

**Model: AKA9462EXD**
**Product Description**

**Type:** Reciprocating Compressors  
**Application:** CBP - Commercial Back Pressure  
**Refrigerant:** R-22  
**Voltage/Frequency:** 208-230V ~ 60Hz 200V ~ 50Hz  
**Version:** N/A


**Product Specifications**
**Performance**

Condition	Test Voltage	Refrigeration Capacity			Input Power (I) W	(E) Efficiency			EVAP TEMP	Condition	AMBIENT TEMP	RETURN GAS	LIQUID TEMP
		(R) Btu/h	(R) kcal/h	(R) W		(E) Btu/Wh	(E) kcal/Wh	W/W					
ASHRAE (R-22)	230V ~ 60HZ	6200	1562	1817	1100	5.64	1.42	1.65	-6.7°C (20°F)	54°C (130°F)	35°C (95°F)	35°C (95°F)	46°C (115°F)

**General**

**Evaporating Temp. Range:** -17.8°C to 10°C (0°F to 50°F)  
**Motor Torque:** High Start Torque (HST)  
**Compressor Cooling:** Fan

**Mechanical**

**Weight:** 44  
**Weight Unit of Measure:** LB  
**Displacement (cc):** 20.436  
**Oil Type:** Polyolester  
**Viscosity (cSt):** 32  
**Oil Charge (cc):** 453

**Electrical**

**Voltage Range (50 Hz):** 180-220  
**Voltage Range (60 Hz):** 187-254  
**Locked Rotor Amps (LRA):** 31  
**Rated Load Amps (RLA 50 Hz):** 0  
**Rated Load Amps (RLA 60 Hz):** 5.3  
**Max. Continuous Current (MCC in Amps):** 8.91  
**Motor Resistance (Ohm) - Main:** 1.77

Motor Resistance (Ohm) - Start:  
Motor Type:

10.43  
CSR

Overload Type:

Relay Type:

## Agency Approval

cURus Recognized

**AKA9462EXD**
**General**

Model	AKA9462EXD	Unit of Measure	Fahrenheit
Condition	ASHRAE	Voltage/Frequency	230V~60HZ
RETURN GAS	4.4°C (40°F) RETURN GAS	MotorType	CSR

**Performance Information**

EVAP TEMP (°F)	Condensing Temperature (°F)				
		100	110	120	130
0	Btu/h	4960			
	Watts	830			
	Amps	4.21			
	Lb/h	65.1			
5	Btu/h	5740	5320		
	Watts	843	889		
	Amps	4.31	4.47		
	Lb/h	75.5	73.1		
10	Btu/h	6450	5970	5360	
	Watts	884	923	958	
	Amps	4.43	4.59	4.71	
	Lb/h	85.3	82.2	77.2	
15	Btu/h	7230	6690	6000	5450
	Watts	930	970	1010	1040
	Amps	4.56	4.73	4.88	5.01
	Lb/h	95.9	92.5	86.7	82.6
20	Btu/h	8190	7600	6840	6200
	Watts	960	1010	1060	1100
	Amps	4.71	4.91	5.11	5.30
	Lb/h	109	106	99.3	94.4

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	-5.670905E+04	9.269107E+02	4.253172E-01	-8.464723E+02
C2	1.141948E+02	6.619130E+01	2.656911E-01	1.092294E+00
C3	1.713365E+03	-1.779277E+01	4.033336E-02	2.461490E+01
C4	-5.536304E+00	-3.750988E-01	-3.218268E-03	-9.393870E-02
C5	2.564036E+00	-9.915569E-01	-4.167446E-03	4.023293E-02
C6	-1.555987E+01	2.645878E-01	1.148195E-04	-2.192686E-01
C7	1.651526E-01	-2.917178E-02	6.482372E-06	2.231110E-03
C8	1.818042E-02	1.359177E-02	3.323953E-05	4.551951E-04
C9	-2.004469E-02	3.143976E-03	1.713896E-05	-2.836527E-04
C10	4.592921E-02	-9.636707E-04	-1.398973E-06	6.427418E-04

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature  
Tc = Condensing Temperature

