

# ZP31K5E-TFD

HFC, R-410A, 60 Hz, 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	50 / 100
RG(°F)/Liq(°F)	65.0 / 115.0	70.0 / 85.0
Capacity (Btu/hr)	31200	42600
Power (Watts):	3060	2000
Current (Amps):	4.60	3.50
EER (Btu/Wh):	10.20	21.30
Mass Flow (lbs/hr):	459	525
Sound Data @ 45 / 130		
Sound Power (dBA):	69 Avg	74 Max
Vibration (mils(peak-peak)):	2.0 Avg	3.0 Max
Record Date:	2015-10-06	

## Mechanical

Number of Cylinders:	0	Displ(in <sup>3</sup> /Rev):	1.80
Bore Size(in):	0.00	Displ(ft <sup>3</sup> /hr):	218.75
Stroke(in):	0.00		
Overall Length (in):	9.56	Mounting Length (in):	7.50
Overall Width (in):	9.56	Mounting Width (in):	7.50
Overall Height (in):	15.27	Mounting Height (in):	16.02 *
Suction Size (in):		3/4 Stub	
Discharge Size (in):		1/2 Stub	
Oil Recharge (oz):		21	
Initial Oil Charge (oz):		25	
Net Weight (lbs):		48.4	
Internal Free Volume (in <sup>3</sup> ):		124.5	
Horse Power:			
*Overall compressor height on Copeland Brand Product's specified mounting grommets.			

## Electrical

LRA-High*:	38.0	MCC (Amps):	9.0	UL File No:	SA-2337
LRA-Half Winding:		RPM:	3500	UL File Date:	16-Dec-2003
LRA Low*:		Max Operating Current:	6.5		
RLA(=MCC/1.4;use for contactor selection):		6.4			
RLA(=MCC/1.56;use for breaker & wire size selection):		5.8			
*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-410A HFC	50	3	380/420	Air Conditioning