

ZP83KWE-PFV

HFC, R-410A, 60 Hz, 1 -phase, 208/230 V
Pool Heater



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)	82500	102000
Power (Watts):	7800	5500
Current (Amps):	35.30	25.30
EER (Btu/Wh):	10.60	18.40
Mass Flow (lbs/hr):	1220	1260
Sound Data @		
Sound Power (dBA):	74 Avg	79 Max
Vibration (mils(peak-peak)):	2.0 Avg	3.0 Max
Record Date:	2006-11-30	

Mechanical

Number of Cylinders:	0	Displ(in ³ /Rev):	4.86
Bore Size(in):	0.00	Displ(ft ³ /hr):	590.26
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):	17.91	Mounting Height (in):	18.16 *
Suction Size (in):		7/8 Stub	
Discharge Size (in):		1/2 Stub	
Oil Recharge (oz):		56	
Initial Oil Charge (oz):		60	
Net Weight (lbs):		100	
Internal Free Volume (in ³):			
Horse Power:			
*Overall compressor height on Copeland Brand Product's specified mounting grommets.			

Electrical

LRA-High*:	185.0	MCC (Amps):	50.0	UL File No:	SA-2337
LRA-Half Winding:		RPM:	3500	UL File Date:	26-Jul-1993
LRA Low*:		Max Operating Current:	40.0		
RLA(=MCC/1.4;use for contactor selection):		35.7			
RLA(=MCC/1.56;use for breaker & wire size selection):		32.1			
*Low and High refer to the low and high nominal voltage ranges for which the motor is approved.					
Type	Part No	Low MFD	High MFD	Volts	User Description
Start Capacitor	014-0053-30	88.0	108.0	330	
Run Capacitor	014-0064-35	80.0	0.0	440	

Alternate Applications

Refrigerant	Freq (Hz)	Phase	Voltage	Application
R-410A HFC	50	1		Pool Heater