

ZF24K4E-TWD

Replacement: ZF25K4E-TFD

HCFC, R-22, 60 Hz, 3- Phase, 460 V

Low Temp, Liquid Injected

Production Status: This compressor and/or application of this compressor is not available to U.S. OEM customers. A field replacement is currently available through a U.S. Emerson Climate Technologies Wholesaler. Please check with your local Emerson Climate Technologies Representative for international availability.

Performance

Evap(°F)/Cond(°F)	-25 / 105	-40 / 105
RG(°F)/Liq(°F)	65.0 / 105.0	65.0 / 105.0
Capacity (Btu/hr)	21800	14900
Power (W):	5400	4960
Current (Amps):	9.90	9.40
EER (Btu/Wh):	4.00	3.00
Mass Flow (lbs/hr):	291	198
Sound Power (dBA):	86 Avg	91 Max
Vibration mils(peak-	2.0 Avg	3.0 Max
Record Date:	2004-07-22	

Mechanical

Number of Cylinders:	0	Displacement(in^3/Rev):	7.32
Bore Size(in):	0.00	Displacement(ft^3/hr):	889.46
Stroke(in):	0.00		
Overall Length (in):	12.44	Mounting Length (in):	8.65
Overall Width (in):	14.50	Mounting Width (in):	8.65
Overall Height (in):	21.34	Mounting Height (in):	22.09 *
Suction Size (in),Type:	1 3/4 Rotalock		
Discharge Size (in),Type:	1 1/4 Rotalock		
Oil Recharge (oz):	137		
Initial Oil Charge (oz):	140		
Net Weight (lbs):	221		
Internal Free Volume (in^3):	1037.0		
Horse Power:	7.5		
*Overall compressor height on Copeland Brand Product's specified mounting grommets.			

Electrical

LRA-High*(Amp):	99.0	MCC (Amps):	16.0	UL File No:	SA-9747
LRA-Half Winding		RPM:	3500	UL File Date:	01-Jan-1900
LRA Low* (Amp):		Max Operating Current	16.1		
RLA, MCC/1.4;use for contactor selection (Amp):	11.4				
RLA, MCC/1.56;use for breaker & wire size selection	10.3				
*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-134a HFC	60	3	460	High Temp
R-134a HFC	60	3	460	Medium Temp, Liquid Injected
R-134a HFC	60	3	460	Low Temp, Liquid Injected
R-134a HFC	50	3	380/420	High Temp
R-134a HFC	50	3	380/420	Medium Temp, Liquid Injected
R-134a HFC	50	3	380/420	Low Temp, Liquid Injected
R-404A HFC	60	3	460	Medium Temp, Liquid Injected
R-404A HFC	60	3	460	Low Temp, Low Condensing
R-404A HFC	50	3	380/420	Medium Temp, Liquid Injected
R-404A HFC	50	3	380/420	Low Temp, Low Condensing

Alternate Applications

<u>Refrigerant</u>	<u>Freq (Hz)</u>	<u>Phase</u>	<u>Voltage</u>	<u>Application</u>
R-404A HFC	50	3	380/420	Low Temp, Liquid Injected
R-404A HFC	60	3	460	Low Temp, Liquid Injected
R-507 HFC	60	3	460	Medium Temp, Liquid Injected
R-507 HFC	60	3	460	Low Temp, Low Condensing
R-507 HFC	50	3	380/420	Medium Temp, Liquid Injected
R-507 HFC	50	3	380/420	Low Temp, Low Condensing
R-507 HFC	50	3	380/420	Low Temp, Liquid Injected
R-507 HFC	60	3	460	Low Temp, Liquid Injected
R-22 HCFC	60	3	460	Medium Temp, Liquid Injected
R-22 HCFC	50	3	380/420	Medium Temp, Liquid Injected
R-22 HCFC	50	3	380/420	Low Temp, Liquid Injected