

# ZRD81KCE-TFD

HFC, R-407C, 60Hz, 3- Phase, 460 V

Air Conditioning



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

## Performance

Evap(°F)/Cond(°F)	45 / 130	45 / 100
RG(°F)/Liq(°F)	65.0 / 115.0	65.0 / 85.0
Capacity (Btu/hr)	78000	94000
Power (Watts):	7700	5650
Current (Amps):	12.20	9.60
EER (Btu/Wh):	10.20	16.70
Mass Flow (lbs/hr):	1130	1170
Sound Power (dBA):	78 Avg	83 Max
Vibration (mils(peak-peak)):	2.0 Avg	3.0 Max
Record Date:	2010-12-23	

## Mechanical

Number of Cylinders:	0	Displ(in <sup>3</sup> /Rev):	6.58
Bore Size(in):	0.00	Displ(ft <sup>3</sup> /hr):	799.29
Stroke(in):	0.00		
Overall Length (in):	9.69	Mounting Length (in):	7.50
Overall Width (in):	9.69	Mounting Width (in):	7.50
Overall Height (in):	19.46	Mounting Height (in):	19.71 *
Suction Size (in):		7/8 Stub	
Discharge Size (in):		3/4 Stub	
Oil Recharge (oz):		60	
Initial Oil Charge (oz):		64	
Net Weight (lbs):		90	
Internal Free Volume (in <sup>3</sup> ):			
Horse Power:			
*Overall compressor height on Copeland Brand Product's specified mounting grommets.			

## Electrical

LRA-High*:	100.0	MCC (Amps):	17.0	UL File No:
LRA-Half Winding:		RPM:	3500	UL File Date:
LRA Low*:		Max Operating Current:	15.0	
RLA(=MCC/1.4;use for contactor selection):		12.1		
RLA(=MCC/1.56;use for breaker & wire size selection):		10.9		
*Low and High refer to the low and high nominal voltage ranges for which the motor is approved.				

## Alternate Applications

Refrigerant	Freq (Hz)	Phase	Voltage	Application
R-407C HFC	50	3	380/420	Air Conditioning
R-407C HFC	60	3	460	A/C, 50% Load Of Compressor
R-407C HFC	50	3	380/420	A/C, 50% Load Of Compressor