

# ZF33KVE-TWD

# Replacement: ZF34K5E-TFD

HFC, R-404A, 60 Hz, 3- Phase, 460 V  
Low Temp, Economized

**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)	47700	34800
Power (W):	8300	7650
Current (Amps):	13.80	12.95
EER (Btu/Wh):	5.70	4.50
Mass Flow (lbs/hr):	570	385
Sound Power (dBA):	86 Avg	91 Max
Vibration mils(peak-)	2.0 Avg	3.0 Max
Record Date:	2008-03-03	

## Mechanical

Number of Cylinders:	0	Displacment(in <sup>3</sup> /Rev):	10.10
Bore Size(in):	0.00	Displacment(ft <sup>3</sup> /hr):	1226.83
Stroke(in):	0.00		
Overall Length (in):	12.40	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 <sup>3</sup> ):	1037.0		
Horse Power:	10		
*Overall compressor height on Copeland Brand Product's specified mounting grommets.			

## Electrical

LRA-High*(Amp):	127.0	MCC (Amps):	29.5	UL File No:	SA-9747
LRA-Half Winding		RPM:	3500	UL File Date:	12-Jul-1994
LRA Low* (Amp):		Max Operating Current	21.4		
RLA, MCC/1.4;use for contactor selection (Amp):	21.1				
RLA, MCC/1.56;use for breaker & wire size selection	18.9				
*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-404A HFC	60	3	460	Medium Temp, Economized
R-404A HFC	50	3	380/420	Medium Temp, Economized
R-404A HFC	50	3	380/420	Low Temp, Economized
R-507 HFC	60	3	460	Medium Temp, Economized
R-507 HFC	60	3	460	Low Temp, Economized
R-507 HFC	50	3	380/420	Medium Temp, Economized
R-507 HFC	50	3	380/420	Low Temp, Economized
R-407A HFC	60	3	460	Medium Temp, Economized
R-407A HFC	60	3	460	Low Temp, Economized
R-407A HFC	50	3	380/420	Low Temp, Economized