

# ZF33K4E-TWD

Replacement: ZF34K5E-TFD



HFC, R-404A, 50Hz, 3- Phase, 380/420 V  
Low Temp, Low Condensing

**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 / 50	-40 / 50
RG(°F)/Liq(°F)	65.0 / 50.0	65.0 / 50.0
Capacity (Btu/hr)	38100	26000
Power (Watts):	3830	3490
Current (Amps):	10.60	10.30
EER (Btu/Wh):	10.00	7.50
Mass Flow (lbs/hr):	500	341
Sound Power (dBA):	83 Avg	88 Max
Vibration (mils(peak-peak)):	2.0 Avg	3.0 Max
Record Date:	2006-08-10	

## Mechanical

Number of Cylinders:	0	Displ(in <sup>3</sup> /Rev):	10.10
Bore Size(in):	0.00	Displ(ft <sup>3</sup> /hr):	1016.51
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):	1 3/4 Rotalock		
Discharge Size (in):	1 1/4 Rotalock		
Oil Recharge (oz):	137		
Initial Oil Charge (oz):	140		
Net Weight (lbs):	221		
Internal Free Volume (in <sup>3</sup> ):	1037.0		
Horse Power:	10		
*Overall compressor height on Copeland Brand Product's specified mounting grommets.			

## Electrical

LRA-High*:	127.0	MCC (Amps):	27.0	UL File No:	SA-9747
LRA-Half Winding:		RPM:	2900	UL File Date:	12-Jul-1994
LRA Low*:		Max Operating Current:	22.3		
RLA(=MCC/1.4;use for contactor selection):	19.3				
RLA(=MCC/1.56;use for breaker & wire size selection):	17.3				
*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	50	3	380/420	Low Temp, Liquid Injected
R-134a HFC	60	3	460	Low Temp, Liquid Injected
R-22 HCFC	50	3	380/420	Low Temp, Liquid Injected
R-404A HFC	50	3	380/420	Low Temp, Liquid Injected
R-507 HFC	50	3	380/420	Low Temp, Liquid Injected
R-22 HCFC	60	3	460	Low Temp, Liquid Injected
R-404A HFC	60	3	460	Low Temp, Liquid Injected
R-507 HFC	60	3	460	Low Temp, Liquid Injected
R-507 HFC	50	3	380/420	Low Temp, Low Condensing
R-134a HFC	50	3	380/420	Medium Temp, Liquid Injected

## Alternate Applications

<u>Refrigerant</u>	<u>Freq (Hz)</u>	<u>Phase</u>	<u>Voltage</u>	<u>Application</u>
R-404A HFC	60	3	460	Low Temp, Low Condensing
R-134a HFC	60	3	460	Medium Temp, Liquid Injected
R-134a HFC	50	3	380/420	High Temp
R-404A HFC	50	3	380/420	Medium Temp, Liquid Injected
R-22 HCFC	50	3	380/420	Medium Temp, Liquid Injected
R-507 HFC	50	3	380/420	Medium Temp, Liquid Injected
R-404A HFC	60	3	460	Medium Temp, Liquid Injected
R-22 HCFC	60	3	460	Medium Temp, Liquid Injected
R-134a HFC	60	3	460	High Temp
R-507 HFC	60	3	460	Medium Temp, Liquid Injected