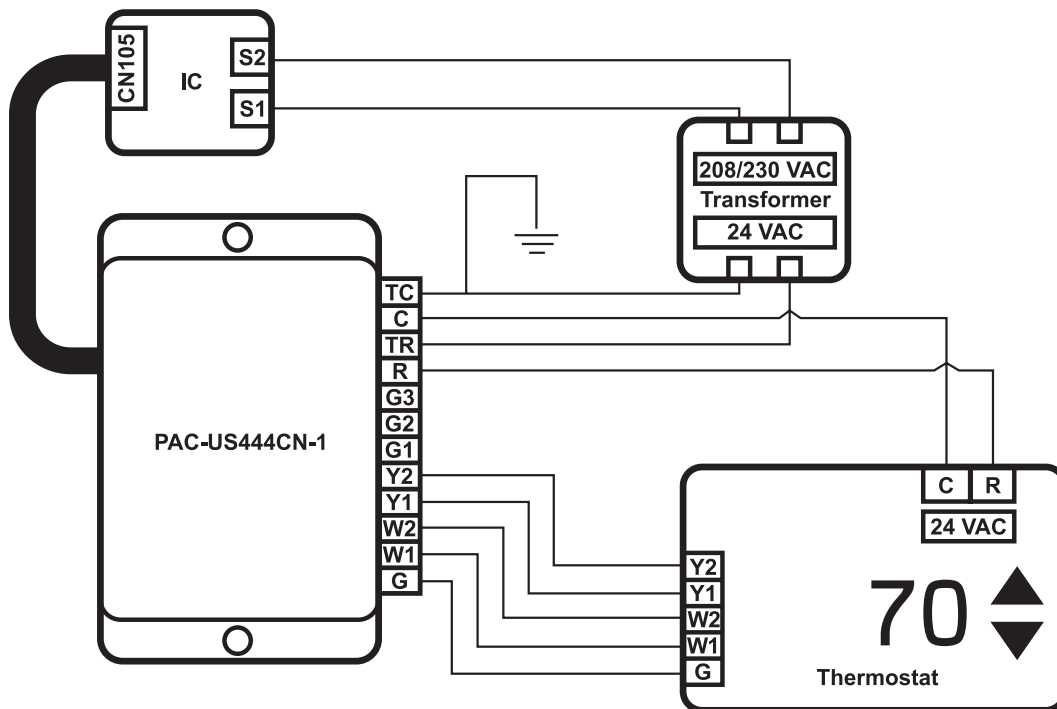
Warning: Thermostat should be configured for use with a conventional system (not heat pump).

Note: When either Y2 or W2 is left unconnected, it is recommended to set SW2-6 to the OFF position.

1. All wiring shown should be performed with 18 AWG thermostat wire.
2. Terminals on the PAC-US444CN-1 support 20-30VAC.
3. High/medium/low fan signals are optional, and may not be available on all thermostat models.
4. W2 and Y2 signals are optional, and may be omitted for single-stage thermostats.

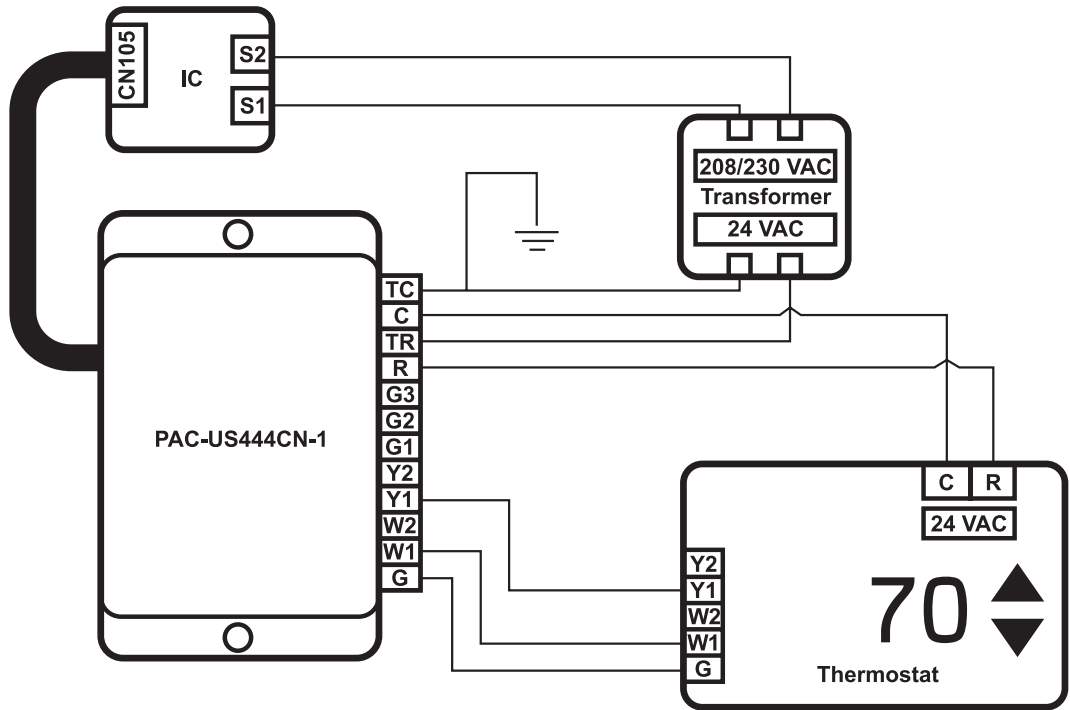
Example 1: Two-stage Cooling and Heating

Note: When both Y2 and W2 are connected, it is recommended to set SW2-6 to the ON position.



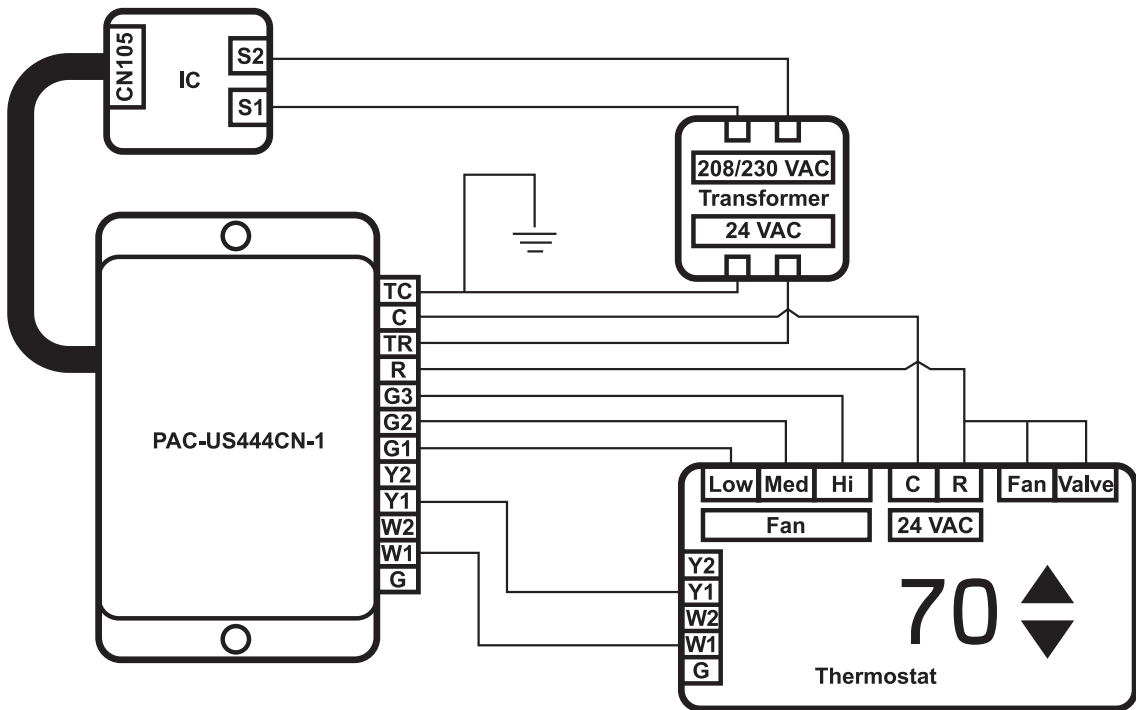
Example 2: Single-stage Cooling and Heating

Note: When either Y2 or W2 is left unconnected, it is recommended to set SW2-6 to the OFF position.



Example 3: Single-stage Cooling and Heating with Dedicated Fan Speed Relays

Note: When connecting only first stage signals (Y1/W1), it is recommended to set SW2-6 to the OFF position.



Example 4: Single-stage Cooling with Alternate Primary Heating Source

Note: For this configuration, it is recommended to set SW2-6 to the OFF position.

Follow the wiring from example 2, with the following adjustments:

1. Connect thermostat W1 to the alternate heat source.
2. Connect the thermostat W2 terminal to the PAC-US444CN-1 W1 terminal.

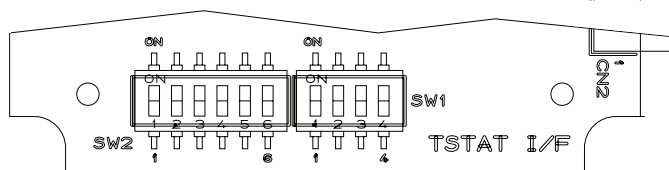
Connector	Purpose	Purpose
TC	Common (In)	C
C	Common (Out)	C
TR	24VAC (In)	R
R	24VAC (Out)	R
G3	Fan High	High Fan Speed
G2	Fan Medium	Medium Fan Speed
G1	Fan Low	Low Fan Speed
Y2	Y2	Stage 2 Cooling
Y1	Y1	Stage 1 Cooling
W2	W2	Stage 2 Heating
W1	W1	Stage 1 Heating
G	G	Fan

How to Install

1. Choose a place where to install the PAC-US444CN-1. The device provides two mounting holes that can be used to mechanically affix the case to a solid surface. Double-sided tape may be used to affix the device. When using tape, ensure that the tape is approved for use within the anticipated operating temperature ranges.
2. Install the transformer, as necessary, per building code and manufacturer's installation instructions.
3. Connect the PAC-US444CN-1 cable to the connector CN105 on the indoor unit control board.
4. Connect PAC-US444CN-1 terminals using 18 AWG wire.

Device Configuration

Initial settings can be configured via the two banks of dip switches on the circuit board, SW1 and SW2. The circuit board can be accessed by unfastening the four screws on the back of the case.



DIP Switch Definitions (Factory default is OFF for all switches):

Delayed Off

SW1-1/2: After reaching thermostat set point, the unit will continue to run for a set period of time in order to improve efficiency. The period of time is set by adjusting SW1-1 and SW1-2 according to the following table:

SW1-1	SW1-2	Result
OFF	OFF	5 minutes (Default)
ON	OFF	10 minutes
OFF	ON	30 minutes
ON	ON	0 minutes

SW1-3/4: The indoor unit fan speed can be adjusted via the following settings:

SW1-3	SW1-4	Result
OFF	OFF	Auto (Default)
ON	OFF	Medium
OFF	ON	High
ON	ON	Custom Auto

Note: Custom Auto provides more comfortable fan speed operation vs. the more efficient Auto (default).

Two-Stage Thermostat Operation

SW2-6: Adjusts indoor unit operation during stage 1 heating and stage 1 cooling according to the following table:

SW2-6	Operation during stage 1
OFF	Full capacity
ON	The capacity is adjusted so that the room temperature is adjusted (heated or cooled) at a fixed rate.

Note: When either Y2 or W2 is left unconnected, it is recommended to set SW2-6 to the OFF position. When both Y2 and W2 are connected, it is recommended to set SW2-6 to the ON position.

Static Pressure Settings

SW2-1, SW2-2, SW2-3: These adjust the static pressure function settings of the indoor unit according to the following table:

DIP switch position on PAC-US444CN-1			Indoor Unit Settings			
SW2-1	SW2-2	SW2-3	Mode 8	Mode 10	Mode 23	Mode 11
OFF	OFF	OFF	Not set	Not set	Not set	Not set
OFF	OFF	ON	Not set	Not set	Not set	Not set
OFF	ON	OFF	2	1	Set by SW2-4	2
OFF	ON	ON	2	2	Set by SW2-4	2
ON	OFF	OFF	1	1	Set by SW2-4	2
ON	OFF	ON	1	2	Set by SW2-4	2
ON	ON	OFF	3	1	Set by SW2-4	2
ON	ON	ON	3	2	Set by SW2-4	2

**Refer to the appropriate Indoor Unit Installation Manual for Mode 8 and Mode 10 function setting definitions.*

CN24 Operation During Defrost

SW2-4: Adjusts Mode 23 function settings according to the following table:

SW2-4	Result	Fan and CN24
OFF	Setting 2 (Default)	ON
ON	Setting 1	OFF

**Refer to the appropriate Indoor Unit Installation Manual for Mode 23 function setting definitions.*

Fan Speed During Heating Mode, Thermal Off

SW2-5: Adjusts Mode 25 initial setting (fan speed in thermal off for heating) according to the following table:

SW2-5	Result
OFF	Extra low (Default)
ON	Set by Thermostat Interface

In addition, the adapter also affects the following function settings of the connected indoor unit:

Mode	When using the adapter
Mode 1 (auto recovery after power failure)	Always enabled
Mode 2 (room temperature detection location)	Unused (room temperature detected by the connected thermostat)
Mode 24 (heat offset for height)	Unused

Additional function settings not addressed by the thermostat interface may be configured by temporarily connecting an MA remote controller.

Grouping

The connection of more than one PAC-US444CN-1 to a single set of thermostat dry-contacts is not supported.

Temperature Sensing

The PAC-US444CN-1 relies upon both the dry-contact thermostat and the indoor unit's thermistors in order to monitor room temperature. The thermostat's temperature sensing is used to set the room temperature. The indoor unit thermistor is used when calculating cooling and heating rates of change.

Usage

Operate the third-party thermostat per the manufacturer's instructions. During normal operation, the connection of Mitsubishi remote controllers (e.g. MA/ME) is not supported, as they will interfere with the correct operation of the PAC-US444CN-1.

Notes:

1. The indoor unit will limit the internal temperature control set point based on the indoor unit specification.
2. Fan signals G1,G2,G3, when energized, take precedence over SW1-3&4.
3. Only fan speeds available on the IDU can be set by the Thermostat Interface.
4. The G signal is used only for operating the IDU in ventilation mode when all cooling and heating signals are disabled.
5. When all cooling and signals are disabled, energizing G will place the IDU into ventilation mode.



Figure



Descriptions

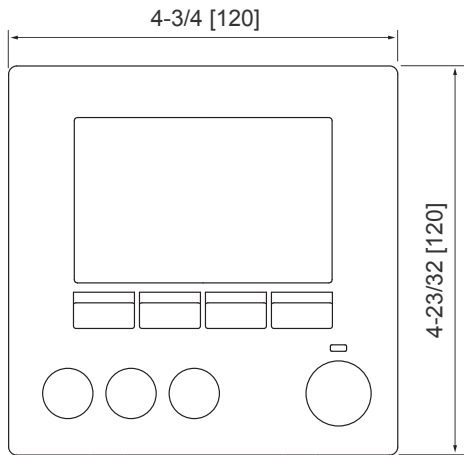
Advanced MA remote controller with the large size dot liquid crystal display. Multi-language display and weekly timer function are available.

Applicable Models

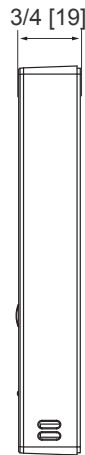
- MSZ-FH06/09/12/15NA *
 - MSZ-FH18NA2 *
 - MSZ-FE09/12NA *
 - MSZ-EF09/12/15/18NAW(B)(S) *
 - MSZ-GL06/09/12/15/18/24NA *
 - MSZ-HM09/12/15/18/24NA *
 - MSZ-D30/36NA *
 - MSY-GL09/12/15/18/24NA *
 - MSY-D30/36NA *
 - MFZ-KJ09/12/15/18NA *
 - SLZ-KA09/12/15NA
 - SEZ-KD09/12/15/18NA4
 - MVZ-A12/18/24/30/36AA4
 - PKA-12/18HA7
 - PKA-A24/30/36KA7
 - PCA-A24/30/36/42KA7
 - PLA-A12/18/24/30/36/42EA7
 - PEAD-A12/18/24/30/36/42AA7
 - PVA-A12/18/24/30/36/42AA7
- * MAC-333IF-E required

Dimensions

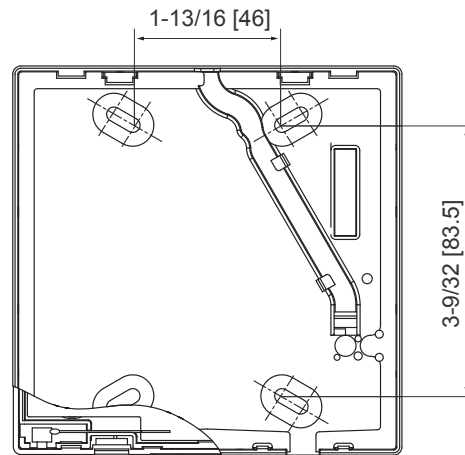
Unit : inch [mm]



(Front view)



(Side view)



(Rear view)

Specifications

External colors	Cover	Clear white (Munsell 1.0Y 9.2/0.2)
	LCD peripheral area	Medium gray

How to Use / How to Install

1. System Requirements

WARNING	The CD-ROM that is supplied with the unit can only be played on a CD-drive or a DVD-drive. Do not attempt to play this CD-ROM on an audio CD player as this may damage your ears and/or speakers.
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Your computer must meet the following requirements to run Manual Navigation Software.

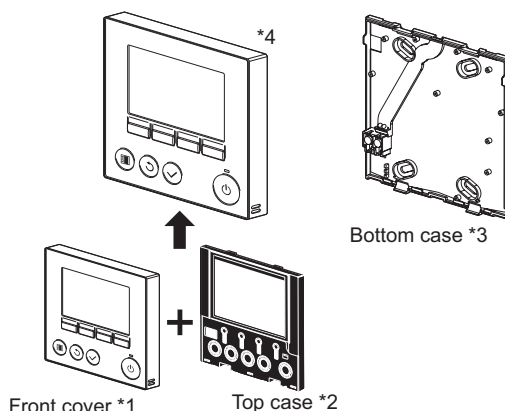
- [PC] PC/AT compatible
- [CPU] Core2 Duo 1.66 GHz or faster (Core2 Duo 1.86 GHz or faster recommended)
Pentium D 1.7 GHz or faster (Pentium D 3.0 GHz or faster recommended)
Pentium M 1.7 GHz or faster (Pentium M 2.0 GHz or faster recommended)
Pentium 4 2.4 GHz or faster (Pentium 4 2.8 GHz or faster recommended)
* Core2 Duo or faster processor is required to run Manual Navigation Software on Windows Vista or later.
- [RAM] Windows Vista or later: 1 GB minimum (2 GB or more recommended)
Windows XP: 512 MB minimum (1 GB or more recommended)
- [HDD space] 1 GB minimum (available space)
* Windows Vista or later: Available space in the drive that has the Document folder
* Windows XP: Available space in the drive that has the My Document folder
- [Resolution] SVGA 800 × 600 or greater
- [OS] Windows8/Pro/Enterprise (Pro recommended)
Windows7 Ultimate/Enterprise/Professional/Home Premium Service Pack1 (Professional recommended)
Windows Vista Ultimate/Business/Home Basic Service Pack1 (Business version recommended)
Windows XP Professional/Home Edition Service Pack2 or Service Pack3 (Professional version recommended)
- [Required software] Windows8: Adobe Reader 11.0.2 or later (Windows Reader, installed by default in Windows8, cannot be used.)
Windows7: Adobe Reader 10.1.0 or later
Windows XP and Windows Vista: Adobe Reader 8.1.3 or later
* Software to view PDF files

"Windows", "Windows XP", "Windows Vista", "Windows7" and "Windows8" are registered trademarks of Microsoft Corporation.
"Adobe Reader" and "Adobe Acrobat" are registered trademarks of Adobe Systems Incorporated.
"Core2 Duo" and "Pentium" are registered trademarks of Intel Corporation.

2. Component names and supplied parts

The following parts are included in the box.

Parts name	Qty.	Appearance
Remote controller (front cover)	1	Right figure *1
Remote controller (top case)	1	Right figure *2
Remote controller (bottom case)	1	Right figure *3
Roundhead cross slot screws M4×30	2	
Wood screw 4.1×16 (for direct wall installation)	2	
Installation Manual (this manual)	1	
Simple Operation Manual	1	
CD-ROM (Instruction Book and Installation Manual)	1	



- *4 The front cover (*1) is already installed on the top case (*2) at factory shipment.
- *5 Remote controller cable is not included.

3. Field-supplied parts/Required tools

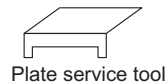
(1) Field-supplied parts

The following parts are field-supplied parts.

Parts name	Qty.	Notes
Double switch box	1	Not required for direct wall installation
Thin metal conduit	Necessary	
Lock nut and bushing	Necessary	
Cable cover	Necessary	Required for routing remote controller cable along a wall
Putty	Reasonable	
Molly anchor	Necessary	
Remote controller cable (Use a 0.3 mm ² (AWG22) 2-core sheathed cable.)	Necessary	

(2) Field-supplied tools

- Flat-tip screwdriver (Width: 4-7 mm (5/32-9/32 inch)) or Plate service tool (Part No.R61008235)
- Nipper
- Miscellaneous tools



4. Selecting an installation site

This remote controller is for the wall installation. It can be installed either in the switch box or directly on the wall. When performing direct wall installation, wires can be thread through either back or top of the remote controller.

(1) Selecting an installation site

Install the remote controller (switch box) on the site where the following conditions are met.

- (a) For connection to the indoor unit with an Auto descending panel, a place where people can check the Auto descending panel operation of the indoor unit while they are operating the remote controller (Refer to the indoor unit Instructions Book for how to operate Auto descending panel.)
- (b) A flat surface
- (c) A place where the remote controller can measure the accurate indoor temperature
 - Sensors to monitor indoor temperature are on the indoor unit and on the remote controller. When the room temperature is monitored with the sensor on the remote controller, the main remote controller monitors the room temperature. When using the sensor on the remote controller, follow the instructions below.
 - To monitor the accurate indoor temperature, install the remote controller away from direct sunlight, heat sources, and the supply air outlet of the air conditioner.
 - Install the remote controller in a location that allows the sensor to measure the representative room temperature.
 - Install the remote controller where no wires are routed around the temperature sensor on the controller.
(If wires are routed, the sensor cannot measure accurate indoor temperature.)

Important

Do not install the controller in a place where the difference between the remote controller surface temperature and the actual room temperature will be great. If the temperature difference is too high, room temperature may not be adequately controlled.

To avoid deformation and malfunction, do not install the remote controller in direct sunlight or where the ambient temperature may exceed 40°C (104°F) or drop below 0°C (32°F).

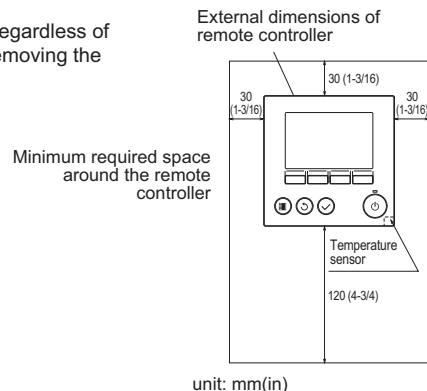
To reduce the risk of shorting, current leakage, electric shock, malfunctions, smoke, or fire, do not install the controller in a place exposed to water or in a condensing environment.

To reduce the risk of malfunctions and damage to the controller, avoid installing the remote controller on an electrically conductive surface, such as an unpainted metal sheet.

(2) Installation space

Leave a space around the remote controller as shown in the figure at right, regardless of whether the controller is installed in the switch box or directly on the wall. Removing the remote controller will not be easy with insufficient space.

Also, leave an operating space in front of the remote controller.



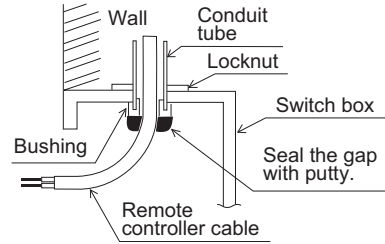
5. Installation/Wiring work

(1) Installation work

Controller can be installed either in the switch box or directly on the wall. Perform the installation properly according to the method.

① Drill a hole in the wall.

- Installation using a switch box
 - Drill a hole in the wall, and install the switch box on the wall.
 - Connect the switch box to the conduit tube.
- Direct wall installation
 - Drill a hole in the wall, and thread the cable through it.

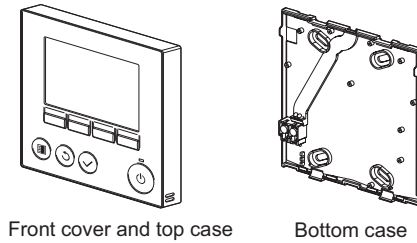


② Seal the cable access hole with putty.

- Installation using a switch box
 - Seal the remote controller cable access hole at the connection of switch box and conduit tube with putty.

To reduce the risk of electric shock, malfunctions, or fire, seal the gap between the cables and cable access holes with putty.

③ Prepare the bottom case of the remote controller.



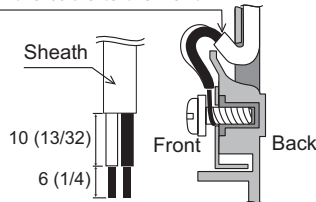
Front cover and top case

Bottom case

④ Connect the remote controller cable to the terminal block on the bottom case.

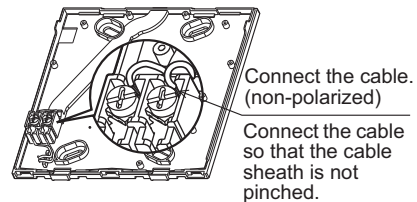
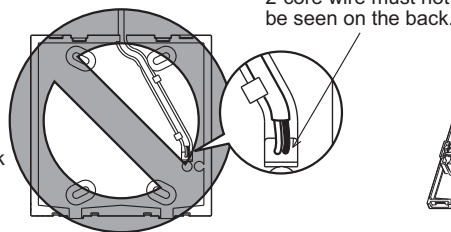
Peel off 6 mm of the remote controller cable sheath as shown in the figure below, and thread the cable from behind the bottom case. Thread the cable to the front of the bottom case so that the peeled part of the cable cannot be seen behind the bottom case. Connect the remote controller cable to the terminal block on the bottom case.

Thread the sheath part of the cable to the front.



unit: mm(in)

Thread the cable.



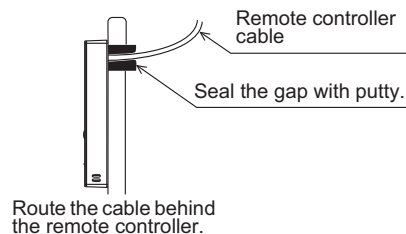
■ Direct wall installation

- Seal the hole through which the cable is threaded with putty.

To reduce the risk of electric shock, shorting, or malfunctions, keep wire pieces and sheath shavings out of the terminal block.

Important

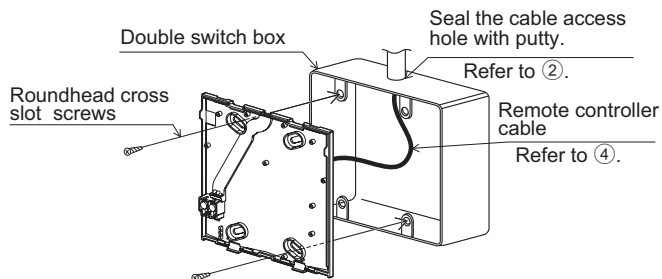
Do not use solderless terminals to connect cables to the terminal block. Solderless terminals may come in contact with the circuit board and cause malfunctions or damage the controller cover.



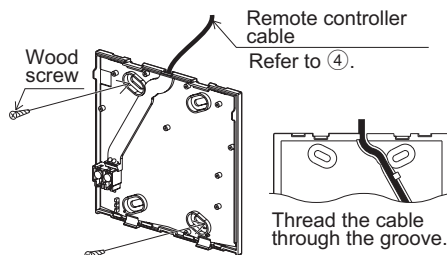
⑤ Install the bottom case.

- Installation using a switch box
 - Secure at least two corners of the switch box with screws.
- Direct wall installation
 - Thread the cable through the groove.
 - Secure at least two corners of the remote controller with screws.
 - Be sure to secure top-left and bottom-right corners of the remote controller (viewed from the front) to prevent it from lifting. (Use molly anchor etc.)

■ Installation using a switch box



■ Direct wall installation



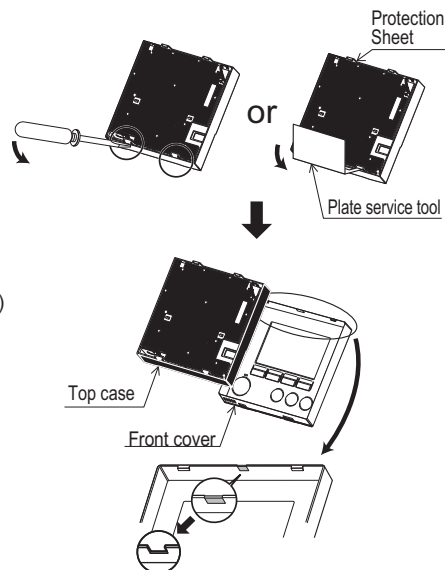
Important

To avoid damage to the controller, do not overtighten the screws.

To avoid damage to the controller, do not make holes on the controller cover.

⑥ Cut out the cable access hole.

- Direct wall installation (when running the cable along the wall)
 - Insert a flat-tip screwdriver with a blade width of 4–7 mm (5/32–9/32 inch) or a Plate service tool into either of the two latches at the bottom of the remote controller, and move it in the direction of the arrow as shown in the figure at right.
 - The top case will come loose from the front cover. Pull the top case toward you to remove it.
 - Cut out the thin-wall part on the front cover (indicated with the shaded area in the right figure) with a nipper. (This cutout hole will be used to thread the remote controller cable through, after the cable is threaded through the groove on the back of the bottom case.)
 - Place the top case onto the front cover.

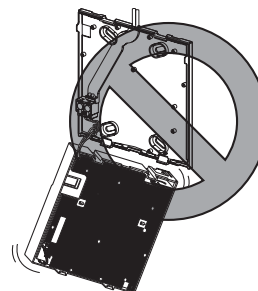
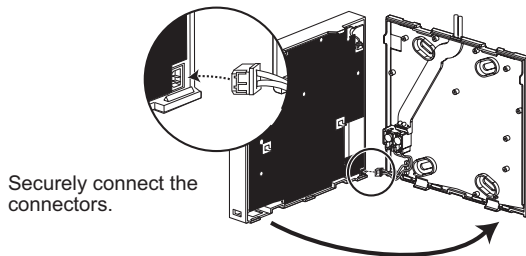


Notice

To prevent damage to the circuit board, remove the front cover from the top case before cutting out a cable access hole.

⑦ Route the wire to the top case.

Connect the connector on the bottom case to the connector on the top case.



Important

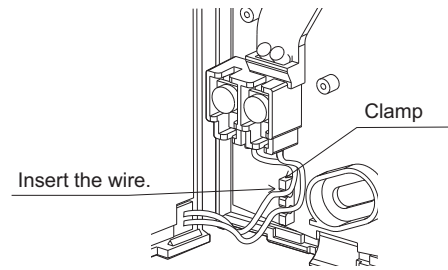
To prevent malfunctions, do not remove the protective film or the circuit board from the casing.

To prevent cable breakage and malfunctions, do not hang the top controller casing hang by the cable.

⑧ Route the wire to the top case.

Important

Hold the cables in place with clamps to prevent undue force from being applied to the terminal block and causing cable breakage.

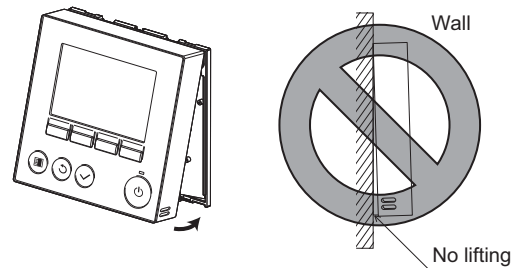


⑨ Install the front cover and top case on the bottom case.

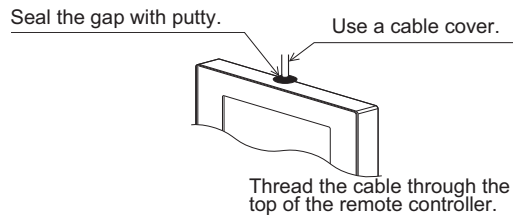
Two mounting tabs are at the top of the top case. (A cover is already installed on the case at the time of factory shipment.) Hook those two tabs onto the bottom case, and click the top case into place. Check that the case is securely installed and not lifted.

Important

When attaching the cover and the top casing to the bottom casing, push it until it they click into place. If they are not properly locked into place, they may fall, causing personal injury, controller damage, or malfunctions.



- Direct wall installation (when running the cable along the wall)
 - Thread the cable through the access hole at the top of the remote controller.
 - Seal the cut-out part of the cover with putty.
 - Use a cable cover.

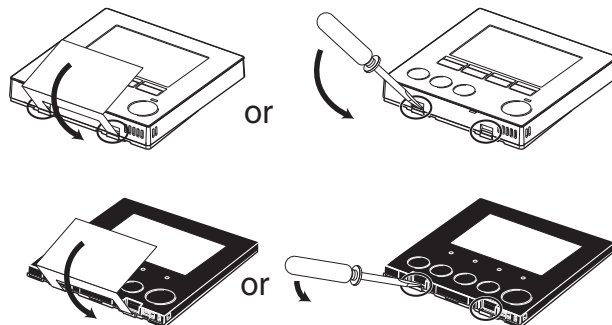


Installation is complete.
Follow the instructions below when uninstalling them.

• Uninstalling the front cover and top case

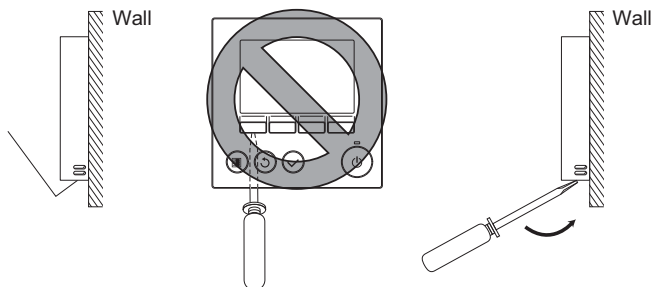
① Uninstalling the front cover

Insert a flat-tip screwdriver or a Plate service tool into either of the two latches at the bottom of the remote controller, and move it in the direction of the arrow as shown in the figure at right. Note that the top case may also be removed if the driver or the tool is inserted deeply.



② Uninstalling the top case

Insert a flat-tip screwdriver or a Plate service tool into either of the two latches at the bottom of the remote controller, and move it in the direction of the arrow as shown in the figure at right.



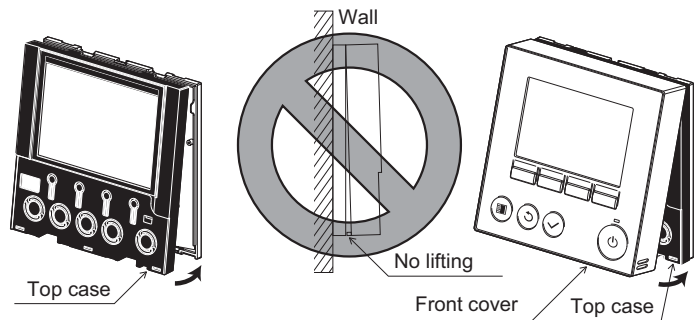
Important

Use a flat-head screwdriver with a blade width of 4-7 mm (5/32-9/32 inch). The use of a screwdriver with a narrower or wider blade tip may damage the controller casing.

To prevent damage to the control board, do not insert the driver into the slot strongly.

To prevent damage to the controller casing, do not force the driver to turn with its tip inserted in the slot.

- ③ Installing the cover and top case
 Two mounting tabs are at the top of the top case. Hook those two tabs onto the bottom case, and click the top case into place. Install the cover on the top case in the same way as with the top case. Check that the top case is securely installed and not lifted.



Important

When attaching the cover and the top casing to the bottom casing, push it until it they click into place. If they are not properly locked into place, they may fall, causing personal injury, controller damage, or malfunctions.

6. Important

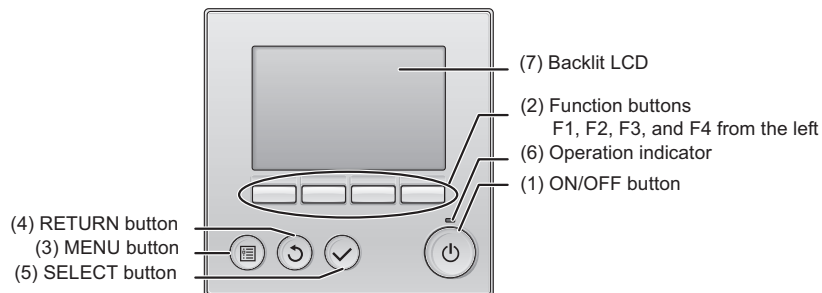
■ **Discrepancy between the indoor temperature measured at the wall and the actual indoor temperature may occur.**

- If the following conditions are met, the use of the temperature sensor on the indoor unit is recommended.
- Supply air does not reach to the wall easily where the remote controller is installed due to improper airflow distribution.
 - There is a great discrepancy between the wall temperature and the actual indoor temperature.
 - The back side of the wall is directly exposed to the outside air.

Note: When temperature changes rapidly, the temperature may not be detected accurately.

- Refer to the section on initial setting in this Manual for remote controller main/sub setting.
- Refer to either of the following manuals for temperature sensor setting: indoor unit Installation Manual for City Multi; this manual for Mr. Slim.
- At the time of factory shipment, protective sheet is on the operation interface of the front cover. Peel off the protective sheet on the operation interface prior to use.

7. Remote controller button functions



(1) ON/OFF button

Use to turn ON/OFF the indoor unit.

(2) Function buttons

Use to select the operation mode or to set the temperature and fan speed on the Main display.

Use to select items on other screens.

(3) MENU button

Use to bring up the Main menu.

(4) RETURN button

Use to return to the previous screen.

(5) SELECT button

Use to jump to the setting screen or to save the settings.

(6) Operation indicator

Stays lit during normal operation. Blinks during startup and when an error occurs.

(7) Backlit LCD

Dot display. When the backlight is off, pressing any button turns the backlight on and it will stay lit for a certain period of time depending on the screen. Performing any button operation keeps the backlight on.

Note: When the backlight is off, pressing any button turns the backlight on and does not perform its function. (except for the ON/OFF button)

Pressing the MENU button will bring up the Main menu as shown below.
 (Refer to section 9.(2) "Main display" for details.)

1/3 Vane-Louver-Vent. (Lossnay)	*1
High power	*1
Timer	*1
Weekly timer	*1
OU silent mode	*1
2/3 Restriction	*1
Energy saving	*1
Night setback	*1
Filter information	*1
Error information	*1
3/3 Maintenance	*1
Initial setting	*2 *3
Service	*2 *3

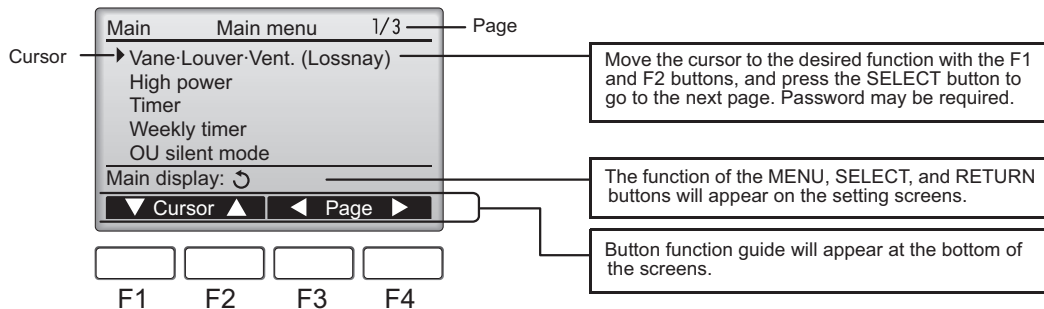
*1 Refer to the Instructions Book in the CD-ROM for details.

*2 Explained in this manual.

*3 If no buttons are pressed for 10 minutes on the initial setting screens, or 2 hours on the service screens (10 minutes on some screens), the screen will automatically return to the Main display. Any settings that have not been saved will be lost.

The available items on the menu depend on the connected indoor unit model. For items not described in the manuals that are enclosed with the MA remote controller, refer to the manuals that came with the air conditioning units.

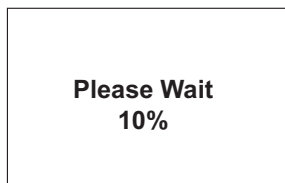
Button operations on the Main menu



8. Turning on the power

Make sure that the MA remote controller is properly installed according to the instructions in the Installation Manual and that the indoor or outdoor unit installation has been completed before turning on the power.

(1) When the power is turned on, the following screen will appear.



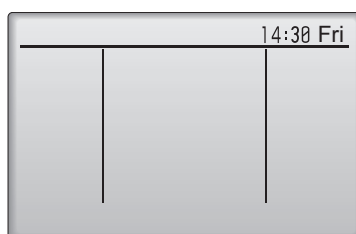
Normal start up (indicating the percentage of process completion)

Notes

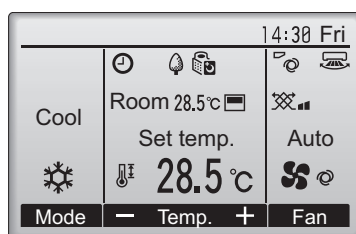
- When the power is on for the first time, the Language selection screen will be displayed. Refer to section 11 (8). Select a desired language. The system will not start-up without language selection.
- Some models of City Multi cannot have more than one remote controller connected. Refer to relevant documents (e.g., catalogs) for usage compatibility.

(2) Main display

After the successful startup, the Main display will appear. The Main display can be displayed in two different modes: "Full" and "Basic". Refer to section 11 "Initial settings" for how to select the display mode. (The factory setting is "Full.")



Main display in the Full mode (while the unit is not in operation)



Main display in the Full mode (while the unit is in operation)

Notes

- When connecting two remote controllers, be sure to designate one as a main and the other as a sub controller. Refer to section 11 "Initial settings" for how to make the Main/Sub setting.
- Refer to the Instructions Book for the icons on the display.

9. Test run <Maintenance password is required.>

(1) Read the section about Test run in the indoor unit Installation Manual before performing a test run.

(2) At the Main display, press the MENU button and select Service>Test run>Test run.

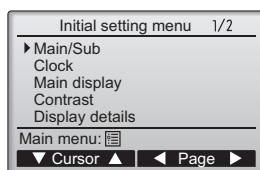
(3) Press the ON/OFF button to cancel the test run if necessary.

(4) Refer to the indoor unit Installation Manual for the detailed information about test run and for how to handle the errors that occur during a test run.

Note: Refer to section 12 "Service menu" for information about the maintenance password.

10. Initial settings (Remote controller settings) <Administrator password is required.>

From the Main display, select Main menu>Initial setting, and make the remote controller settings on the screen that appears.



Initial setting menu (1/2)

- Main/Sub
- Clock
- Main display
- Contrast
- Display details
 - Clock
 - Temperature
 - Room temp.
 - Auto mode

Initial setting menu (2/2)

- Auto mode
- Administrator password
- Language selection

Note: The initial administrator password is "0000." Refer to section (7) "Administrator password setting" for how to change the password.

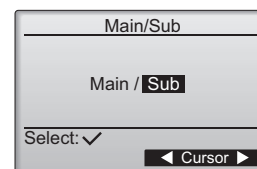
(1) Main/Sub setting

When connecting two remote controllers, one of them needs to be designated as a sub controller.

[Button operation]

[1] When the F3 or F4 button is pressed, the currently selected setting will appear highlighted. Select "Sub", and press the SELECT button to save the change.

[2] Press the MENU button to return to the Main menu screen. (This button always brings up the Main menu screen.)



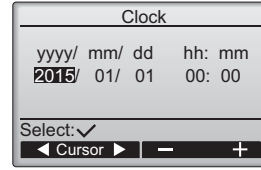
(2) Clock setting

[Button operation]

[1] Move the cursor with the F1 or F2 button to the desired item.

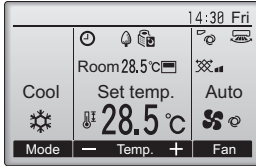
[2] Change the date and time with the F3 or F4 button, and press the SELECT button to save the change. The change will be reflected on the clock display on the Main display.

Note: Clock setting is necessary for time display, weekly timer, timer setting and error history. Make sure to perform clock setting when the unit is used for the first time or has not used for a long time.

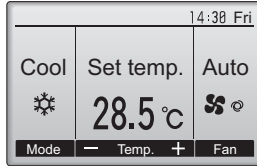


(3) Main display setting

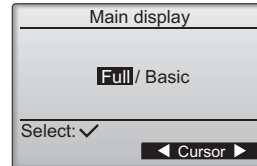
Use the F3 or F4 button to select the display mode "Full" or "Basic." (The factory setting is "Full.")



Full mode (Example)



Basic mode (Example)



Note: This setting is only for the Main display. In the Basic mode, icons that indicate control status on timer and schedule settings will not appear on the display. Vane, louver, and ventilation settings or room temperature will not appear, either.

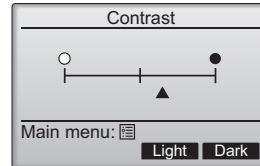
(4) Display contrast

[Button operation]

Adjust LCD contrast with the F3 or F4 button.

The current level is indicated with a triangle.

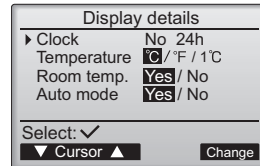
Note: Adjust the contrast to improve viewing in different lighting conditions or installation locations. This setting can not improve viewing from all directions.



(5) Remote controller display details setting

Make the settings for the remote-controller-related items as necessary.

Press the SELECT button to save the changes.



[1] Clock display

[Button operation]

· Select "Clock" from the remote controller display details setting screen, and press the F4 button (Change) to bring up the clock display setting screen.

· Use the F1 through F4 buttons to select "Yes" (display) or "No" (non-display) and its format for the Main display.

· Save the settings with the SELECT button.

(The factory settings are "Yes" (display) and "24 h" format.)

Clock display: Yes (Time is displayed on the Main display.)

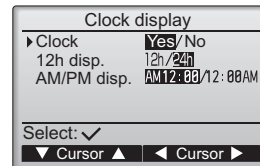
No (Time is not displayed on the Main display.)

Display format: 24-hour format

12-hour format

AM/PM display (Effective when the display format is 12-hour): AM/PM before the time

AM/PM after the time



Note: Time display format will also be reflected on the timer and schedule setting display. The time is displayed as shown below.

12-hour format: AM12:00 ~ AM1:00 ~ PM12:00 ~ PM1:00 ~ PM11:59

24-hour format: 0:00 ~ 1:00 ~ 12:00 ~ 13:00 ~ 23:59

[2] Temperature unit setting

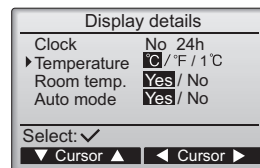
[Button operation]

Move the cursor to the "Temperature" on the display details setting screen, and select the desired temperature unit with the F3 or F4 button. (The factory setting is Centigrade (°C).)

· °C: Temperature is displayed in Centigrade. Temperature is displayed in 0.5- or 1-degree increments, depending on the model of indoor units.

· °F: Temperature is displayed in Fahrenheit.

· 1 °C: Temperature is displayed in Centigrade in 1-degree increments. This item will not appear on a sub remote controller.



[3] Room temperature display

[Button operation]

Move the cursor to the "Room temp." on the display details setting screen, and select the desired setting with the F3 or F4 button. (The factory setting is "Yes".)

- Yes: Room temperature appears on the Main display.
- No: Room temperature does not appear on the Main display.

Note: Even when "Yes" is set, the room temperature is not displayed on the Main display in the "Basic" mode.

[4] Auto (single set point) mode display setting

[Button operation]

Move the cursor to the "Auto mode" on the display details setting screen, and select the desired mode with the F3 or F4 button. (The factory setting is "Yes".)

- Yes: "AUTO COOL" or "AUTO HEAT" is displayed during operation in the AUTO (single set point) mode.
- No: Only "AUTO" is displayed during operation in the AUTO (single set point) mode.

(6) Auto mode setting

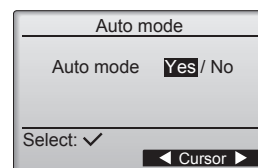
[Button operation]

Whether or not to use the Auto (single set point) or Auto (dual set points) mode can be selected by using the F3 or F4 button. This setting is valid only when indoor units with the AUTO mode function are connected.

(The factory setting is "Yes".)

Press the SELECT button to save the changes made.

- Yes: The AUTO mode can be selected in the operation mode setting.
- No: The AUTO mode cannot be selected in the operation mode setting.



(7) Administrator password setting

[Button operation]

[1] To enter the current Administrator password (4 numerical digits), move the cursor to the digit you want to change with the F1 or F2 button, and set each number (0 through 9) with the F3 or F4 button.

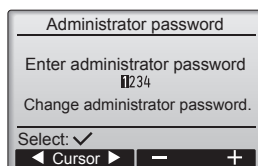
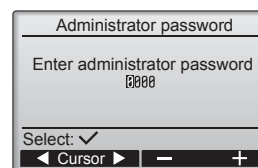
[2] Press the SELECT button.

Note: The initial administrator password is "0000." Change the default password as necessary to prevent unauthorized access. Have the password available for those who need it.

Note: If you forget your administrator password, you can initialize the password to the default password "0000" by pressing and holding the F1 and F2 buttons simultaneously for three seconds on the administrator password setting screen.

[3] If the password matches, a window to enter a new password will appear. Enter a new password in the same way as explained above, and press the SELECT button.

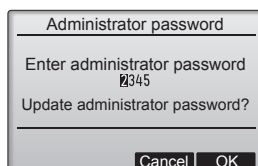
[4] Press the F4 button (OK) on the password change confirmation screen to save the change. Press the F3 button (Cancel) to cancel the change.



Note: The administrator password is required to make the settings for the following items.

- Timer setting · Weekly timer setting · Energy-save setting
- Outdoor unit silent mode setting · Restriction setting

Refer to the Instruction Book that came with the remote controller for the detailed information about how to make the settings for these items.

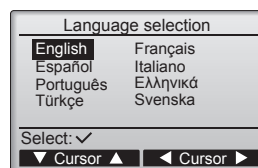


(8) Language selection

[Button operation]

Move the cursor to the language you desire with the F1 through F4 buttons.

Press the SELECT button to save the setting.



11. Service menu (Maintenance password is required.)

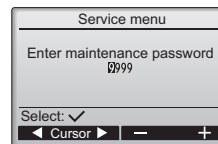
At the Main display, press the MENU button and select "Service" to make the maintenance settings.

When the Service menu is selected, a window will appear asking for the password.

To enter the current maintenance password (4 numerical digits), move the cursor to the digit you want to change with the F1 or F2 button, and set each number (0 through 9) with the F3 or F4 button. Then, press the SELECT button.

Note: The initial maintenance password is "9999." Change the default password as necessary to prevent unauthorized access. Have the password available for those who need it.

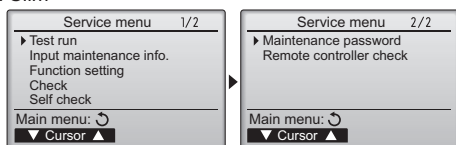
Note: If you forget your maintenance password, you can initialize the password to the default password "9999" by pressing and holding the F1 and F2 buttons simultaneously for three seconds on the maintenance password setting screen.



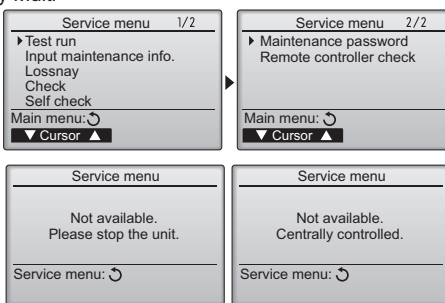
If the password matches, the Service menu will appear.

The type of menu that appears depends on the connected indoor units' type (City Multi or Mr. Slim).

<Mr. Slim>



<City Multi>



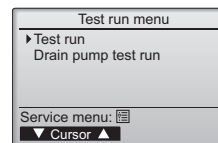
Note: Air conditioning units may need to be stopped to make certain settings. There may be some settings that cannot be made when the system is centrally controlled.

(1) Test run (City Multi and Mr. Slim)

Select "Test run" from the Service menu to bring up the Test run menu.

- Test run: Select this option to perform a test run.
- Drain pump test run: Select this option to perform a test run on the drain pump on the indoor unit. Applicable only to the type of indoor units that support the test run function.

Note: Refer to the indoor unit Installation Manual for the detailed information about test run.

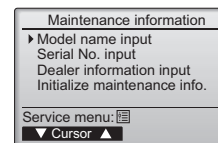


(2) Input maintenance Info. (City Multi and Mr. Slim)

Select "Input maintenance info." from the Service menu to bring up the Maintenance information screen. Refer to the indoor unit Installation Manual for how to make the settings.

Note: The following settings can be made from the Maintenance Information screen.

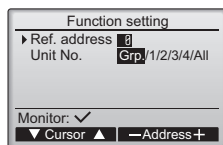
- Registering model names and serial numbers
Enter the model names and serial numbers of outdoor and indoor units. The information entered will appear on the Error information screen. Model names can have up to 18 characters, and the serial numbers can have up to 8 characters.
- Registering dealer information
Enter phone number of a dealer. The entered information will appear on the Error information screen. Phone number can have up to 13 characters.
- Initializing maintenance information
Select the desired item to initialize the above settings.



(3) Function setting (Mr. Slim)

Make the settings for the indoor unit functions via the remote controller as necessary.

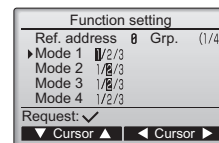
Select "Function setting" from the Service menu to bring up the Function setting screen.



[Button operation]

[1] Set the indoor unit refrigerant addresses and unit numbers with the F1 through F4 buttons, and then press the SELECT button to confirm the current setting.

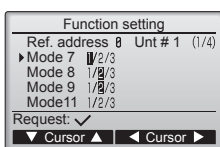
[2] When data collection from the indoor units is completed, the current settings appears highlighted. Non-highlighted items indicate that no function settings are made. Screen appearance varies depending on the "Unit No." setting.



Common items

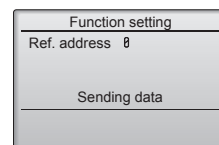
Wired Remote Controller PAR-32MAA

[3] Use the F1 or F2 button to move the cursor to select the mode number, and change the setting number with the F3 or F4 button.



Individual items
(Unit No. 1 through 4)

[4] When the settings are completed, press the SELECT button to send the setting data from the remote controller to the indoor units.



[5] When the transmission is successfully completed, the screen will return to the Function setting screen.

Note:

- Make the above settings on Mr. Slim units as necessary.
- Refer to the Instructions Book when it is necessary to set the settings for City Multi units.
- **Table 1 summarizes the setting options for each mode number. Refer to the indoor unit Installation Manual for the detailed information about initial settings, mode numbers, and setting numbers for the indoor units.**
- Be sure to write down the settings for all functions if any of the initial settings has been changed after the completion of installation work.

Table 1. Function setting options

Function	Settings	Mode No.	Setting No.	OUTDOOR UNIT				
				P-Series	PUMY	MXZ-2C/3C/4C/5C	MXZ-8C (PAC-MKA*BC)	MXZ-8B (PAC-AKA*BC)
Power failure automatic recovery	Disable	01 (101)	1					
	Enable (Four minutes of standby time is required after the restoration of power)		2	●	●	●	●	●
Thermistor selection (Indoor temperature detection)	Average temperature reading of the indoor units in operation	02 (-)	1	●	●	●	●	●
	Thermistor on the indoor unit to which the remote controller is connected (fixed)		2					
	Built-in sensor on the remote controller		3					
LOSSNAY connectivity	Not supported	03 (103)	1	●	●	●	●	●
	Supported (Indoor unit does not intake outdoor air through LOSSNAY.)		2					
	Supported (Indoor unit intakes outdoor air through LOSSNAY.)		3					
Power voltage	230V	04 (104)	1	●	●	●	●	●
	208V		2					
Frost prevention temperature	2°C [36 °F] (Normal)	15 (115)	1	●	●	●		●
	3°C [37°F]		2				●	
Humidifier control	Heat operation & Thermo ON	16 (116)	1	●	●	●	●	●
	Heat operation		2					
Change of defrosting control	Standard	17 (117)	1	●	—	—	—	—
	For high humidity		2		—	—	—	—

()RF thermostat setup function No.

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Table 2

Function	Settings	Mode No.	Setting No.	Initial setting(Factory setting) :- Notg available				
				4 way cassette		Ceiling suspended	Wall mounted	
				PLA-EA	SLZ-KA·NA	PCA-KA	PKA-HA	PKA-KA
Filter sign	100Hr	07 (107)	1				●	●
	2500Hr		2	●	●	●		
	No filter sign indicator		3					
Air flow (fan speed)	Quiet	08 (108)	1		—		—	
	Standard		2	●	—	●	●	●
	Hi ceiling		3		—			—
No. of air outlets	4 directions	09 (109)	1	●	—	—	—	—
	3 directions		2		—	—	—	—
	2 directions		3		—	—	—	—
Installed options (High performance filter)	Not supported	10 (110)	1	●	—	●	—	—
	Supported		2		—	—	—	—
Horizontal vane setting	No vanes (Vane No.3 setting: PLA only)	11 (111)	1		—		—	—
	Vane No.1 setting		2		—	●	—	—
	Vane No.2 setting		3	●	—		—	—
Vane differential setting in heating mode (cold wind prevention)	Low (24C-28C)	14 (114)	1					
	Standard (28C-32C)		2	●	●	●	●	●
	High (35C-38C)		3					
Vane Swing	Not supported (Swing: PLA only)	23 (123)	1					
	Supported (Wave airflow: PLA only)		2	●	●	●	●	●
Setting temperature in heating (4 deg up)*1PKA: 2 deg up	Available	24 (124)	1	●	●	●	●	●
	Not available		2					
Fan speed during the heating thermostat is OFF	Extra low	25 (125)	1	●	●	●	●	●
	Stop		2					
	Setting fan speed		3					
Fan speed during the cooling thermostat is OFF	Setting fan speed	27 (127)	1	●	●	●	●	●
	Stop		2					
Detection of abnormality of the pipe temperature (P8)	Available	28 (128)	1	●	●	●	●	●
	Not available		2					

()RF thermostat setup function No.

Function	Settings	Mode No.	Setting No.	Initial setting(Factory setting) :- Notg available					
				Ceiling concealed				Multi position	
				SEZ-KD·NA	PEA-AA	PEAD-AA4	PEAD-AA5	MVZ	PVA
Filter sign	100Hr	07 (107)	1						
	2500Hr		2						
	No filter sign indicator		3	●	●	●	●	●	
External static pressure setting	*Refer to Table 3	08 (108)	1	●	●				
			2				●	●	
			3			●	●		
Heater control	*Refer to Table 4	10 (110)	1	●	●	●	●	●	
			2						
		23 (123)	1	●	●	●	●		
2						●	●		
Setting temperature in heating (4 deg up)	Available	24 (124)	1	●	●	●	●	●	
	Not available		2						
Humidifier	Not supported	13 (113)	1	—	—	—	—		
	Supported		2	—	—	—	—	●	●
Fan speed during the heating thermostat is OFF	Extra low *1	25 (125)	1	●	●	●	●	●	
	Stop *1		2						
	Setting fan speed *1		3						
Fan speed during the cooling thermostat is OFF	Setting fan speed	27 (127)	1	●	●	●	●	●	
	Stop		2						
Detection of abnormality of the pipe temperature (P8)	Available	28 (128)	1	●	●	●			
	Not available		2				●	●	●

*1 High speed setting depending on heater control.

()RF thermostat setup function No.

Wired Remote Controller **PAR-32MAA**

Table 3

Function	Setting No. of		SEZ, PEA	PEAD	MVZ, PVA	
	Mode No. 08	Mode No. 10				
External static pressure	1	1	15 Pa	–	75 Pa	Vertical, Horizontal Left, Horizontal Right External Static Pressure Setting
	2		35 Pa	35 Pa	125 Pa	
	3		50 Pa	50 Pa	200 Pa	
	1	2	5 Pa	70 Pa	75 Pa	Down flow External Static Pressure Setting
	2		–	100 Pa	125 Pa	
	3		–	150 Pa	200 Pa	

Table 4
MVZ, PVA

Function	Setting	Mode No. ()RF thermostat setup function No.		Initial setting (Factory setting)	
		23 (123)	11 (111)		
Heater control	Enable heater basic control 1st Heater OFF Inlet air temp. \geq set temp Heater ON Inlet air temp. \leq set temp - 4.5°F(2.5°C) •The fan will stop and the heater will turn off when [DEFROST] or [ERROR] is displayed.	<p>Set temp. (Room temperature setting) Set temp.-1.8F(1C) Set temp. -4.5F(2.5C) ON OFF</p>	1	–	
	Enable heater comfort mode 1st Heater OFF Inlet air temp. \geq set temp Heater ON Inlet air temp. \leq set temp - 1.8°F(1°C) •The fan will stop and the heater will turn off when [DEFROST] is displayed.	<p>Set temp. (Room temperature setting) Set temp.-1.8F(1C) ON OFF</p>	2	1	●
	Enable heater economy mode 1st Heater OFF Inlet air temp. \geq set temp - 1.8°F(1°C) Heater ON Inlet air temp. \leq set temp - 3.6°F(2°C) •The fan will stop and the heater will turn off when [DEFROST] is displayed.	<p>Set temp. (Room temperature setting) Set temp.-1.8F(1C) Set temp. -4.5F(2.5C) ON OFF</p>	2	2	

1st: Heater output from CN24-1 (yellow) on the indoor unit control board.
 2nd: Heater output from CN24-2 (Blue) on the indoor unit control board.

Wired Remote Controller **PAR-32MAA**

PEAD-AA5

Function	Setting		Mode No.		Initial setting (Factory setting)
			()RF thermostat setup function No.		
			23 (123)	11 (111)	
Heater control	Enable heater basic control	<p>1st</p> <p>Heater OFF Inlet air temp. \geq set temp Heater ON Inlet air temp. \leq set temp - 4.5°F(2.5°C) •The fan will stop and the heater will turn off when [DEFROST] or [ERROR] is displayed.</p> <p>Set temp. (Room temperature setting) Set temp.-1.8F(1C) Set temp. -4.5F(2.5C) ON OFF</p>	1	-	●
	Enable heater comfort mode	<p>1st</p> <p>Heater OFF Inlet air temp. \geq set temp Heater ON Inlet air temp. \leq set temp - 1.8°F(1°C) •The fan will stop and the heater will turn off when [DEFROST] is displayed.</p> <p>Set temp. (Room temperature setting) Set temp.-1.8F(1C) ON OFF</p>	2	1	
		<p>2nd</p> <p>Heater OFF Inlet air temp. \geq set temp Heater ON Inlet air temp. \leq set temp - 2.7°F(1.5°C) •The fan will stop and the heater will turn off when [DEFROST] is displayed.</p> <p>Set temp. (Room temperature setting) Set temp.-1.8F(1C) Set temp. -2.7F(1.5C) ON OFF</p>			
	Enable heater economy mode	<p>1st</p> <p>Heater OFF Inlet air temp. \geq set temp - 1.8°F(1°C) Heater ON Inlet air temp. \leq set temp - 3.6°F(2°C) •The fan will stop and the heater will turn off when [DEFROST] is displayed.</p> <p>Set temp. (Room temperature setting) Set temp.-1.8F(1C) Set temp. -4.5F(2.5C) ON OFF</p>	2	2	

1st: Heater output from CN24-1 (yellow) on the indoor unit control board.

2nd: Heater output from CN24-2 (Blue) on the indoor unit control board.

PEAD-AA4, PEA, SEZ

Function	Setting	Mode No. ()RF thermostat setup function No.		Initial setting (Factory setting)
		23 (123)	11 (111)	
Heater control	Heater OFF Inlet air temp. \geq set temp Heater ON Inlet air temp. $<$ set temp - 4.5°F(2.5°C) •The fan will stop and the heater will turn off when [DEFROST] or [ERROR] is displayed.	1	-	•
	<p> Inlet air temp. Set temp. (Room temperature setting) Set temp.-1.8F(1C) Heater output Set temp. -4.5F(2.5C) ON OFF </p>			
Heater control	Heater OFF Inlet air temp. \geq set temp Heater ON Inlet air temp. $<$ set temp - 4.5°F(2.5°C) •The fan will drive and the heater will turn off when [DEFROST] is displayed.	2	-	
	<p> Inlet air temp. Set temp. Set temp.-4.5°F(2.5°C) Heater output ON OFF </p>			

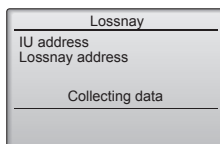
(4) LOSSNAY setting (City Multi only)

This setting is required only when the operation of City Multi units is interlocked with LOSSNAY units. This setting is not available for the Mr. Slim units. Interlock settings can be made for the indoor unit to which the remote controller is connected. (They can also be confirmed or deleted.)

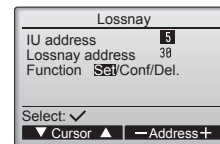
Note:	<ul style="list-style-type: none"> • Use the centralized controller to make the settings if it is connected. • To interlock the operation of the indoor units with the LOSSNAY units, be sure to interlock the addresses of ALL indoor units in the group and that of the LOSSNAY unit.
-------	---

[Button operation]

[1] When "Lossnay" on the Service menu is selected, the remote controller will automatically begin searching for the registered LOSSNAY addresses of the currently connected indoor unit.



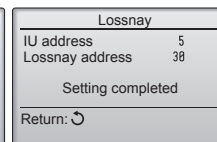
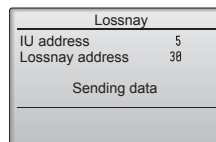
[2] When the search is completed, the smallest address of the indoor units that are connected to the remote controller and the address of the interlocked LOSSNAY unit will appear. "--" will appear if no LOSSNAY unit is interlocked with the indoor units.



If no settings need to be made, press the RETURN button to go back to the Service menu.

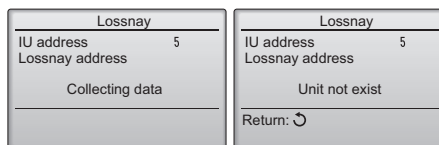
To make LOSSNAY interlock setting

[3] Enter the addresses of the indoor unit and the LOSSNAY unit to be interlocked, with the F1 through F4 buttons, select "Set" in the "Function", and press the SELECT button to save the settings. "Sending data" will appear on the screen. If the setting is successfully completed, "Setting completed" will appear.



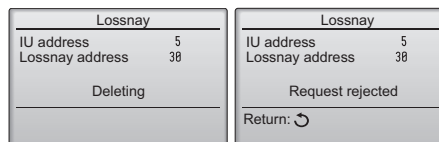
To search for the LOSSNAY address

[4] Enter the address of the indoor unit to which the remote controller is connected, select "Conf" in the "Function", and press the SELECT button. "Collecting data" will appear on the screen. If the signal is received correctly, the indoor unit address and LOSSNAY address will appear. "--" will appear when no LOSSNAY unit is found. "Unit not exist" will appear if no indoor units that are correspond to the entered address are found.



To delete the interlock setting

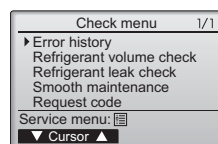
[5] To delete the interlocked setting between LOSSNAY unit and the indoor units to which the remote controller is connected, enter the indoor unit address and LOSSNAY address with the F1 through F4 buttons, select "Del." in the "Function", and press the SELECT button. "Deleting" will appear. The screen will return to the search result screen if the deletion is successfully completed. "Unit not exist" will appear if no indoor units that are correspond to the entered address are found. If deletion fails, "Request rejected" will appear on the screen.



(5) Check

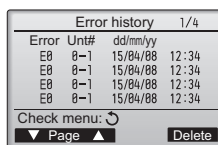
Select "Check" on the Service menu to bring up the Check menu screen. The type of menu that appears depends on the type of indoor units that are connected (City Multi or Mr. Slim). (When City Multi is connected, only "Error history" will appear in the menu.)

<Mr. Slim>

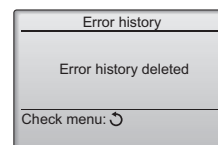


[1] Error history

Select "Error history" from the Check menu, and press the SELECT button to view up to 16 error history records. Four records are shown per page, and the top record on the first page indicates the latest error record.



"Error history deleted" will appear on the screen. Press the Return button to go back to the Check menu screen.



[2] Other options in the Check menu (Mr. Slim only)

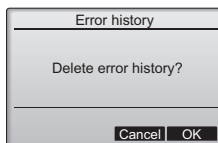
The following options are also available on the Mr. Slim units in the Check menu.

- Refrigerant volume check
- Refrigerant leak check
- Smooth maintenance
- Request code

These options are available only on the Mr. Slim units. Refer to the indoor unit Installation Manual for details.

[Deleting the error history]

To delete the error history, press the F4 button (Delete) on the screen that shows error history. A confirmation screen will appear asking if you want to delete the error history. Press the F4 button (OK) to delete the history.



(6) Diagnostic function.

Error history of each unit can be checked via the remote controller.

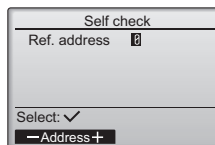
[Procedures]

[1] Select "Self check" from the Service menu, and press the SELECT button to view the Self check screen.

[2] With the F1 or F2 button, enter the refrigerant address (Mr. Slim) or the M-NET address (City Multi), and press the SELECT button.

[3] Error code, unit number, attribute, and indoor unit demand signal ON/OFF status at the contact (City Multi only) will appear. "--" will appear if no error history is available.

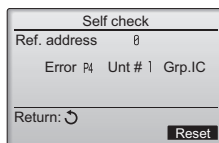
<Mr. Slim>



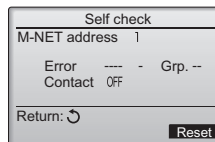
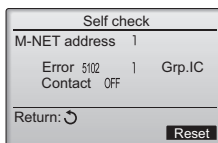
<City Multi>



<Mr. Slim>



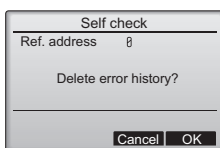
<City Multi>



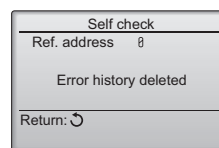
When there is no error history

[Resetting the error history]

- [1] Press the F4 button (Reset) on the screen that shows the error history. A confirmation screen will appear asking if you want to delete the error history.



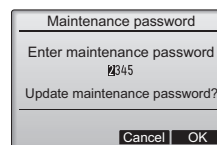
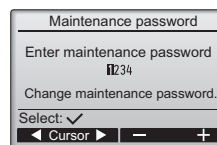
- [2] Press the F4 button (OK) to delete the error history. If deletion fails, "Request rejected" will appear, and "Unit not exist" will appear if no indoor units that are correspond to the entered address are found.



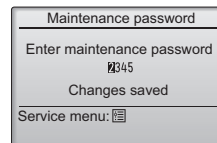
- (7) Setting the maintenance password
Take the following steps to change the maintenance password.

[Procedures]

- [1] Select "Maintenance password" on the Service menu, and press the SELECT button to bring up the screen to enter a new password.
- [2] Move the cursor to the digit you want to change with the F1 or F2 button, and set each digit to the desired number (0 through 9) with the F3 or F4 button.
- [3] Press the SELECT button to save the new password.
- [4] A confirmation screen will appear asking if you want to change the maintenance password. Press the F4 button (OK) to save the change. Press the F3 button (Cancel) to cancel the change.



- [5] "Changes saved" will appear when the password is updated.
- [6] Press the MENU button to return to the Service menu or press the RETURN button to go back to the "Maintenance password" screen.



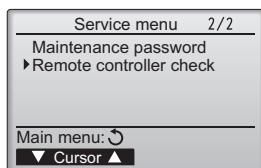
12. Remote controller check

When the remote controller does not work properly, use the remote controller checking function to troubleshoot the problem.

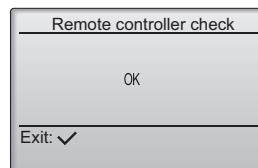
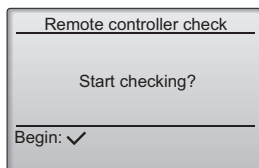
- (1) Check the remote controller display and see if anything is displayed (including lines). Nothing will appear on the remote controller display if the correct voltage (8.5-12 VDC) is not supplied to the remote controller. If this is the case, check the remote controller wiring and indoor units.

[Procedures]

- [1] Select "Remote controller check" from the Service menu, and press the SELECT button to start the remote controller check and see the check results. To cancel the remote controller check and exit the Remote controller check menu screen, press the MENU or the RETURN button. The remote controller will not reboot itself.



Select "Remote controller check".



Remote controller check results screen

OK: No problems are found with the remote controller. Check other parts for problems.

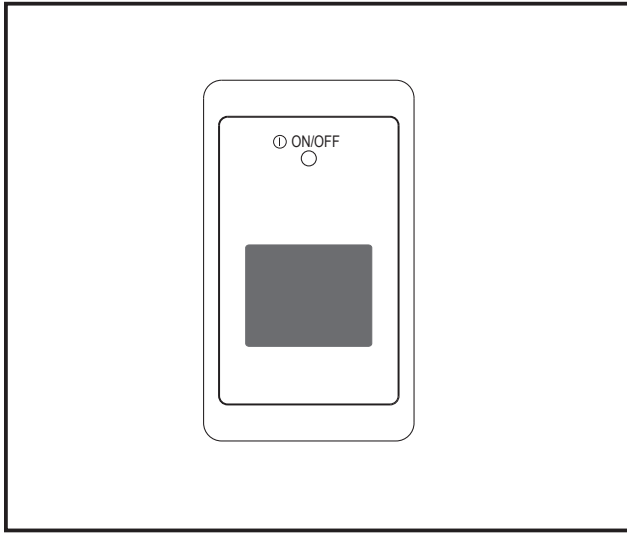
E3, 6832: There is noise on the transmission line, or the indoor unit or another remote controller is faulty. Check the transmission line and the other remote controllers.

NG (ALL0, ALL1): Send-recv circuit fault. Remote controller needs replacing.

ERC: The number of data errors is the discrepancy between the number of bits in the data transmitted from the remote controller and that of the data that was actually transmitted over the transmission line. If data errors are found, check the transmission line for external noise interference.

- [2] If the SELECT button is pressed after the remote controller check results are displayed, remote controller check will end, and the remote controller will automatically reboot itself.

Figure



Descriptions

Enables the use of wireless remote controller.

Applicable Models

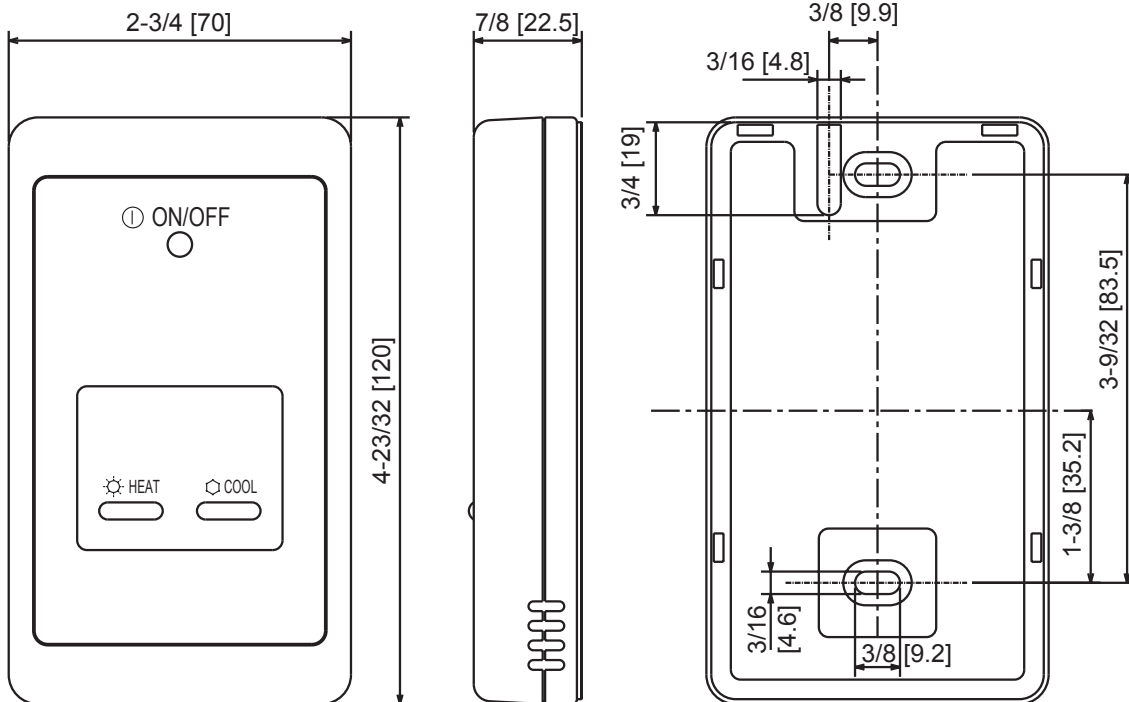
- SEZ-KD09/12/15/18NA4
- PEAD-A12/18/24/30/36/42AA7
- PVA-A12/18/24/30/36/42AA7

Specifications

Item	Content
external dimensions	120(H) \times 70(W) \times 22.5(D) mm
Weight	0.2kg
Power	DC12V (supplied from indoor unit control)
Temperature	0 ~ 40°C Humidity : 30 ~ 90%RH (no condensing)
Material	ABS
Colour (Munsell)	White Grey (4.8Y7.92/0.66)

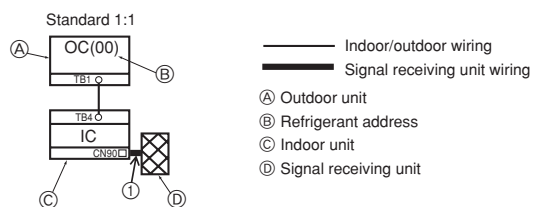
Dimensions

Unit: inch [mm]

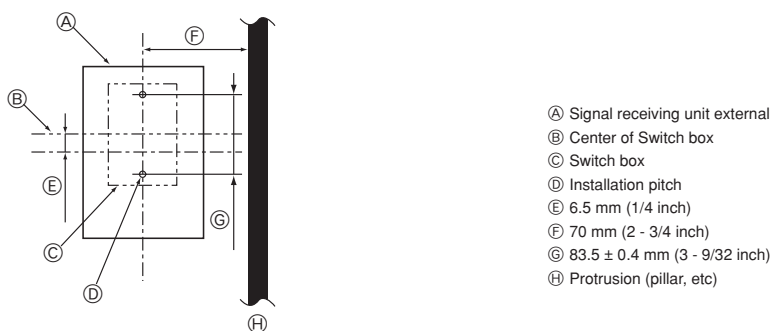


How to Use / How to Install

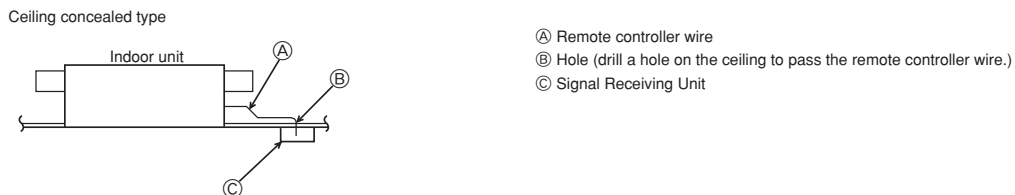
[Fig. 8-7]



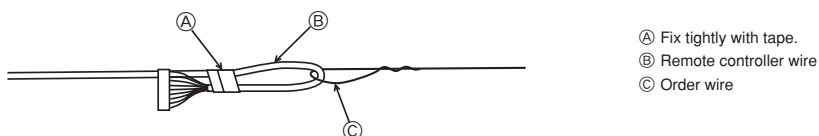
[Fig. 8-8]



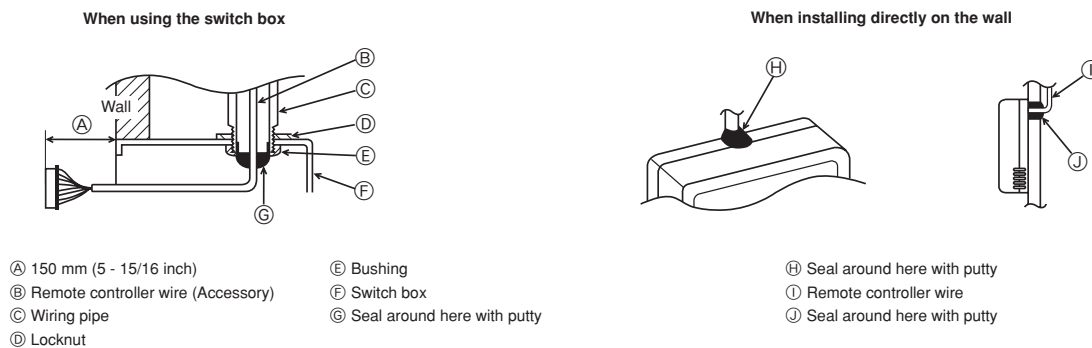
[Fig. 8-9]



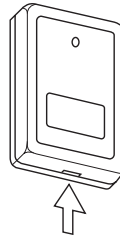
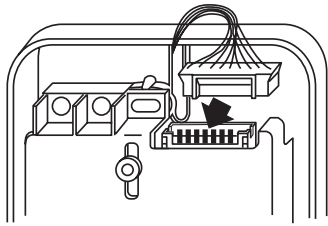
[Fig. 8-10]



[Fig. 8-11]

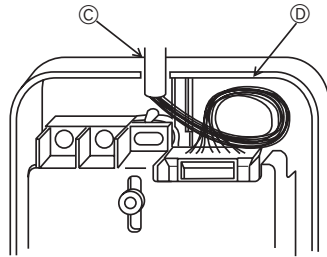
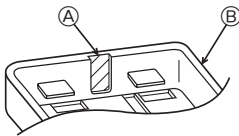


[Fig. 8-12]



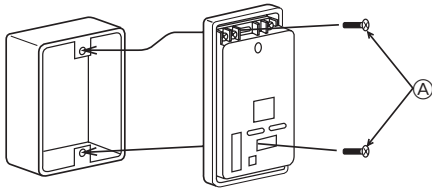
Insert the minus screwdriver toward the arrow pointed and wrench it to remove the cover.
A flat screwdriver whose width of blade is between 4 and 7mm (5/32 - 9/32inch) must be used.

[Fig. 8-13]



Ⓐ Thin-wall portion
Ⓑ Bottom case
Ⓒ Remote controller wire
Ⓓ Conducting wire

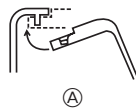
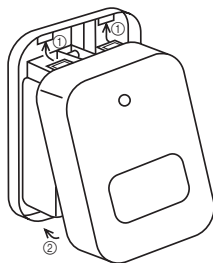
[Fig. 8-14]



Ⓐ Screw (M4 x 30)

* When installing the lower case directly on the wall or the ceiling, use wood screws.

[Fig. 8-15]



① Hang the cover to the upper hooks (2 places).

② Mount the cover to the lower case

Ⓐ Cross-section of upper hooks

Signal Receiving Unit

1) Sample system connection

[Fig. 8-7]

Only the wiring from the signal receiving unit and between the remote controllers is shown in [Fig. 8-7]. The wiring differs depending on the unit to be connected or the system to be used.

For details on restrictions, refer to the installation manual or the service handbook that came with the unit.

1. Connecting to Mr. SLIM air conditioner

(1) Standard 1:1

- ① Connecting the signal receiving unit
Connect the signal receiving unit to the CN90 (Connect to the wireless remote controller board) on the indoor unit using the supplied remote controller wire. Connect the signal receiving units to all the indoor units.

2) How To Install

[Fig. 8-8] to [Fig. 8-15]

1. Common items for "Installation on the ceiling" and "Installation on the switch box or on the wall"

[Fig. 8-8]

- Ⓐ Signal receiving unit external Ⓔ 6.5 mm (1/4 inch)
- Ⓑ Center of Switch box Ⓕ 70 mm (2 - 3/4 inch)
- Ⓒ Switch box Ⓖ 83.5 ± 0.4 mm (3 - 9/32 inch)
- Ⓓ Installation pitch Ⓖ Protrusion (pillar, etc)

[Fig. 8-9]

- Ⓐ Remote controller wire
- Ⓑ Hole (drill a hole on the ceiling to pass the remote controller wire.)
- Ⓒ Signal Receiving Unit

(1) Select the installation site.

The following must be observed.

- ① Connect the signal receiving unit to the indoor unit with the supplied remote controller wire. Note that the length of the remote controller wire is 5 m (16 ft). Install the remote controller within the reach of the remote controller wire.
- ② When installing on either the switch box or the wall, allow space around the Signal Receiving Unit as shown in the figure in [Fig. 8-8].
- ③ When installing the Signal Receiving Unit to the switch box, the Signal Receiving Unit slipped downward for 6.5 mm (1/4 inch) as right illustrated.
- ④ Parts which must be supplied on site.
Switch box for one unit
Thin-copper wiring pipe
Lock nut and bushing
- ⑤ The thickness of the ceiling to which the remote controller is installed must be between 9 mm (3/8 inch) and 25 mm (1 inch).
- ⑥ Install the unit on the ceiling or on the wall where the signal can be received from the wireless remote controller.
The area where the signal from the wireless remote controller can be received is 45° and 7 m (22 ft) away from the front of the signal receiving unit.
- ⑦ Install the signal receiving unit to the position depending on the indoor unit model.
- ⑧ Connect the remote controller wire securely to the order wire. To pass the remote controller wire through the conduit, follow the procedure as shown in [Fig. 8-10].

[Fig. 8-10]

- Ⓐ Fix tightly with tape. Ⓒ Order wire
- Ⓑ Remote controller wire

Note:

- The point where the remote controller wire is connected differs depending on the indoor unit model.
Take into account that the remote controller wire cannot be extended when selecting the installation site.
- If the Signal Receiving Unit is installed near a fluorescent lamp specially inverter type, signal interception may occur.
Be careful for installing the Signal Receiving Unit or replacing the lamp.

(2) Use the remote controller wire to connect it to the connector (CN90) on the controller circuit board on the indoor unit.

Refer to the 2) Setting the Pair Number Switch for details on controller circuit board on the indoor unit.

(3) Seal the Signal Receiving Unit cord lead-in hole with putty in order to prevent the possible entry of dew, water droplets, cockroaches, other insects, etc.

[Fig. 8-11]

- Ⓐ 150 mm (5 - 15/16 inch)
- Ⓑ Remote controller wire (Accessory)
- Ⓒ Wiring pipe
- Ⓓ Locknut
- Ⓔ Bushing
- Ⓕ Switch box
- Ⓖ Seal around here with putty

- When installing on the switch box, seal the connections between the switch box and wiring pipe with putty.

[Fig. 8-11]

- Ⓖ Seal around here with putty
- Ⓕ Remote controller wire
- Ⓓ Seal around here with putty

- When opening a hole using a drill for Signal Receiving Unit wire (or taking the wire out of the back of the Signal Receiving Unit), seal that hole with putty.
- When routing the wire via the portion cut off from the upper case, equally seal that portion with putty.

(4) Install the remote control wire to the terminal block. [Fig. 8-12]

(5) Installing hole when the Signal Receiving Unit is installed on the wall direct. [Fig. 8-13]

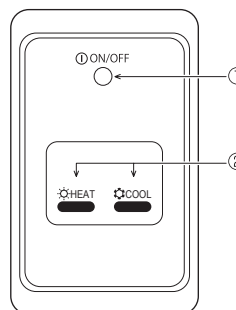
- Cut the thin-wall portion inside the bottom case (oblique section) by a knife or a nipper.
- Take out the connected remote controller wire to the terminal brock through this space.

(6) Install the lower case on the switch box or directly on the wall. [Fig. 8-14] Mounting the cover [Fig. 8-15]

⚠ Caution:

- Insert the cover securely until the clicking sound is made. If not doing so, the cover may fall.

■ Emergency Operation for Wireless Remote-controller



① **ON/OFF lamp** (lit when unit is operating; unlit when unit is not operating)

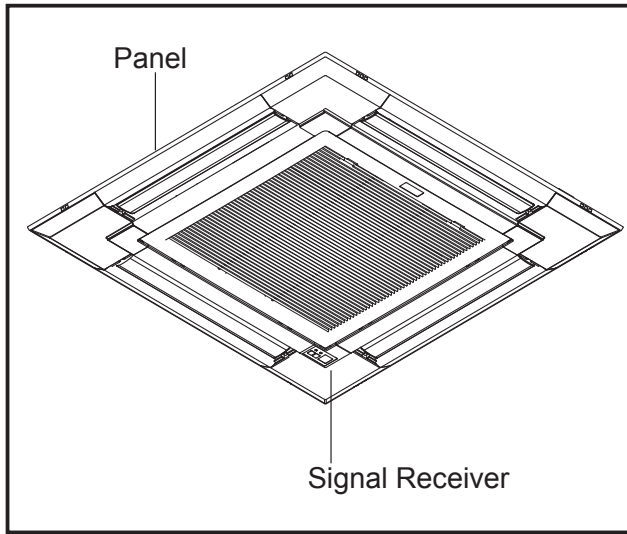
② Emergency operation

In cases where the remote control unit does not operate properly, use either the HEAT or COOL button on the wireless remote control signal receiver to toggle the unit on or off. On cooler only units, pushing the HEAT button toggles the fan on and off.

Pressing the COOL or HEAT button selects the following settings.

Operation mode	COOL	HEAT
Preset temperature	24 °C/75 °F	24 °C/75 °F
Fan speed	High	High

Figure



Descriptions

- Integrate the Signal Receiver in the corner panel (the opposite side of refrigerant piping).
- Applicable only for PLA-A-EA7 models.

Applicable Models

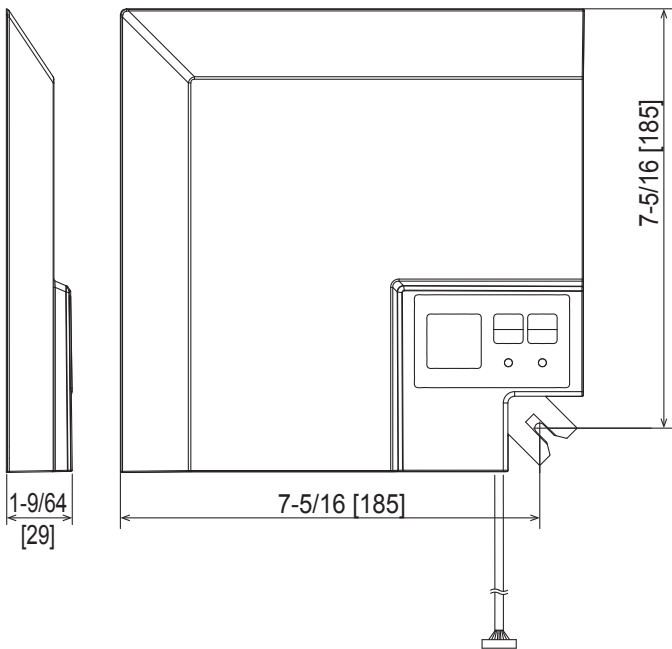
- PLA-A12/18/24/30/36/42EA7

Specifications

Model name	PAR-SR3FA-E
Operation indicator lamp	During operation: LED (green) lights, Abnormal condition: LED (green) blinks, Preparing for heating operation: LED (orange) lights
Emergency operation	Cooling/heating switch (operate/stop) equipped.
Number of controllable units	Maximum 16 refrigerant systems in one group (At least one wireless signal receiving kit must be installed to each refrigerant system.)
Adapter wiring	Connect the 9-core cord with connector (attached) to CN90 of the indoor controller board of the indoor unit.
Signal distance	Within 7m in 45 degrees range from the front of the Signal Receiver

Dimensions

Unit: inch [mm]



How to Use / How to Install

1 Preparation for installing SIGNAL RECEIVER

※Make sure to turn off the main power before work.

1. Open the intake grille and remove the corner panel. The corner panel is in opposite to where refrigerant pipes are (where local wires are drawn into).

Note:

- Discard only the removed corner panel.
- Reuse the screw of the removed corner panel to install the signal receiver.
- When installing the signal receiver during grille installation, complete the wiring work of grille before proceeding to the following procedure.

2. Loosen the 2 screws on the control box cover, and remove the control box cover by sliding; however, in this installation, the cover can hang temporarily.

3. Specify the target unit for wireless remote controller operation. Follow the procedure below to set the pair number on the indoor controller board and the wireless remote controller.

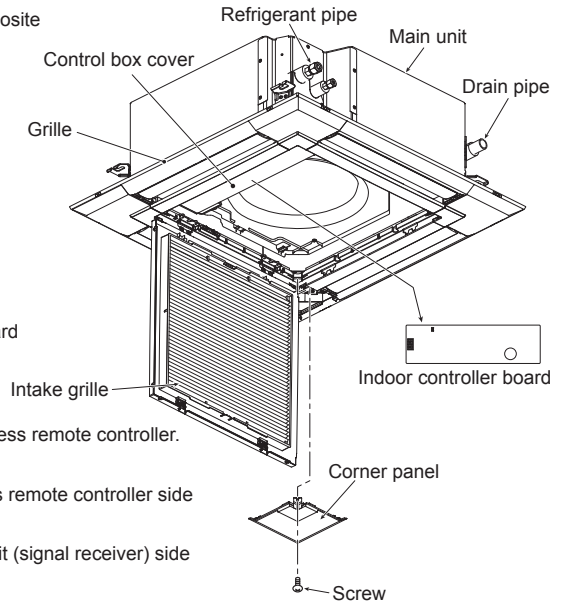
■ Setting pair number

- The pair number setting is to specify the unit which is to be operated by wireless remote controller.

When specifying the unit is not required, this setting is not necessary.

The pair number is set to "0" on indoor unit (signal receiver) side and wireless remote controller side at an initial setting.

- When specifying the unit is required, match the pair number on the indoor unit (signal receiver) side and on the wireless remote controller side as shown in the table below.

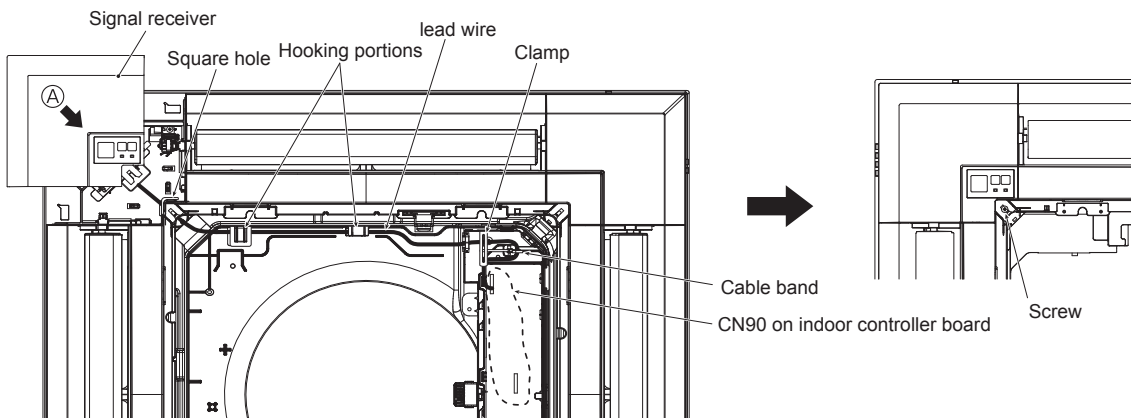


Pair number of wireless remote controller	Pair number of indoor unit		
	• When the unit is in combination with PLA-EA Cut jumper wire J41, J42, or both on the indoor controller board.	• When the unit is in combination with PLFY-EM Set SW22.	
		SW 22-3	SW 22-4
0	No need to cut.	ON	ON
1	Cut only J41.	OFF	ON
2	Cut only J42.	ON	OFF
3 to 9	Cut J41 and J42.	OFF	OFF

2 Installing SIGNAL RECEIVER

- Installation procedure for the standard location

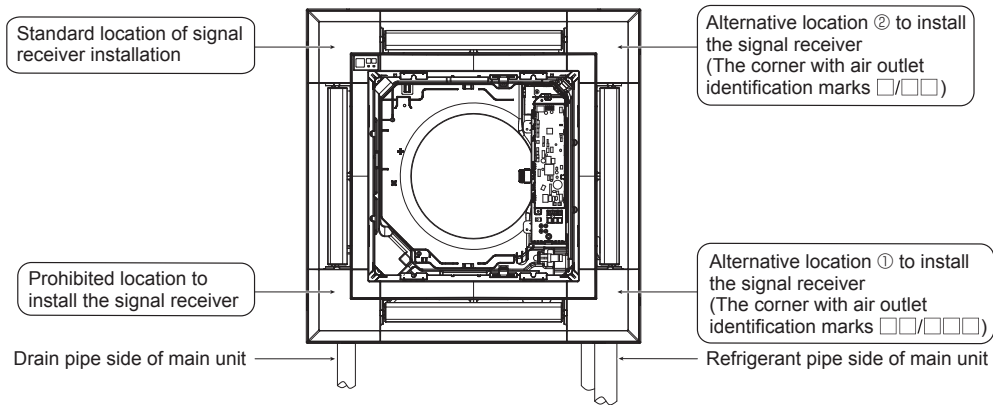
1. Pull out the lead wire of signal receiver from the square hole located in the corner of grille, where the removed corner panel was in the preparation procedure.
2. Pass the lead wire through the 2 hooking portions and inside the control box, and connect it to CN90 on the indoor controller board as shown below.
Adjust the lead wire length to allow the corner panel to be removed again, and fix it with the cable band.
3. Install the signal receiver by sliding it towards the arrow A, and fix in the corner with the screw.
(Reuse the screw which was used to fix the removed corner panel.)



4. After completing the installation, attach the control box cover to the unit as it was.

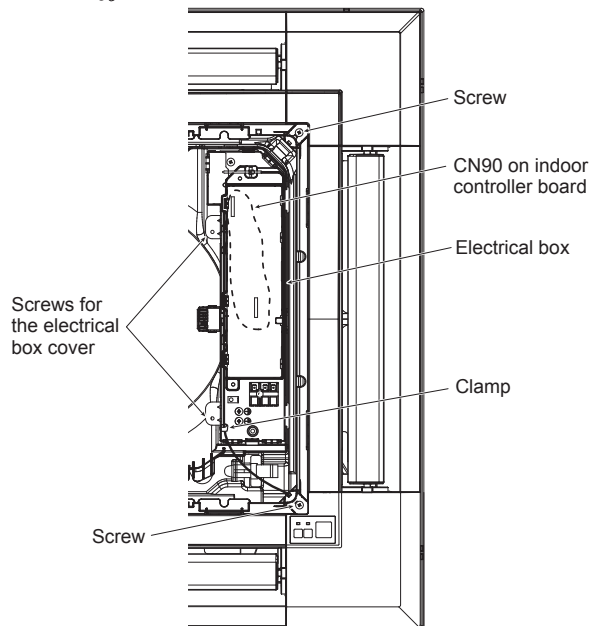
Signal Receiver PAR-SR3LA-E

- To install the signal receiver to the 2 locations other than the standard location, follow the procedure below.



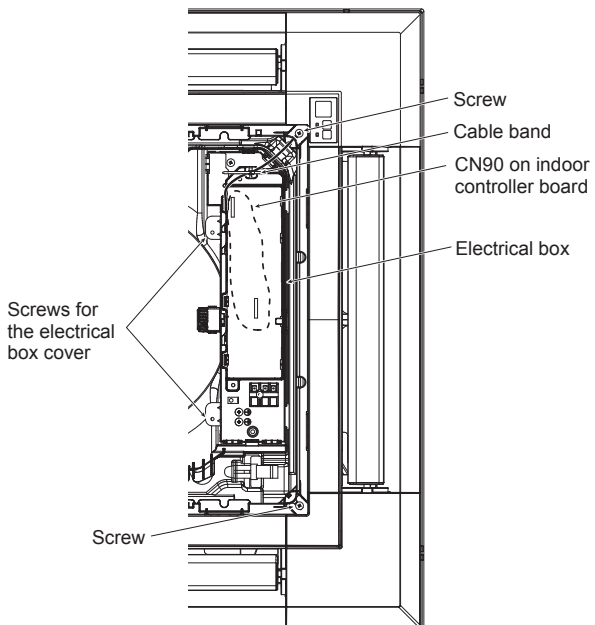
● Installation procedure for the alternative location ①

1. Pass the lead wire of signal receiver through the square hall located in the corner of grille.
2. Loosen the 2 screws fixing the electrical box cover on the unit, and slide the cover to open.
3. Route the lead wire of signal receiver (white, 9 poles) from the electrical box side on the unit, and certainly connect it to CN90 on the indoor controller board.
4. The lead wire of signal receiver must be held together without slack using the clamp into the electrical box.
5. Follow the reverse procedure of 2 to reinstall the electrical box cover on the unit.
6. Install the signal receiver to the grille and fix with the screws.



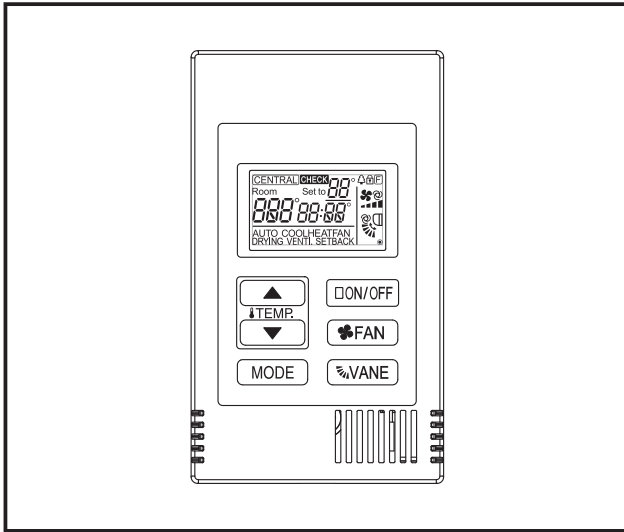
● Installation procedure for the alternative location ②

1. Pass the lead wire of signal receiver through the square hall located in the corner of grille.
2. Loosen the 2 screws fixing the electrical box cover on the unit, and slide the cover to open.
3. Route the lead wire of signal receiver (white, 9 poles) from the electrical box side on the unit, and certainly connect it to CN90 on the indoor controller board.
4. The lead wire of signal receiver must be held together without slack, and fixed with the cable band into the electrical box.
5. Follow the reverse procedure of 2 to reinstall the electrical box cover on the unit.
6. Install the signal receiver to the grille and fix with the screws.





Photo



Descriptions

New functions have been added to the CITY MULTI series that enable the setting of certain indoor unit functions (such as static pressure) from the remote controller. (For more detailed information, please contact your nearest sales office or distributor.)

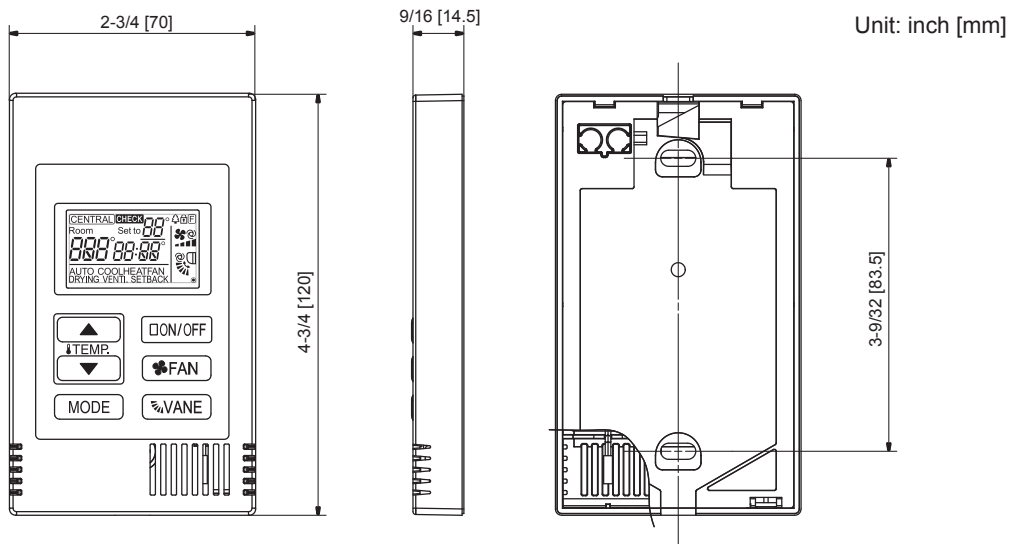
Applicable Models

- PKA-A12/18HA7
- PKA-A24/30/36KA7
- PCA-A24/30/36/42KA7
- PLA-A12/18/24/30/36/42EA7

Specifications

	Specifications
Product size	70 (W) × 120 (H) × 14.5 (D) mm (2-3/4 × 4-3/4 × 9/16 [in]) (not including the protruding part)
Net weight	0.1 kg (1/4 lb.)
Rated power supply voltage	12 VDC (supplied from indoor units)
Power consumption	0.3 W
Usage environment	Temperature 0 ~ 40°C (32 ~ 104°F) Humidity 30 ~ 90%RH (with no dew condensation)
Material	PC + ABS

Dimensions

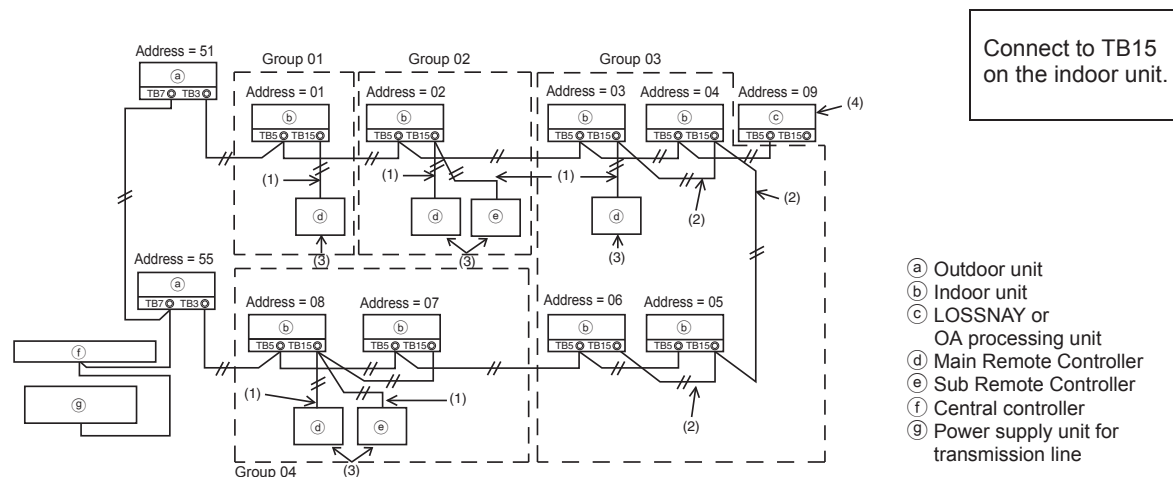


3 How To Wire Transmission Line

The wiring is different when the remote controller is connected to a CITY MULTI control system (“-A” type and later) and when it is connected to a M-Series and P-Series air conditioner (A control type). The wiring also differs with the system configuration. Check the system used.

1. Connecting to CITY MULTI control system

The numbers (1) to (4) in the figure correspond to items (1) to (4) in the following description.



(1) Wiring from the remote controller

- Connect to the MA remote controller terminal block (TB15) on the indoor unit.
- The terminal block has no polarity. Connect to the terminal block at the rear bottom of the remote controller.

(2) Operating in a group (Groups 03, and 04 above)

- Interconnect the MA remote controller terminal block (TB15) of the indoor units you want to operate as a group, and connect the MA remote controller to that point.
- When the remote controller is used in combination with the system controller as shown in the figure above, group setting at the system controller (central controller in the figure above) is necessary.


(3) Number of connectable remote controllers (groups 02 and 04)

- A main remote controller and one sub remote controller, a total of two, can be connected to a group made up of indoor units.

NOTE: When using this Simple MA remote controller in combination with other MA remote controllers, be sure to follow the compatibility rules below.

Indoor unit function	Main remote controller	Sub remote controller	Compatibility
Models applicable for AUTO (dual set point) and SETBACK mode	This Simple MA remote controller	This Simple MA remote controller	Compatible, and AUTO (dual set point) and SETBACK mode can be used depending on the indoor units to be connected.
	Other MA remote controllers	This Simple MA remote controller	Compatible, but AUTO (dual set point) and SETBACK mode cannot be used.
	This Simple MA remote controller	Other MA remote controllers	Incompatible
Models not applicable for AUTO (dual set point) and SETBACK mode	Combination with all of the above		Compatible

- (4) To interlock to a LOSSNAY or OA processing unit, make the following settings using the remote controller. (For a description of how to set an interlock, see section (7 | Ventilation Setting).)
Set the LOSSNAY or OA processing unit address and the address of all the indoor units you want to interlock.
- (5) Total length of remote controller wiring
- The simple MA controller can be wired up to 200 m (656 ft). Procure 0.75 - 1.25 mm² (stranded 16 - 28 AWG), 2-core cable at the installation site.

⚠ CAUTION	Remote controllers cannot be wired together. Only one wire can be connected to the remote controller terminal block.	
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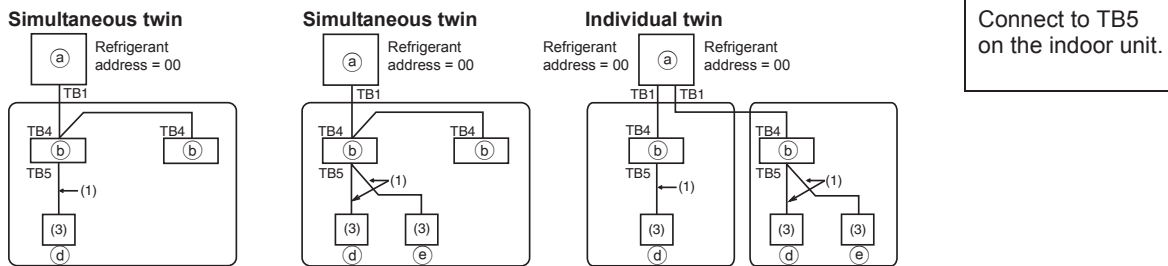
NOTE: When interlocking the MA remote controller with a LOSSNAY or OA processing unit, always set the address of all the indoor units in the group and the address of the LOSSNAY or OA processing unit.

2. Connecting to M-Series and P-Series air conditioner

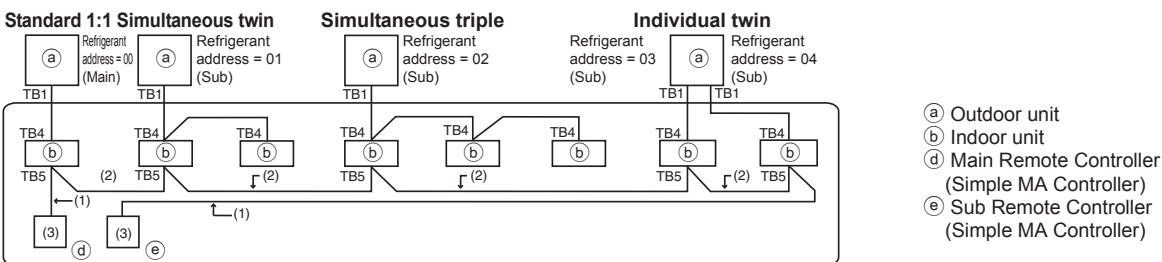
The remote controller wiring depends on the system configuration. Check the system configuration. Wire the remote controller as shown in the example below.

The numbers (1) to (3) in the figure correspond to items (1) to (3) in the following description.

- [1] Connecting the remote controller for each refrigerant system (Standard 1:1, simultaneous twin, simultaneous triple, simultaneous four, individual twin)



- [2] When grouping by different refrigerant systems



- * Set the refrigerant address using the outdoor unit dip switches. (For more information, refer to the outdoor unit installation manual.)
- * All the indoor units enclosed in are controlled as one group.
 - (1) Wiring from remote controller
 - Connect to indoor unit TB5 (remote controller terminal block). (The terminal block has no polarity.)
 - For simultaneous multi type, when mixing various types of indoor units, always connect the remote controller to the indoor unit with the most functions (wind velocity, vane, louver, etc.).
 - (2) When grouping with difference refrigerant systems
 - Group using the remote controller wiring. Connect the remote controller to an arbitrary indoor unit of each refrigerant system you want to group.
 - When mixing different types of indoor units in the same group, always make the outdoor unit connecting the indoor unit with the most functions (wind velocity, vane, louver, etc.) the Main unit (refrigerant address = 00). Also, when the Main unit is the simultaneous multi type, always satisfy the conditions of (1) above.
 - The Simple MA Remote Controller can control up to 16 refrigerant systems as one group.

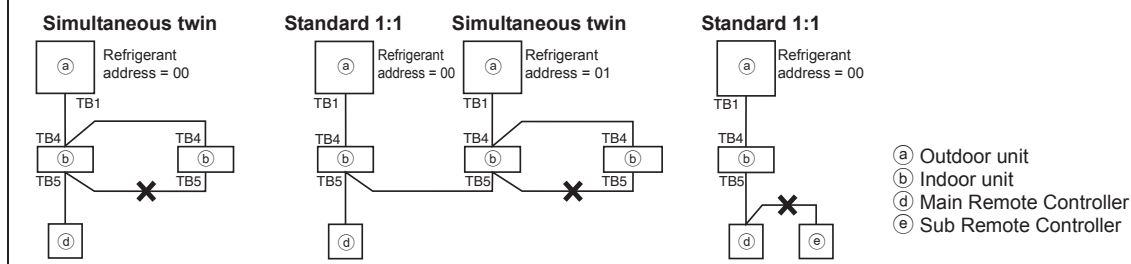
- (3) Up to two remote controllers can be connected to one group
- When two remote controllers are connected to one group, always set the Main remote controller and Sub remote controller.
 - When only one remote controller is connected to one group, set it as the Main controller. When two remote controllers are connected to one group, set the Main remote controller and Sub remote controller. (For a description of how to set the Main/Sub switch, see step 5 in section [5 How To Install](#) .)

NOTE: When using this Simple MA remote controller in combination with other MA remote controllers, be sure to follow the compatibility rules below.

Indoor unit function	Main remote controller	Sub remote controller	Compatibility
Models applicable for AUTO (dual set point) and SETBACK mode	This Simple MA remote controller	This Simple MA remote controller	Compatible, and AUTO (dual set point) and SETBACK mode can be used depending on the indoor units to be connected.
	Other MA remote controllers	This Simple MA remote controller	Compatible, but AUTO (dual set point) and SETBACK mode cannot be used.
	This Simple MA remote controller	Other MA remote controllers	Incompatible
Models not applicable for AUTO (dual set point) and SETBACK mode	Combination with all of the above		Compatible

- (4) Total length of remote controller wiring
- The Simple MA Remote Controller can be wired up to 200 m (656-1/8 ft). Procure 0.75 ~ 1.25 mm² (16 ~ 28 AWG), 2-core cable at the installation site.

⚠ CAUTION - The wiring cannot be connected to TB5 of the indoor unit of the same refrigerant system. If so connected, the system will not operate normally.
 - Remote controllers cannot be wired together. Only one wire can be connected to the remote controller terminal block.
 - When connecting to TB5, connect up to two wires of the same size to one terminal block.



4 How To Install

This remote controller is for the wall installation. It can be installed either in the switch box or directly on the wall. When performing direct wall installation, wires can be thread through either back or top of the remote controller.

(1) Selecting an installation site

Install the remote controller (switch box) on the site where the following conditions are met.

- A flat surface
- A place where the remote controller can measure the accurate indoor temperature
 Sensors to monitor indoor temperature are on the indoor unit and on the remote controller. When the room temperature is monitored with the sensor on the remote controller, the built-in sensor on the Main remote controller monitors the room temperature. When using the sensor on the remote controller, follow the instructions below.

- To monitor the accurate indoor temperature, install the remote controller away from direct sunlight, heat sources, and the supply air outlet of the air conditioner.
- Install the remote controller in a location that allows the sensor to measure the representative room temperature.
- Install the remote controller where no wires are routed around the temperature sensor on the controller. (If wires are routed, the sensor cannot measure accurate indoor temperature.)

Important

Do not install the controller in a place where the difference between the remote controller surface temperature and the actual room temperature will be great. If the temperature difference is too high, room temperature may not be adequately controlled.

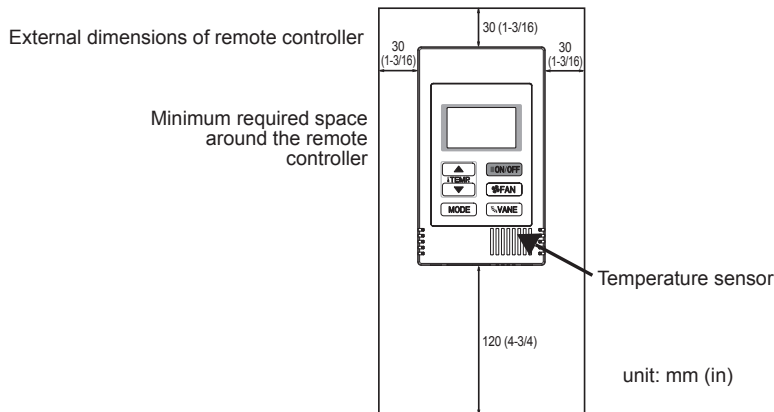
To reduce the risk of malfunctions, do not install the controller in a place where water or oil may come into contact with the controller, or in a condensing or corrosive environments.

To avoid deformation and malfunction, do not install the remote controller in direct sunlight or where the ambient temperature may exceed 40°C (104°F) or drop below 0°C (32°F).

Do not install the remote controller directly onto electrically conductive objects such as metal plate that has not been painted.

(2) Installation space

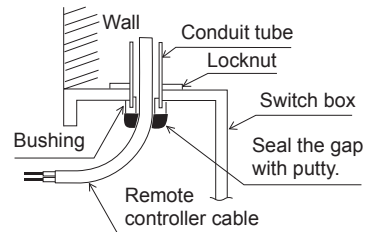
Leave a space around the remote controller as shown in the figure shown below, regardless of whether the controller is installed in the switch box or directly on the wall. Removing the remote controller will not be easy with insufficient space. Also, leave an operating space in front of the remote controller.



(3) Installation work

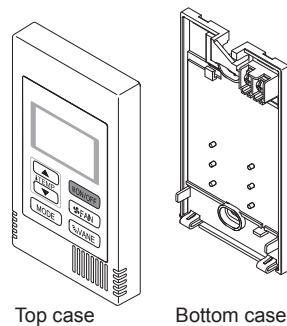
Controller can be installed either in the switch box or directly on the wall. Perform the installation properly according to the installation method.

- ① **Drill a hole in the wall.**
 - Installation using a switch box
 - Drill a hole in the wall, and install the switch box on the wall.
 - Connect the switch box to the conduit tube.
 - Direct wall installation
 - Drill a hole in the wall, and thread the cable through it.
- ② **Seal the cable access hole with putty**
 - Installation using a switch box
 - Seal the remote controller cable access hole at the connection of switch box and conduit tube with putty.



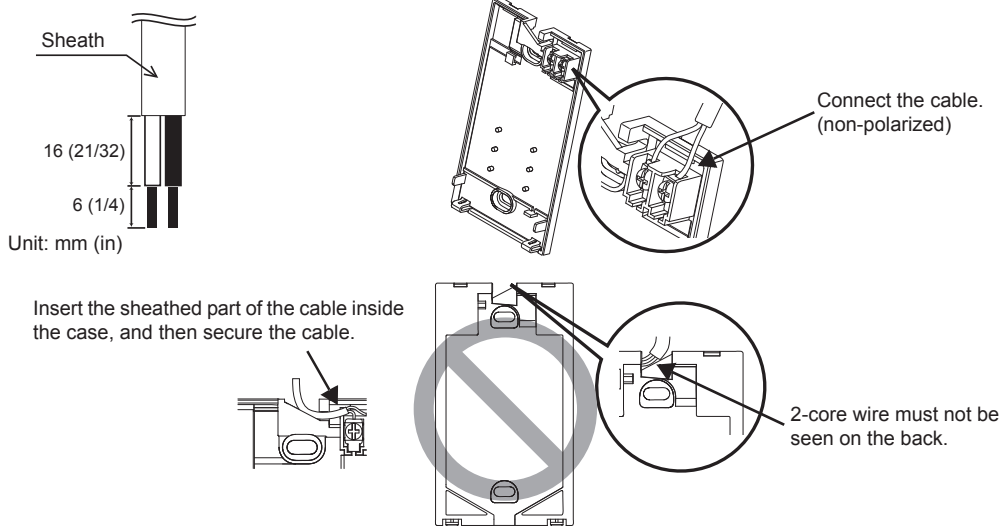
To reduce the risk of electric shock, malfunctions, or fire, seal the gap between the cables and cable access holes with putty.

③ Prepare the bottom case of the remote controller.



④ Connect the remote controller cable to the terminal block on the bottom case.

Peel off the remote controller cable sheath as shown below to connect to the terminal block properly. Secure the remote controller cable so that the peeled part of the cable will fit into the case.



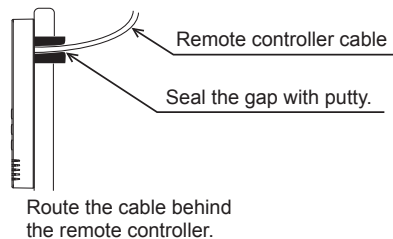
■ Direct wall installation

- Seal the hole through which the cable is threaded with putty.

To reduce the risk of electric shock, shorting, or malfunctions, keep wire pieces and sheath shavings out of the terminal block.

Important

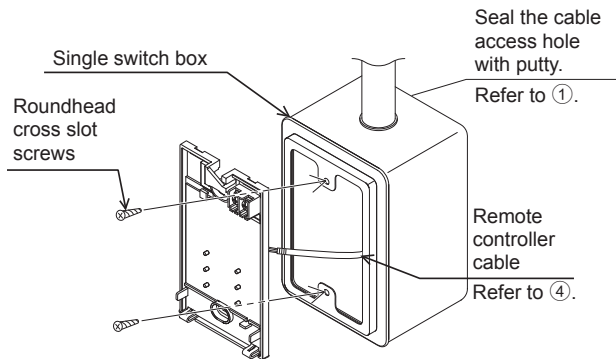
Do not use solderless terminals to connect cables to the terminal block. Solderless terminals may come in contact with the circuit board and cause malfunctions or damage the controller cover.



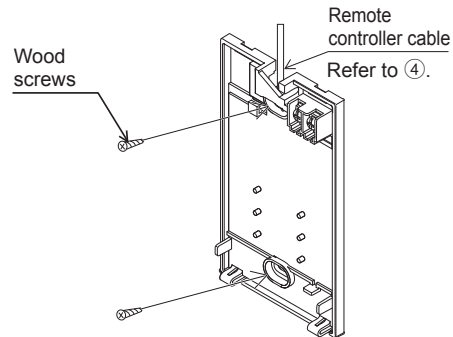
⑤ Install the bottom case.

Be sure to secure two places of the bottom case.

■ Installation using a switch box



■ Direct wall installation



Important

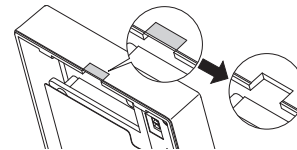
To avoid deformation and damage to the bottom case, do not overtighten the screws.

To avoid damage to the bottom case, do not make holes on it.

⑥ Cut out the cable access hole.

■ Direct wall installation (when running the cable along the wall)

- Cut out the thin-wall part on the cover (the shaded area in the right figure) with a knife or a nipper.
- Thread the cable from the groove behind the bottom case through this access hole.



⑦ Set the dip switches on the top case.

When using two remote controllers in one group, set the dip switches.

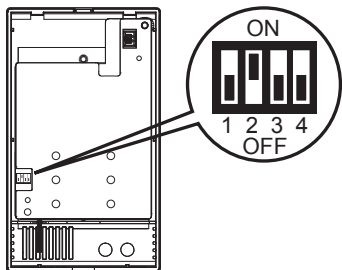
When using two remote controllers in one group, specify the main and sub remote controllers using dip switch No. 1 shown below.

- When connecting only one remote controller to one group, it is always the main remote controller. When connecting two remote controllers to one group, set one remote controller as the main remote controller and the other as the sub remote controller.
- The factory setting is "Main".

Setting the dip switches

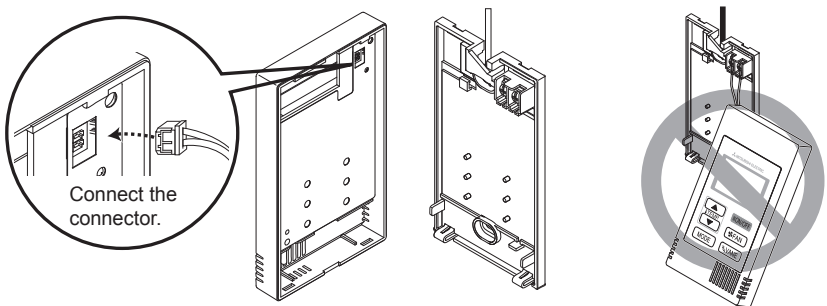
There are switches on the back of the top case. Remote controller Main/Sub and other function settings are performed using these switches. Ordinarily, only change the Main/Sub setting of SW1. (The factory settings are ON for SW1, 3, and 4 and OFF for SW2.)

SW No.	SW contents Main	ON	OFF	Comment
1	Remote controller Main/Sub setting	Main	Sub	Set one of the two remote controllers at one group to "ON".
2	Temperature display units setting	Celsius	Fahrenheit	When the temperature is displayed in [Fahrenheit], set to "OFF".
3	Cooling/heating display in AUTO mode	Yes	No	When you do not want to display "Cooling" and "Heating" in the AUTO mode, set to "OFF".
4	Indoor temperature display	Yes	No	When you do not want to display the indoor temperature, set to "OFF".



⑧ Connect the connector to the top case.

Connect the connector on the bottom case to the socket on the top case.



Important

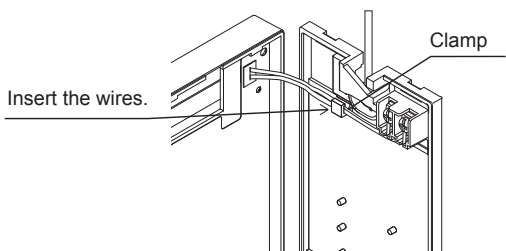
To prevent malfunctions, do not remove the protective sheet or the circuit board from the top case.

To prevent cable breakage and malfunctions, do not hang the top controller casing hang by the cable as shown in the figure above.

⑨ Insert the wires into the clamp.

Important

Hold the wires in place with the clamp to prevent undue force from being applied to the terminal block and causing cable breakage.

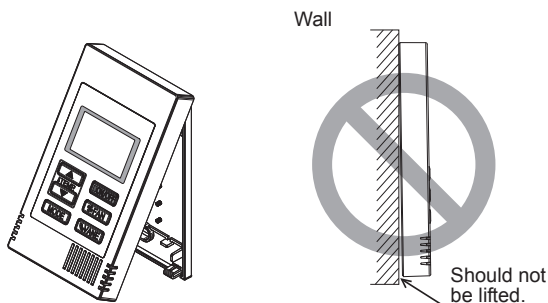


⑩ Install the top case on the bottom case.

Two mounting tabs are at the top of the top case. Hook those two tabs onto the bottom case, and click the top case into place. Check that the case is securely installed and not lifted.

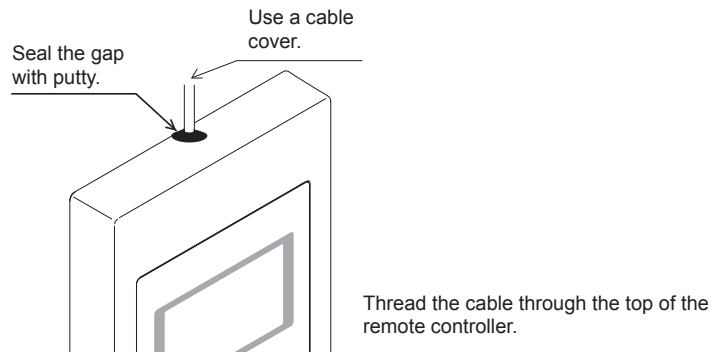
Important

When attaching the top casing to the bottom casing, push it until it they click into place. If they are not properly locked into place, they may fall, causing personal injury, controller damage, or malfunctions.



■ Direct wall installation (when running the cable along the wall)

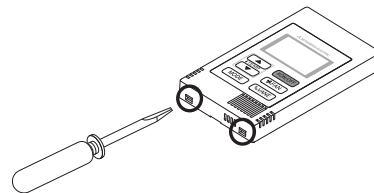
- Thread the cable through the access hole at the top of the remote controller.
- Seal the cut-out part of the cover with putty.
- Use a cable cover.



• **Uninstalling the top case**

① Uninstalling the top case

Insert a flat-tip screwdriver with a blade width of 3-5 mm (1/8-7/32 inch) into the latches at the bottom of the remote controller and lift the latches. Then, pull up the top case.



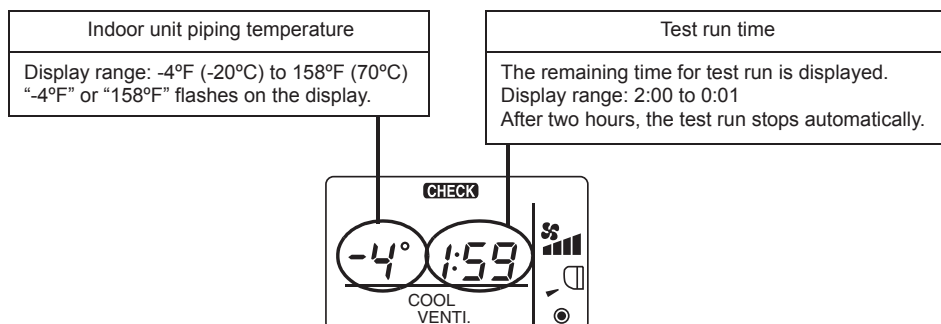
Important

To prevent damage to the controller casing, do not force the flat-tip screwdriver to turn with its tip inserted in the slot.

Do not insert the flat-tip screwdriver too far. Doing so will damage the circuit board.

5 Test Run

1. Before making a test run, refer to the "Test Run" section of the indoor unit installation manual.
2. When the [ON/OFF] button and [TEMP. ▲] button are pressed simultaneously for 2 seconds or longer, test run is performed.
3. Stop the test run by pressing the [ON/OFF] button.
4. If trouble occurred during the test run, refer to the "Test Run" section of the indoor unit installation manual.



6 Ventilation Setting

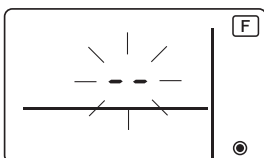
Make this setting only when interlocked operation with LOSSNAY or OA processing unit is necessary with CITY MULTI models.
(This setting cannot be made with M-Series and P-Series air conditioners.)

Perform this operation when you want to register the LOSSNAY or OA processing unit, confirm the registered units, or delete the registered units controlled by the remote controller.

The following uses indoor unit address 05 and LOSSNAY or OA processing unit address 30 as an example to describe the setting procedure.

[Setting Procedure]

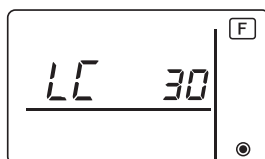
- ① Stop the air conditioner using the remote controller [ON/OFF] button.
- ② Press and hold down the [FAN] and [TEMP. ▼] buttons at the same time for two seconds. The display shown below appears. The remote controller confirms the registered LOSSNAY or OA processing unit addresses of the currently connected indoor units.



- ③ Registration confirmation result
- The indoor unit address and registered LOSSNAY or OA processing unit address are displayed alternately.

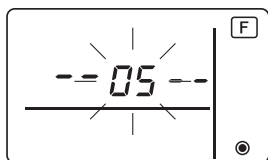


<Indoor unit address and indoor unit display>



<LOSSNAY address display and LOSSNAY display>

- When LOSSNAY or OA processing unit are not registered



- ④ If registration is unnecessary, end registration by pressing and holding down the [FAN] and [TEMP. ▼] buttons at the same time for two seconds.

If a new LOSSNAY or OA processing unit must be registered, go to step **1. Registration procedure.**

If you want to confirm another LOSSNAY or OA processing unit, go to step **2. Confirmation procedure.** To delete a registered LOSSNAY or OA processing unit, go to step **3. Deletion procedure.**

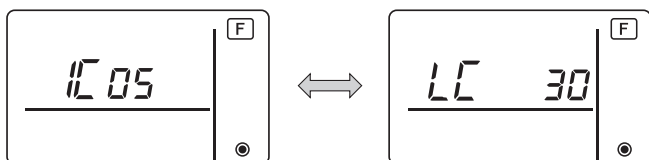
<1. Registration procedure>

- ⑤ Set the address of the indoor unit to be interlocked with the LOSSNAY unit using the [TEMP. ▲] and [TEMP. ▼] buttons. (01 to 50)
- ⑥ After setting, press the [FAN] button and set the Lossnay address you want to register by operating the [TEMP. ▲] and [TEMP. ▼] buttons. (01~50)



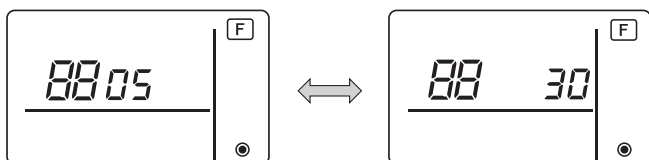
Indoor unit address LOSSNAY or OA processing unit address

- ⑦ Press the [ON/OFF] button, and register the set indoor unit address and LOSSNAY address.
- Registration end display
The indoor unit address and “IC” and LOSSNAY address and “LC” are alternately displayed.



- Registration error display

If the address is not registered correctly, the indoor unit address and [88], and the registered LOSSNAY (or OA processing unit address) and [88] are alternately displayed.

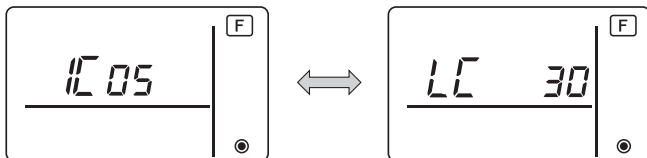


Cannot be registered because the registered indoor unit or LOSSNAY or OA processing unit does not exist.

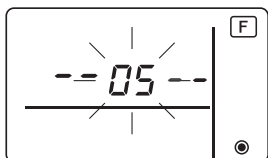
Cannot be registered because another LOSSNAY or OA processing unit was registered at the registered indoor unit.

<2. Confirmation procedure>

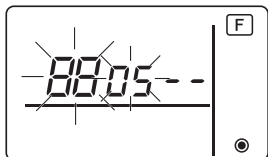
- ⑧ Set the address of the indoor unit connected by the remote controller whose LOSSNAY or OA processing unit you want to confirm using the [TEMP. ▲] and [TEMP. ▼] buttons. (01 to 50)
- ⑨ Press the [ON/OFF] button and [FAN] button simultaneously for 2 seconds, and check the LOSSNAY address registered at the set indoor unit address.
 - Confirmation end display (When LOSSNAY is connected.)
The indoor unit address and "LC" and registered LOSSNAY address and "LC" are alternately displayed.



- Confirmation end display (When LOSSNAY or OA processing unit is not connected.)



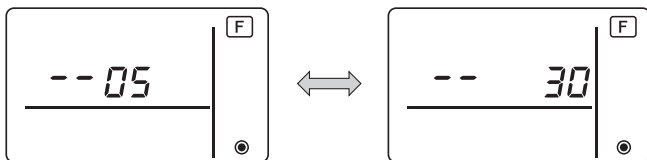
- Registered indoor unit address does not exist.



<3. Deletion procedure>

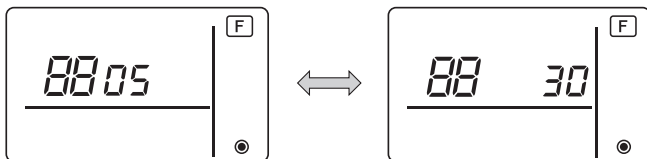
Use this procedure when you want to delete registration of indoor units connected by the remote controller and LOSSNAY or OA processing unit.

- ⑩ Confirm (see 2. Confirmation procedure) the LOSSNAY or OA processing unit you want to delete and display the indoor units and LOSSNAY or OA processing unit confirmation results.
- ⑪ Press the [TEMP. ▲] and [TEMP. ▼] buttons simultaneously for 2 seconds, and delete registration of the LOSSNAY or OA processing unit address registered at the set indoor unit.
 - Deletion end display
Indoor unit address and "--" and registered LOSSNAY or OA processing unit address and "--" are alternately displayed.



- Deletion error display

When deletion was not performed properly.



7 Function Selection for M-Series and P-Series

Make the following settings for M-Series and P-Series if necessary.
 (This setting cannot be made with CITY MULTI Control System. To make CITY MULTI indoor unit settings from the remote controller, refer to section [9](#) | Function Selection for CITY MULTI .)

Set the functions of each indoor unit from the remote controller, as required. The functions of each indoor unit can be selected only from the remote controller.
 Set the functions by selecting the necessary items from Table 1.

Table1. Function selection contents
 (For a detailed description of the factory settings and mode of each indoor unit, refer to the indoor unit installation manual.)

Mode No.	Mode	Settings	Setting No.	Check	Unit numbers
01	Automatic recovery after power failure	Disable	1		Set "00" for the Unit number. These settings apply to all the connected indoor units.
		Enable (Four minutes of standby time is required after the restoration of power.)	2		
02	Thermistor selection (Indoor temperature detection)	Average temperature reading of the indoor units in operation	1		
		Thermistor on the indoor unit to which the remote controller is connected (fixed)	2		
		Built-in sensor on the remote controller	3		
03	LOSSNAY connection	Not connected	1		
		Connected (without outdoor air intake by the indoor units)	2		
		Connected (with outdoor air intake by the indoor units)	3		
04	Power voltage	240 V	1		
		220 V, 230 V	2		
05	AUTO mode	Enable (Automatically the unit achieves effective energy saving operation.)	1		
		Disable	2		
07	Filter sign	100 hours	1		Set "01" to "04" or "AL" for the Unit number. These settings apply to each indoor unit.
		2500 hours	2		
		Not displayed	3		
08	Fan speed	Silent mode (or standard)	1		<ul style="list-style-type: none"> If "01" ("02", "03", "04") is set for the Unit number, the settings apply only to the specified indoor unit regardless of the number of connected indoor units (one through four units). If "AL" is set for the Unit number, the settings apply to all the connected indoor units regardless of the number of connected indoor units (one through four units).
		Standard (or High ceiling 1)	2		
		High ceiling (or High ceiling 2)	3		
09	No. of air outlets	4 directional	1		
		3 directional	2		
		2 directional	3		
10	Installed options (High performance filter)	No	1		
		Yes	2		
11	Vane setting	No vanes (or the vane setting No.3 is effective.)	1		
		Equipped with vanes (The vane setting No.1 is effective.)	2		
		Equipped with vanes (The vane setting No.2 is effective.)	3		

* Static pressure setting can be made by using Mode 08 in combination with Mode 10 depending on the indoor unit model. Refer to the Indoor unit Installation Manual for details.

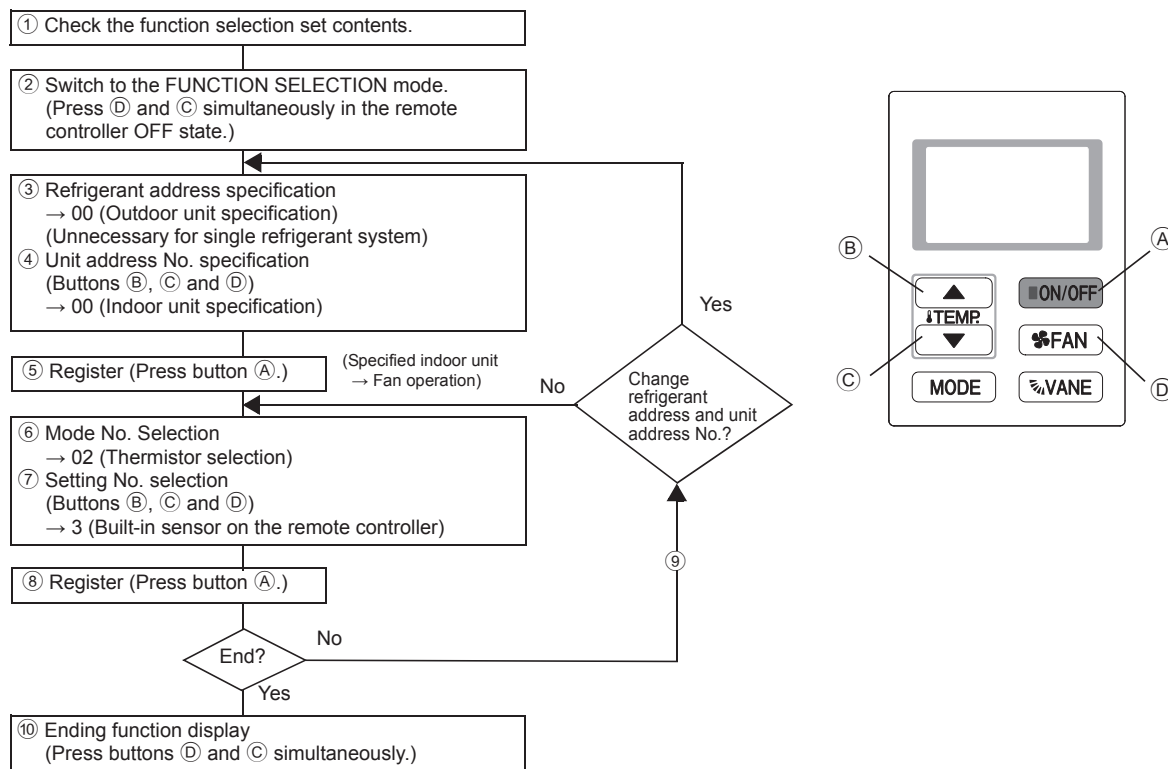
* For mode numbers other than listed above, refer to the indoor unit installation manual.

NOTE: When the indoor unit functions were changed using the function selection after installation is complete, always indicate the set contents by entering check marks or other marks in the appropriate check field of Table 1.

[Function selection flow]

First grasp the function selection flow. The following describes setting of “Thermistor selection” of Table 1 as an example.

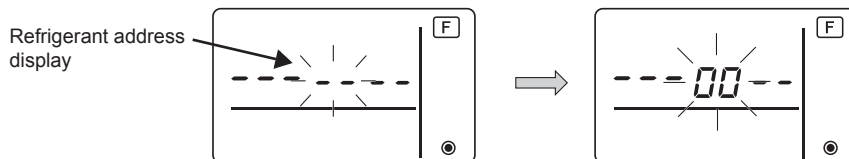
(For the actual setting procedure, see [Setting procedure] ① to ⑩.)



[Setting procedure] (Set only when change is necessary.)

- ① Check the set contents of each mode. When the set contents of a mode were changed by function selection, the functions of that mode also change. Check the set contents as described in steps ② to ⑦ and change the setting based on the entries in the Table 1 check field. For the factory settings, refer to the indoor unit installation manual.

- ② Set the remote controller to Off. Press and hold down the ④ [FAN] and the ③ [TEMP. ▼] buttons at the same time for two seconds or longer. “F (FUNCTION)” blinks for a while, then the remote controller display changes to the display shown below.



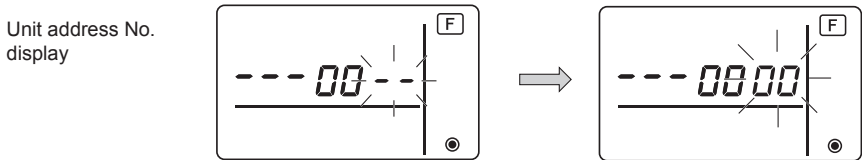
- ③ Set the outdoor unit refrigerant address No. When the ⑤ [TEMP. ▲] and ⑥ [TEMP. ▼] buttons are pressed, the refrigerant address No. decreases and increases between 00 and 15. Set it to the refrigerant address No. whose function you want to select. (This step is unnecessary for single refrigerant system.)

* If the remote controller enters the OFF state after the “[F] (FUNCTION)” and room temperature displays “BB” have flashes for two seconds, communication is probably abnormal. Make sure there are no noise sources near the transmission line.

NOTE: If you make a mistake during operation, end function selection by step ⑩ and repeat selection from step ② .

④ Set the indoor unit address No.

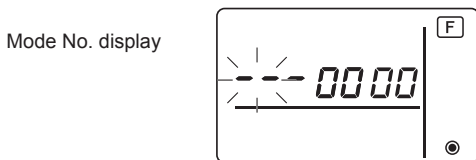
Press the [FAN] button. The unit address No. display “--” flashes.
 When the [TEMP. ▲] and [TEMP. ▼] buttons are pressed, the unit address No. changes in the order of 00 ↔ 01 ↔ 02 ↔ 03 ↔ 04 ↔ AL. Set it to the unit address No. of the indoor unit whose functions you want to set.



- * When setting mode 1 ~ 6, set the unit address No. to “00”.
- * When setting modes 7 to 14:
 - When setting for each indoor unit, set the unit address No. to “01-04”.
 - When batch setting for all indoor units, set the unit address No. to “AL”.

⑤ Refrigerant address and unit address No. registration

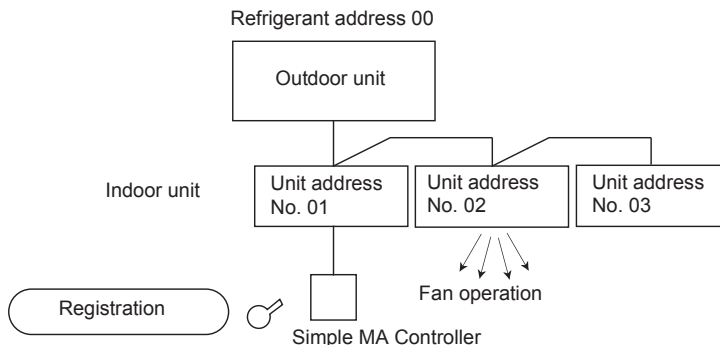
Press the [ON/OFF] button. The refrigerant address and unit address No. are registered.
 After a while, the mode No. display “--” flashes.



* When “BB” flashes at the room temperature display, the selected refrigerant address is not in the system. When “F” is displayed at the unit address No. display, and when it flashes together with the refrigerant address display, the selected unit address No. does not exist. Correctly set the refrigerant address and unit address No. by repeating steps ③ and ④ .

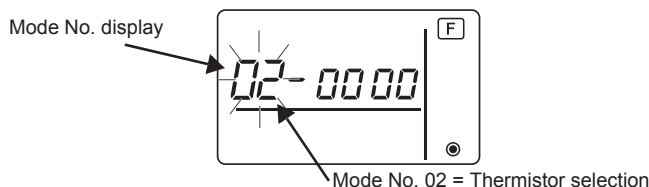
☰ When registered using the [ON/OFF], the registered indoor unit begins fan operation.
 When you want to know the location of the indoor units of the unit address No. whose functions were selected, check here.
 When the unit address No. is 00 or AL, all the indoor units of the selected refrigerant address perform the fan operation.

EX): When refrigerant address 00, unit address No. = 02 registered

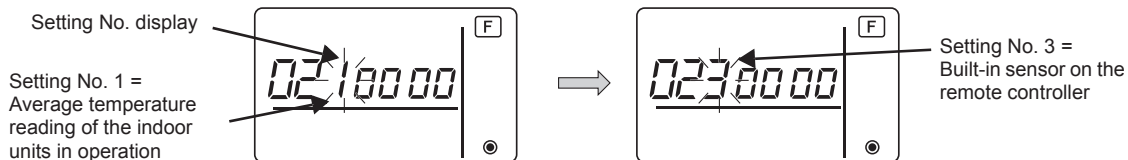


* When grouping by different refrigerant systems and an indoor unit other than the specified refrigerant address performs the fan operation, the refrigerant address set here is probably duplicated.
 Recheck the refrigerant address at the outdoor unit dip switches.

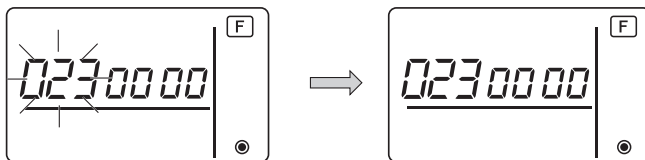
- ⑥ Mode No. selection
 Select the mode No. you want to set with the Ⓑ [TEMP. ▲] and Ⓒ [TEMP. ▼] buttons. (Only the settable mode numbers can be selected.)



- ⑦ Select the setting contents of the selected mode.
 When the Ⓓ [FAN] button is pressed, the current setting No. flashes. Use this to check the currently set contents.
 Select the setting No. using the Ⓑ [TEMP. ▲] and Ⓒ [TEMP. ▼] buttons.



- ⑧ The contents set at steps ③ to ⑦ are registered.
 When the Ⓐ [ON/OFF] button is pressed, the mode No. and setting No. flash and registration begins. The flashing mode No. and setting No. change to a steady light and setting ends.



* When "BB" flashes at the Mode No. display, communication is probably abnormal. Make sure there are no noise sources near the transmission line.

- ⑨ To select more functions, press the Ⓓ [FAN] and repeat steps ③ to ⑧.

- ⑩ End function selection.
 Press and hold down the Ⓒ [TEMP. ▼] and Ⓓ [FAN] buttons at the same time for two seconds or longer.
 After a while, the function selection display disappears and the remote controller returns to the air conditioner off display.

* Do not operate the air conditioner from the remote controller for 30 seconds after the end of function selection.

NOTE: When the functions of an indoor unit were changed by function selection after the end of installation, always indicate the set contents by entering check marks or other marks in the appropriate check field of Table 1.

8 Function Selection for CITY MULTI

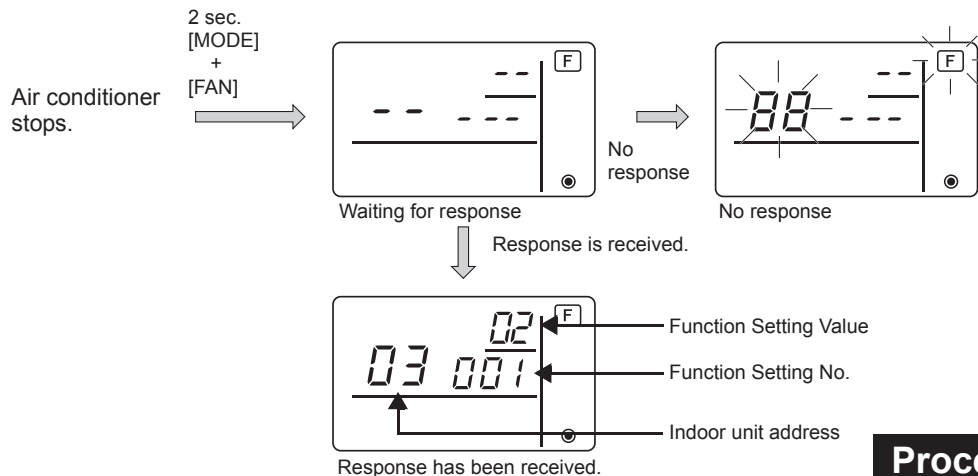
Make this setting only when the function settings need to be changed on CITY MULTI.
(This setting cannot be made with M-Series and P-Series Control System. To make settings for M-Series and P-Series, refer to section (8 | Function Selection for M-Series and P-Series |).)

Set the functions of each indoor unit from the remote controller, as required.
Refer to the Indoor unit Installation Manual for factory settings, mode No., and the setting No. of the indoor units.

NOTE: Be sure to write down any settings that you change performing the following steps.

■ Setting the indoor unit Setting Value

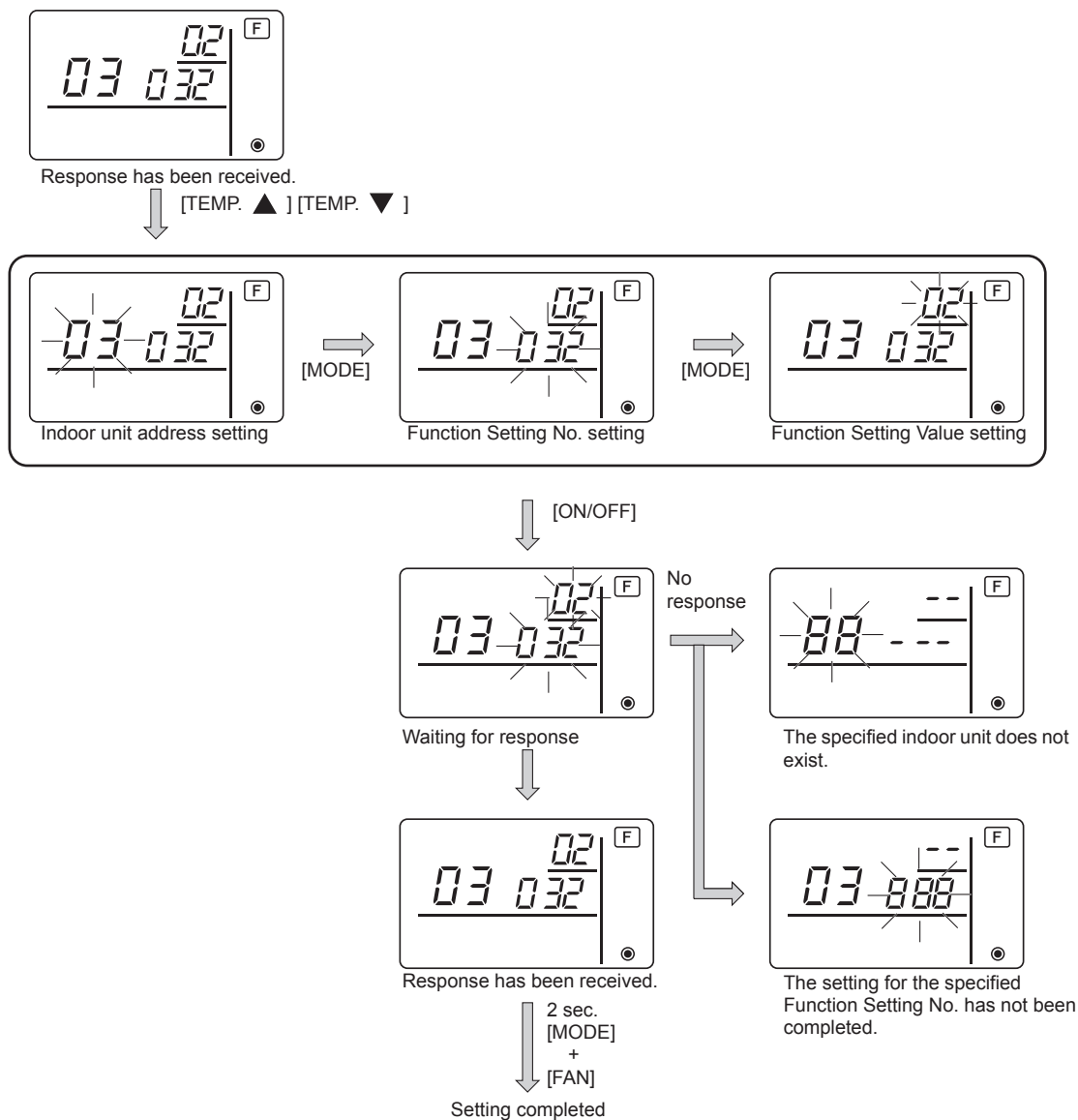
- ① Press the [ON/OFF] button to stop the operation of the air conditioner.
- ② Press and hold down the [MODE] and the [FAN] buttons at the same time for two seconds or longer to check the current settings.
- ③ When the response has been received from the indoor unit, the current settings appear. If there is no response, nothing appears.



Procedure A

- ④ Press the [TEMP. ▲] and the [TEMP. ▼] buttons to set the address of the indoor unit whose settings to be made. (0 to 50)
- ⑤ Press the [MODE] button, then press the [TEMP. ▲] and the [TEMP. ▼] buttons to set the Function Setting No. to be set. (000 to 255)
- ⑥ Press the [MODE] button, then press the [TEMP. ▲] and the [TEMP. ▼] buttons to set the Function Setting Value. to be set (00 to 15)
- ⑦ Press the [ON/OFF] button to set the settings.

- ⑧ If the set settings need to be changed, repeat steps ④ to ⑦.
 To complete the settings, press the [MODE] and the [FAN] buttons at the same time for two seconds or longer.

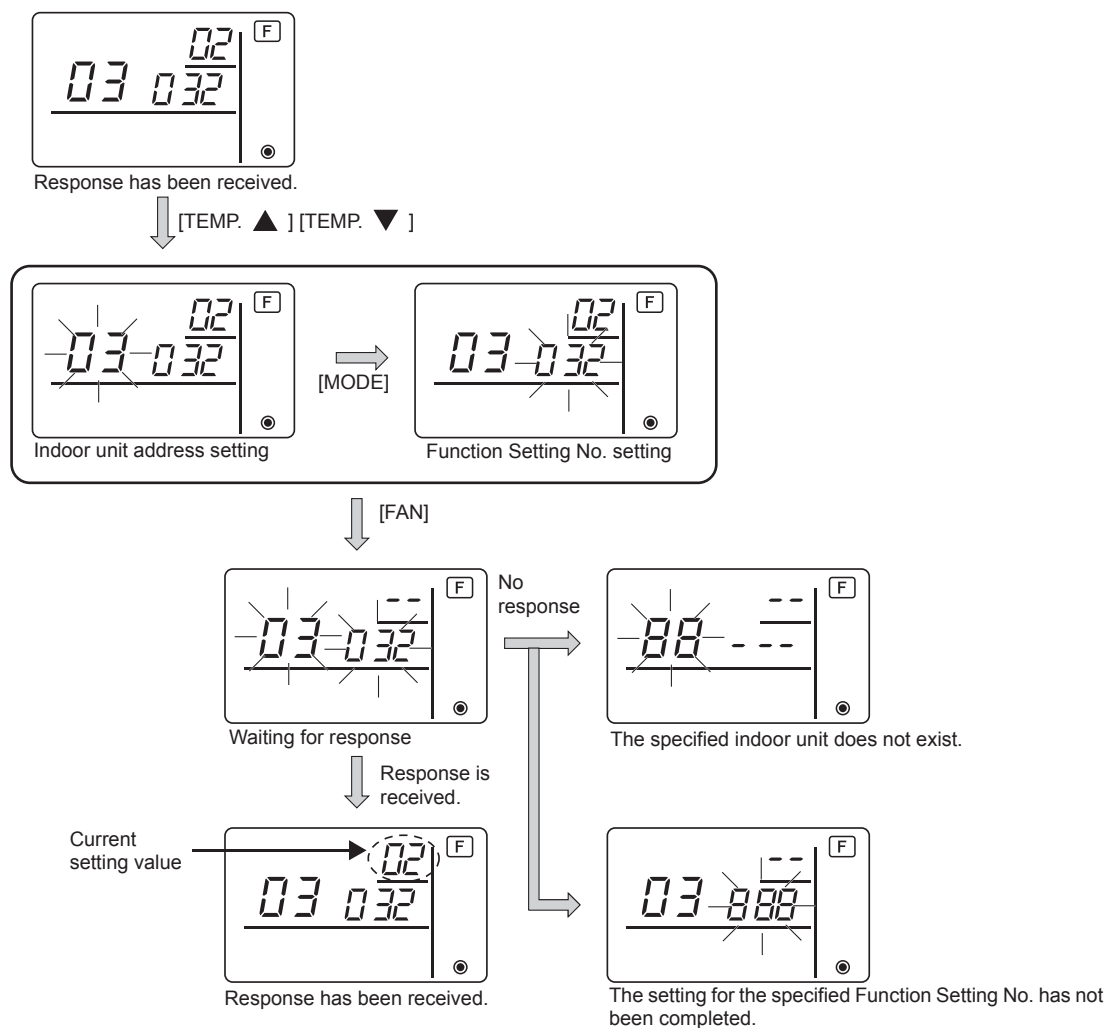


■ Checking the indoor unit Function Setting Value

- ① Perform the Procedure A on the previous page.
- ② Press the [TEMP. ▲] and the [TEMP. ▼] buttons to set the address of the indoor unit whose settings to be checked. (0 to 50)
- ③ Press the [MODE] button, then press the [TEMP. ▲] and the [TEMP. ▼] buttons to set the Function Setting No. to be checked. (000 to 255)
- ④ Press the [FAN] button to display the current Function Setting Value.

⑤ To check the settings, repeat steps ② to ④.

To complete the checking process, press the [MODE] and the [FAN] buttons at the same time for two seconds or longer.



9 Self diagnosis

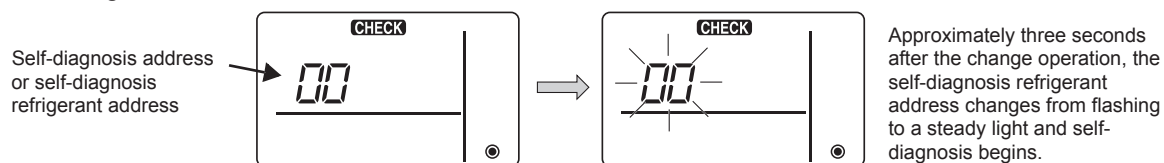
Retrieve the error history of each unit using the Simple MA controller.

① Switch to the self-diagnosis mode.

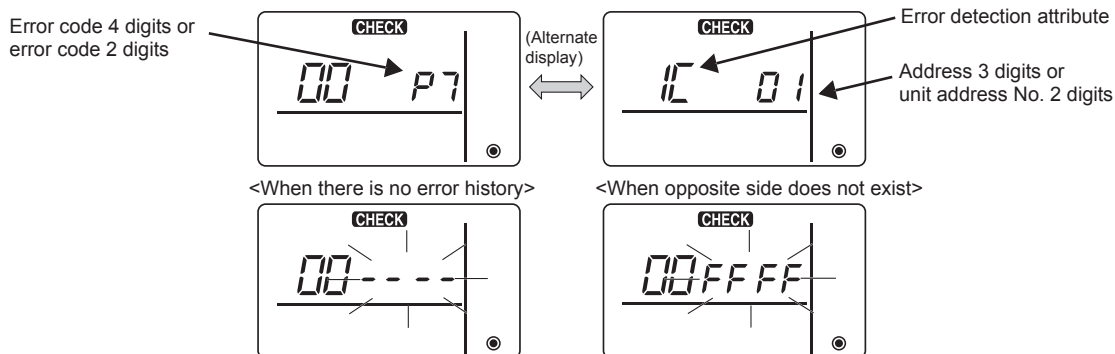
When the ① [ON/OFF] button and the ③ [TEMP. ▼] button are pressed for 5 seconds or longer, the figure shown below is displayed.

② Set the address or refrigerant address No. you want to self-diagnosis.

When the ② [TEMP. ▲] and ③ [TEMP. ▼] are pressed, the address decreases and increases between 01 and 50 or 00 and 15. Set it to the address No. or refrigerant address No. you want to self-diagnosis.

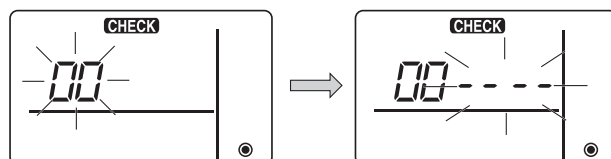


- ③ Self-diagnosis result display <Error history> (For the contents of the error code, refer to the indoor unit installation manual or service handbook.)



- ④ Error history reset

The error history is displayed in ③ self-diagnosis results display.
 When the **D** [FAN] button is pressed two times successively within three seconds, the self-diagnosis object address and refrigerant address flash.
 When the error history was reset, the display shown below appears.
 When error history reset failed, the error contents are displayed again.



- ⑤ Self-diagnosis reset

There are the following two ways of resetting self-diagnosis.

Press the **A** [ON/OFF] button and the **C** [TEMP. ▼] button simultaneously for 5 seconds or longer. → Resets self-diagnosis and returns to the state before self-diagnosis.

Press the **A** [ON/OFF] button. → Self-diagnosis resets and indoor units stop. (When operation is prohibited, this operation is ineffective.)

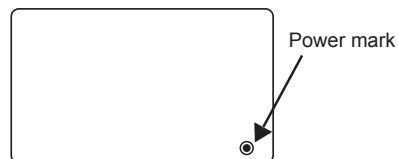
10 Remote Controller Check

When the air conditioner cannot be controlled from the Simple MA controller, use this function to check the remote controller.

- ① First check the power mark.

When normal voltage (DC12V) is not applied to the remote controller, the power mark goes off.

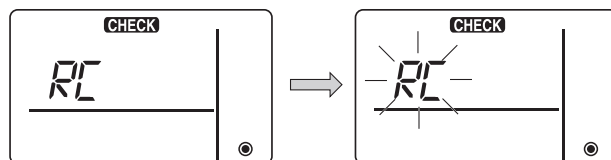
When the power mark is off, check the remote controller wiring and the indoor unit.



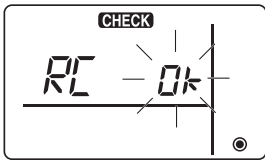
- ② Switch to the remote controller check mode.

When the **B** [TEMP. ▲] button and **D** [FAN] button are pressed simultaneously for 5 seconds or longer, the figure shown below is displayed.

When the **A** [ON/OFF] button is pressed, remote controller check begins.

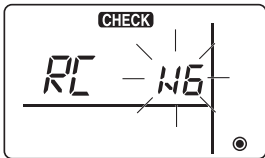


③ Remote controller check result
 <When remote controller is normal>



Since there is no problem at the remote controller, check for other causes.

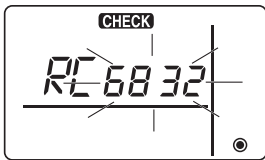
<When remote controller is faulty>



(Error display 1) "NG" flashes → Remote controller send/receive circuit abnormal

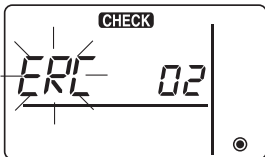
Remote controller switching is necessary.

When the problem is other than the checked remote controller



(Error display 2) "E3" "6833" "6832" flash → Cannot send

There is noise on the transmission line, or the indoor unit or another remote controller is faulty. Check the transmission line and the other remote controllers.



(Error display 3) "ERC" and data error count are displayed → Data error generation

"Data error count" is the difference between the number of bits of remote controller send data and the number of bits actually sent to the transmission line. In this case, the send data was disturbed by the noise, etc. Check the transmission line.

☰ When data error count is 02

Remote controller send data
 Send data on transmission line

④ Remote controller check reset

When the Ⓑ [TEMP. ▲] button and Ⓓ [FAN] button are pressed simultaneously for 5 seconds or longer, remote controller diagnosis is reset and the [HO] and run lamp flash and 30 seconds later the remote controller returns to its state before diagnosis.



Photo



Descriptions

Wireless remote controller for P series and SEZ models.
(The receiver is necessary.)

Applicable Models

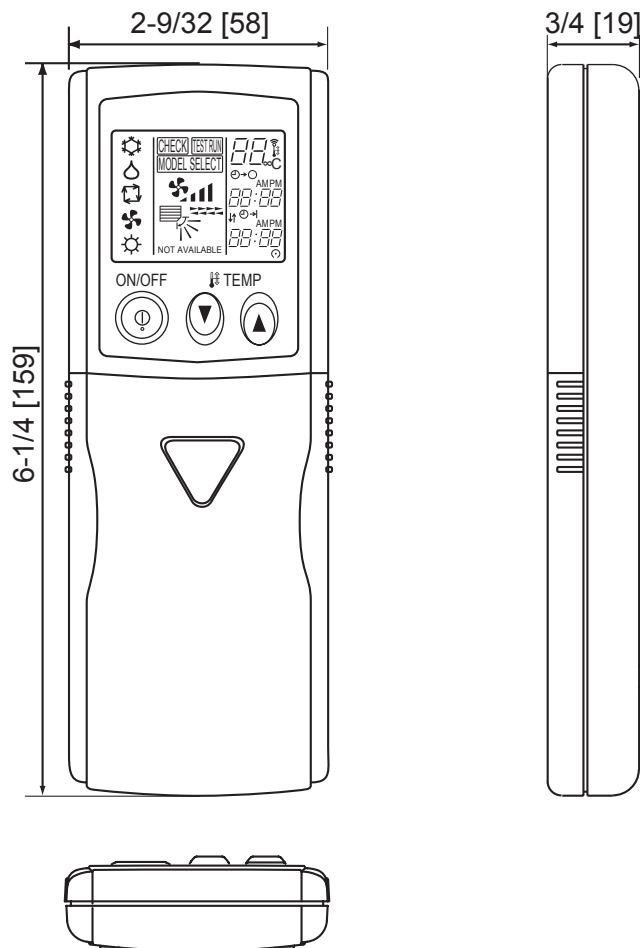
- SEZ-KD09/12/15/18NA4
- PLA-A12/18/24/30/36/42EA7
- PKA-A12/18HA7
- PEAD-A12/18/24/30/36/42AA7
- PKA-A24/30/36KA7
- PVA-A12/18/24/30/36/42AA7
- PCA-A24/30/36/42KA7

Specifications

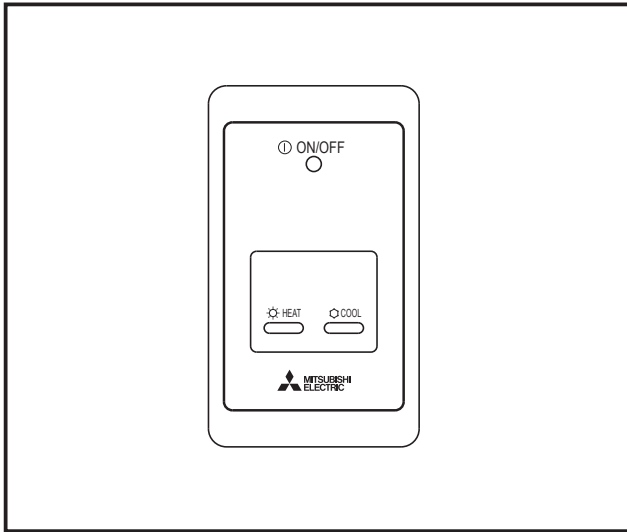
Accessory	"AAA" LR03 alkaline batteries: 2pcs 4.1×16 tapping screws: 2
-----------	---

Dimensions

Unit: inch [mm]



Figure



Descriptions

Enables the use of wireless remote controller.

Applicable Models

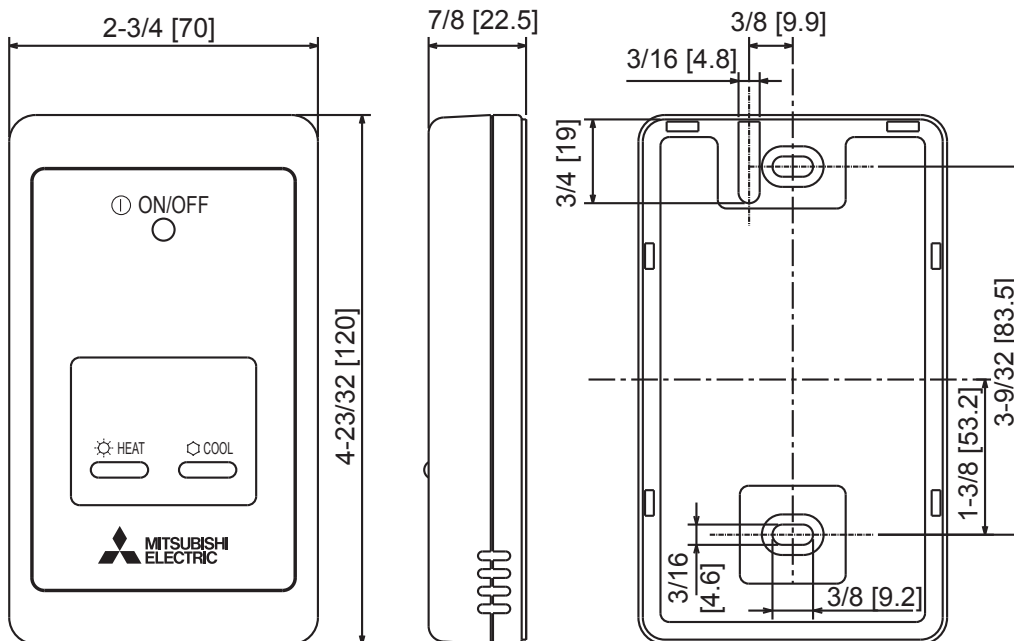
- PKA-A12/18HA7
- PKA-A24/30/36KA7
- PCA-A24/30/36/42KA7
- PLA-A12/18/24/30/36/42EA7
- PEAD-A12/18/24/30/36/42AA7
- PVA-A12/18/24/30/36/42AA7

Specifications

Item	Content
external dimensions	120(H)×70(W)×22.5(D) mm
Weight	0.2kg
Power	DC12V (supplied from indoor unit control)
Temperature	0 ~ 40°C
Humidity	30 ~ 90%RH (no condensing)
Material	ABS
Colour (Munsell)	White Grey (4.8Y7.92/0.66)

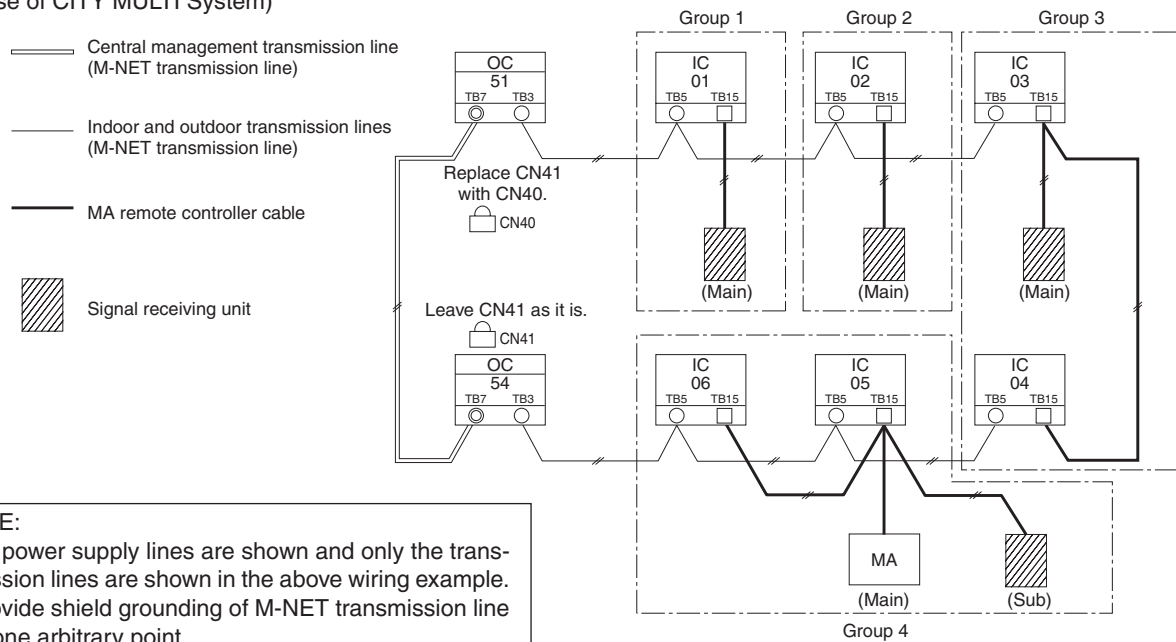
Dimensions

Unit: inch [mm]



Example of System Configuration

The remote controller wire is connected to CITY MULTI System (C type or later).
(In case of CITY MULTI System)



NOTE:

- No power supply lines are shown and only the transmission lines are shown in the above wiring example.
- Provide shield grounding of M-NET transmission line at one arbitrary point.

A main remote controller and a sub remote controller can be connected to each group.

- ① Wiring from signal receiving unit.
 - Connected to MA remote controller wiring terminal block (TB15) on the indoor unit. (The terminal block has no polarities.)
- ② With group operation (group 3 and group 4 above).
 - After wiring the MA remote controller wiring terminal block (TB15) on the group operation indoor unit, connect to the indoor unit with the lowest address within the group.

NOTE: With group operation with a different cooling system, wire only the MA remote controller wiring terminal block (TB15). Do not wire the indoor/outdoor transmission terminal block (TB5).

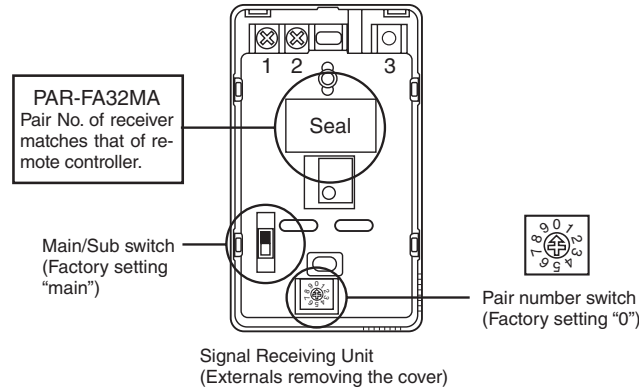
- ③ The signal receiving unit and the MA remote controller may be used together (group 4 above).
 - Set the MA remote controller as “Main”, and the signal receiving unit as “Sub”.
 - When other types of remote controllers are used, refer to section “(7 | Possible Combinations of Signal Receiving Units and Remote Controllers)”.
- * See the installation manual supplied with the outdoor unit for details of setting up indoor (IC) and outdoor (OC) units.
* See the relevant equipment manual for details of setting up the central controller and transmission line power supply unit.

Setting the Pair Number & Main/Sub Switch

Setting pair number of the wireless remote controller and the Signal Receiving Unit.

Set switch position of the Signal Receiving Unit as follows.

Refer to the installation manual that came with the wireless remote controller for how to set pair numbers of wireless remote controllers.



(1) Change the pair number switch to set the pair number.

① Pair number

To fix the Signal Receiving Unit which operates from the wireless remote controller.

10 kinds of setting (0 - 9) are available for the wireless remote controller and Signal Receiving Unit.

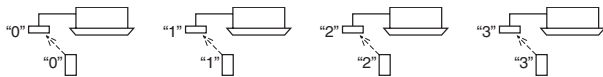
Adapt a pair number to the using wireless remote controller.

② Setting example

②-1 When setting in same room.

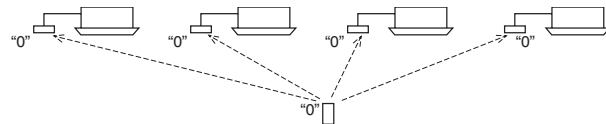
● Separate setting

Each unit can only be operated by its own wireless remote controller.



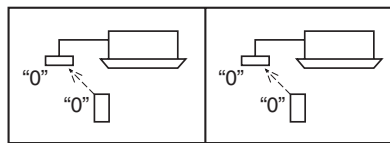
● Single setting

All the units can be operated by a single wireless remote controller.



②-2 When setting in different rooms.

Assigning a different number to each wireless remote controller and all the Signal Receiving Unit (Leave the setting as purchase)



(2) Main/Sub switch settings (leave the initial "Main" setting when not using the MA remote controller).

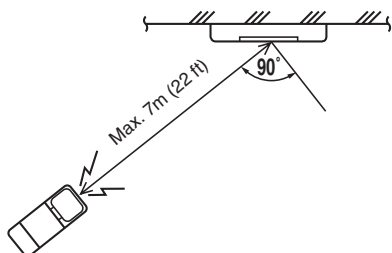
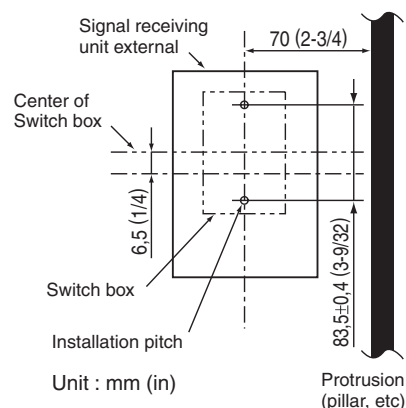
Set the Main/Sub switch when using with the MA remote controller (PAR-20MAA).

Set the signal receiving unit to "Sub" and the MA remote controller (PAR-20MAA) to "Main".

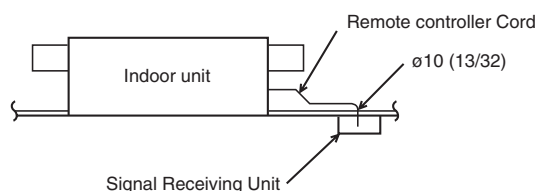
How to Install

(1) Choose a place in which to install the Signal Receiving Unit (switch box). Be sure to observe the following steps:

- ① When installing on either the switch box or the wall, allow space around the Signal Receiving Unit as shown in the figure on the right.
- ② When installing the Signal Receiving Unit to the switch box, the Signal Receiving Unit slipped downward for 6.5 mm (1/4 inch) as right illustrated.
- ③ Parts which must be supplied on site.
 - Switch box for one unit
 - Thin-copper wiring pipe
 - Lock nut and bushing
- ④ Install the unit on the wall or ceiling where the signal is received from the remote controller.
(Refer to the below illustration)



Example: Ceiling cassette type, Ceiling concealed type

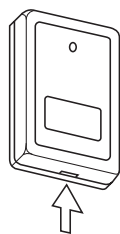


* When concealed wire, the hole $\phi 10$ (13/32) to push a remote control cord through is necessary on the ceiling.

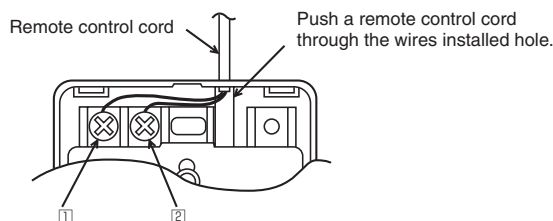
* Install the Signal Receiving Unit where is watched from any position.

NOTE: If the Signal Receiving Unit is installed near a fluorescent lamp specially inverter type, signal interception may occur. Be careful for installing the Signal Receiving Unit or replacing the lamp.

(2) Install the remote control cord to the terminal block (No polarity).

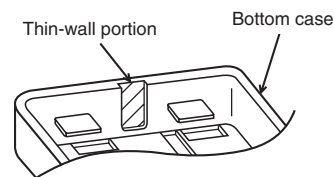


Insert the minus screwdriver toward the arrow pointed and wrench it to remove the cover.
A flat screwdriver whose width of blade is between 4 and 7 mm (5/32 - 9/32 inch) must be used.



(3) Installing hole when the Signal Receiving Unit is installed on the wall direct.

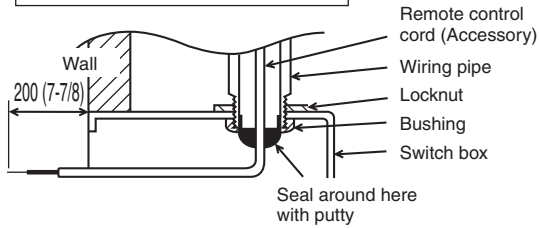
- Cut the thin-wall portion inside the bottom case (oblique section) by a knife or a nipper.
- Take out the connected remote control cord to the terminal block through this space.



(4) Seal the Signal Receiving Unit cord lead-in hole with putty in order to prevent the possible entry of dew, water droplets, cockroaches, other insects, etc.

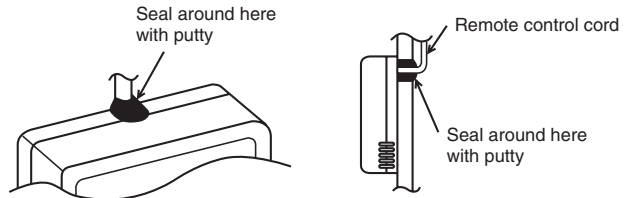
- When installing on the switch box, seal the connections between the switch box and wiring pipe with putty.

When using the switch box

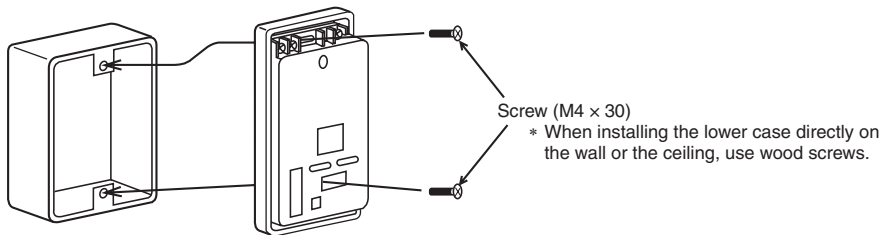


- When opening a hole using a drill for Signal Receiving Unit cord (or taking the cord out of the back of the Signal Receiving Unit), seal that hole with putty.
- When routing the cord via the portion cut off from the upper case, equally seal that portion with putty.

When installing directly on the wall



(5) Install the lower case on the switch box or directly on the wall.



(6) Install the cover

Test Run

Refer to the installation manual for wireless remote controller for how to perform the test run.

Possible Combinations of Signal Receiving Units and Remote Controllers

When the Signal Receiving Unit and other types of remote controller are used together, the following combinations must be used.

• Possible combinations of remote controllers

Indoor unit function	Main remote controller	Sub remote controller	Availability
<ul style="list-style-type: none"> • Models with 1°F temperature setting • Models with maintenance function 	MA(20)/RX(31)	RX	Available The temperature cannot be set in increments of 1°F using wireless remote controller.
	RX	MA(20)/RX(31)	Not available
	RX	RX	Available
	MA(21)	RX	Available
	RX	MA(21)	Not available
<ul style="list-style-type: none"> • Models without 1°F temperature setting • Models without maintenance function 	All combinations shown above		Available

RX: Signal Receiving Unit (PAR-FA32MA)

RX(31): PAR-FA31MA (Old model)

MA(20): MA remote controller (PAR-20MAA)

MA(21): MA remote controller (PAR-21MAA)

This product is designed and intended for use in a residential, commercial or light-industrial environment.

The product at hand is based on the following EU regulations:

* Electromagnetic Compatibility Directive 89/336/EEC

Applicable Models

■ PCA-A24/30/36/42KA7

Making Sure of Components

Make sure that the following components, along with this manual, are packed in the box.

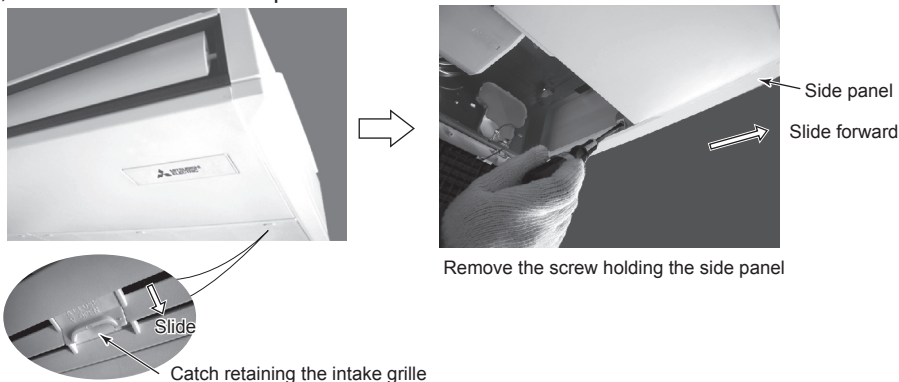
Component	PAC-SH91MK-E	PAR-SA92MW-E	PAR-SL93B-E
i-see sensor	1	—	—
Wireless remote controller receiver with i-see sensor	—	1	—
Wireless remote controller receiver	—	—	1
Wireless remote controller	—	1	1
Remote control holder	—	1	1
“AAA” LR03 alkaline batteries	—	2	2
4.1×16 wood screws	—	2	2
Cord retaining clips	—	2	2
Connection cord fixing seal (12×30 size)	—	1	1

How to Install

* Be sure to turn the power off before installing.

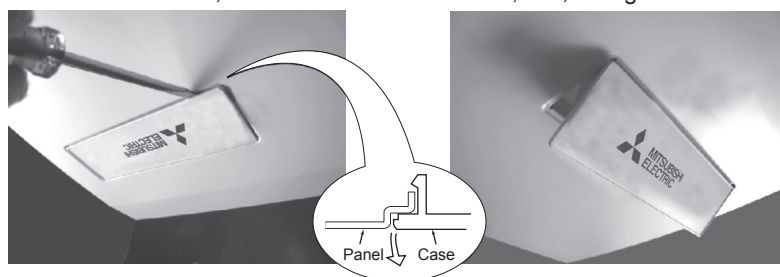
① Removing the intake grille and the right side panel

- Slide the catch holding the intake grille backwards to open the grille. Remove the screw holding the side panel, and then slide the side panel forward to remove it.



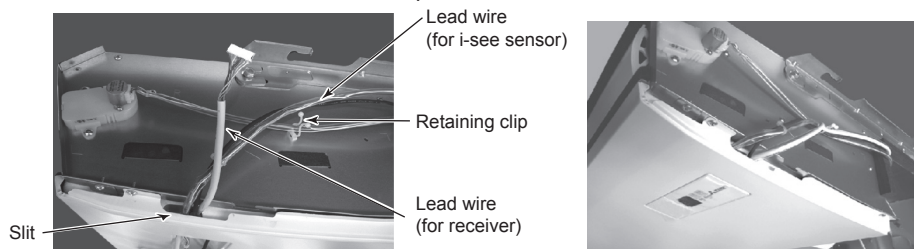
② Removing the existing brand label case

- Remove the brand label case (name plate with MITSUBISHI ELECTRIC) from the bottom right of the unit. If it is difficult to remove the case, use a flat-blade screwdriver, etc., taking care not to damage the panel.



③ Installing to the indoor unit

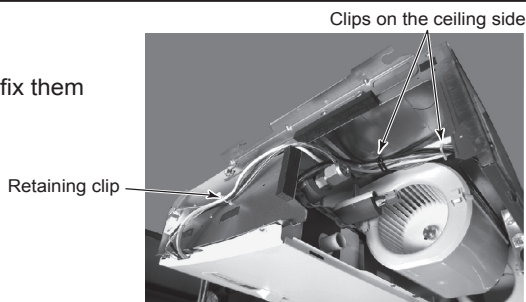
- Pass the lead wire through the right side of the square hole to which the brand label case was attached, and then pull them through the slit in the right side of the bottom panel.
- Fit the receiver or i-see sensor into the square hole where the brand label case was attached.



PAC-SH91MK-E/PAR-SA92MW-E/PAR-SL93B-E

④ Laying out the lead wire

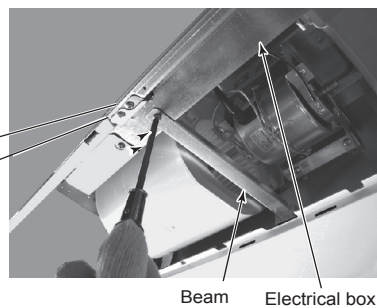
- Pass the lead wire through the retaining clips.
- Layout the lead wire along the vane motor lead wire, then fix them with the clips on the ceiling side of the unit.



⑤ Removing the beam and the electrical box cover

- Remove the beam.
- Loosen the two screws at the bottom of the electrical box cover, and then slide the cover to the left to remove it.
- Pull down the electrical box.

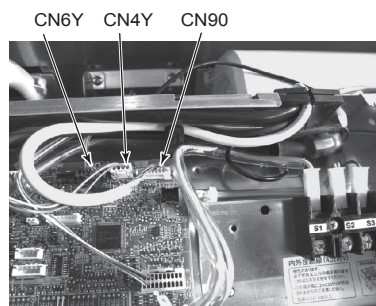
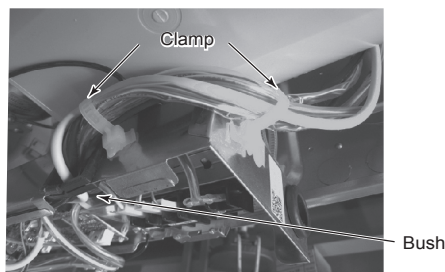
Also on the opposite side { Electrical box fixing screw
Electrical box cover fixing screw



⑥ Connecting the receiver board connector to the control circuit board

<*only when wireless remote controller kit with i-see sensor PAR-SA92MW-E or wireless remote controller receiver PAR-SL93B-E is used. >

- Pass the cord through the bush at the top right of the electrical box.
- Connect the connector to CN90 on the right of the control board.
- If the cord is loose, bundle it using the clamps under the above bush.



* The positions of the connectors may be different according to the model.
Please refer to the wiring diagram to confirm the positions of the connectors.

⑦ Connecting the i-see sensor lead wire (radiation temp. sensor (black) and the stepping motor connector (transparent)) to the control circuit board

<*only when wireless remote controller receiver PAC-SH91MK-E or wireless remote controller kit with i-see sensor PAR-SA92MW-E is used. >

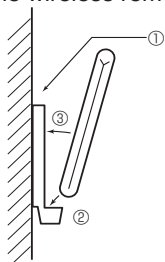
- Pass the cord through the bush at the top right of the electrical parts case.
- Connect the radiation temp. sensor (black) lead wire to CN4Y (white) on the control circuit board.
- Connect the stepping motor (transparent) lead wire to CN6Y (red) on the control circuit board.

⑧ Reinstalling the removed components

- Reinstall the removed components in reverse order. (The brand label case is not needed.)

⑨ Remote control holder

- To install the wireless remote controller on a wall, first attach the remote control holder to a wall.



Fitting remote control into holder

- ① Fix the remote control holder to the wall using the 2 wood screws provided.
- ② Insert the remote control into the holder.
- ③ Push the remote control against the wall.

Removing remote control

- Pull the top of remote control forward.

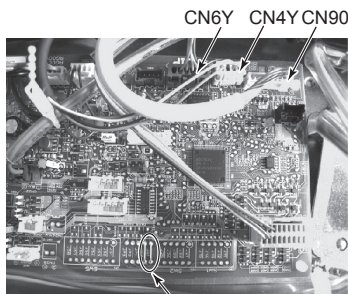
NOTE : The remote signal will reach the receiver over a distance of approx. 7m (23 ft.) in a straight line and approx. 45° left or right. If the infrared receiver is affected by fluorescent light (especially, inverter type), it may not be able to receive the signal. Take this into consideration when installing fluorescent lights or replacing them.

Pair Number Setting

- This is the setting to specify the unit to operate with the wireless remote controller.
- Make setting for J41, J42 (Jumper wire) of indoor controller board and the pair number of wireless remote controller.
- The pair number setting is available with the 4 patterns as shown in the following table. Make setting for the pair number (J41, J42) of indoor controller board and the pair number of wireless remote controller which is used as shown in the following table. *The initial setting is Pair No. "0".

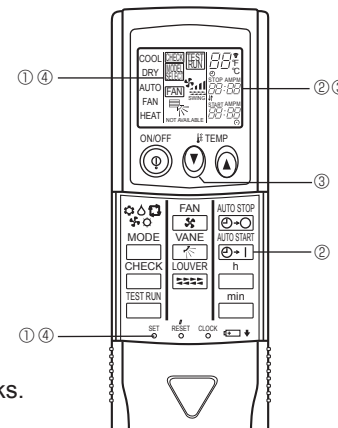
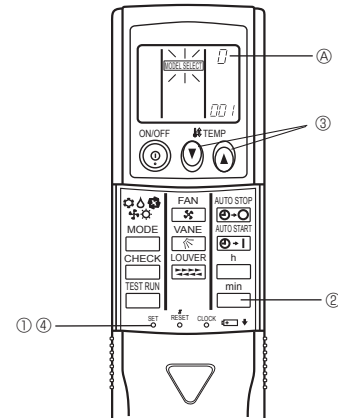
- ① Press the SET button with something sharp at the end.
Start this operation from the status of remote controller display turned off.
MODEL SELECT blinks and Model No. is lighted.
- ② Press the button twice continuously. Pair No. "0" blinks.
- ③ Press the temp button to set the pair number you want to set.
- ④ Press the SET button with something sharp at the end.
Set pair number is lighted for 3 seconds then turned off.

① Pair No. of wireless remote controller	Indoor PC board
0	Initial setting
1	Cut J41
2	Cut J42
3 ~ 9	Cut J41, J42



Jumper wire (J41, J42)

* The positions of the connectors may be different according to the model.
Please refer to the wiring diagram to confirm the positions of the connectors.

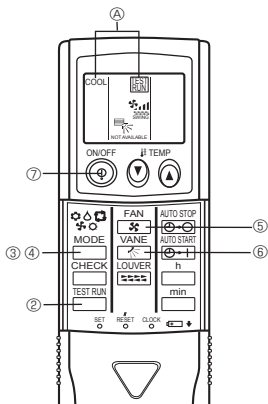


Function Selection of Wireless Remote Controller

- Temperature display °C/°F setting (Change of temp mode from °F to °C)
 - ① Press the set button with something sharp at the end. **MODEL SELECT** blinks.
 - ② Press the button. "F." blinks.
 - ③ Press the button. "C." blinks.
 - ④ Press the SET button with something sharp at the end.
MODEL SELECT is lighted for three seconds, then turned off.

Test Run

Measure an impedance between the power supply terminal block on the outdoor unit and the ground with a 500V Megger and check that it is equal to or greater than 1.0 MΩ.



- ① Turn on the main power to the unit.
- ② Press the button twice continuously.
(Start this operation from the status of remote controller display turned off.)
① **TEST RUN** and current operation mode are displayed.
- ③ Press the button to activate COOL mode, then check whether cool air is blown out from the unit.
- ④ Press the button to activate HEAT mode, then check whether warm air is blown out from the unit.
- ⑤ Press the button and check whether strong air is blown out from the unit.
- ⑥ Press the button and check whether the auto vane operates properly.
- ⑦ Press the ON/OFF button to stop the test run.

NOTE : • Point the remote controller towards the indoor unit receiver while following steps ② to ⑦.
• It is not possible to run in FAN, DRY or AUTO mode.

Function Selection

This setting is available only for Mr. Slim model. CITY MULTI model can be set by dip switch of indoor/outdoor control circuit board. Refer to technical data of CITY MULTI model to set dip switch.

Each function can be set according to necessity using the remote controller.

The setting of function for each unit can only be done by the remote controller.

Select function available from the Table3. Function selection using wireless remote controller is available only for refrigerant system with wireless function. Refrigerant address cannot be specified by the wireless remote controller.

The article below describes how to set "LOSSNAY connectivity" into "supported (indoor unit is not equipped with outdoor-air intake)" in Table 3 as an example.

① Go to the function select mode

Press the button (F) twice continuously.

(Start this operation from the status of remote controller display turned off.)

is lighted and "00" blinks.

Press the temp button (C) once to set "50". Direct the wireless remote controller toward the receiver of the indoor unit and press the button (A).

② Setting the unit number

Press the temp button (C) and button (D) to set the unit number "00". Direct the wireless remote controller toward the receiver of the indoor unit and press the button (B).

③ Selecting a mode

Enter 03 to change the LOSSNAY connectivity setting using the button (C) and button (D) buttons. Direct the wireless remote controller toward the receiver of the indoor unit and press the button (A)

Current setting number:

1=1 beep (1 second)

2=2 beeps (1 second each)

3=3 beeps (1 second each)

* If a mode number that can not be recognized by the unit is entered, 3 beeps (3 beeps of 0.4 seconds duration) will be heard.

Reenter the mode number selecting.

* If the signal was not received by the sensor or an error occurred during transmission, you will not hear a beep or a "double beep" may be heard.

Press the button again.

④ Selecting the setting number

Use the button (C) and button (D) buttons to change the LOSSNAY connectivity setting to 02. Direct the wireless remote controller toward the sensor of the indoor unit and press the button (A).

→ At this time, current setting number for selected mode number will be output by the interrupted buzzer sounds and the blinks of operation indicator.

Output : setting number = 1 → beep beep (0.4 second + 0.4 second) × 1

2 → beep beep (0.4 second + 0.4 second) × 2

3 → beep beep (0.4 second + 0.4 second) × 3

* If a setting number that can not be recognized by the unit is entered, 3 beeps (3 beeps of 0.4 seconds duration) will be heard (unit will beep only).

Reenter the setting number selecting.

* If the signal was not received by the sensor or an error occurred during transmission, you will not hear a beep or a "double beep" may be heard.

Press the button again.

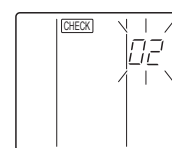
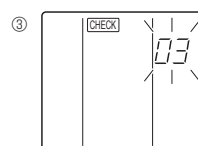
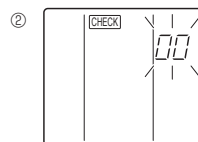
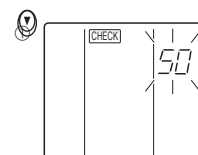
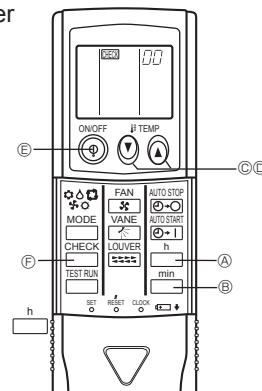
* If the number that can not be set is input, the former setting number will be set.

⑤ To select multiple functions continuously

Repeat steps ③ and ④ to change multiple function settings continuously.

⑥ Complete function selection

Direct the wireless remote controller toward the sensor of the indoor unit and press the button (E).



NOTE : Whenever changes are made to the function settings after construction or maintenance, be sure to record the added functions with an "o", in the "Check" column provided on the chart.

PAC-SH91MK-E/PAR-SA92MW-E/PAR-SL93B-E

Other function selections

Now that you know how to change LOSSANY connectivity setting, there are several other settings that can be changed as well. The following table lists the various settings that can be changed through the remote controller and the default settings.

Table 3.

Function	Settings	PCA-A·KA
Power failure automatic recovery	Not available	*1
	Available	*1
Indoor temperature detecting	Indoor unit operating average	○
	Set by indoor unit's remote controller	
	Remote controller's internal sensor	
LOSSNAY connectivity	Not supported	○
	Supported (indoor unit is not equipped with outdoor-air intake)	
	Not supported (indoor unit is not equipped with outdoor-air intake)	
Auto mode (only for PUZ)	Energy saving cycle automatically enabled	○
	Energy saving cycle automatically disabled	
Filter sign	100Hr	
	2500Hr	○
	No filter sign indicator	
Fan speed	Quiet	
	Standard	○
	High ceiling	
Up/down vane setting	No vanes	
	Equipped with vanes (No.1 set)	○
	Equipped with vanes (No.2 set)	

*1 Power failure automatic recovery initial setting depends on the connecting outdoor unit.

Things to remember when entering function selections:

The basic procedure for entering function selections is the same as described for switching between LOSSNAY connectivity. However, there are some differences at step ② for selecting the unit number, step ③ for selecting the mode number and step ④ for selecting the setting number.

The following Tables 4 and 5 list the various function settings, mode numbers and setting numbers.

Table 4 details the function of the entire refrigerant system while Table 5 shows the function that can be set for the indoor unit.

Table 4. Itemized functions of the entire refrigerant system (select unit number 00)




Mode	Settings	Mode no.	Setting no.	Check	Remarks
Power failure automatic recovery	Not available	01	1		
	Available (Approximately 4-minutes wait-period after power is restored.)		2		Approximately 4-minutes wait-period after power is restored.
Indoor temperature detecting	Indoor unit operating average	02	1		
	Set by indoor unit's remote controller		2		
	Remote controller's internal sensor		3		
LOSSNAY connectivity	Not supported	03	1		
	Supported (indoor unit is not equipped with outdoor-air intake)		2		
	Not supported (indoor unit is not equipped with outdoor-air intake)		3		
Auto mode (only for PUZ)	Energy saving cycle automatically enabled	05	1		
	Energy saving cycle automatically disabled		2		

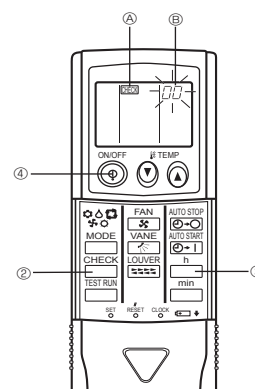
Table 5. Itemized functions of the indoor unit (select unit numbers 01 to 02 or 07)

Mode	Settings	Mode no.	Setting no.	Check	Remarks
Filter sign	100Hr	07	1		
	2500Hr		2		
	No filter sign indicator		3		
Fan speed	Quiet	08	1		
	standard		2		
	High ceiling		3		
Up/down vane setting	No vanes	11	1		
	Equipped with vanes (No.1 set)		2		
	Equipped with vanes (No.2 set)		3		

- ② Setting the unit numbers
Set "00" as the unit number when setting function from Table 4.
When setting function from Table 5.
- When setting function for an indoor unit in an independent system, set the unit number to 01.
- When setting function for a simultaneous-Twin indoor unit system, assign unit numbers from 01 to 02 to each indoor unit.
- When setting the same functions for an entire simultaneous Twin-indoor unit system, assign "07" as the unit number.
- ③ Selecting the mode number
Select from Table 4 and Table 5.
- ④ Selecting the setting number.

Self-Check

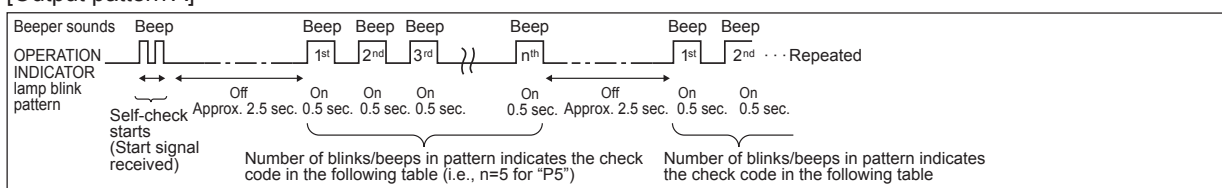
- ① Turn on the main power to the unit.
- ② Press the  button twice continuously.
(Start this operation from the status of remote controller display turned off.)
A  begins to light.
B «00» begins to blink.
- ③ While pointing the remote controller toward the unit's receiver, press the  button. The check code will be indicated by the number of times that the buzzer sounds from the receiver section and the number of blinks of the operation lamp.
- ④ Press the ON/OFF button to stop the self-check.



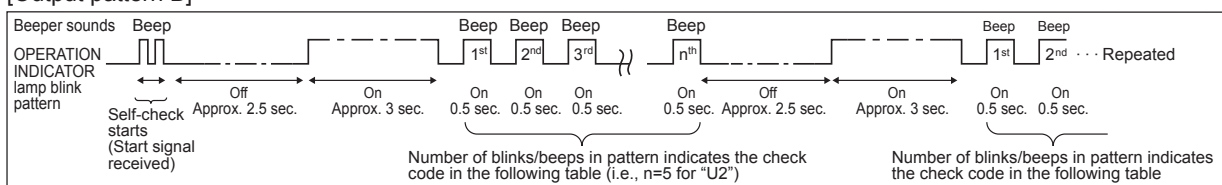
- Refer to the following tables for details on the check codes.

① Output pattern (Mr.Slim model / CITY MULTI model)

[Output pattern A]



[Output pattern B]



② Check code (Mr.Slim model)

[Output pattern A] Errors detected by indoor unit

Wireless remote controller	Wired remote controller	Symptom	Remark
Beeper sounds/OPERATION INDICATOR lamp blinks (Number of times)	Check code		
1	P1	Intake sensor error	
2	P2, P9	Pipe (Liquid or 2-phase pipe) sensor error	
3	E6, E7	Indoor/outdoor unit communication error	
4	P4	Drain sensor error/Float switch connector open	
5	P5	Drain pump error	
6	P6	Freezing/Overheating safeguard operation	
7	EE	Communication error between indoor and outdoor units	
8	P8	Pipe temperature error	
9	E4	Remote controller signal receiving error	
10	—	—	
11	—	—	
12	Fb	Indoor unit control system error (memory error, etc.)	
No sound	—	No corresponding	

PAC-SH91MK-E/PAR-SA92MW-E/PAR-SL93B-E

[Output pattern B] Errors detected by unit other than indoor unit (outdoor unit, etc.)

Wireless remote controller Beeper sounds/OPERATION INDICATOR lamp blinks (Number of times)	Wired remote controller Check code	Symptom	Remark
1	E9	Indoor/outdoor unit communication error (Transmitting error) (Outdoor unit)	For details, check the LED display of the outdoor controller board.
2	UP	Compressor overcurrent interruption	
3	U3,U4	Open/short of outdoor unit thermistors	
4	UF	Compressor overcurrent interruption (When compressor locked)	
5	U2	Abnormal high discharging temperature/ insufficient refrigerant	
6	U1,Ud	Abnormal high pressure (63H worked)/Overheating protection operation	
7	U5	Abnormal temperature of heat sink	
8	U8	Outdoor unit fan protection stop	
9	U6	Compressor overcurrent interruption/Abnormal of power module	
10	U7	Abnormality of super heat due to low discharge temperature	
11	U9,UH	Abnormality such as overvoltage or voltage shortage and abnormal synchronous signal to main circuit/Current sensor error	
12	—	—	
13	—	—	
14	Others	Other errors (Refer to the technical manual for the outdoor unit.)	

*1 If the beeper does not sound again after the initial 2 beeps to confirm the self-check start signal was received and the OPERATION INDICATOR lamp does not come on, there are no error records.

*2 If the beeper sounds 3 times continuously "beep, beep, beep (0.4 + 0.4 + 0.4 sec.)" after the initial 2 beeps to confirm the self-check start signal was received, the specified refrigerant address is incorrect.

- On wireless remote controller

The continuous buzzer sounds from receiving section of indoor unit.

Blink of operation lamp

- On wired remote controller

Check code display in the LCD.

③ Check code (CITY MULTI model)

[Output pattern A] Errors detected by indoor unit or LOSSNAY unit

[Output pattern B] Errors detected by unit other than indoor unit (outdoor unit, etc.)

Wireless remote controller Beeper sounds/OPERATION INDICATOR lamp blinks (Number of times)	Wired remote controller Check code	Remark
1	1000 ~ 1999	
2	2000 ~ 2999	
3	3000 ~ 3999	
4	4000 ~ 4999	
5	5000 ~ 5999	
6	6000 ~ 6999	
7	7000 ~ 7999	
8	0000 ~ 0999	
9	8000 over	

*1 Refer to service handbook of outdoor unit for the detail.

*2 If the beeper does not sound again after the initial 2 beeps to confirm the self-check start signal was received and the OPERATION INDICATOR lamp does not come on, there are no error records.

*3 If the beeper sounds 3 times continuously "beep, beep, beep (0.4 + 0.4 + 0.4 sec.)" after the initial 2 beeps to confirm the self-check start signal was received, the specified address is incorrect.

- On wireless remote controller

The continuous buzzer sounds from receiving section of indoor unit.

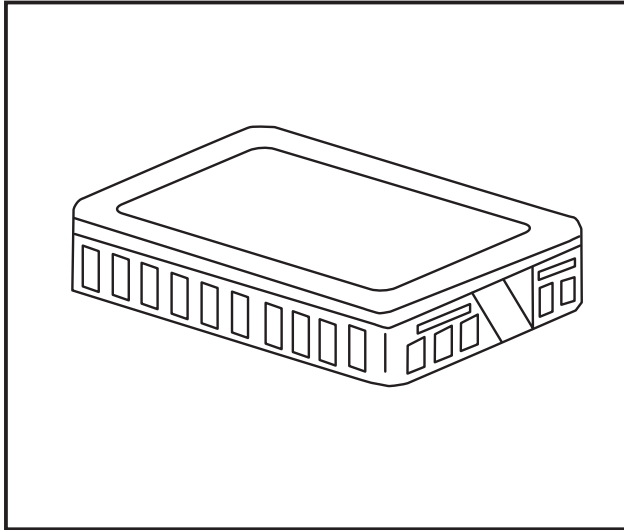
Blink of operation lamp

- On wired remote controller

Check code display in the LCD.



Figure



Descriptions

Enables to pick up the room temperature at the remote position.

Applicable Models

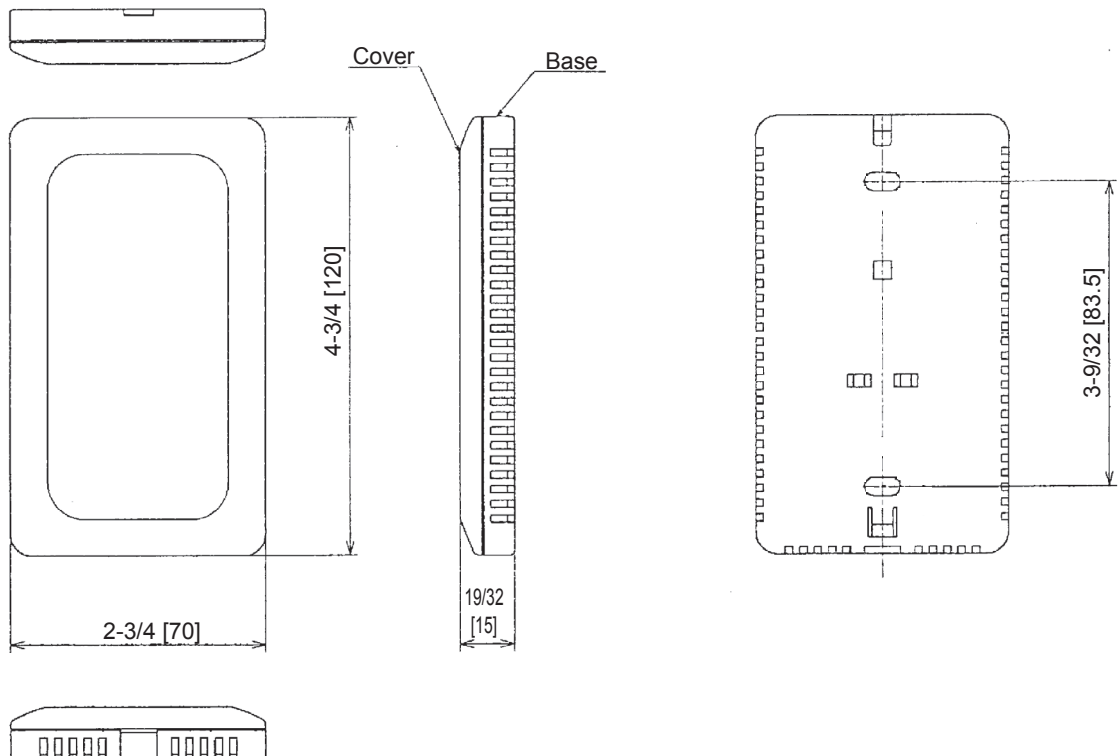
- SLZ-KA09/12/15NA
- SEZ-KD09/12/15/18NA4
- PKA-A12/18HA7
- PKA-A24/30/36KA7
- PLA-A12/18/24/30/36/42EA7
- PEAD-A12/18/24/30/36/42AA7
- PVA-A12/18/24/30/36/42AA7

Specifications

External dimensions (mm)	120 (H) x 70 (W) x 15 (D)
Exterior	White gray (Munsell 4.48Y 7.92/0.66) Material: ABS resin
Operating conditions	Temperature: -20 to 65°C Humidity: 30 to 90% RH (no condensation)
Installation method	Mounting on single-type switch box (JIS C8336) or directly mounting on wall
Accessory	2-wire cable (12m), Connector with post, Fixing screw (x2)
When combining with environmental measurement controller	
Temperature measuring range	-20 to 65°C
Measurement resolution	0.1°C (10 to 35°C), 0.5°C (other temperature ranges)

Dimensions

Unit: inch [mm]

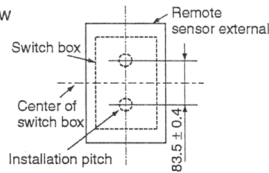


How to Use / How to Install

1 How to Install

(1) Determine the installation of the remote sensor (switch box).
The following items must be observed.

- ① Select a place where the remote sensor will detect an average temperature of the room, and where the sensor will not be subject to direct sunlight, heat sources, or the blow-off from the air conditioner, etc.
- ② Install the sensor within the length of the cable provided (12m).
(The cable cannot be extended. If extended, it may cause misoperation due to noise.)
- ③ The following parts must be procured at the site.
 - Cross-recessed pan head screw
 - M4 Tow screws
 - Single switch box
 - Thin steel conduit
 - Lock nut, bushing



(2) Connect the wires.

• Connect the 2-core cable to the terminal block in the lower case. Peel the sheath of the 2-core cable as shown in Fig.1, and correctly wire it as shown in Fig.2.

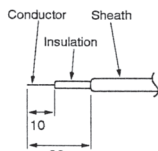


Fig.1

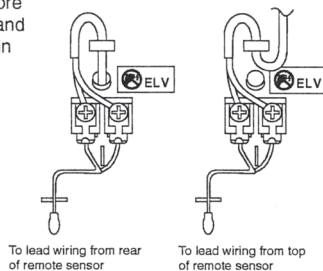


Fig.2

• The wiring connection of the indoor unit's electrical box and remote sensor is shown in Fig.3. There are three methods of connecting the 2-core cable to the electrical box.

Exchange 2-core cable (connector 20)

- ① When using the connector attached to the end of the 2-core cable as it is.
- ② When cutting the connector attached to the end of the 2-core cable and connecting the cable to the terminal block in the I.B. (Indoor Board).
- ③ When using the enclosed post for connection and convert cable.

The above three methods are used according to the indoor unit being used. If the 2-core cable is to be embedded in the wall, follow Fig.4.

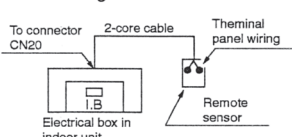


Fig.3

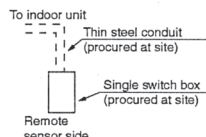
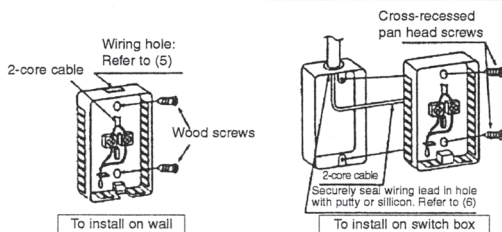


Fig.4

(3) Install the lower case on the wall or switch box.

NOTE The recommended tightening torque for installing the 2-core cable to the terminal block is 1.17N·m.



CAUTION

- If the screws are tightened too hard, the case may break or deform.
- Install the sensor on a flat wall. If installed on a bumpy wall, the case may break or trouble may occur.

(4) Fit the upper case.

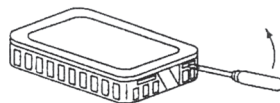


Catch the two upper claws first, and fit the case as shown on the left.

CAUTION

- Securely fit the case until a catching sound is heard. It may drop off if it is not fitted securely.

To remove the case, fit a flat-flap screwdriver into the claw section as shown below, and move the screwdriver in the direction of the arrow.

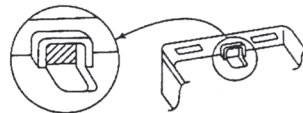


CAUTION

- Do not turn the screwdriver when it is fit into the claw section as the claws may be broken.

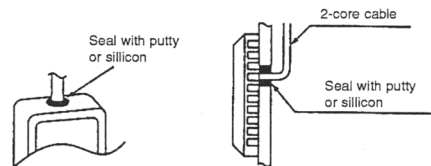
(5) Wiring hole for direction installation on wall, etc.

Cut the thin section (shaded section) of the lower case with a knife or pair of nippers, etc. The 2-core cable connected to the terminal block is led out from here.



(6) Securely seal the wiring lead hole with putty or silicon to prevent dew, water drops, cockroaches and other insects from entering.

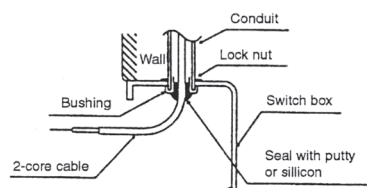
- When installing directly on the wall, seal the section cut on the lower case with putty or silicon. If the wiring is to be passed through a hole in the wall (when leading the wiring from the rear of the remote sensor), seal the hole in the same manner.
- When installing on a switch box, seal the connection of the switch box and conduit with putty or silicon.



To lead wiring from top of remote sensor.

To lead wiring from rear of remote sensor.

To install directly on wall



To use switch box

2 Setting of indoor unit

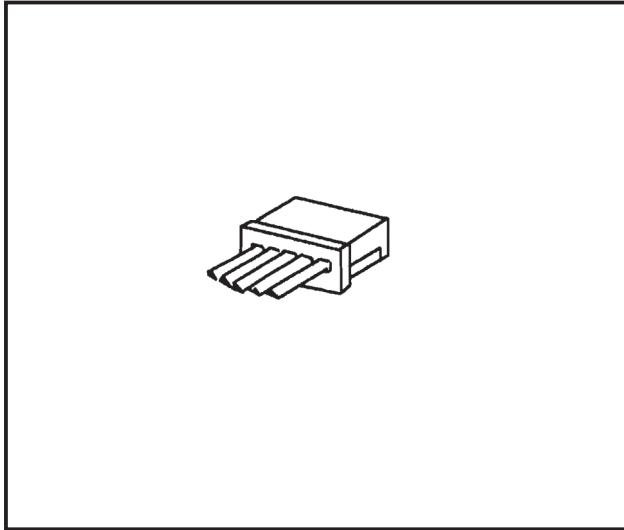
When the remote sensor is connected to the indoor unit and room temperature detection position is changed, reset the setting of "Set temp. 4-deg. up" in the heating mode as shown below.

- ① K control models : DIP switch Nos 1-6 on the control PCB of the indoor unit.
- ② M-NET control models : DIP switch Nos 3-8 on the control PCB of the indoor unit.
- ③ A control models : Refer to A-control air-conditioners SERVICE TECHNICAL GUIDE.



Connector Cable for Remote Display PAC-SA88HA-E/PAC-725AD-E

Figure



Descriptions

- This adapter enables control of several units with a multiple remote control display.

Applicable Models

- SLZ-KA09/12/15NA
- PEAD-A12/18/24/30/36/42AA7
- SEZ-KD09/12/15/18NA4
- PVA-A12/18/24/30/36/42AA7

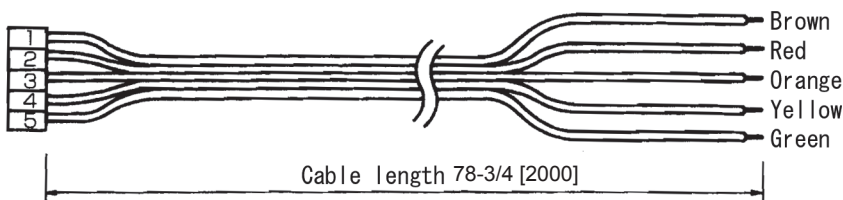
Specifications

Function	Connecting cable to output status signal of the air conditioner, and ON/OFF by external (pulse) signal.
Input signal	Pulse signal (no voltage instantaneous ON contact) Pulse duration 200ms or more.
Connector	5P (connector to CN51 or CN52 on indoor unit control board)
Cable type	5-wire vinyl cable, for extension: sheathed vinyl cord or cable (0.5 to 1.25mm ²)
Cable length	2m (max. 10m when extended locally)
Output capacity	DC12V 75mA (Max 0.9W)

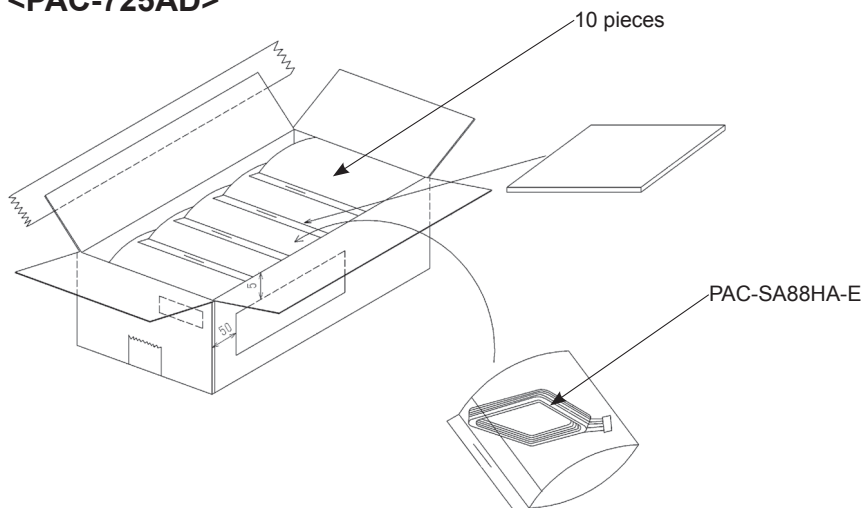
Dimensions

Unit: inch [mm]

<PAC-SA88HA-E>



<PAC-725AD>



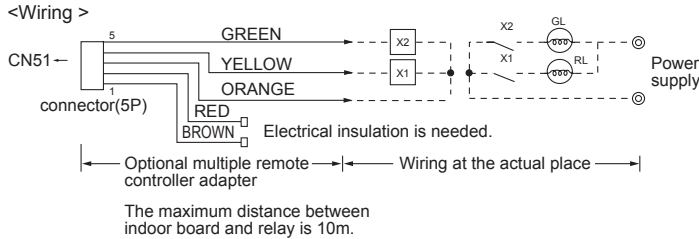
How to Use / How to Install

MULTIPLE REMOTE CONTROL DISPLAY

You can control several units with a multiple remote control display, by wiring an optional multiple remote controller adapter (PAC-SA88HA-E) with relays and lamps on the market.

How to wire

- (1) Connect the multiple remote controller adapter to the connector CN51 on the indoor controller board.
- (2) Wire three of the five wires from the multiple remote controller adapter as shown in the figure below.



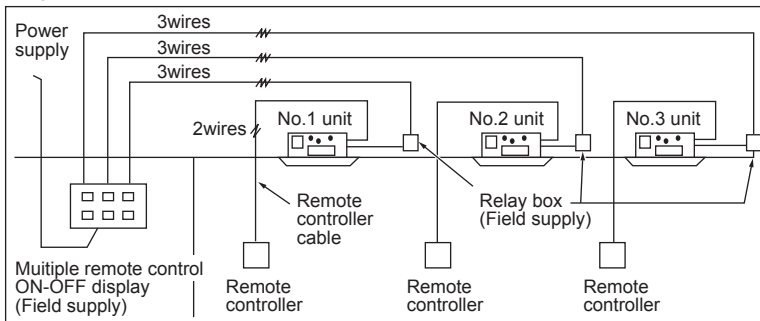
[Notes on Signs]

X1:Relay (for operation lamp)
 X2:Relay (for check lamp)
 RL:Operation Lamp
 GL:Check Lamp

[Field supplied parts]

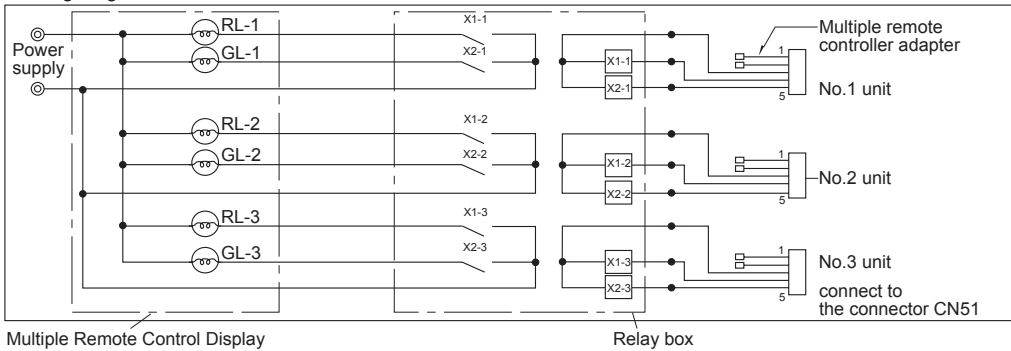
Relays:12V DC with rated coil power consumption below 0.9W.
 Lamps:Matching to power supply voltage.

<System>

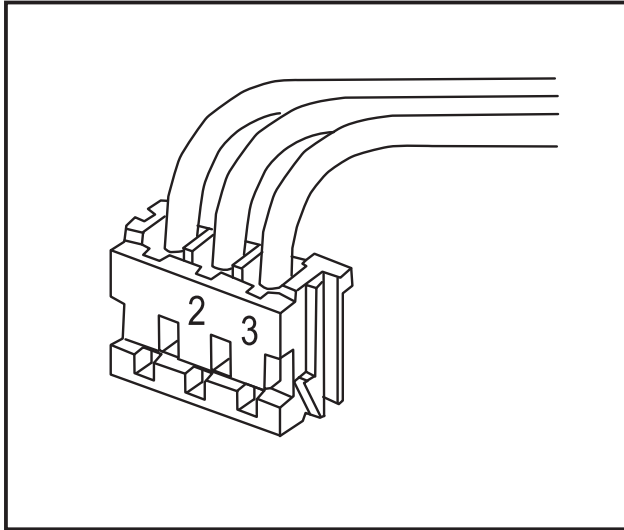


(Operation check)

<Wiring diagram>



Figure



Descriptions

- Operation other than ON/OFF (adjustment of temperature, fan speed, and air direction, for example) can be performed even when remote controller operation is prohibited.

Applicable Models

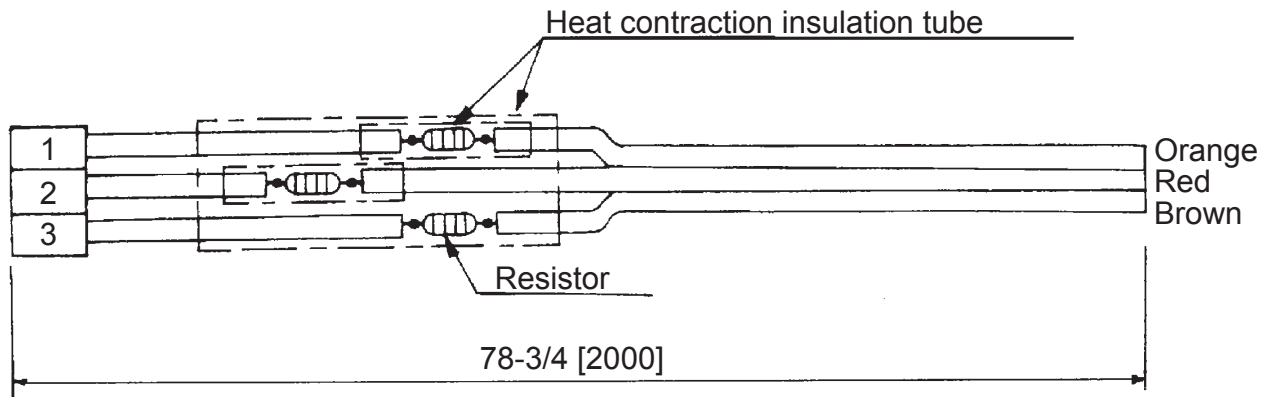
- SLZ-KA09/12/15NA
- SEZ-KD09/12/15/18NA4
- PKA-A12/18HA7
- PKA-A24/30/36KA7
- PLA-A12/18/24/30/36/42EA7
- PEAD-A12/18/24/30/36/42AA7
- PVA-A12/18/24/30/36/42AA7

Specifications

Function	ON/OFF by external signal External signal ON (remote control disabled) / OFF (remote control enabled) switch able
Input signal	No-voltage contact (ON/OFF level signal)
Connector	3P (connected to CN32 on outdoor unit control board)
Cable type	3-wire cable, for extension: Sheathed vinyl cord or cable (0.5 to 1.25mm ²)
Cable length	2m (max. 10m when extended locally)

Dimensions

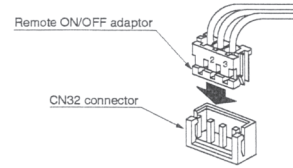
Unit: inch [mm]



How to Use / How to Install

1 Connecting to the Indoor Unit

1. Connect to the connector CN32 on the indoor controller board.
2. Press the connector for the remote ON/OFF adaptor into the CN32 connector.
The connector can only be connected in one direction only. Do not force the connection.



2 Locally Procured Wiring

With the remote ON/OFF adaptor, variations of connection method with the locally installed circuit will provide different types of operating configurations.

Example: External timer operation, remote control operation

1. Basic Connection Method

SW1 - Operating switch

Performs operation/stopping of indoor unit.

SW2 - Selecting switch

For selecting whether the operation/stopping is to be performed by external circuit or remote control.*

* Also includes system controller (central controller).

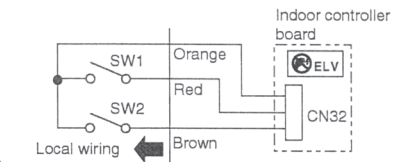
2. Switch Settings (Refer to table at right for details.)

SW2 - If on.

- Operation/stopping cannot be controlled from remote controller.
- Other operations (such as temperature settings and changing fan speed) can be performed.
- Operation/stopping can be performed by SW1.

SW2 - If off.

- Operations can be performed from remote controller.
- Operation/stopping cannot be performed by SW1.

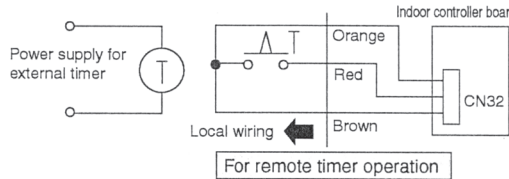
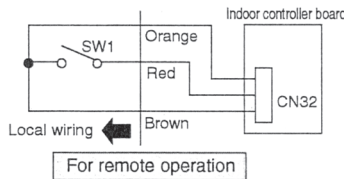


		SW2	
		ON	OFF
Remote controller	ON	Cannot perform operation/stopping	Can perform operation/stopping
	OFF	Operation	Cannot perform operation/stopping

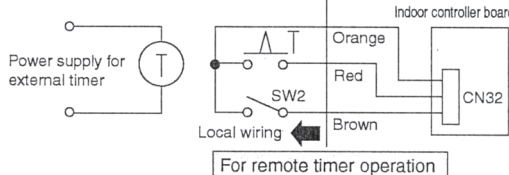
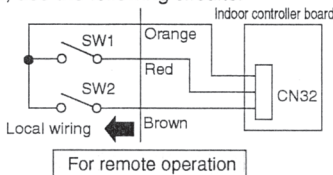
3 Examples of Usage

In either case, there is a 5 to 6 second delay from the time when the operating command is sent until the unit operates.

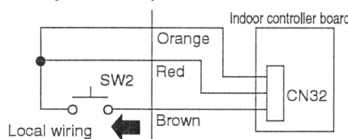
1. To perform operation/stopping by only remote operation or external timer and to prohibit operation/stopping by the remote controller, use the following circuits.



2. To perform operation/stopping by remote operation or external timer and allow operation/stopping by the remote controller, use the following circuits.

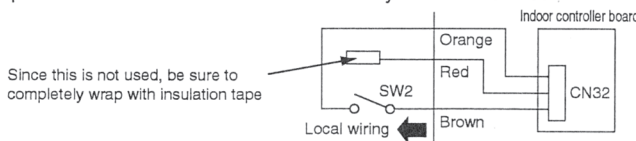


3. To start operation by remote operation and then freely use remote controller, use the following circuit.



Use a momentary switch (a switch that is turned on manually and turns off automatically) for SW2. Press SW2 (for 1 second or more) and the operation starts. After this, the remote controller can be used for operations.

4. To permit/prohibit the use of the remote controller by an external circuit.

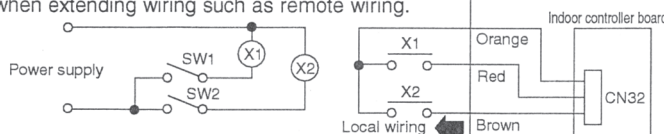


If SW2 is on, operation cannot be performed by the remote controller.
If SW2 is off, operation is permitted.

4 Wiring Restrictions

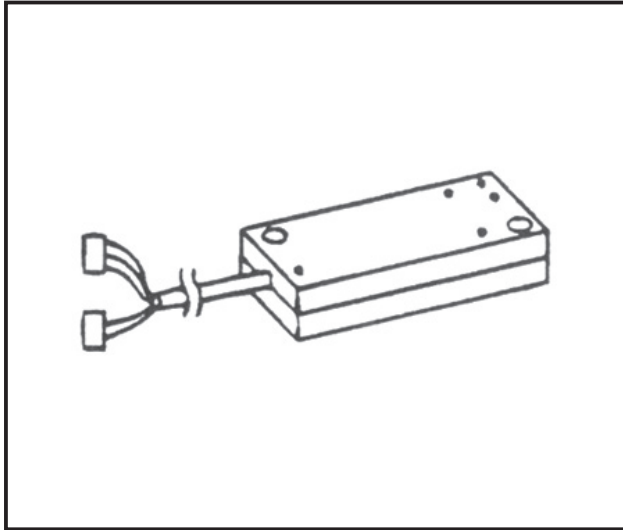
Keep the length of wire from the circuit board of the indoor unit within 10 meters. Excessive length could cause improper operation.

Use a transit relay when extending wiring such as remote wiring.





Figure



Descriptions

Extraction of non-voltage contact output.

*Use of optional [Remote Operation Adapter] and "remote display panel" Part to be provided at your site) provides non-voltage contact outputs of signals (operation, error) and operation/stop input function.

Unable to use with wireless remote controller. (except for PKA-RP-HAL/KAL)

Applicable Models

- SLZ-KA09/12/15NA
- SEZ-KD09/12/15/18NA4
- PLA-A12/18/24/30/36/42EA7
- PEAD-A12/18/24/30/36/42AA7
- PVA-A12/18/24/30/36/42AA7

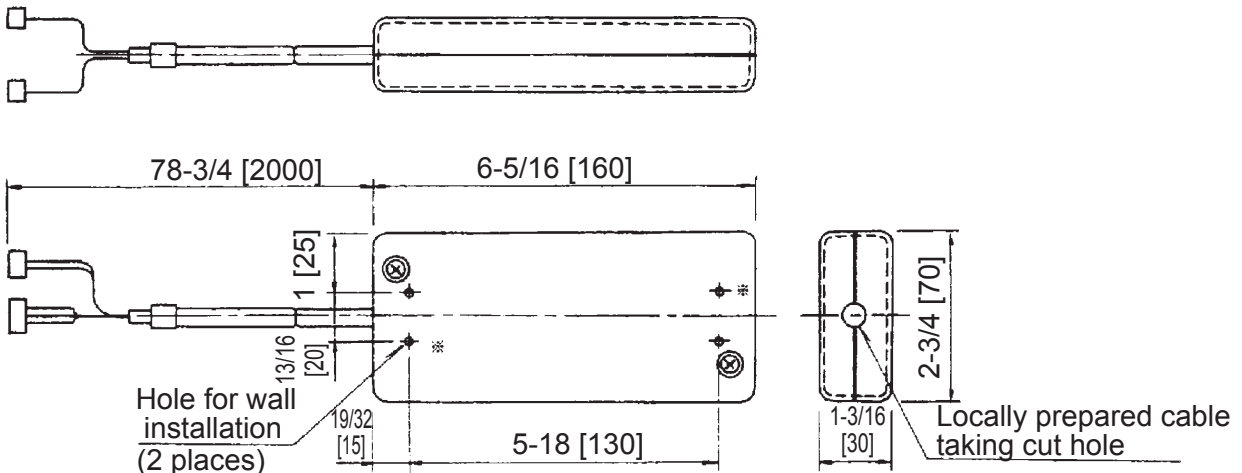
Specifications

Power	Supplied from indoor unit	
External dimensions (mm)	160 x 70 x 30	
Exterior	Material: ABS resin, Color: Gray (Munsell 3.07Y 6.16/0.33)	
Weight	200g	
Operating conditions	Indoor only Temperature: 0 to 40°C, Humidity: 35 to 85%RH (no condensation)	
Connecting cable (indoor unit)	5-wire (3 + 2) cable with connector (9-pin, 4-pin)	
Output signal	No-voltage "a" contact (relay contact method)	
	Number of Contacts	2 (Operation / Alarm)
	Contact capacity	200V AC (30V DC)/1A or less
	Minimum load	10mA
Input signal	Pulse signal (instantaneous non-voltage "a" contact), pulse width: 200ms or more	
	Number of Contacts	1 (start/stop)
Input/output signal cable (locally prepared)	Type	CV, CVS, or equivalent sheathed vinyl cord/cable
	Diameter	Twisted: 0.5 to 1.25mm ² , Single: Ø0.65 to Ø1.2mm
	Distance	Output signal cable: Max. 100m Input signal cable: Max. 10m (Extension relay must be used when exceeding 10m)

* This kit cannot be used with a wireless remote controller.
Water leakage alarm will not be displayed if the unit is built into the ceiling (PDH)

Dimensions

Unit: inch [mm]

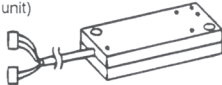



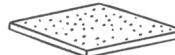






How to Use / How to Install

1 Confirming the Supplied Parts

(1) Parts Provided

Check that the box includes the following parts in addition to this installation manual.

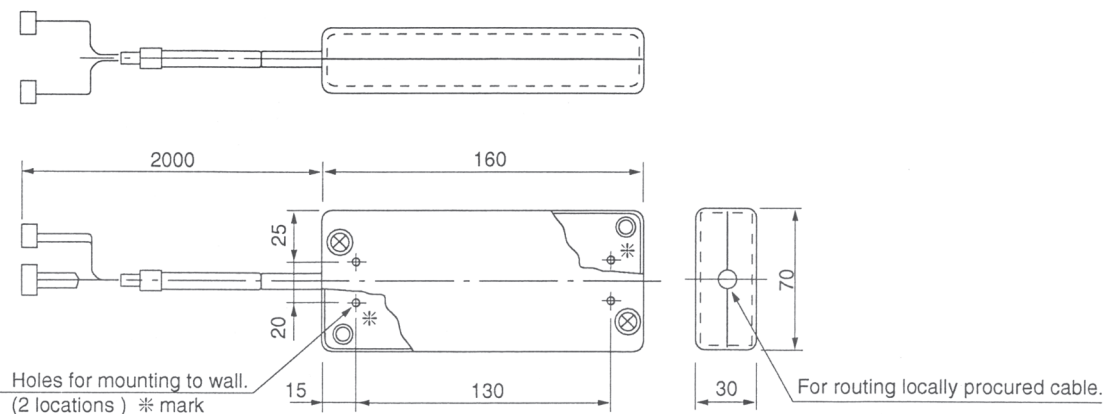
Parts	① Remote operation adaptor unit	② Cord clamp	③ Wall mount bracket
Shape	(with 2 meter wire for connecting with indoor unit) 	(Use this clamp if the local wiring is too thick to be held by the clamp inside the main unit.) 	
Quantity	1	1	1
Parts	④ Screws for mounting ③	⑤ Cushion material	⑥ Tie-wrap
Shape	 3.5 x 12 (Black)	(With adhesive on both sides.) 	(Use this for bundling lead wires.) 
Quantity	4	1	5
Parts	⑦ Cord clamp	⑧ Screws for mounting ⑦	⑨ Screws for mounting main unit
Shape		 3.5 x 12 (Black)	 3.5 x 12 (Black)
Quantity	5	5	2

(2) Locally Procured Parts

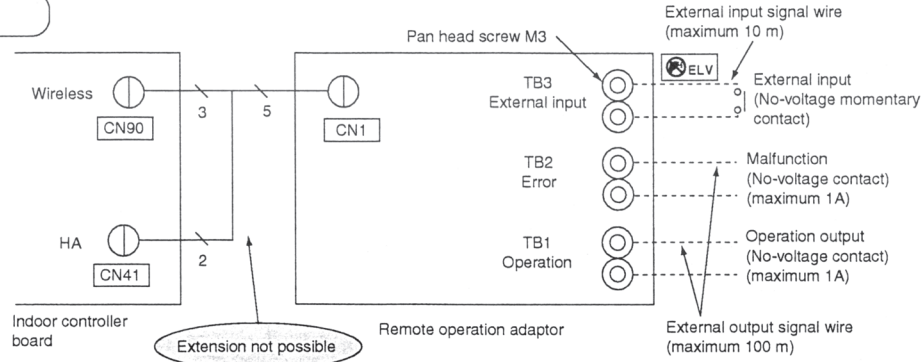
Note : Please keep LVD. LVD;Low Voltage Directive (EC Directive of Europe)
Apply some countermeasure for wiring and relay not to be touched from outside.
① Wiring should be covered by the insulation tube. ② Use relay with EU regulation.

Item	Part Name	Model & Specifications
External output function	External signal output wire	Use a vinyl cord with sheath or cable Electric wire type: CV, CVS or equivalent Electric wire size: 0.5 mm ² to 1.25 mm ² Single wire: ϕ 0.65 mm to ϕ 1.2 mm
	Display lamp, etc.	No-voltage contact AC 220 to 240 V (DC30V), 1A or less
External input function	External signal input wire	Use a vinyl cord with sheath or cable Electric wire type: CV, CVS or equivalent Electric wire size: 0.5 mm ² To 1.25 mm ² (Single wire: ϕ 0.65 mm to ϕ 1.2 mm)
	Switch	No-voltage momentary contact (Operation \leftrightarrow Stop is switched by input of a pulse of 200 ms or more)

2 External Dimension Drawing



3 Wiring



⚠ Caution

- 1) TB3 is a dedicated terminal for contact input. Do not apply voltage. Applying voltage will cause damage to the circuit board inside the for the indoor unit controller.
- 2) Always use the cable provided for connecting the unit to the indoor unit. Never make modifications to extend this cable. Extensions could cause the cable to be affected by external noise which could lead to mis-operation. If an extension is needed, refer to specification chart in "6. Product Specifications" a follow it when extending the external signal wire.

<Connecting to the indoor unit>

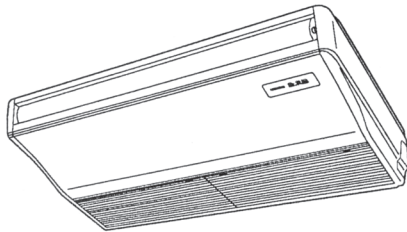
- ① If external output functions are used Insert the 9-electrode (3 core) side of the cable provided into CN90 on the controller circuit board for the indoor unit.
- ② If external input functions are used Insert the 4-electrode (2 core) side of the cable provided into CN41 on the controller circuit board for the indoor unit.

* The connector can only be inserted in one direction. Be sure to check that the connector is in the proper direction before inserting. Forcing the connector will cause damage.

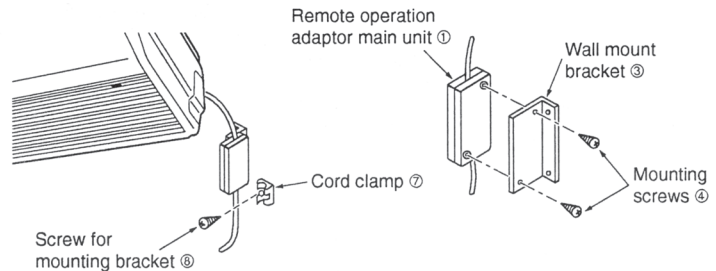
4 How to Install

There are three ways to mount the remote operation adaptor main unit: [A] Using mounting bracket, [B] Mounting directly, and [C] Using the cushion material.

(1) Installation Example (Suspended Type)



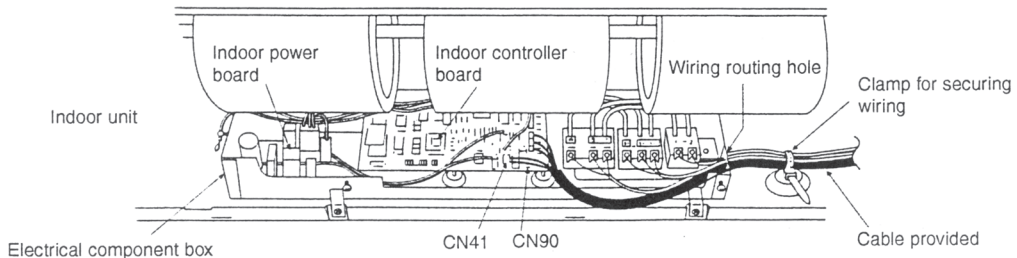
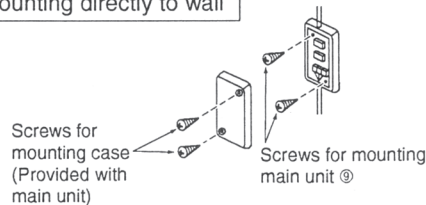
[A] Mounting to wall mounting bracket



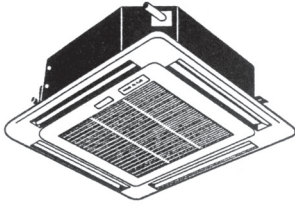
⚠ Caution

- 1) When mounting the remote operation adaptor main unit, be sure to use the mounting hardware to mount it to a wall or beam so that an inspection port is available for servicing.
- 2) If there is any loose remaining wire after installation, use a tie-wrap to bundle it.

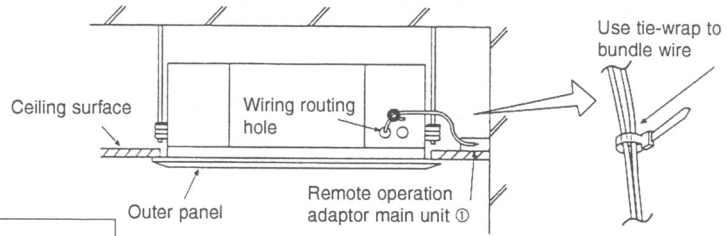
[B] Mounting directly to wall



(2) Installation Example 2 [Cassette Type]



[A] If recess-mounted into ceiling

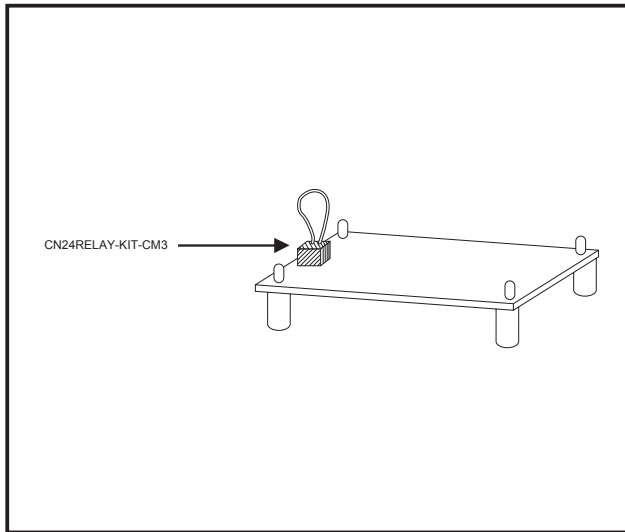


⚠Caution

- 1) When mounting the remote operation adaptor main unit, be sure to use the mounting hardware to mount it to a wall or beam so that an inspection port is available for servicing.
- 2) If there is any loose remaining wire after installation, use a tie-wrap ② to bundle it.



Figure



Descriptions

This product is the special adapter necessary to operate an electric heater with the air conditioner.

Applicable Models

- SEZ-KD09/12/15/18NA4
- MVZ-A09/12/15/18/24AA4
- PEAD-A12/18/24/30/36/42AA7
- PVA-A12/18/24/30/36/42AA7

Specifications

Item	Content
Coil Voltage	12VDC
Power Consumption	0.9W or less
Maximum Distance	32feet (10meters)
Wire Size	16 to 22AWG

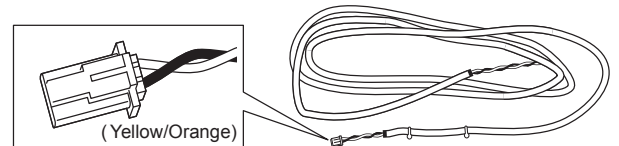
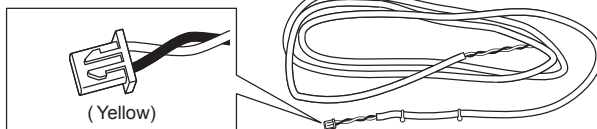
Parts list

This Installation Manual and the parts listed below are included with the CN24RELAY-KIT-CM3.

(1) External output cable 2 cables total

① CN24 without lock mechanism (Yellow) : 1

② CN24 with lock mechanism (Yellow/Orange) : 1

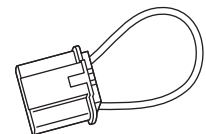
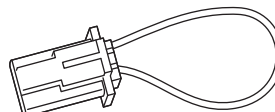
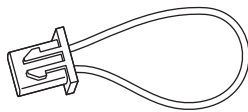


(2) Fan control connector 3 connectors total

① CN22 without lock mechanism (Green) : 1

② CN22 with lock mechanism (Green) : 1

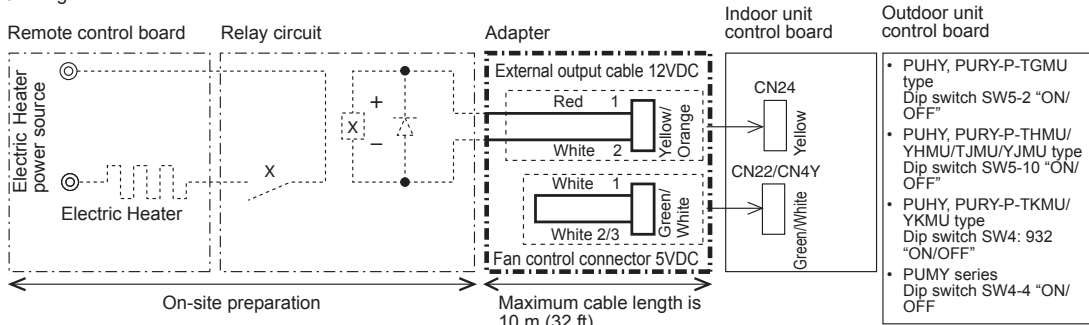
③ CN4Y (White) : 1



How to Use / How to Install

1 Field-supplied Wiring

(1) Basic wiring



Use X relay having the following specifications

- Rated voltage : 12VDC
- Power consumption : 0.9W or less

* Always insert a diode on both ends the relay coil.

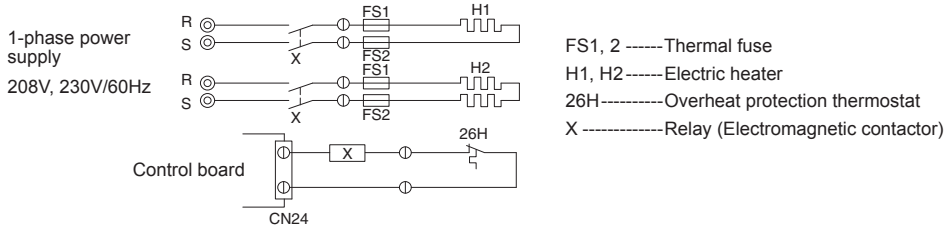
The length of the electrical wiring for the CN24RELAY-KIT-CM3 is 2 meters (6-1/2 ft).

For longer lengths, up to no more than 10 m (32ft), use sheathed 2-core cable.

Control cable type : CVV, CVS, CPEV or equivalent.

Cable size : 0.5 mm² ~ 1.25 mm² (16 to 22 AWG)

(2) Recommended circuit



2 Wiring Restrictions

The length of cable connecting the heater adapter to the circuit board of the indoor unit must be no more than 10 meters (32ft).

Any cable longer than 10 meters (32ft) could cause improper operation.

Use a transit relay when extending the wiring.

3 Control specifications and DIP Switch settings

* Table 1 shows how the field-installed heater is controlled. Select the desired operation in the table below, and set the DIP S/W on the outdoor and indoor units as shown in Table 1. Table 2 shows Heater Control patterns #A and B.

Table.1

Outdoor unit setting	Condition of outdoor unit	Ducted unit (PEFY-NMSU-E, PEFY-NMH(S)U-E, PVFY, PEFY-NMAU-E, PFFY-NEMU-E, PFFY-NRMU-E)		NON ducted unit (PL/PK/PC/PM)
DIP S/W OFF In the case of: • TGMU: S/W5-2 OFF • THMU/YHMU/TJMU/ YJMU: S/W5-10 OFF • TKMU/YKMU: SW4: 932 OFF • PUMY: S/W4-4 OFF	Applies to ALL Condenser unit models. N/A	DIP S/W3-4 OFF (Indoor unit)	Heater control #A (defrost/error: Heater OFF)	Heater control #A (defrost/error: Heater ON)*1
		DIP S/W3-4 ON (Indoor unit)*2	Heater control #A (defrost/error: Heater ON)	
DIP S/W ON In the case of: • TGMU: S/W5-2 ON • THMU/YHMU /TJMU/YJMU: S/W5-10 ON • TKMU/YKMU: SW4: 932 ON • PUMY: S/W4-4 ON	Applies to ONLY Air Cooled Condenser unit models that have OA sensor. 	Normal drive	Heater OFF	
		Defrost drive H/P drive H/P stop	DIP S/W3-4 OFF (Indoor unit)	Heater control #A (defrost/error: Heater OFF)
DIP S/W3-4 ON (Indoor unit)*2	Heater control #B (defrost/error: Heater ON)			

*1 DIP S/W3-4 setting on NON ducted unit is used for Vane Control function. DIP S/W3-4 setting is not required.

*2 For ducted units when S/W3-4 is ON, heater is ON in defrost mode.

*3 Heater On signal can not be output in the following cases for safety reasons.

External Heater Adapter CN24RELAY-KIT-CM3

- Return air temperature sensor fault (Error code: 5101)
- Indoor unit fan operation error (Error code: 4109)
- Transmission error (Error code: 6***, 7***)
- When heating mode is prohibited
- When demand control or capacity save is set to 0%
- During refrigerant recovery mode on PUMY system
- For a few minutes when change from thermo OFF to ON or ON to OFF in R2/WR2 system

Table.2

Heater control #A	Heater control #B
Heater OFF Inlet air temp. \geq set temp. Heater ON Inlet air temp. $<$ set temp. -4°F (2°C)	Heater OFF Inlet air temp. \geq set temp. Heater ON Inlet air temp. $<$ set temp. -1.8°F (1°C)
Note: <For heater> The value "4°F (2°C)" is modifiable from 1.8°F (1°C) to 9°F (5°C) by maintenance tool.	

Note:

- (1) On the ducted model units (except the Fresh air intake type), turning on the heater with the fan setting set to OFF requires that the DIP S/W and connectors on the indoor units*1 are set on site.

*1: DIP SW3-4, CN24, and CN4Y (or CN22)

Table.3 Fan control in defrost

Pattern	Duct unit (PEFY-NMSU-E, PEFY-NMH(S)U-E, PEFY-NMAU-E, PFFY-NEMU-E, PFFY-NRMU-E, PVFY)		
	CN4Y or CN22 for FAN control (YU25)	DIP S/W3-4 (Indoor unit)	Fan speed in defrost (Heater)
1	Unplugged	OFF	Stop (Heater OFF)
2		ON	See Table.4 (Heater ON)
3	Plugged	OFF	Stop (Heater OFF)
4		ON	Stop (Heater ON)

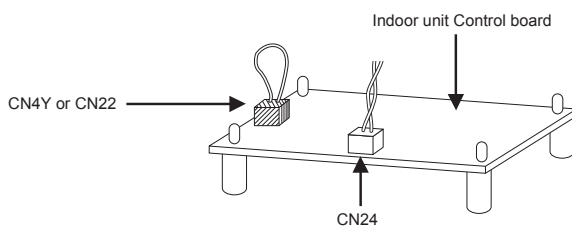
Table.4 Fan speed setting in defrost

SW3-1	SW1-7	SW1-8	Fan speed *1
OFF	OFF	OFF	Very low
OFF	ON	OFF	Low
OFF	OFF	ON	Remote controller setting
OFF	ON	ON	Stop (Remote controller setting *2)
ON	ON	ON	Stop (Remote controller setting *2)

*1: The fan operates at the same speed settings as shown in this table during the Heating Thermo-OFF mode.

*2: If Pattern 2 in the table above is selected for fan control, the fan will follow the remote controller setting.

<Image>



- (2) On the Fresh air intake type units, the heater cannot be turned on when the fan setting set to OFF.

- (3) Non-ducted models do not require the settings as described in Section (1) above.

- Reference (not applicable to the ducted models)

Pattern	NON ducted unit (PLFY/PKFY/PCFY/PMFY)		
	CN4Y or CN22 for FAN control (YU25)*1	DIP S/W (Indoor unit)	Fan in defrost
1	N/A	N/A	Stop (Heater ON)

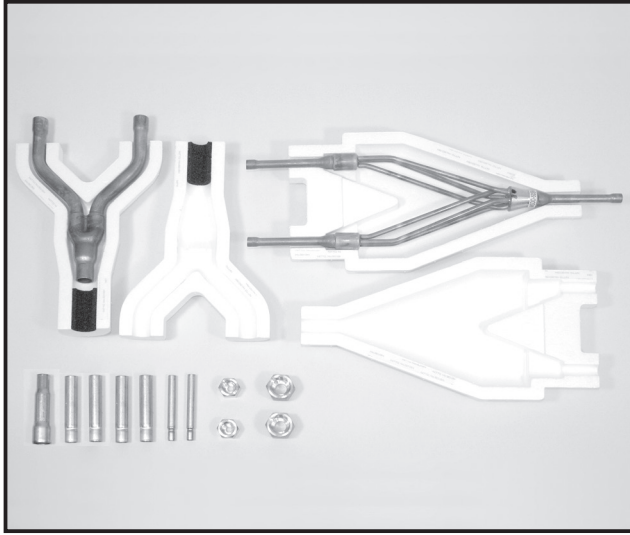
*1: Refer to Section 5 "Dipswitch Setting" for further information.

- (4) Back-up heating will not operate when the heater turns on during demand control.

- (5) This is applicable only to the R410A series. Make the settings for the following dip switches on the outdoor unit control board before turning on the power.

* model change from MSDD-50SR-E

Photo



Descriptions

Branch pipe for Multi-System Twin type Twin use. (50:50)

Applicable Models

■ PUZ-HA36NHA5

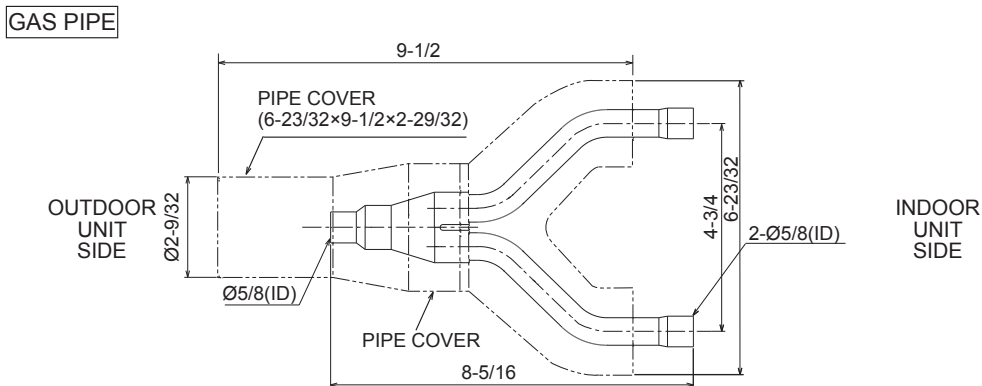
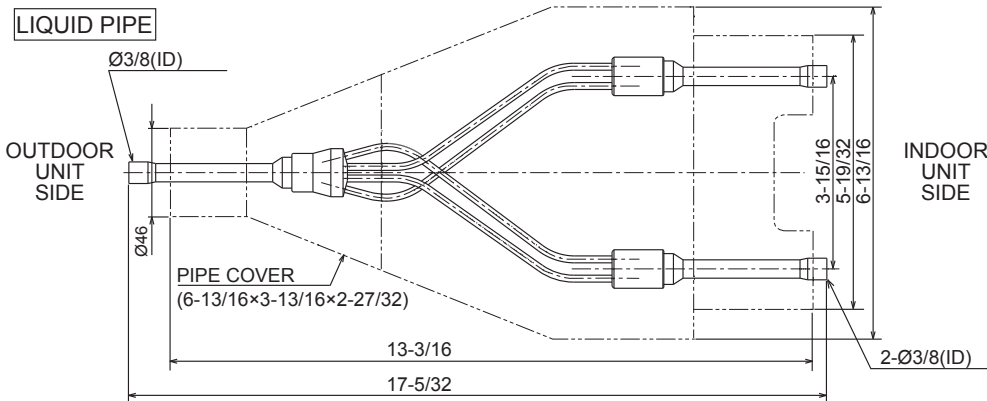
for Twin 50:50 use

Specifications

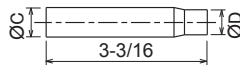
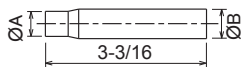
Main body	Distribution ratio	Outdoor unit capacity is divided into two (50:50)
	Number of distribution pipes	1 each for liquid pipe and gas pipe
	Pipe material	Phosphate deoxidized copper C1220T-OL (JIS H3300)
Accessory	Pipe cover	Styrofoam molding (1 each for liquid pipe and gas pipe)
	Joint	7 joints (4 types)

Dimensions

Unit: inch



JOINT(Accessory)





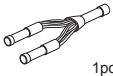




$\text{ØA}(\text{ID})$	$\text{ØB}(\text{OD})$	Amount
1/4	3/8	2
3/8	5/8	2
1/2	5/8	2

$\text{ØC}(\text{ID})$	$\text{ØD}(\text{OD})$	Amount
3/4	5/8	1

How to Use / How to Install

Package Air-conditioner Optional Parts Instruction Sheet for Simultaneous Twin Distributing Pipe

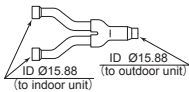
Make sure that you have all the following parts before installation.

① Instruction sheet  This sheet 1 sheet	② Gas pipe  1pc	③ Liquid pipe  1pc	④ Pipe cover (for gas pipe)  1pc	⑤ Pipe cover (for liquid pipe)  1pc	⑥ Joint pipe  A $\phi 9.52 \rightarrow \phi 6.35 \dots$ 2pcs B $\phi 15.88 \rightarrow \phi 12.7 \dots$ 2pcs C $\phi 15.88 \rightarrow \phi 19.05 \dots$ 1pc D $\phi 15.88 \rightarrow \phi 9.52 \dots$ 2pcs	⑦ Flare nut  1/4F \dots 2pcs 1/2F \dots 2pcs For R410A indoor unit.
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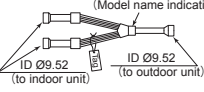
● See the following for the specifications of gas pipe ②, and liquid pipe ③.

■ MSDD-50TR

② Gas pipe



③ Liquid pipe



※ Procure the following at local site in addition to the above

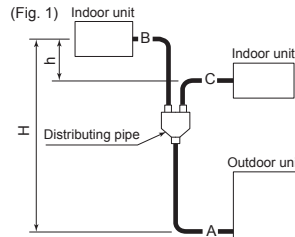
- Tape for heat insulator sealing
- Extended pipe for refrigerant pipe

Pipe size and limit to refrigerant pipe

■ For R410A

Outdoor unit capacity	Pipe size (mm)				Actual pipe length (m)			Height Difference (m)		Note 1 Number of bends
	Gas pipe side		Liquid pipe side		Indoor-Outdoor	A+B+C=	Indoor-Indoor	Indoor-Outdoor	Indoor-Indoor	
	Outdoor unit side	Indoor unit side	Outdoor unit side	Indoor unit side						
71(3Hp)	Ø15.88 (5/8)	35, 50 Ø9.52(3/8) Ø12.7(1/2)	Ø9.52 (3/8)	35, 50 Ø6.35(1/4)	—	50m or less	B-C = 8m or less	H = 30m or less	h = 1m or less	15 or less
100~140 (4~6Hp)		60~71 Ø15.88(5/8)		60~71 Ø9.52(3/8)						

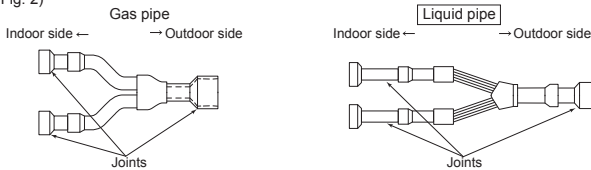
Note 1: Limit the number of bends for refrigerant pipes to 8 in each of the (A+B) and (A+C) ranges.
※ See the installation manual provided with the main unit for details on chargeless pipe length and refrigerant additional charge amount.



Pipe connections

Combination pattern of indoor and outdoor units and joints to be used:

(Fig. 2)



- Perform work, taking care with the followings:
 - Be sure to check the combination pattern of indoor and outdoor units and joints to be used (Table 2).
 - Be sure to observe the limits to refrigerant pipe length and number of bends (Table 1).
 - Insert the refrigerant pipe (procured at local site) and joint ⑥ into the expanded pipe portions of distributing pipe (this product) until they stop, and then connect them using anti-oxidization soldering.
 - There is no restriction on the orientation of distributing pipe (this product) during installation.
 - Take care that no foreign object, such as dust, enters during pipe connecting work.
 - Remove the tag of liquid pipe ③ after checking it.
- Pipe connections
 - The provided joints ⑥ will be necessary depending on the capability of model used: See (Table 2), and connect the joints as shown in (Fig. 2).
 - Do not bend or widen the distributing pipe (liquid pipe).

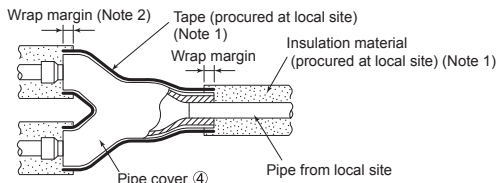
■ For R410A

(Table 2-2)

Outdoor unit	Indoor unit	Joint to be used
71(3Hp)	35+35 (1.6+1.6)	Ⓐ Outer Ø15.88—inner Ø12.7 [indoor gas pipe side], Ⓐ Outer Ø9.52—inner Ø6.35 [indoor liquid pipe side]
100(4Hp)	50+50 (2+2)	Ⓑ Outer Ø15.88—inner Ø9.52 [indoor gas pipe side], Ⓑ Outer Ø9.52—inner Ø6.35 [indoor liquid pipe side]
125(5Hp)	60+60 (2.5+2.5)	Ⓒ Outer Ø15.88—inner Ø12.7 [indoor gas pipe side], Ⓒ Outer Ø9.52—inner Ø6.35 [indoor liquid pipe side]
140(6Hp)	71+71 (3+3)	No joint is necessary.

※ Installation positions in brackets ().

Heat insulation work



Notes:

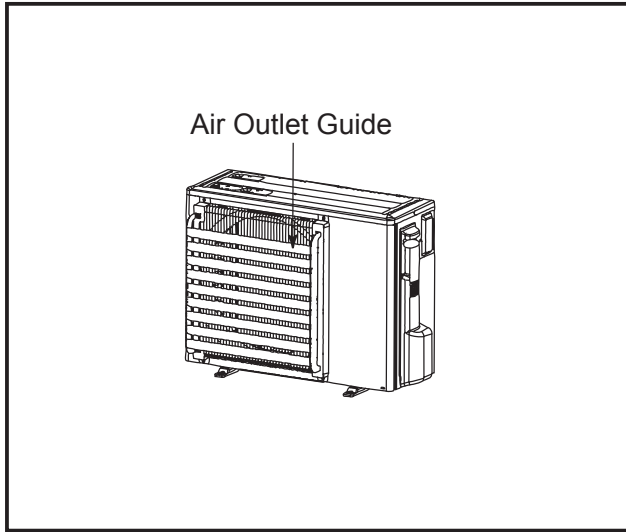
- Cover the entire refrigerant pipe (procured at local site) with heat insulation material. When using generally available heat insulation material, heat-resistant insulation material (at least 12 mm thick).
- Pipe covers ④ and ⑤ will shrink slightly at high temperatures: Provide wrap margins with insulation material.

- Fit gas pipe ② into pipe covers ④, and then seal the mated portion of pipe covers ④ using heat insulation seal tape (procured at local site).
- Process liquid pipe ③ in the same way.

Please install contents other than this description on the main part of a product with an attached installation description, and use them as it.



Figure



Descriptions

A part to change air direction from outdoor unit. Can also be used to prevent short cycles.

Applicable Models

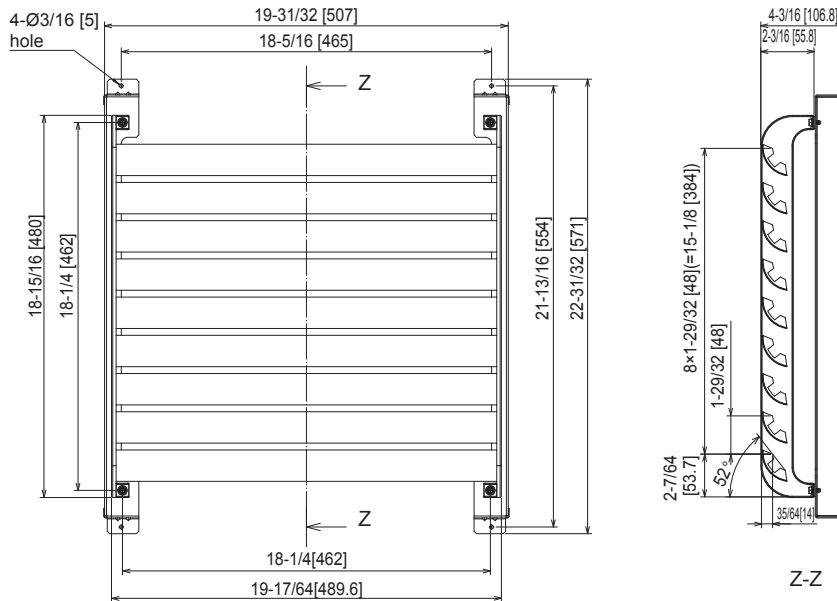
- PUY-A12/18NKA7(-BS)
 - PUZ-A12/18NKA7(-BS)
- only 1 piece required

Specifications

Exterior	Color (Munsell)	Ivory (3.0Y 7.8/1.1)
	Material/surface treatment	Alloy hot-dip zinc-coated carbon steel sheet/Acrylic resin coating
Weight		2.8kg
Air outlet direction		Changeable between up, down or sideways
Accessory name x Qty. <Material/Surface treatment>		Screw (M5x10) x 4 (Iron/Zinc nickel alloy plated) Screw (M4x12) x 4 (Iron/Zinc nickel alloy plated)

Dimensions

Unit: inch [mm]



CAUTION

When the outdoor unit is installed in front of a store or in a passage, this air outlet guide is used to change the discharge direction of hot air (during cooling) or cold air (during heating) from the outdoor unit. Upward, downward and sideways directions are possible. This guide is also effective to protect the winds may blow against the discharge outlet.

Note the followings when installing this guide:

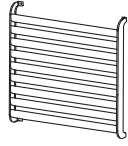




- 1) Be sure not to use "upward discharge" in a place where snowing is possible. Snow may accumulate in the guard, which could damage the fan, etc.
- 2) Attaching this unit will decrease the performance (by 2-3%) and increase noise from outdoor unit (by approx. 1-2 dB).
- 3) Do not use "upward discharge" when there are any obstacles at the back and on both sides of outdoor unit (air is taken in from top of unit): This could cause a short cycle.
- 4) To eliminate the influence of external wind, be sure to install the unit with its back facing to wall.
- 5) Do not install this unit in a place where wind directly blows to the back of the unit.

How to Use / How to Install

Note that two sets of this product are necessary for RP100, RP125, RP140.

1 Accessories

Make sure that this package has the following parts as well as the installation sheet:

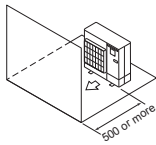
①Air outlet guide	1	②Support	2	③Attachment screw 5×10	4	④Attachment screw 4×12	4
							

2 Requirements of installation space [Unit:mm]

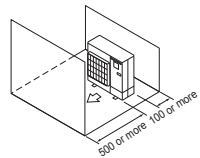
● Secure the necessary surrounding space shown below and select a place with less obstacles, to prevent a short cycle.

- 1) Surrounding space needed when installing one unit
- Do not use "upward discharge" in cases of figures (3) and (5) below.

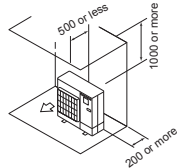
(1) Obstacle at front (open at back, sides and top)



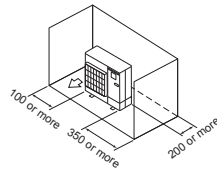
(2) Obstacles at back and front (open at sides and top)



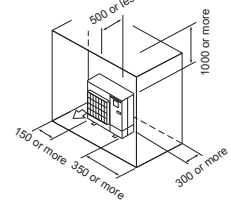
(3) Obstacles at back and top (open at front and sides)



(4) Obstacles at back, and sides (open at front and top)



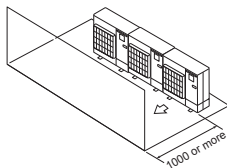
(5) Obstacles at back, sides and top (open at front)



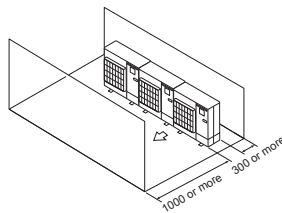
- 2) Surrounding space needed when installing multiple units

- When installing units horizontally in a series, leave at least 350 mm space between units.
- Do not use "upward discharge" in case of figure (3) below.

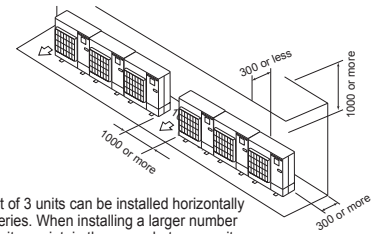
(1) Obstacle at front (open at back, sides and top)



(2) Obstacles at back and front (open at sides and top)

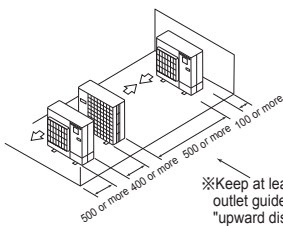


(3) Obstacles at back and top (open at front and sides)



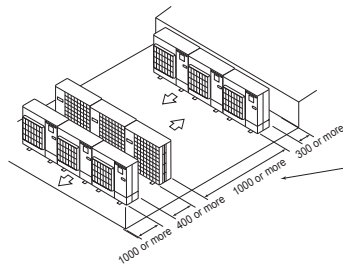
※Limit of 3 units can be installed horizontally in series. When installing a larger number of units, maintain the space between units shown above.

(4) Installing units, one in each row



※Keep at least 1000 when using outlet guide in directions other than "upward discharge".

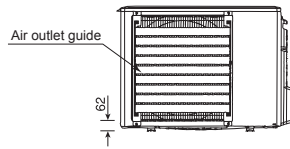
(5) Installing multiple units in multiple rows



※Keep at least 2000 when using outlet guide in directions other than "upward discharge".

3 Installation Complete Diagrams

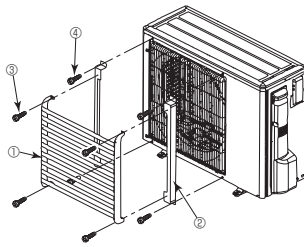
809W × 300D × 630H(mm)
Outdoor unit



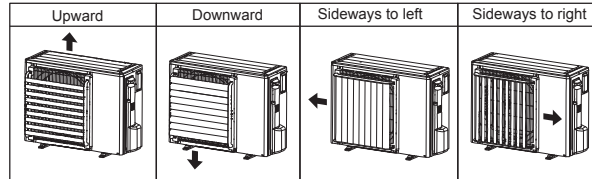
4 Installation Method

• Four blowout directions can be selected: Check the orientation of blowout vane, and attach the blowout guide in the direction that matches the situation at local site.

- (1) Make a frame by fixing 2 supports ② on the outdoor unit with 4 screws ③.
- (2) Fix the air outlet guide ① to the supports mounted on the outdoor unit with 4 screws ③.



<Setting blow-off direction>





Photo



Descriptions

A part to change air direction from outdoor unit.
Can also be used to prevent short cycles.

Applicable Models

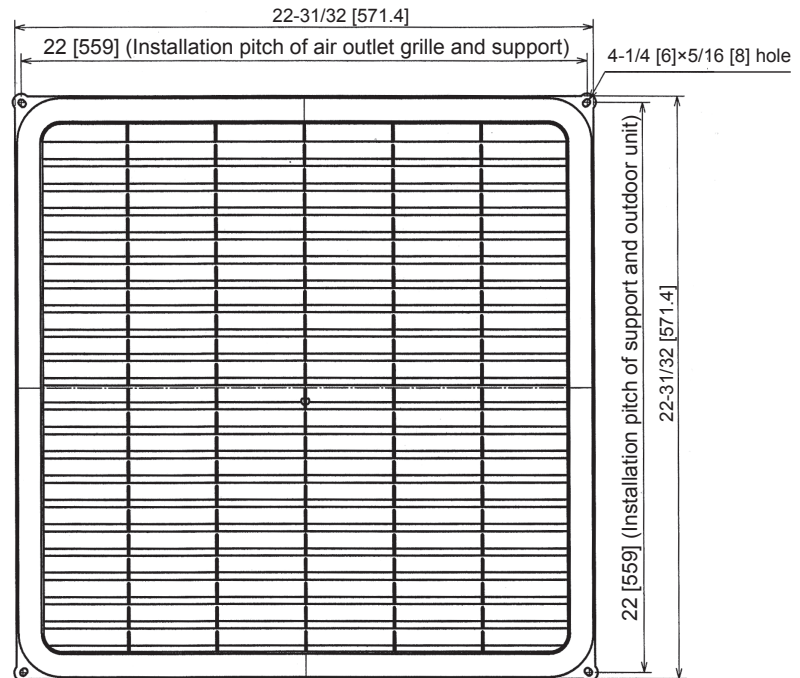
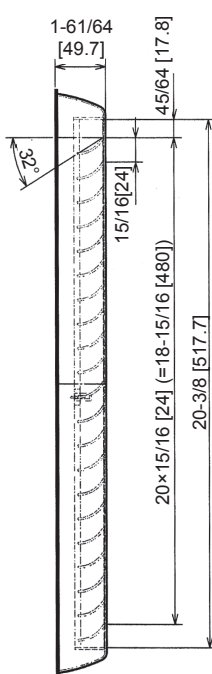
- PUY-A24/30NHA7(-BS)
- PUZ-A24/30NHA7(-BS)
- PUZ-A24/30/36/42NHA6(-BS)
- PUZ-HA30/36NHA5

Specifications

Exterior	Color (Munsell)	Ivory (3.0Y 7.8/1.1)
	Material	Air outlet grille: PP resin
Weight		1.2kg
Air outlet direction		Changeable between up, down or sideways
Accessory name x Qty. <Material/Surface treatment>		Washer faced screw (M5x35) x 4 (Iron wire (SWCH18A)/Zinc nickel plated)

Dimensions

Unit: inch [mm]



⚠ CAUTION

* Air Guide prevents reverse rotation of outdoor unit fan when it enters low speed rotation mode with fan controller being operated. It is also used for protection of fan when strong winds, such as a typhoon, wind blowing through tall buildings, etc., directly strike the air outlet. In addition, installation of this product is necessary when cooling operation is to be performed in outdoor temperature of -5°C or lower (down to -15°C).

Note the followings when installing this guide:

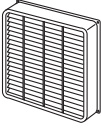





- 1) Be sure not to use "upward discharge" in a place where snowing is possible. Snow may accumulate in the guard, which could damage the fan, etc.
- 2) Attaching this unit will decrease the performance (by 2-3%) and increase noise from outdoor unit (by approx. 1-2 dB).
- 3) Do not use "upward discharge" when there are any obstacles at the back and on both sides of outdoor unit (air is taken in from top of unit): This could cause a short cycle.
- 4) To eliminate the influence of external wind, be sure to install the unit with its back facing to wall.
- 5) Do not install this unit in a place where wind directly blows to the back of the unit.

How to Use / How to Install

2-fan type outdoor unit

1 Checking provided parts

Make sure that this package has the following parts as well as the installation sheet:

① Air Discharge guide × 1 	② Support × 2 (For the upper and lower sides) ※PAC-SG58SG-E (Screw hole × 6) 	③ Support × 2 (For right and left) PAC-SG58SG-E (Screw hole × 2) 	④ Attachment screw × 4 PAC-SG58SG-E (5 × 10) PAC-SG59SG-E (5 × 35) 	⑥ Spacer × 4 ※PAC-SG59SG-E 
			⑤ Attachment screw × 8 PAC-SG58SG-E (4 × 10) 	

2 Checking Installation Space

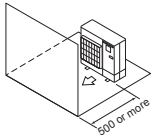
(In the following diagrams, dimensions in parentheses are for 2 fan type models. Dimensions not in parentheses are common for all series models. Unit: mm)

● Secure the necessary surrounding space shown below and select a place with less obstacles, to prevent a short cycle.

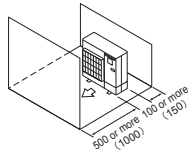
1) Surrounding space needed when installing one unit

• Do not use "upward discharge" in cases of figures (3) and (5) below.

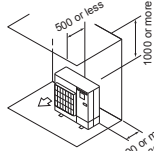
(1) Obstacle at front
(open at back, sides and top)



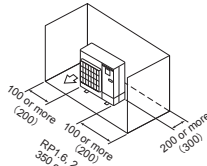
(2) Obstacles at back and front
(open at sides and top)



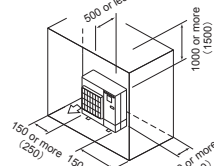
(3) Obstacles at back and top
(open at front and sides)



(4) Obstacles at back, and sides
(open at front and top)



(5) Obstacles at back, sides and top
(open at front)

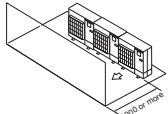


2) Surrounding space needed when installing multiple units

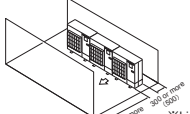
• When installing units horizontally in a series, leave at least 350 mm space between units for RP2, 50 type or lower models, and at least 10 mm for RP2.5, 60 type or higher models.

• Do not use "upward discharge" in case of figure (3) below.

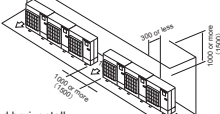
(1) Obstacle at front
(open at back, sides and top)



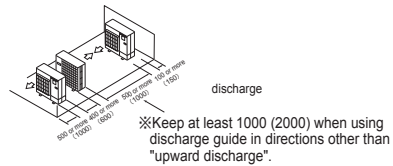
(2) Obstacles at back and front
(open at sides and top)



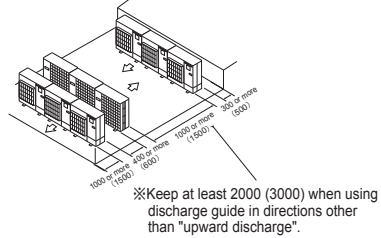
(3) Obstacles at back and top
(open at front and sides)



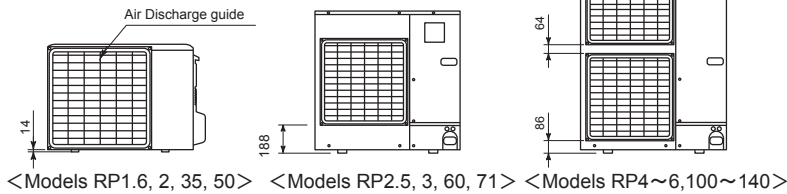
(4) Installing units, one in each row



(5) Installing multiple units in multiple rows



3 Installation Complete Diagrams



4 Installation Method

For RP1.6, 2, 35, 50 :

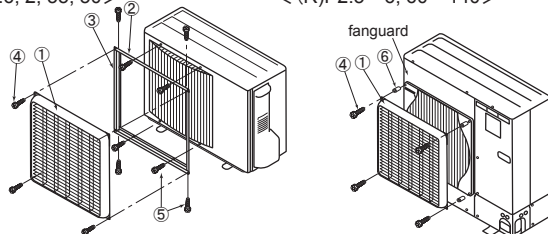
- 1) Fix the two supports (2) and two supports (3), using four screws (5) to make a frame.
- 2) Attach the assembled supports to the outdoor unit using four screws (5), and then attach blowout guide (1) to the support (2), using four screws (4).
 - Four blowout directions can be selected: Check the orientation of blowout vane, and attach the blowout guide in the direction that matches the situation at local site.

For (R)P2.5~6, 60~140: (Two sets of support and blowout guide are necessary for two-fan type models.)

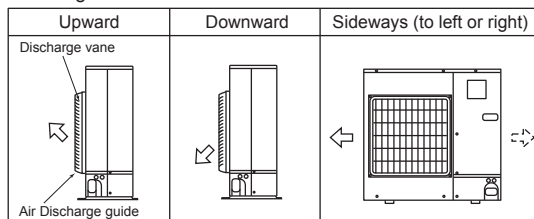
- 1) Remove the 4 screws that hold the existing fan guard.
- 2) Fit the 4 spacers (6) into the hole in fan guard, and then use the 4 screws (4) to install the provided blowout guide (1) to the outdoor unit above the existing fan guard.
 - The four blowout directions can be selected: Check the orientation of blowout vane, and install the blowout guide in the direction that matches the circumstance at local site.

<RP1.6, 2, 35, 50>

<(R)P2.5~6, 60~140>

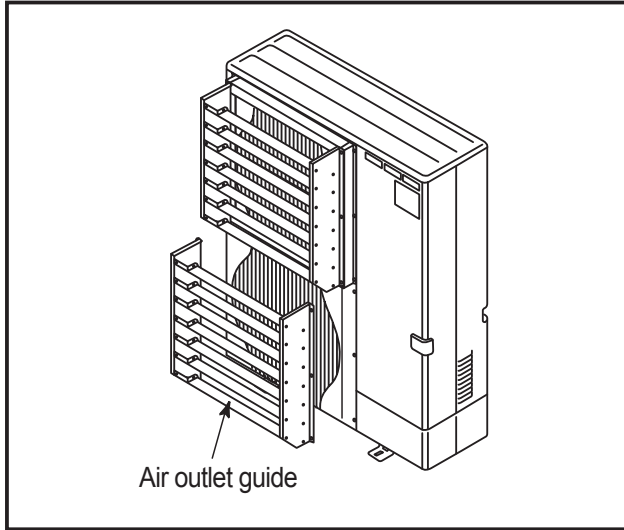


<Setting blow-off direction>





Figure



Descriptions

A part to change air direction from outdoor unit.
Can also be used to prevent short cycles.

Applicable Models

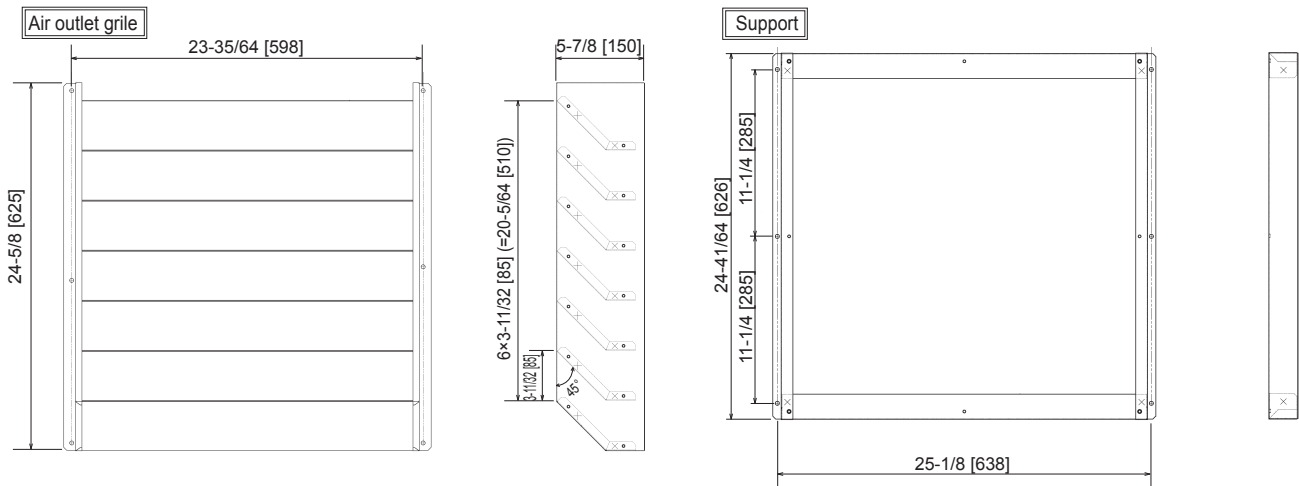
- MXZ-3C24/3C30/4C36/5C42NA2 ■ PUZ-HA42NKA
- MXZ-8C48NA ■ PUY-A36/42NKA7(-BS)
- MXZ-2C20/3C24/3C30NAHZ2 ■ PUZ-A36/42NKA7(-BS)
- MXZ-4C36/5C42/8C48NAHZ

Specifications

Exterior	Color (Munsell)	Ivory (3.0Y 7.8/1.1)
	Material	Air outlet grille: Alloy hot-dip zinc-coated carbon steel sheet
Weight		7kg
Air outlet direction		Changeable between up, down or sideways
Accessory name x Qty. <Material/Surface treatment>		Washer faced screw (M5x15) x 12 (Iron wire (SWCH18A)/Zinc nickel plated) Washer x 12, Spring washer x 12

Dimensions

Unit: inch [mm]



CAUTION

* Air Guide prevents reverse rotation of outdoor unit fan when it enters low speed rotation mode with fan controller being operated. It is also used for protection of fan when strong winds, such as a typhoon, wind blowing through tall buildings, etc., directly strike the air outlet. In addition, installation of this product is necessary when cooling operation is to be performed in outdoor temperature of -5°C or lower (down to -15°C).

Note the followings when installing this guide:


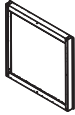



- 1) Be sure not to use "upward discharge" in a place where snowing is possible. Snow may accumulate in the guard, which could damage the fan, etc.
- 2) Attaching this unit will decrease the performance (by 2-3%) and increase noise from outdoor unit (by approx. 1-2 dB).
- 3) Do not use "upward discharge" when there are any obstacles at the back and on both sides of outdoor unit (air is taken in from top of unit): This could cause a short cycle.
- 4) To eliminate the influence of external wind, be sure to install the unit with its back facing to wall.
- 5) Do not install this unit in a place where wind directly blows to the back of the unit.

How to Use / How to Install

2-fan type outdoor unit

1 Checking provided parts

Make sure that this package has the following parts as well as the installation sheet:

①Air Discharge guide	1	②Support	1	③Screw(5×15)	12	④Washer	12	⑤Spring washer	12
									

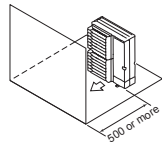
2 Checking Installation Space (Unit: mm)

● Secure the necessary surrounding space shown below and select a place with less obstacles, to prevent a short cycle.

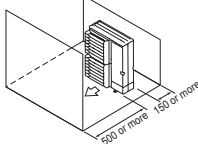
1) Surrounding space needed when installing one unit

• Do not use "upward discharge" in cases of figures (3) and (5) below.

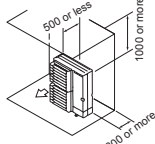
(1) Obstacle at front (open at back, sides and top)



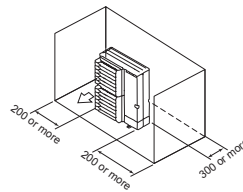
(2) Obstacles at back and front (open at sides and top)



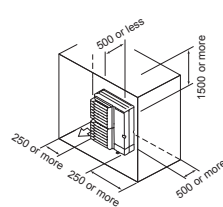
(3) Obstacles at back and top (open at front and sides)



(4) Obstacles at back, and sides (open at front and top)



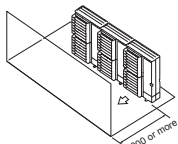
(5) Obstacles at back, sides and top (open at front)



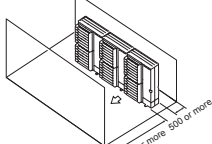
2) Surrounding space needed when installing multiple units

• When installing units horizontally in a series, leave at least 10 mm space between units.
• Do not use "upward discharge" in case of figure (3) below.

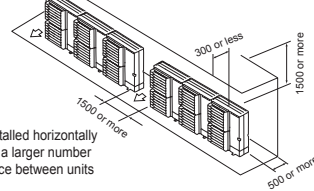
(1) Obstacle at front (open at back, sides and top)



(2) Obstacles at back and front (open at sides and top)

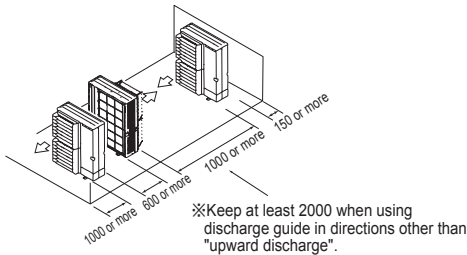


(3) Obstacles at back and top (open at front and sides)

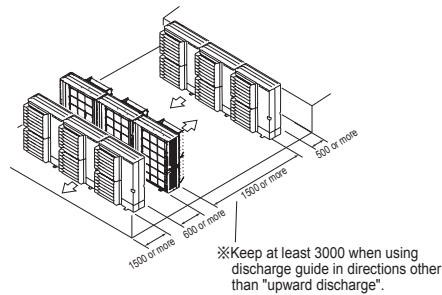


※Limit of 3 units can be installed horizontally in series. When installing a larger number of units, maintain the space between units shown above.

(1) Installing units, one in each row



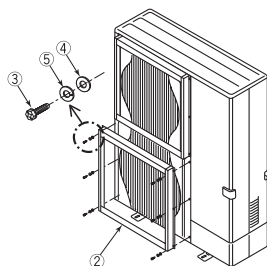
(2) Installing multiple units in multiple rows



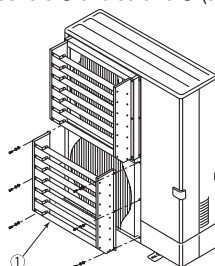
3 Installation Method

• 4 blowout directions can be selected: Check the orientation of blowout vane, and attach the blowout guide in the direction that matches the situation at local site.

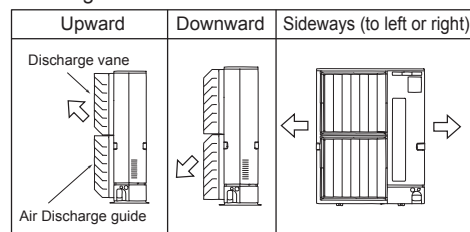
(1) Attach the support ② to the outdoor unit using the washers ④, spring washers ⑤ and screws ③ (at the 6 points) on the existing fan guard



(2) Set the orientation of the blowout vane of the discharge guide ① to the desired direction and install the vane to the outdoor unit using the washers ④, spring washers ⑤ and screws ③ (at 6 points).

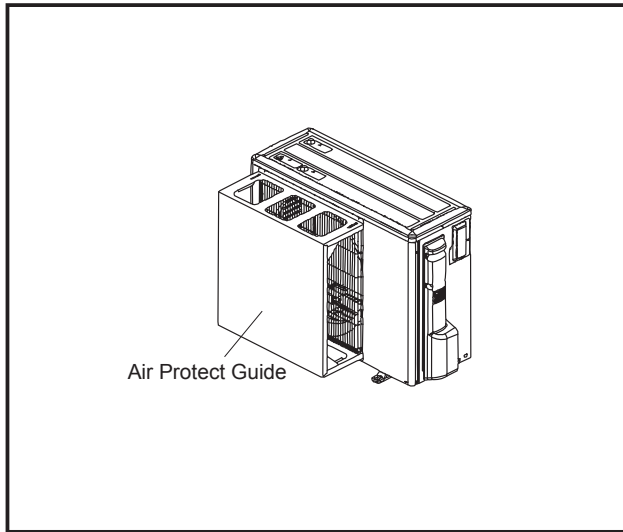


< Setting blow-off direction >





Figure



Descriptions

Enables operation even when the outside temperature is low. Protect the unit from cold wind.

Applicable Models

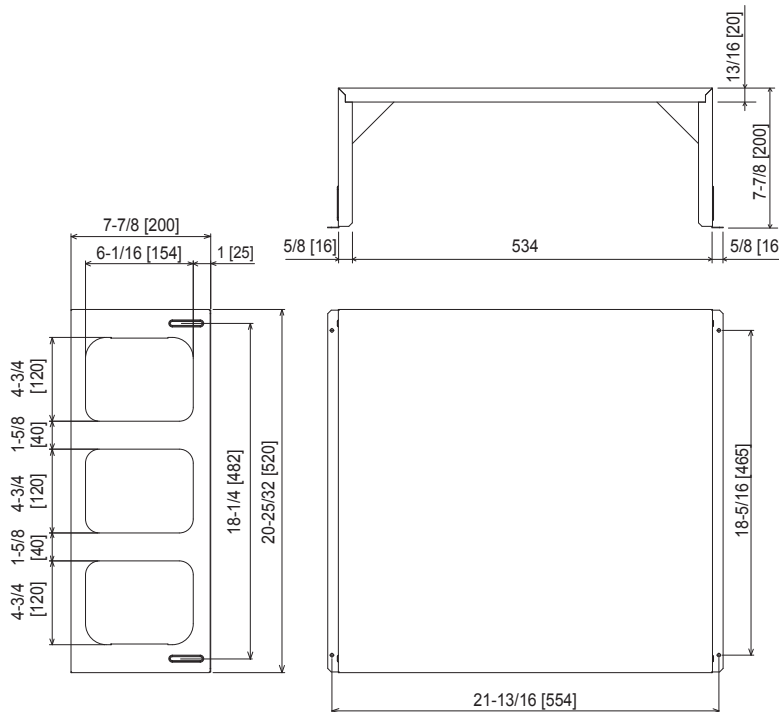
- PUY-A12/18NKA7(-BS)
 - PUZ-A12/18NKA7(-BS)
- only 1 piece required

Specifications

Exterior	Color (Munsell)	Ivory (3.0Y 7.8/1.1)
	Surface treatment	Acrylic resin coating
	Material	Alloy hot-dip zinc-coated carbon steel sheet
Weight		3.4kg
Accessory name x Qty.		Mounting screw (4x10) x 4 Spring washer x 4

Dimensions

Unit: inch [mm]



⚠ CAUTION

* This Air protect prevents reverse rotation of outdoor unit fan when it enters low speed rotation mode with fan controller being operated. It is also used for protection of fan when strong winds, such as a typhoon, wind blowing through tall buildings, etc., directly strike the air outlet. In addition, installation of this product is necessary when cooling operation is to be performed in outdoor temperature of -5°C or lower (down to -15°C).

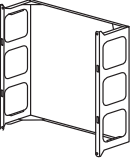
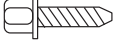


Pay attention to the following points when installing this product:

- 1) To eliminate the effects of external wind, be sure to install this unit with back surface facing wall side.
- 2) Do not install this unit in orientation or site where wind directly blows at the back of the unit.
- 3) Installing of this product will reduce the capacity of the unit (approx. 2 or 3%) and increase the noise of outdoor unit (approx. 1 or 2dB)
- 4) Do not use this product where there is any obstacle at either side or above the outdoor unit (discharge air will be blocked): This may cause a short cycle.

How to Use / How to Install

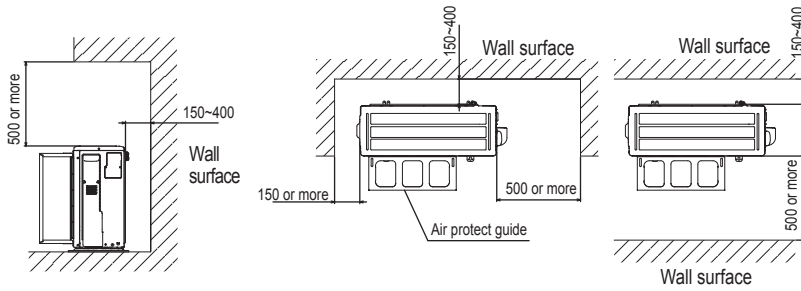
1 Accessories

Make sure that all the following parts, in addition to this manual, are in this box.

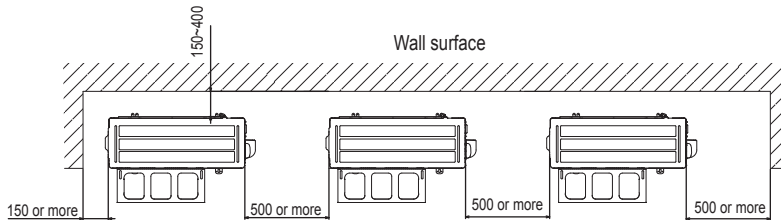
① Air protect guide	1	② Mounting screw 4×16	4	③ Washer	4	④ Spring washer	4
							

2 Requirements of installation space [Unit: mm]

(1) One unit installation:

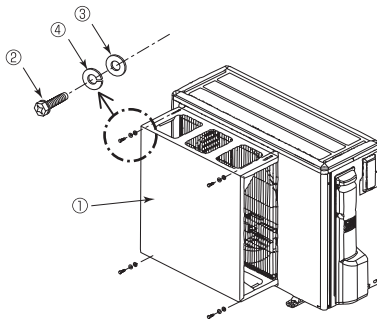


(2) Multiple unit installation: *Installation of multiple units in series must be no more than five units.



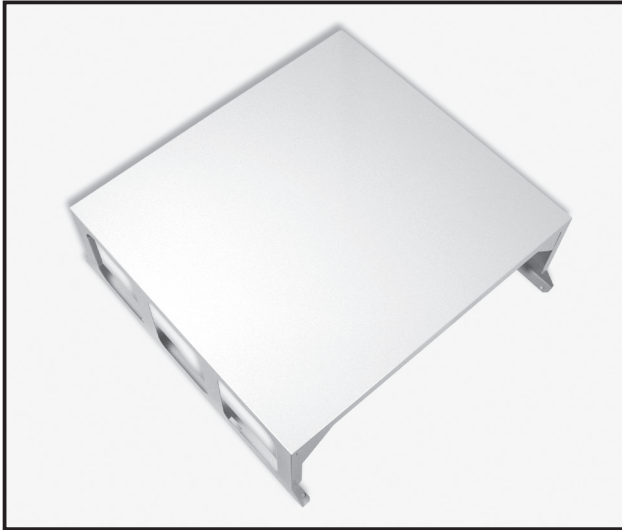
3 Installation procedure

(1) Install the air protect guide ① on the outdoor unit using washers ③, spring washers ④ and screws ②.





Photo



Descriptions

Enables operation even when the outside temperature is low. Protect the unit from cold wind.

Applicable Models

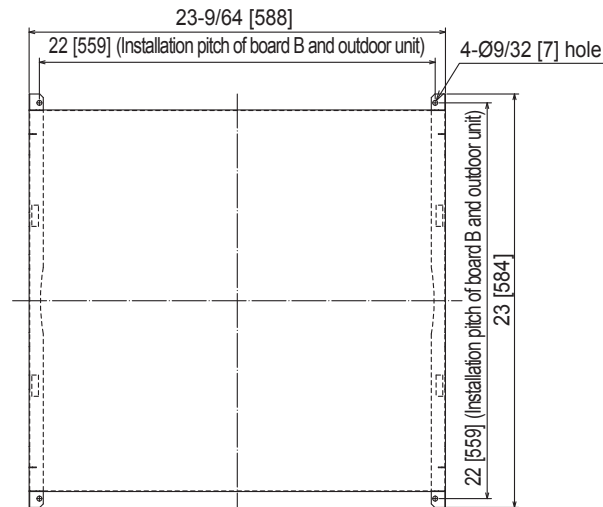
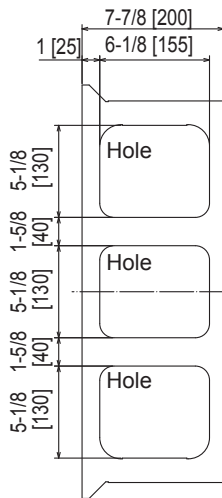
- PUY-A24/30NHA7(-BS)
- PUZ-A24/30NHA7(-BS)
- PUZ-HA30/36NHA5

Specifications

Exterior	Color (Munsell)	Ivory (3.0Y 7.8/1.1)
	Surface treatment	Acrylic resin coating
	Material	Alloy hot-dip zinc-coated carbon steel sheet
Weight		3.3kg
Accessory name x Qty. <Material/Surface treatment>		Washer faced screw (M5x15) x 4 <Iron wire (SWCH18A)/Zinc nickel plated>

Dimensions

Unit: inch [mm]



Outdoor unit installation side

⚠ CAUTION

* Air Guide prevents reverse rotation of outdoor unit fan when it enters low speed rotation mode with fan controller being operated. It is also used for protection of fan when strong winds, such as a typhoon, wind blowing through tall buildings, etc., directly strike the air outlet. In addition, installation of this product is necessary when cooling operation is to be performed in outdoor temperature of -5°C or lower (down to -15°C).

Note the followings when installing this guide:

- 1) Be sure not to use "upward discharge" in a place where snowing is possible. Snow may accumulate in the guard, which could damage the fan, etc.
- 2) Attaching this unit will decrease the performance (by 2-3%) and increase noise from outdoor unit (by approx. 1-2 dB).
- 3) Do not use "upward discharge" when there are any obstacles at the back and on both sides of outdoor unit (air is taken in from top of unit): This could cause a short cycle.
- 4) To eliminate the influence of external wind, be sure to install the unit with its back facing to wall.
- 5) Do not install this unit in a place where wind directly blows to the back of the unit.

How to Use / How to Install

Package air-conditioner Optional parts Installation Manual for Air Guide

Always observe for safety

- Carefully read this section 「Always observe for safety」, and securely install the optional parts.
- Be sure to observe the cautions described here: They include critical contents for safety.
- The following indications show the classifications for danger, and possible consequences following incorrect handling.

⚠ WARNING Incorrect handling could lead to death or serious injury.

⚠ CAUTION Incorrect handling could lead to injury or damage to house and household articles.

- After installation, perform a test run and make sure that there is no abnormality, and ask your customer to keep this installation sheet with the instruction manual at all times. Also ask the customer to transfer these manuals to a new user if the user changes.

⚠ WARNING

Ask the dealer or specialist for installation.

- If installed incorrectly by user, water leak, electric shock, fire, etc. could result.

Carefully install the panel according to this installation sheet.

- Incorrect installation could cause water leak, electric shock, fire, etc.

Before performing installation (moving) and electrical work

⚠ CAUTION

Do not place polyethylene bags in reach of young children.

- Putting them over the head will block breathing passages, which could result in suffocation.

If electrical work is necessary, use only specified electric wires adapted with current capacity.

- Use of unsuitable wire could cause electric leak, overheating or fire.

Securely apply heat-insulation to refrigerant pipe so that no condensation occurs.

- If heat-insulation is inadequate, condensation could occur on the surface of pipes and dewdrops could accumulate on ceiling, floor or important goods.

Securely perform drain piping work according to the installation manual so that no condensation occurs.

- If piping work is incorrect, water leak may occur and ceiling, furniture, etc may get wet.

This Air Guide prevents reverse rotation of outdoor unit fan when it enters low speed rotation mode with fan controller being operated. It is also used for protection of fan when strong winds, such as in a typhoon, wind blowing through tall buildings, etc., directly strike the air outlet.

In addition, installation of this product is necessary when cooling operation is to be performed in outside-air temperature of -5°C or lower (down to -15°C).

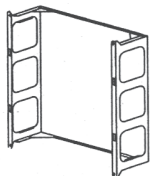
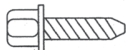


Pay attention to the following points when installing this product:

- 1) To eliminate the effects of external wind, be sure to install this unit with back surface facing wall side.
- 2) Do not install this unit in orientation or site where wind directly blows at the back of the unit.
- 3) Installing of this product will reduce the capacity of the unit (approx. 2 or 3%) and increase the noise of outdoor unit (approx. 1 or 2dB).
- 4) Do not use this product where there is any obstacle at either side or above the outdoor unit (discharged air will be blocked). This may cause a short cycle.

When 2-fan type outdoor unit is used, note that two sets of this product will be necessary.

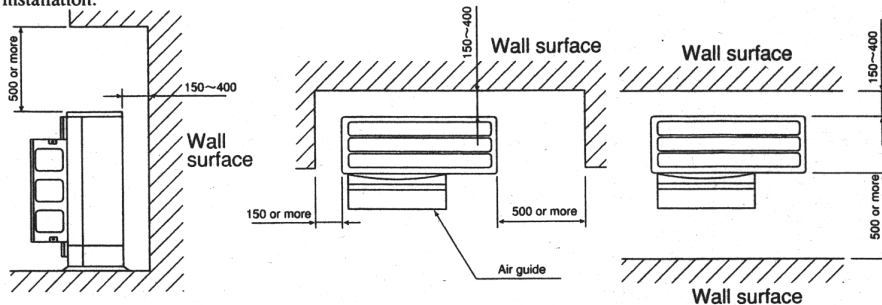
1 Checking parts

Make sure that all the following parts, in addition to this manual, are in this box:

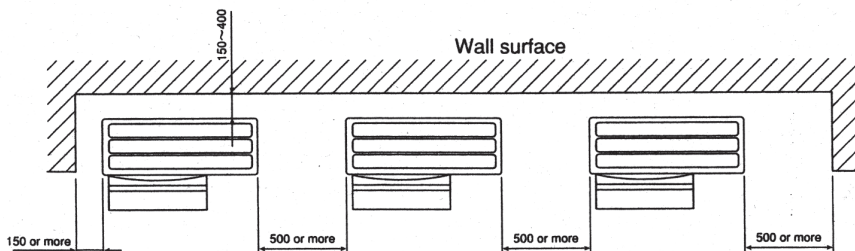
① Air Guide	1	② Mounting screw 5×15	4	③ Washer	4	④ Spring washer	4
							

2 Requirements of space for installation

(1) One unit installation:

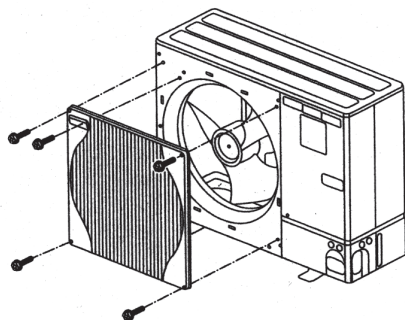


(2) Multiple unit installation: ※ Installation of multiple units in series must be no more than five units.

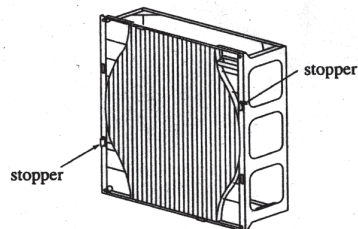


3 Installation procedure

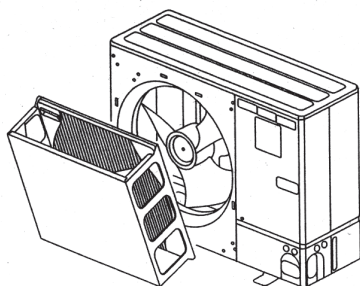
(1) Remove the fan guard fixing screws (five screws on circumference), and then remove the fan guard.



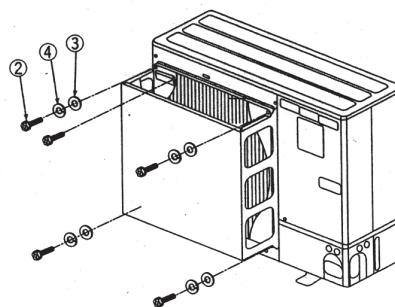
(2) Insert the fan guard stoppers into the square holes on the air guide.



(3) Insert the stoppers (four locations) of the fan guard into the installation holes on the outdoor unit.



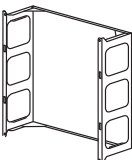



(4) Install the air guide on the outdoor unit using washers (3), spring washers (4) and screws (2).
* Use existing screws for handle section.



How to Use / How to Install

1 Checking parts

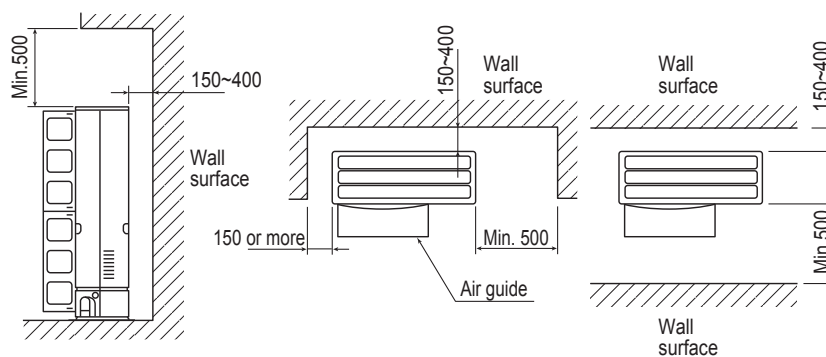
Make sure that all the following parts, in addition to this manual, are in this box:

①Air Guide	1	②Mounting screw (5×15)	6	③Washer	6	④Spring washer	6
							

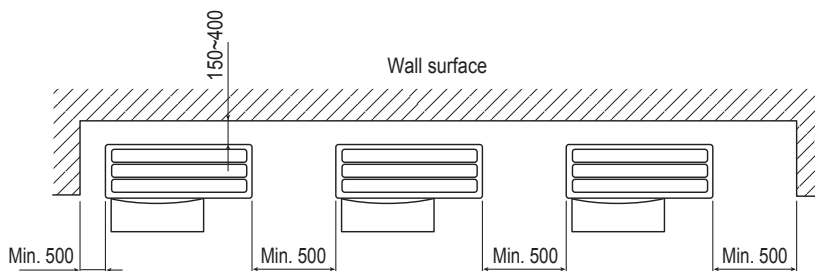
2 Requirements of space for installation

(Unit : mm)

(1)One unit installation

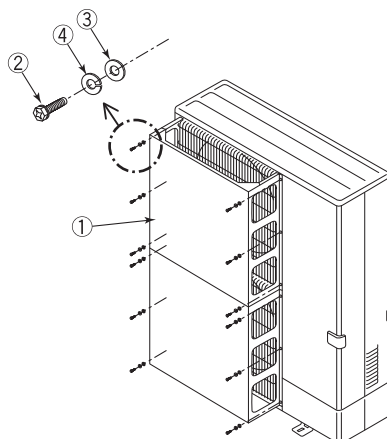


(2)Multiple unit installation : Installation of multiple units in series must be no more than 5 units.

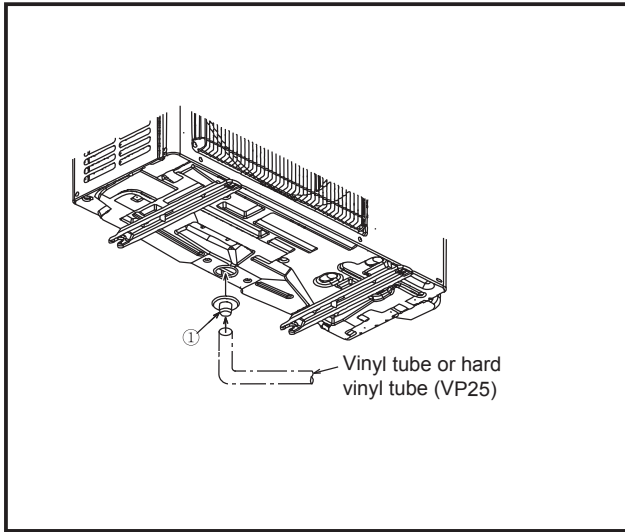


3 Installation procedure

(1)Install the air guide ① on the outdoor unit using washers ③, spring washers ④ and screws ②.



Figure



Descriptions

Cap the unnecessary holes on the outdoor unit (bottom) and centralize the drainage when using a drain pipe.

Applicable Models

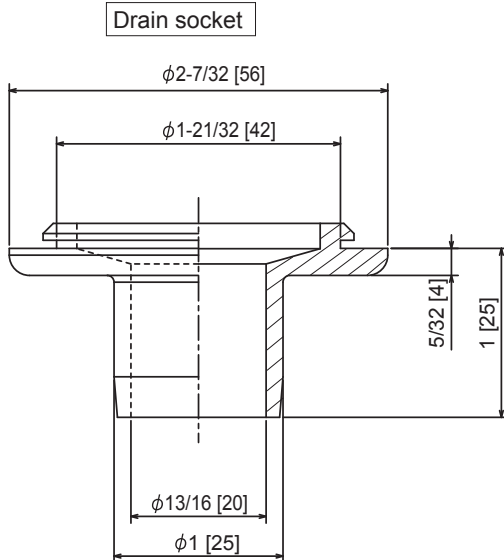
- PUY-A12/18NKA7(-BS)
- PUZ-A12/18NKA7(-BS)

Specifications

Drain pipe	PVC VP-25 or vinyl hose (ID: 25mm)
Operating conditions	No freezing allowed (Never to be used in cold climates)
Material	EPT rubber
Component	Drain socket x 1

Dimensions

Unit: inch [mm]



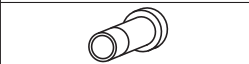
The outdoor unit is provided with several holes for drainage at the bottom to make it easier. The drain socket is used to close the unnecessary holes and centralize when using the drain tube at the installation place.

Do not use the drain socket in cold areas. The drain tube can be frozen.

* Condensation could drop through the part fitting holes in the bottom of the outdoor unit. Use the centralized drain pan to completely prevent condensation dropping.

1. Accessory

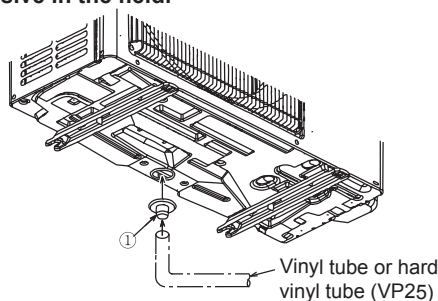
① Drain socket.....1 pc



Be aware that the part shown to the left is put in the package together with the installation manual.

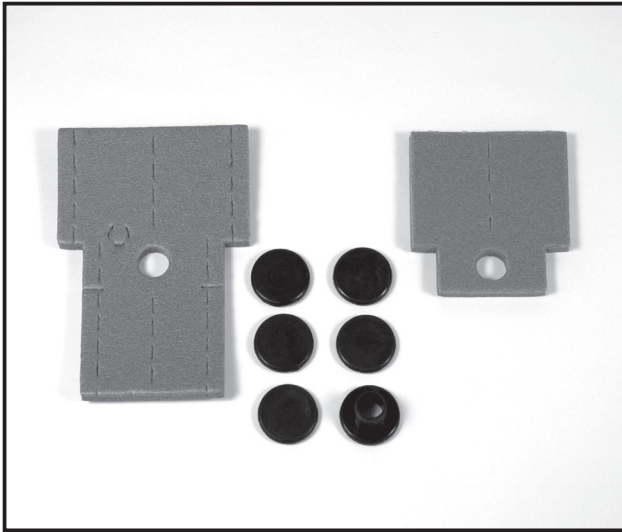
2. Installation procedure ☆ Prepare the adhesive in the field.

- (1) Glue the drain socket ① to the hole that is used to the drainage at the bottom of the unit with the glue (Prepare in the field).
- (2) Insert a vinyl tube of which inner diameter 25 mm available commercially or a hard vinyl tube VP25 to the drain socket ①.





Photo



Descriptions

Cap the unnecessary holes on the outdoor unit (bottom) and centralize the drainage when using a drain pipe.

Applicable Models

- PUY-A24/30NHA7(-BS)
- PUY-A36/42NKA7(-BS)
- PUZ-A24/30NHA7(-BS)
- PUZ-A36/42NKA7(-BS)
- PUZ-HA30/36NHA5
- PUZ-HA42NKA

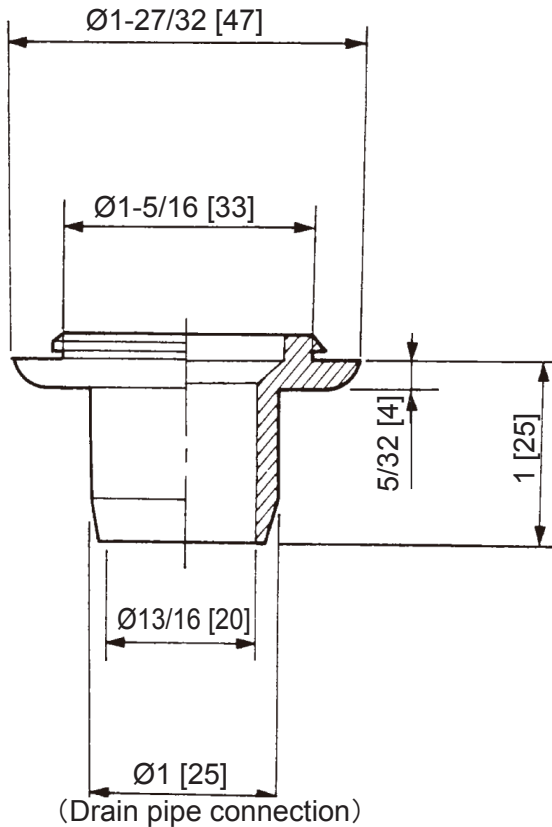
Specifications

Drain pipe	PVC VP-25 or vinyl hose (ID: 25mm)
Operating conditions	No freezing allowed (Never to be used in cold climates)
Material	EPT rubber
Component	Drain socket x 1, Drain cap x 5 Heat insulator x 2 (1 large and 1 small insulator), Band x 8

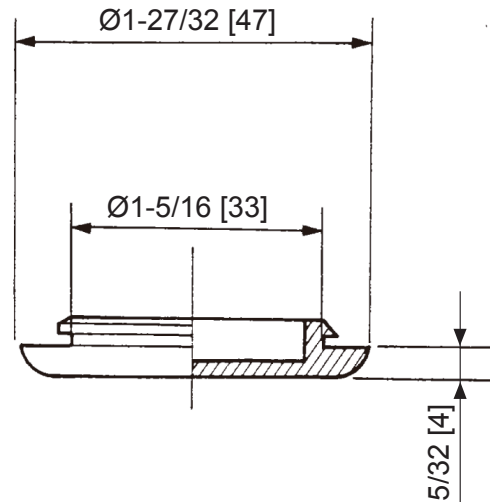
Dimensions

Unit: inch [mm]

Drain socket





Drain cap



How to Use / How to Install

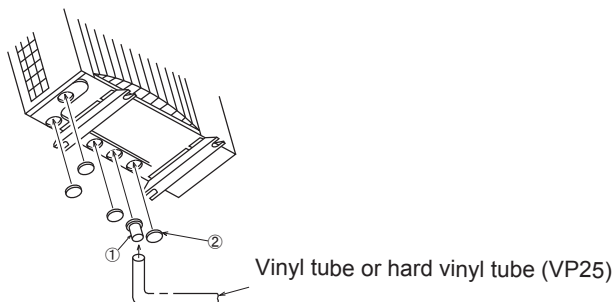
1 Accessory

Make sure that the following parts are put in the package.

① Drain socket 1 pcs	② Drain cap 5 pcs
③ Insulation part (for liquid pipe) 1 pc	④ Insulation part (for gas pipe) 1 pc
⑤ Band 8 pcs	
 Small size	 Large size

2. Installation method for drain unit ☆ Prepare the adhesive in the field.

- (1) Glue the drain socket ① to the hole that is used to centralize the drainage among several holes at the bottom of the unit with the glue (Prepare in the field).
- (2) Glue the drain caps ② to close all the other unnecessary holes with the glue (Prepare in the field).
 <Note> Apply the glue securely, as the glue (Prepare in the field) will work as seal to prevent water from leaking.
 <Note> Use the adhesive for the rubber and metal.
 <Recommended product> Supper X series made by CEMEDINE CO., Ltd.
- (3) Insert a vinyl tube of which inner diameter 25 mm available commercially or a hard vinyl tube VP25 to the drain socket ①.



3. Installation method for insulation parts

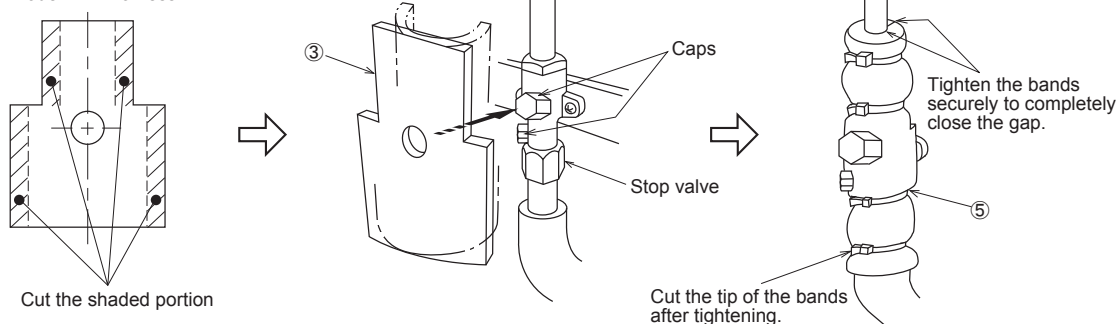
Install the insulation parts to stop valve of the outdoor unit.

※The insulation parts should be installed after the tube has been connected to the unit.

※Some units are provided with a check valve near stop valve. In this case, cut the insulation parts ③ and ④ so that they will fit the stop valve properly.

- (1) Install the insulation part ③ with 2 holes to the liquid pipe side so that the holes fit the valve caps and cover the stop valve entirely.
 - (2) Fix the insulation part ③ securely with bands ⑤.
- Install the other insulation part ④ to the gas pipe side with the same procedure.

• Cut both ends of the insulation part ⑤ for gas tube side for the model RP71 or less.





Photo



Descriptions

A drain pan for the drain water generated from the outdoor unit.

Applicable Models

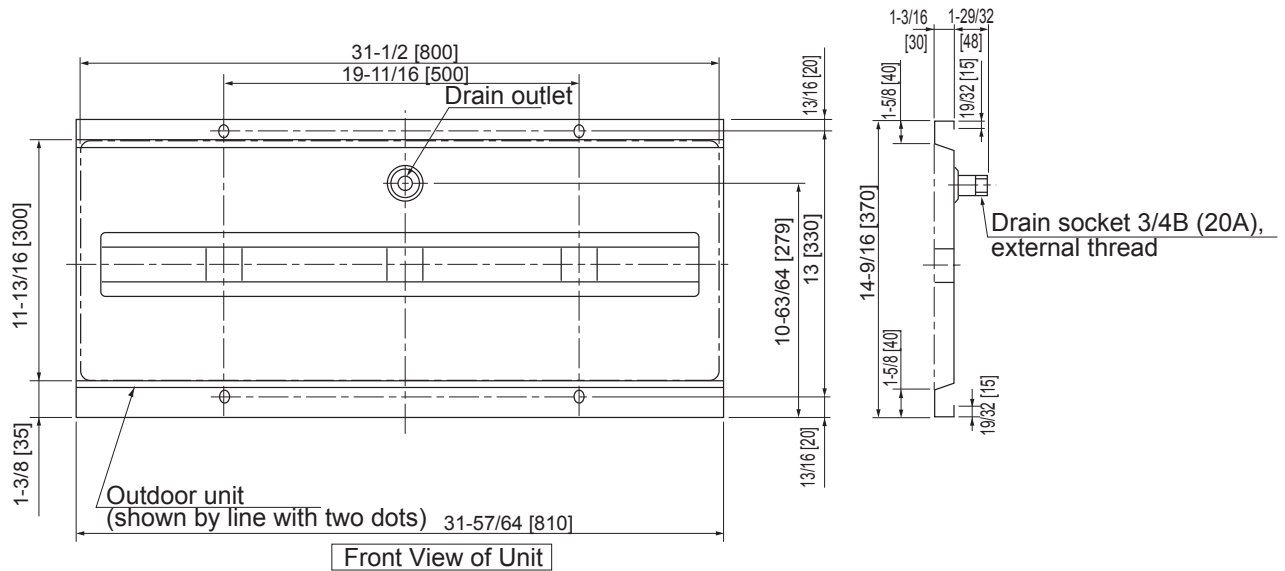
- PUY-A12/18NKA7(-BS)
- PUZ-A12/18NKA7(-BS)

Specifications

Drain outlet size		R3/4 screw (20A)
Exterior	Color (Munsell)	Ivory (3.0Y 7.8/1.1)
	Surface treatment	Acrylic resin coating
	Material	Alloy hot-dip zinc-coated carbon steel sheet (t1.6)
Weight		6.3kg
Mounting bolt (locally prepared)		M10 (or W3/8), length: 48 mm or less extrusion from drain pan's under surface

Dimensions

Unit: inch [mm]

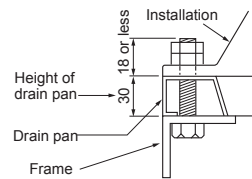
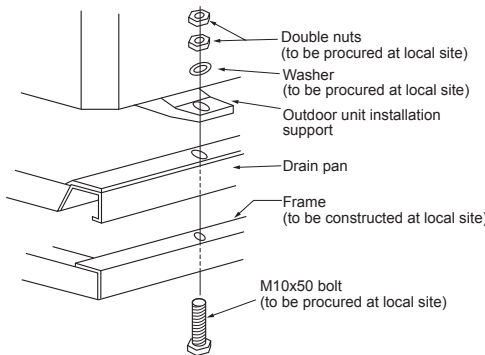
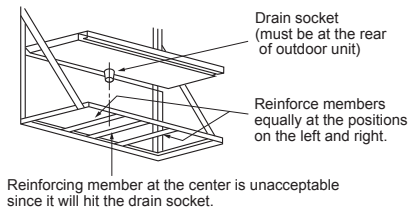
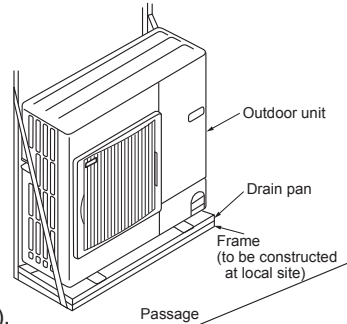


How to Use / How to Install

1 Installation Method

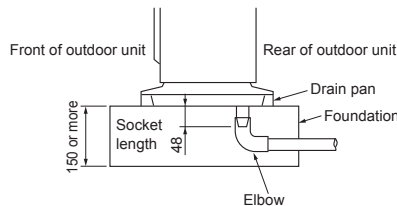
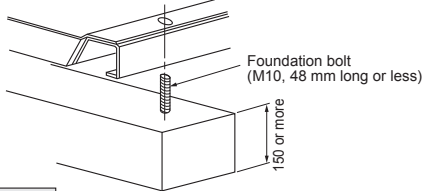
(1) When installing on installation frame

- 1) The installation frame must have structure and strength that can sufficiently support the outdoor unit and drain pan. Securely install the outdoor unit and drain pan so that they cannot fall or drop as a result of earthquake, strong wind, etc.
- 2) The drain socket of drain pan is at the center in the longitudinal direction. When constructing the installation frame, be careful that no part of the frame interferes with the socket.
- 3) The drain pan is tightened with the outdoor unit. Punch approx. $\phi 13$ holes in the installation frame at pitches to install the outdoor unit.
- 4) Fix the frame, drain pan and outdoor unit together to join them firmly (at the 4 points). The bolt length must be no more than 60 mm.



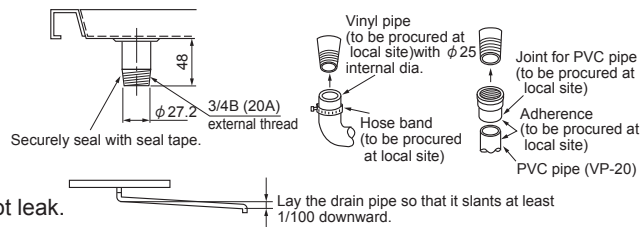
(2) When installing on foundation

- Since concentrated drain disposal is necessary, make the foundation at least 150 mm high measured from the ground as shown in the figure below. If it is less than 150 mm, drain piping will not be possible because the drain socket protrudes 48 mm.



2 Drain Piping

- (1) When connecting steel pipe: Connect 3/4B internally threaded pipe.
- (2) When connecting vinyl pipe (soft): Use a $\phi 25$ mm internal dia. pipe, and fix the connected section with a hose band, etc.
- (3) When connecting PVC pipe (hard): Use VP-20 and connect with a joint for PVC pipe.
 - ※ In all cases, seal the socket threaded section securely with a seal tape, etc., and make sure that water does not leak.



3 Refrigerant Piping ※For PAC-SG64DP-E only

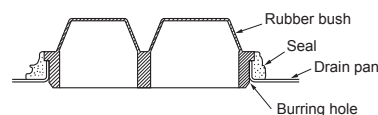
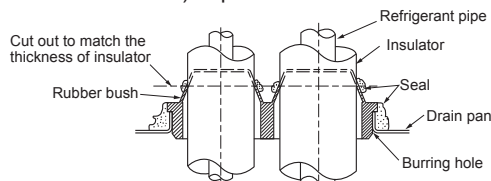
- The refrigerant pipe can be laid in from four directions: front, right, rear and bottom. When laying, be sure to perform the following:

(1) Piping from the bottom:

Cut out the rubber bush to match the thickness of refrigerant pipe insulator. Pass the refrigerant pipe through the rubber bush and fit it into the burring hole. Seal it with adhesive that is equivalent to Cemedyne 366 (to be procured at local site) to prevent water leak.

(2) Piping from other directions:

Block the burring hole of the bottom piping section in the drain pan with rubber bush. Seal it with adhesive that is equivalent to Cemedyne 366 (to be procured at local site) to prevent water leak.





Photo



Descriptions

A drain pan for the drain water generated from the outdoor unit.

Applicable Models

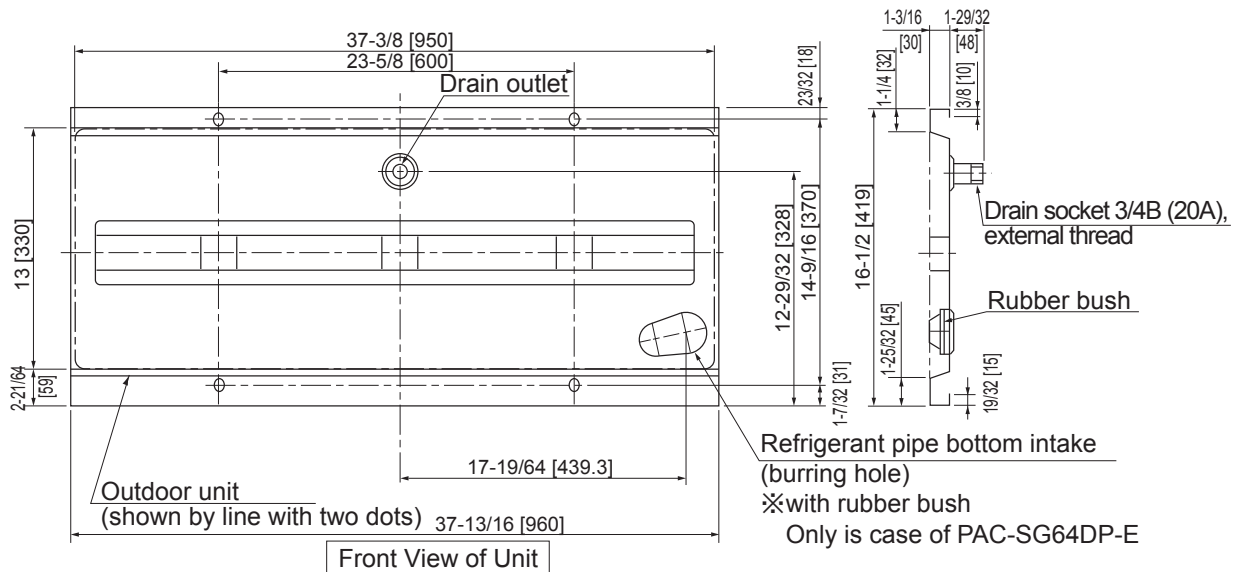
- PUY-A24/30NHA7(-BS)
- PUZ-A24/30NHA7(-BS)
- PUZ-HA30/36NHA5

Specifications

Drain outlet size		R3/4 screw (20A)
Exterior	Color (Munsell)	Ivory (3.0Y 7.8/1.1)
	Surface treatment	Acrylic resin coating
	Material	Alloy hot-dip zinc-coated carbon steel sheet (t1.6)
Weight		7.8kg
Mounting bolt (locally prepared)		M10 (or W3/8), length: 60 mm or less extrusion from drain pan's under surface

Dimensions

Unit: inch [mm]

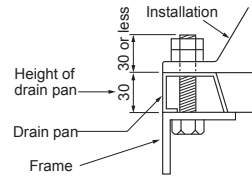
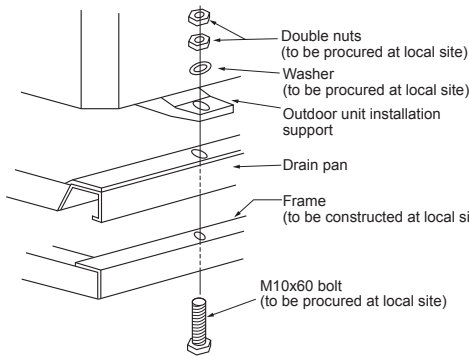
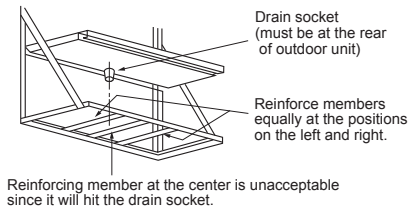
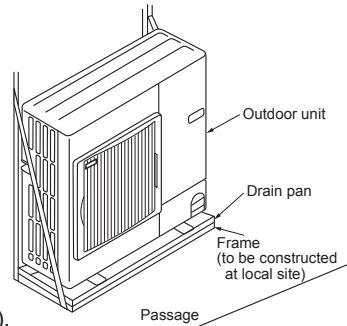


How to Use / How to Install

1 Installation Method

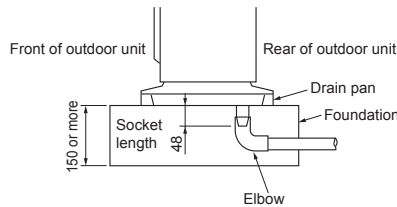
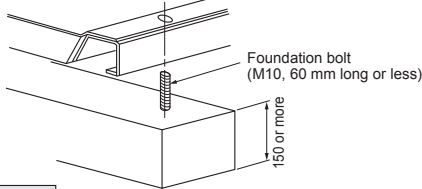
(1) When installing on installation frame

- 1) The installation frame must have structure and strength that can sufficiently support the outdoor unit and drain pan. Securely install the outdoor unit and drain pan so that they cannot fall or drop as a result of earthquake, strong wind, etc.
- 2) The drain socket of drain pan is at the center in the longitudinal direction. When constructing the installation frame, be careful that no part of the frame interferes with the socket.
- 3) The drain pan is tightened with the outdoor unit. Punch approx. $\phi 13$ holes in the installation frame at pitches to install the outdoor unit.
- 4) Fix the frame, drain pan and outdoor unit together to join them firmly (at the 4 points). The bolt length must be no more than 60 mm.



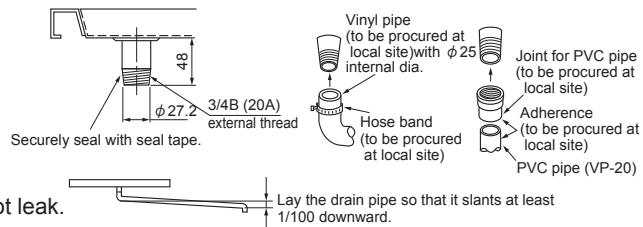
(2) When installing on foundation

- Since concentrated drain disposal is necessary, make the foundation at least 150 mm high measured from the ground as shown in the figure below. If it is less than 150 mm, drain piping will not be possible because the drain socket protrudes 48 mm.



2 Drain Piping

- (1) When connecting steel pipe: Connect 3/4B internally threaded pipe.
- (2) When connecting vinyl pipe (soft): Use a $\phi 25$ mm internal dia. pipe, and fix the connected section with a hose band, etc.
- (3) When connecting PVC pipe (hard): Use VP-20 and connect with a joint for PVC pipe.
 ※ In all cases, seal the socket threaded section securely with a seal tape, etc., and make sure that water does not leak.



3 Refrigerant Piping ※ For PAC-SG64DP-E only

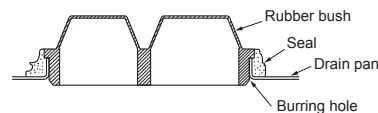
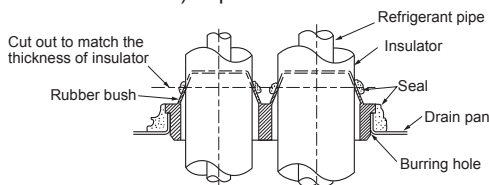
● The refrigerant pipe can be laid in from four directions: front, right, rear and bottom. When laying, be sure to perform the following:

(1) Piping from the bottom:

Cut out the rubber bush to match the thickness of refrigerant pipe insulator. Pass the refrigerant pipe through the rubber bush and fit it into the burring hole. Seal it with adhesive that is equivalent to Cemedyne 366 (to be procured at local site) to prevent water leak.

(2) Piping from other directions:

Block the burring hole of the bottom piping section in the drain pan with rubber bush. Seal it with adhesive that is equivalent to Cemedyne 366 (to be procured at local site) to prevent water leak.





Photo



Descriptions

A drain pan for the drain water generated from the outdoor unit.

Applicable Models

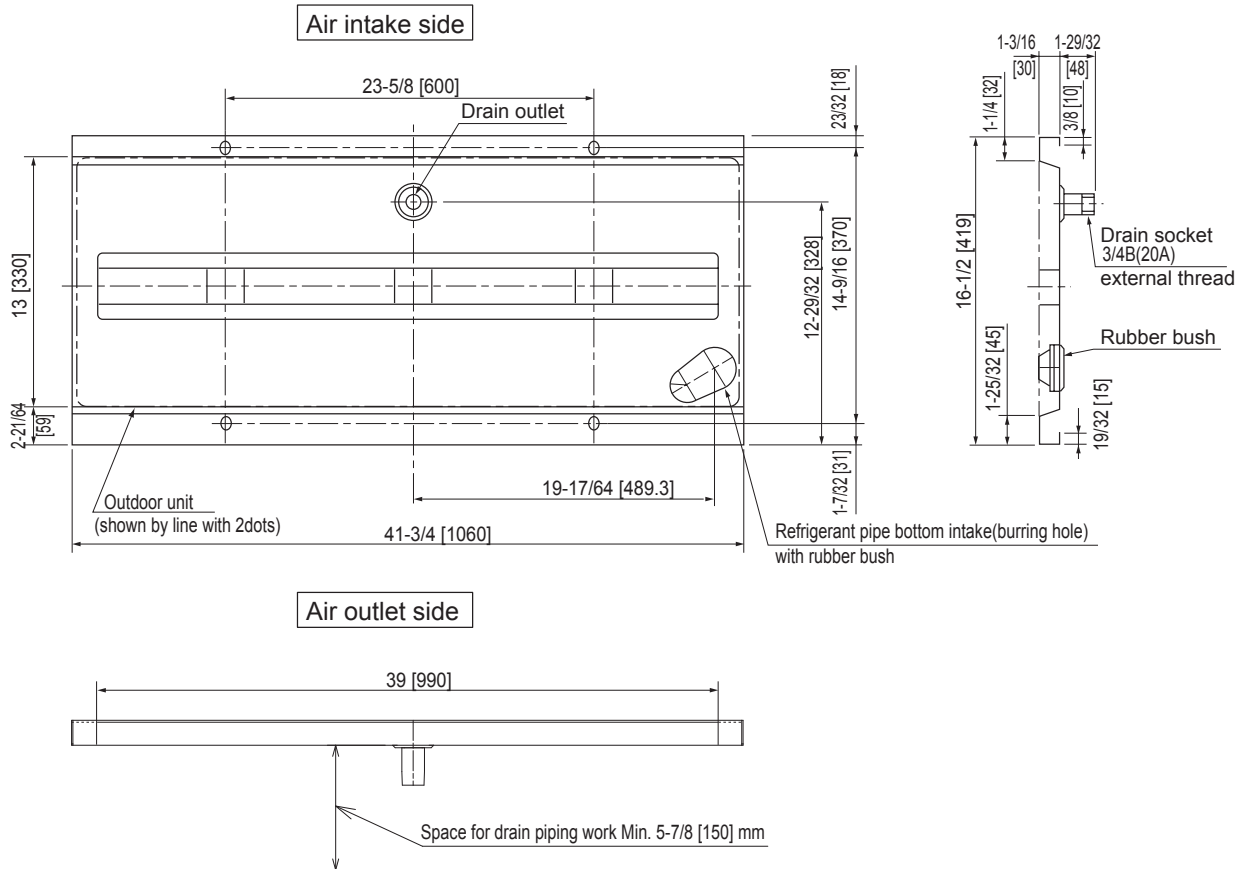
- PUY-A36/42NKA7(-BS)
- PUZ-A36/42NKA7(-BS)
- PUZ-HA42NKA

Specifications

Drain outlet size		R3/4 screw (20A)
Exterior	Color (Munsell)	Ivory (3.0Y 7.8/1.1)
	Surface treatment	Acrylic resin coating
	Material	Alloy hot-dip zinc-coated carbon steel sheet (t1.6)
Weight		8.8kg
Mounting bolt (locally prepared)		M10 (or W3/8), length: 60 mm or less extrusion from drain pan's under surface

Dimensions

Unit: inch [mm]

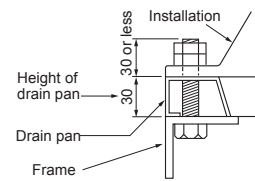
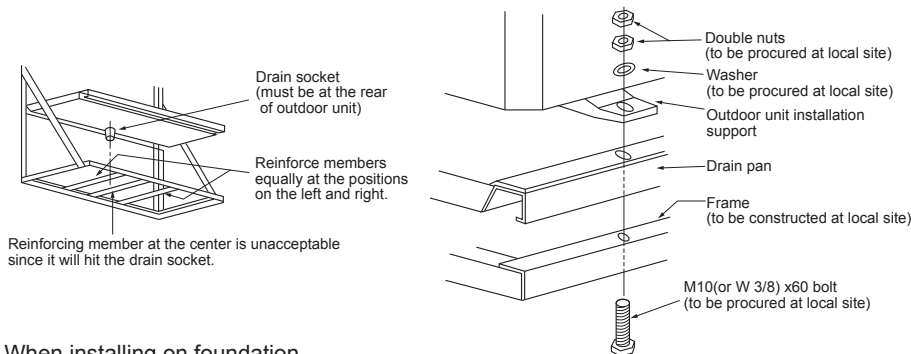
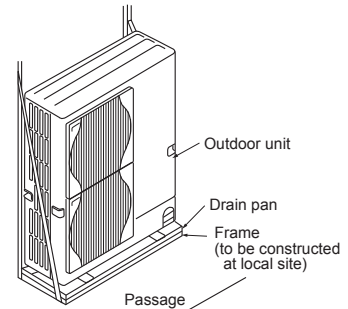


How to Use / How to Install

1 Installation Method

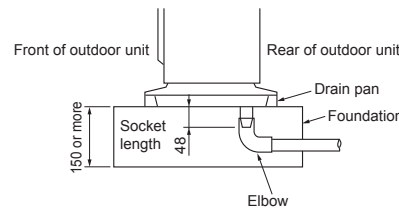
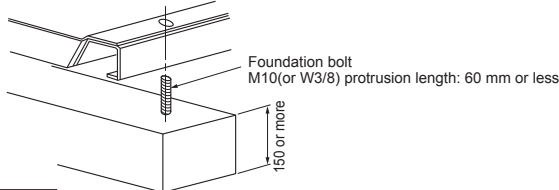
(1) When installing on installation frame

- 1) The installation frame must have structure and strength that can sufficiently support the outdoor unit and drain pan. Securely install the outdoor unit and drain pan so that they cannot fall or drop as a result of earthquake, strong wind, etc.
- 2) The drain socket of drain pan is at the center in the longitudinal direction. When constructing the installation frame, be careful that no part of the frame interferes with the socket.
- 3) The drain pan is tightened with the outdoor unit. Punch approx. $\phi 13$ holes in the installation frame at pitches to install the outdoor unit.
- 4) Fix the frame, drain pan and outdoor unit together to join them firmly (at the 4 points). The bolt length must be no more than 60 mm.



(2) When installing on foundation

- Since concentrated drain disposal is necessary, make the foundation at least 150 mm high measured from the ground as shown in the figure below. If it is less than 150 mm, drain piping will not be possible because the drain socket protrudes 48 mm.



2 Drain Piping

(1) When connecting steel pipe:

Connect 3/4B internally threaded pipe.

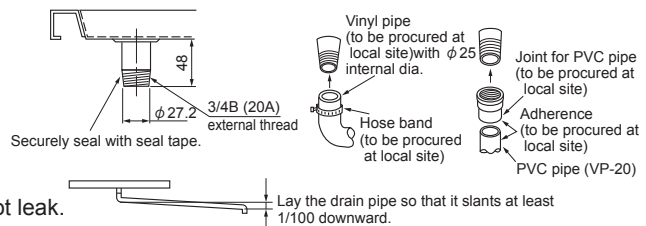
(2) When connecting vinyl pipe (soft):

Use a $\phi 25$ mm internal dia. pipe, and fix the connected section with a hose band, etc.

(3) When connecting PVC pipe (hard):

Use VP-20 and connect with a joint for PVC pipe.

※ In all cases, seal the socket threaded section securely with a seal tape, etc., and make sure that water does not leak.



3 Refrigerant Piping

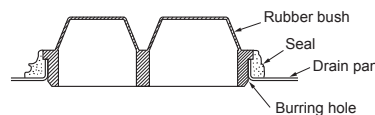
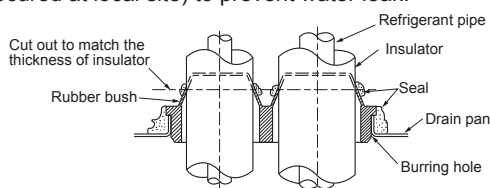
● The refrigerant pipe can be laid in from four directions: front, right, rear and bottom. When laying, be sure to perform the following:

(1) Piping from the bottom:

Cut out the rubber bush to match the thickness of refrigerant pipe insulator. Pass the refrigerant pipe through the rubber bush and fit it into the burring hole. Seal it with adhesive that is equivalent to Cemedyne 366 (to be procured at local site) to prevent water leak.

(2) Piping from other directions:

Block the burring hole of the bottom piping section in the drain pan with rubber bush. Seal it with adhesive that is equivalent to Cemedyne 366 (to be procured at local site) to prevent water leak.





Descriptions

A-control Mr. SLIM models can be connected to "M-NET" through optional M-NET converter so that they can be monitored / controlled effectively and meticulously.

Applicable Models

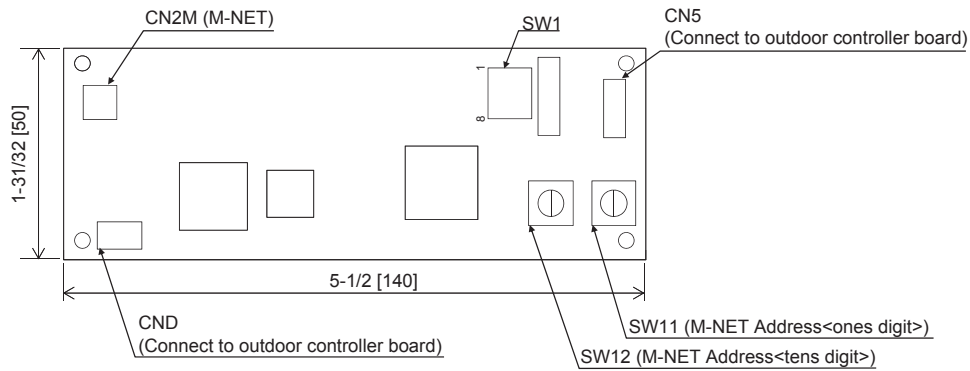
- PUY-A12/18NKA7(-BS)
- PUZ-A12/18NKA7(-BS)

Specifications

Power	Supplied from control board
Power consumption	0.6W (at 5V DC, 12V DC)
Operating conditions	Mounted inside the electrical utility box of outdoor unit. (Temperature: -20 to 60°C , humidity: 90% or less (no condensation))
Weight	0.3kg

Dimensions

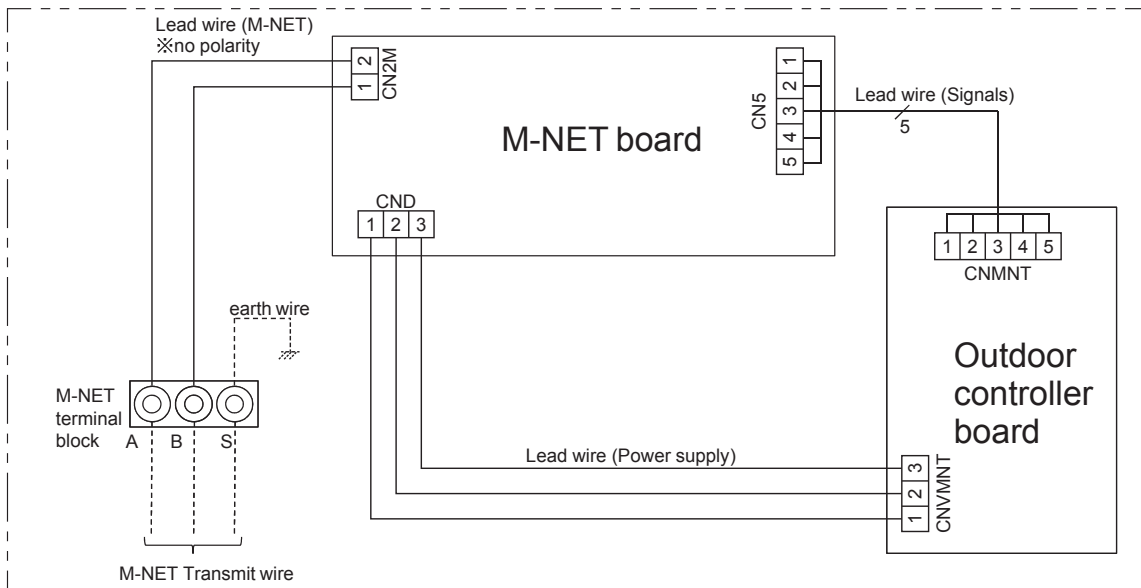
Unit: inch [mm]



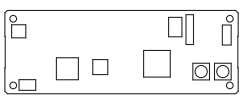

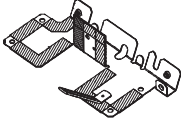
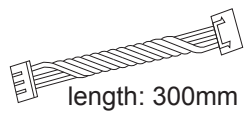

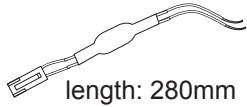
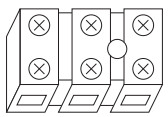


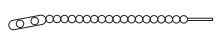
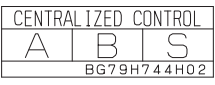
How to Use / How to Install

1. Wiring diagram

The electrical box of outdoor unit.



2. Parts list

No.	Description	Figure	Q'ty	No.	Description	Figure	Q'ty
①	M-NET board (with insulation sheets and supports)		1	⑦	Lead wire (5 wires) for signals	 length: 280mm	1
②	Mounting plate (M-NET board)		1	⑧	Lead wire (3 wires) for power supply	 length: 300mm	1
③	Screw (M4×8)		2	⑨	Lead wire (M-NET)	 length: 280mm	1
④	Terminal block (M-NET)		1	⑩	Earth wire and screw (M4×8)		1 each
⑤	Terminal screw (M3×20)		1	⑪	Cable tie		2
⑥	Label		1				

3. Switch setting

■ M-NET address setting

Make M-NET setting and refrigerant address setting on only outdoor unit.

There is no address settings for outdoor unit and remote controller like City Multi system.







The M-NET address setting for taking into centralized control system should be done only to the outdoor unit.

The address set number should be 1-50 same as for City Multi indoor unit and make set in order of number for the same group.

	A control slim	City Multi (M-NET)
Indoor unit	—	1~50
Outdoor unit	1~50	51~100
Remote controller	—	101~150
System controller	201~250	
Group remote controller	201~250	

The setting should be done by rotary switches SW11 (ones digit) and SW12 (tens digit) on M-NET board of the outdoor unit. (Factory settings are all zero.)

[Example]

M-NET address No.		1	2	50
Switch setting	SW11 (ones digit)			
	SW12 (tens digit)			



Descriptions

A-control Mr. SLIM models can be connected to "M-NET" through optional M-NET converter so that they can be monitored / controlled effectively and meticulously.

Applicable Models

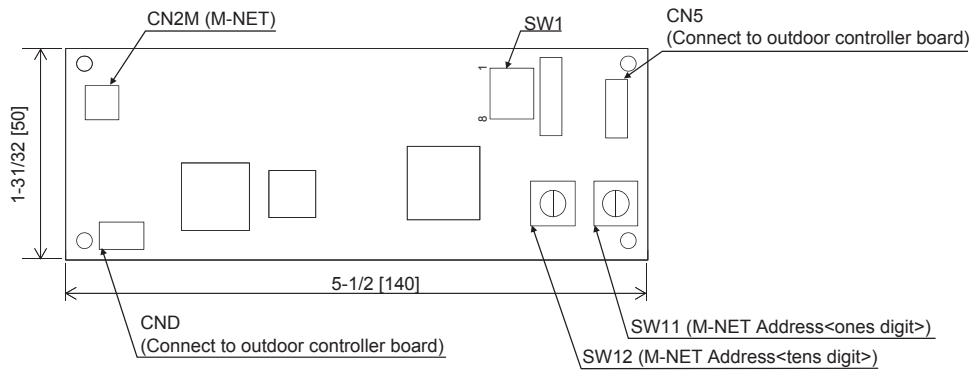
- PUY-A24/30NHA7(-BS)
- PUY-A36/42NKA7(-BS)
- PUY-HA30/36NHA5
- PUZ-A24/30NHA7(-BS)
- PUZ-A36/42NKA7(-BS)
- PUZ-HA42NKA

Specifications

Power	Supplied from control board
Power consumption	0.6W (at 5V DC, 12V DC)
Operating conditions	Mounted inside the electrical utility box of outdoor unit. (Temperature: -20 to 60°C, humidity: 90% or less (no condensation))
Weight	0.3kg

Dimensions

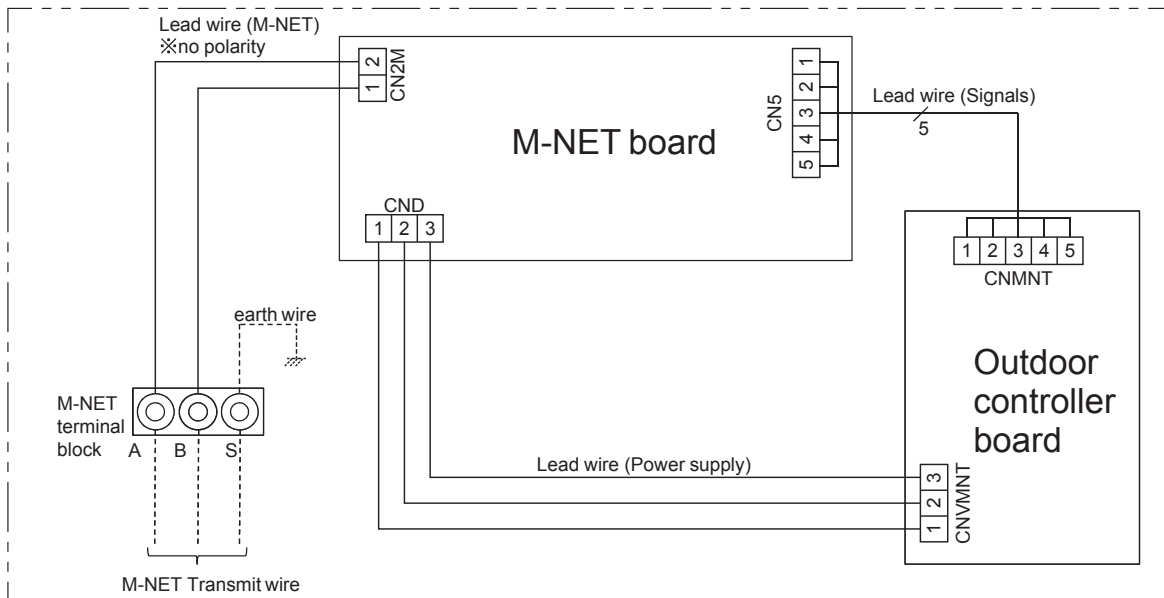
Unit: inch [mm]



How to Use / How to Install

1. Wiring diagram

The electrical box of outdoor unit.



M-NET Converter PAC-SF83MA-E

2. Parts List

No	Description	Figure	Q'ty	No	Description	Figure	Q'ty
①	M-NET board (with insulation sheets and supports)		1	⑨	Lead wire-A (5 wires)		1
②	Plate (For mounting circuit board)		1	⑩	Lead wire-B (5 wires)		1
③	Insulation sheets S, M, L		S	1	⑪	Lead wire-C (3 wires)	
			M	1			
			L	1			
④	Terminal base		1	⑫	Lead wire-D (2 wires)		1
⑤	Screw (M4×8)		2	⑬	Ground wire and screw (M4×8)		1each
⑥	Terminal block (M-NET)		1	⑭	Pull tight		2
⑦	Terminal screw (M3x20)		1	⑮	Plate 2 (For mounting circuit board)		1
⑧	Label		1	⑯	Plate 3 (For mounting circuit board)		1

3. Switch setting

■ M-NET address setting

Make M-NET setting and refrigerant address setting on only outdoor unit.

There is no address settings for outdoor unit and remote controller like City Multi system.

The M-NET address setting for taking into centralized control system should be done only to the outdoor unit.

The address set number should be 1-50 same as for City Multi indoor unit and make set in order of number for the same group.

	A control slim	City Multi (M-NET)
Indoor unit	—	1~50
Outdoor unit	1~50	51~100
Remote controller	—	101~150
System controller	201~250	
Group remote controller	201~250	

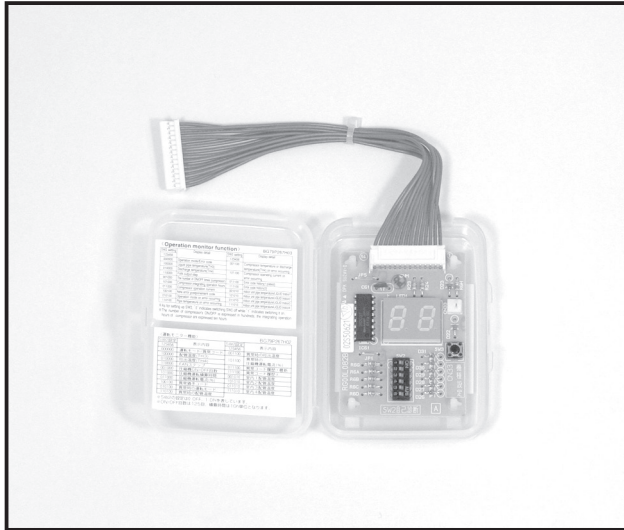
The setting should be done by rotary switches SW11 (ones digit) and SW12 (tens digit) on M-NET board of the outdoor unit. (Factory settings are all zero.)

[Example]

M-NET address No.		1	2	~	50
Switch setting	SW11 (ones digit)			~	
	SW12 (tens digit)				



Photo



Descriptions

This item is used to display operation and self-diagnosis state.

Applicable Models

- PUY-A12/18/36/42NKA7(-BS)
- PUY-A24/30NHA7(-BS)
- PUZ-A12/18/36/42NKA7(-BS)
- PUZ-A24/30NHA7(-BS)
- PUZ-HA30/36NHA5
- PUZ-HA42NKA

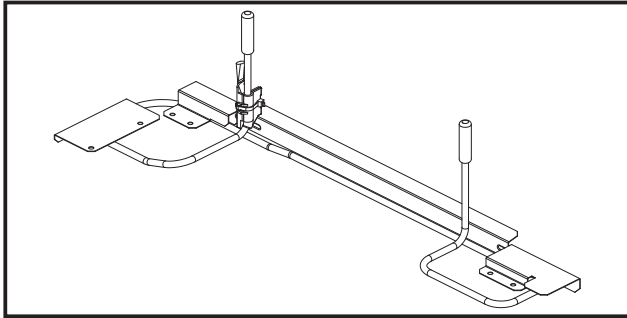
Specifications

Power	5V DC (supplied from outdoor unit control board)
Temperature	-20 to 60°C, Humidity: 90% RH or less (no condensation)
External dimensions	69 (W) x 91 (H) x 27 (D) (mm), excluding lead wires
Weight	0.05kg

How to Use / How to Install

- Notes on Use
 - Before installing / removing a control / service tool, make sure that the main power to this unit is turned OFF.
 - The connector for control / service tool has a lock. Connection / removal of the connector must be done with the locking lever pressed.
- How to Use
 1. Connect the control / service tool connector to the [CNM] connector on the outdoor unit control board.
 2. Operating the control / service tool's DIP switch "SW2" causes "LED1" to display the operation state and inspection code description using 2-digit value and symbols. "SW2" setting varies with the unit to be connected. For details of the display content, refer to the appropriate service handbook.
 3. After the control / service tool has been used, remove it from the outdoor unit control board.

Figure



Descriptions

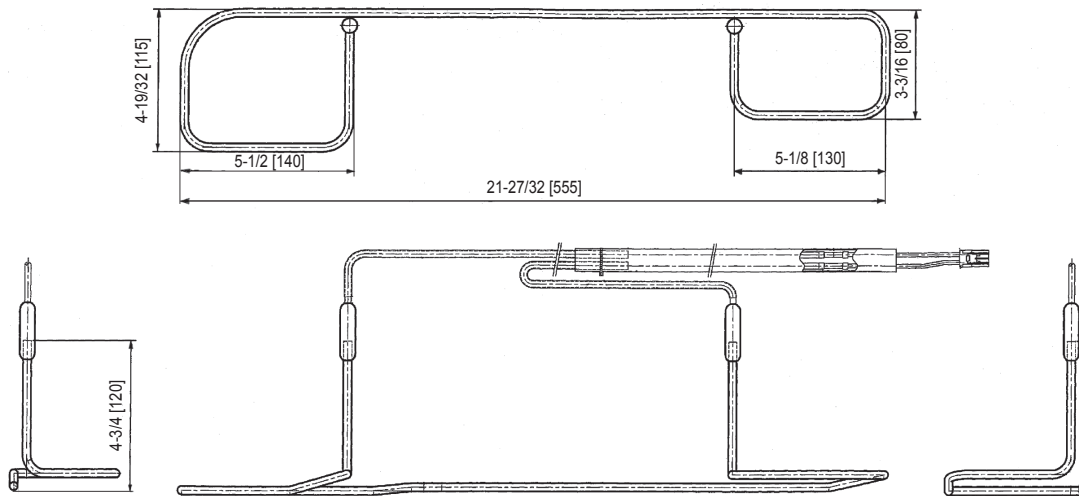
- This product is designed for prevention of ice on the bottom of the outdoor unit heat exchanger and the clogged drain hole caused by freezing in severe winter.
- To drain properly, a drain socket and a concentrated drain pan are not allowed to be used with this product.

Applicable Models

- MXZ-8C48NA
- PUZ-HA42NKA

Dimensions

Unit: inch [mm]



Specifications

Components

This package includes the following parts besides this installation sheet.

① base heater	1	② heater supports	2	③ screws 4×10	8	④ cable tie	2	⑤ fasteners	2
⑥ spec label	1	⑦ base heater cover(1) *	1	⑧ base heater cover(2) *	1	* Used solely with the outdoor unit mounted with a two-row heat exchanger.			

How to Use / How to Install

1 Preparation

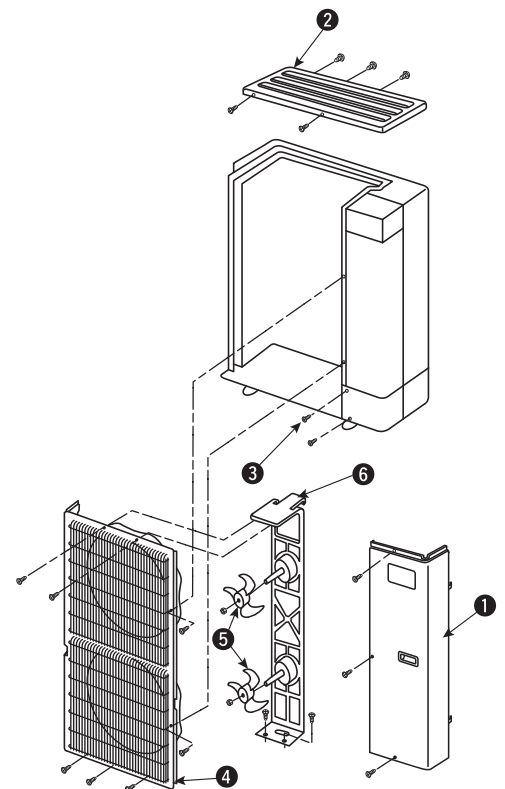
It is easier to mount the base heater before installing the outdoor unit.

- Make sure that the main power supply to the unit is OFF.
- Do not lose the removed screws. Many screws will be removed to install the base heater.
- Eliminate dust, dirt, etc.

2 Preparation for mounting the base heater

Before mounting the base heater, follow the procedures below to remove some parts from the outdoor unit.

- ➊ Removal of service panel
Remove 3 screws on the front. Slide the service panel downward to remove it.
- ➋ Removal of top panel
Remove 2 screws on the front and 3 screws on the back. Lift the top panel up to remove it.
- ➌ Removal of screws for cover panel
Remove 2 screws for the cover panel.
- ➍ Removal of front panel
Remove 7 screws on the front. Slide the front panel upward, and pull it toward you.
- ➎ Removal of fan
Remove the mounting screws for the fan. Pull the fan toward you to remove it.
- ➏ Removal of motor support
Disconnect the connector of the fan motor, and remove 2 mounting screws for the motor support. Slightly pull the motor support toward you and lift it up to remove it.

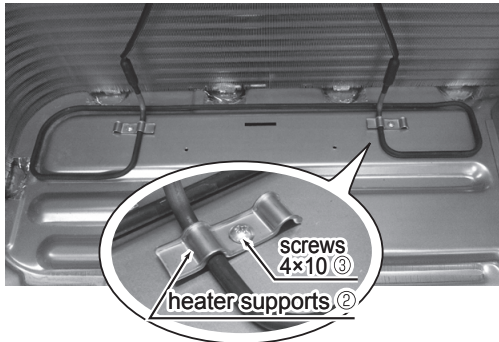
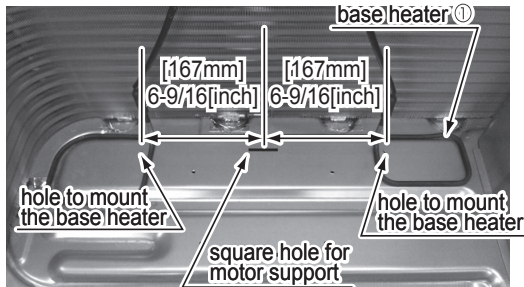


3 Mounting the base heater

- Temporarily place the base heater ① on the base so that the square hole for the motor support on the base comes to the center of the base heater ①.
(See photo below.)



- Fix the base heater ① with the heater supports ② and the screws 4×10 ③.

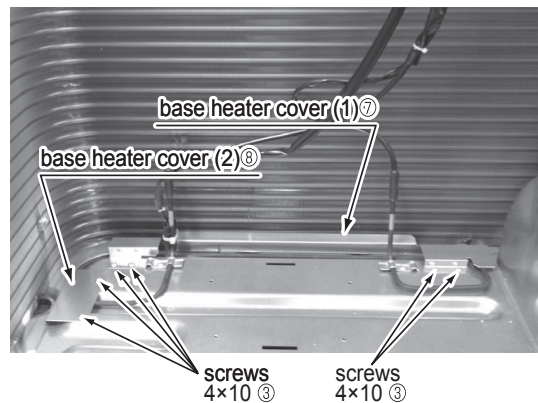


4 Mounting the base heater cover

Place the base heater covers ⑦, ⑧ as shown in the right photo.

Fix them with the screws 4×10 ③.

- Make sure to install the base heater covers ⑦, ⑧ in the outdoor unit mounted with a two-row heat exchanger. The base heater covers ⑦, ⑧ cannot be installed in the outdoor unit mounted with a three-row heat exchanger.



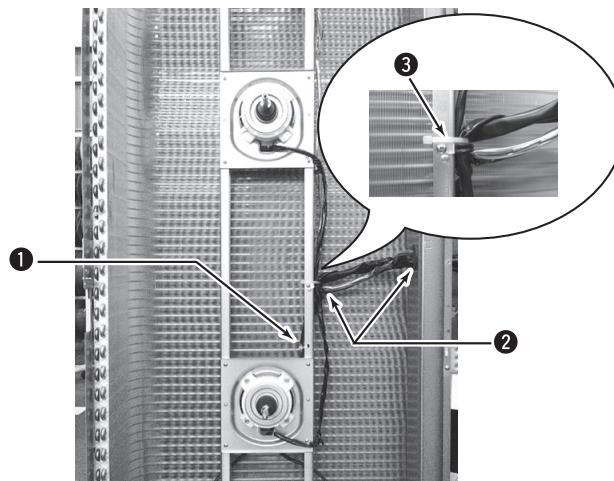
5 Mounting the base heater support

Mount the motor support.

- Make sure that the lead wire is not caught between the bottom of the motor support and the base.

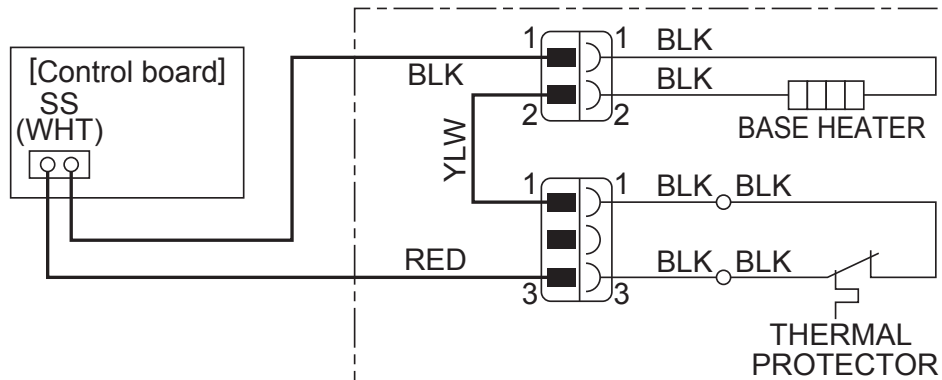
6 Securing the lead wires

- Fix the lead wires of the base heater to the motor support with a cable tie ④ at the position shown in the picture.
 - Bundle the lead wires of the base heater and the fan motor together with clamps.
 - Fix the lead wires with a cable tie ④.
 - Pass the lead wires through the circular hole on the separator toward the electrical box.
- Secure the lead wires so they will not interfere with the propeller fan.



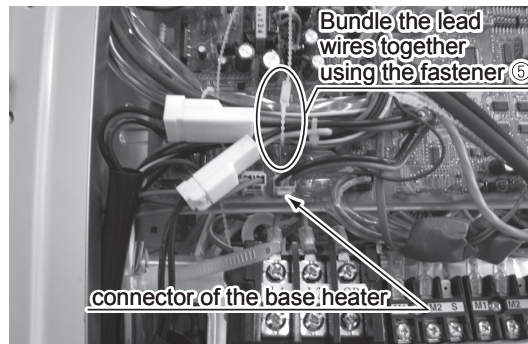
Wiring diagram

Connect the lead wires according to the following wiring diagram.



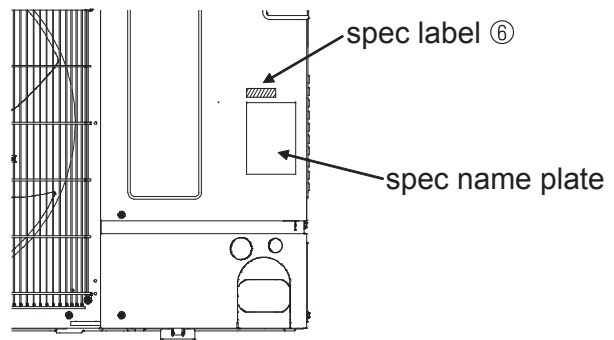
7 Securing the lead wires

After connecting the lead wires, bundle the extra lead wires together and secure them with the fastener ⑤.



8 Attaching the spec label

Attach the spec label ⑥ above the spec name plate on the service panel.



9 Reinstallation

Make sure that the installation of the base heater and connections of the lead wires have been completed according to this installation sheet. Install the removed parts in the reverse order of removal.

- Tighten the propeller fan with a torque of $5.7 \pm 0.3 \text{ N} \cdot \text{m}$ [$4.2 \pm 0.2 \text{ ft} \cdot \text{lbs}$] ($57 \pm 3 \text{ kgf} \cdot \text{cm}$).
- Rotate the propeller fan and make sure that the base heater and the lead wires do not interfere with the movement of propeller fan.

! WARNING

Mount the outer panels securely. Incomplete installation may result in electric shock and fire caused by dust, water, etc.

Mr. SLIM

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