

# ARE42C5E-IAA

HFC, R-134a, 60 Hz, 1 -Phase, 115/127 V  
High Temp



**Production Status:** Available for sale to all U.S. customers. Please check with your local Emerson Climate Technologies Representative for international availability.

## Performance

Evaporator Temp. (°F)	45	20
Condensing Temp. (°F)	130	120
Return Gas Temp. (°F)	65	65
Liquid Temp. (°F)	130	120
Capacity (Btu/hr)	4580	2770
Power (W):	621	436
Current (Amps):	6.70	5.40
EER (Btu/Wh):	7.40	6.30
Mass Flow (lbs/hr):	73	41
<u>Sound Data @</u>		
Sound Power (dBA):	0 Avg	0 Max
Vibration mils(peak-peak):	0.0 Avg	0.0 Max
Record Date:	2017-01-16	

## Mechanical

Displacment(in <sup>3</sup> /Rev):	0.74
Displacment(ft <sup>3</sup> /hr):	89.90
Overall Length (in):	10.50
Overall Width (in):	6.40
Overall Height (in):	7.87
Mounting Length (in):	6.50
Mounting Width (in):	4.00
Mounting Height (in):	8.25 *
Suction Size (in),Type:	5/16 Stub
Discharge Size (in),Type:	1/4 Stub
Initial Oil Charge (oz):	12
Oil Recharge (oz):	10
Net Weight (lbs):	23.0
Internal Free Volume (in <sup>3</sup> ):	
Horse Power:	
*Overall compressor height on Copeland Brand Product's specified mounting grommets.	

## Electrical

LRA-High*(Amp):	40.0
LRA Low* (Amp):	
LRA-Half Winding (Amp):	
MCC (Amps):	10.9
Max Operating Current(Amp):	
RLA, MCC/1.4;use for contactor selection (Amp):	7.8
RLA, MCC/1.56;use for breaker & wire size selection (Amp):	7.0
RPM:	
UL File No:	SA-2337
UL File Date:	1971-10-12
*Low and High refer to the low and high nominal voltage ranges for which the motor is approved.	

## Capacitors

Type	Part No	Low MFD	High MFD	Volts	User Description
Start Capacitor	014-0053-45	243.0	292.0	250	

## Alternate Applications

Refrigerant	Voltage	Phase	Freq (Hz)	Application
R-450A HFO	115/127	1	60	High Temp
R-513A HFO	115/127	1	60	High Temp
R-513A HFO	115/127	1	60	High Temp