

ZR12M3E-TWD

HFC, R-407C, 60 Hz, 3 - Phase, 460 V [. Also Available with Variable Frequency Drives](#)

Air Conditioning

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. Copeland Wholesaler. Please check with your local Copeland Representative for international availability.

Performance			Mechanical		
Evaporator Temp. (°F)	45.00	45	Displacement (in ³ /Rev):	10.10	
Condensing Temp. (°F)	130.00	100	Displacement (ft ³ /Hr):		
Return Gas Temp. (°F)	65.00	65	Overall Length (in):	12.60	
Liquid Temp. (°F)	115.00	85	Overall Width (in):	14.10	
Capacity (BTU/hr)	122000	146000	Overall Height (in):	21.20	
Power (W):	11100	7600	Mounting Length (in):	8.70	
Current (Amps):	16.5	12.7	Mounting Width (in):	8.70	
EER(BTU/Wh):	11	19.2	Mounting Height (in):	21.40	
Mass Flow (lbs/hr):	1770	1810	Suction Size (in),Type:	1 3 / 8 Stub	
Sound Data @			Discharge Size (in),Type:	7 / 8 Stub	
Sound Power (dBA):	81 Avg	86 Max	Initial Oil Charge (oz):	140	
Vibration mils(peak-peak):	2.5 Avg	3.5 Max	Oil Recharge (oz):	137	
Record Date:	2007-12-04		Oil Type:	3MA	
			Net Weight (lbs):	221.0	
			Internal Free Volume (in ³):	1037.0	
			*Overall compressor height on Copeland Brand Product's specified mounting grommets.		

Electrical		Capacitors					
LRA High* (Amps):	127	Type	Part No	Low MFD	High MFD	Volts	User Description
LRA Low*(Amps):		No data available in table					
LRA Half Winding (Amps):							
MCC (Amps):	31						
Max Operating Current (Amps):	22.00						
RLA, MCC/1.4(use for contactor selection)(Amps):	22.1						
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	19.9						
RPM:	3500						
Box IP :	54						
UL File No:	SA-9747						
UL File Date:	1994-07-12						

European Pressure Equipment Directive (PED):

Fluid Group**:	FG 2
PS Low / High Side (BAR):	22.6 / 32.0
TS Min (°C):	-35 / -35
TS Max (°C):	50 / 150
Volume (L) :	2.1 / 15.5

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

Alternate Applications

Refrigerant	Voltage	Phase	Frequency	Application
R-134a HFC	460	3	60	Air Conditioning
R-134a HFC	380/420	3	50	Air Conditioning
R-22 HCFC	460	3	60	Air Conditioning
R-22 HCFC	380/420	3	50	Air Conditioning
R-407C HFC	380/420	3	50	Air Conditioning