

ZF48K4E-TWD

HFC, R-404A, 50 Hz, 3 - Phase, 380/420 V . [Also Available with Variable Frequency Drives](#)

**Low Temp, Low Condensing (Scroll)**

**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			Mechanical	
Evaporator Temp. (°C)	-32	-40	Displacement (cm <sup>3</sup> /Rev):	245.81
Condensing Temp. (°C)	10	10	Displacement (m <sup>3</sup> /Hr):	
Return Gas Temp. (°C)	18	18	Overall Length (mm):	320.80
Liquid Temp. (°C)	10	10	Overall Width (mm):	357.12
Capacity (Watts)	16998	11664	Overall Height (mm):	593.34
Power (W):	5950	5550	Mounting Length (mm):	219.71
Current (Amps):	14.85	14.55	Mounting Width (mm):	219.71
EER(BTU/Wh):	16.48	12.23	Mounting Height (mm):	597.66
Mass Flow (lbs/hr):	96.39	65.52	Suction Size (mm),Type:	533.40 / 101.60 Rotalock
Sound Data @			Discharge Size (mm),Type:	330.20 / 101.60 Rotalock
Sound Power (dBA):	83 Avg	88 Max	Initial Oil Charge (ml):	4140.36
Vibration mils(peak-peak):	2.0 Avg	3.0 Max	Oil Recharge (ml):	4051.64
Record Date:	2008-03-06		Net Weight (kg):	106.60
			Internal Free Volume (cm <sup>3</sup> ):	18353.44
			Horse Power:	15.0
			*Overall compressor height on Copeland Brand Product's specified mounting grommets.	

Electrical		Capacitors				
		Type	Part No	Low MFD	High MFD	Volts User Description
LRA High* (Amps):	198.0	No data available in table				
LRA Low*(Amps):						
LRA Half Winding (Amps):						
MCC (Amps):	34					
Max Operating Current (Amps):	28.7					
RLA, MCC/1.4(use for contactor selection)(Amps):	24.3					
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	21.8					
RPM:	2900					
Box IP :	54					
UL File No:	SA-9747					
UL File Date:	1994-07-12					

\*Low and High refer to the low and high nominal voltage ranges for which the motor is approved.



### Rating Conditions

18.3 °C Return Gas  
0 K Subcooling  
35 °C Ambient Air Over

50 Hz Operation

### LOW TEMPERATURE

HFCs Require Use of Polyol Ester  
Lubricant Approved on Form 93-11

### ZF48K4E-TWD

HFC-404A  
COPELAND SCROLL®  
TWD 380/420-3-50

Condensing Temperature °C  
(Sat. Dew Pt. Pressure, bar)

Evaporating Temperature °C (Sat. Dew Pt. Pressure, bar)

C	13,950	17,200	21,200			
P	3,940	4,210	4,580			
A	13.3	13.4	13.7			
M	68	84	104			
E	3.5	4.1	4.6			
%	53.8	50.1	44.2			

C: Capacity (W), P: Power (W), A: Current (Amps), M: Mass Flow (gm/s), E: COP, %: Isentropic Efficiency (%)

Nominal Performance Values (±5%) based on 72 hours run-in. Subject to change without notice. Current @ 400 V