

ZR90K3E-TWC

HFC, R-407C, 60 Hz, 3 - Phase, 208/230 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):	7.32
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)	86500	104000	Overall Height (in):	21.20
Power (W):	8000	5550	Mounting Length (in):	8.70
Current (Amps):	25.6	20.4	Mounting Width (in):	8.70
EER(BTU/Wh):	10.8	18.7	Mounting Height (in):	21.40
Mass Flow (lbs/hr):	1260	1290	Suction Size (in),Type:	1 3 / 8 Stub
Sound Data @			Discharge Size (in),Type:	7 / 8 Stub
Sound Power (dBA):	83 Avg	88 Max	Initial Oil Charge (oz):	140
Vibration mils(peak-peak):	2.5 Avg	3.5 Max	Oil Recharge (oz):	137
Record Date:	2015-05-21		Oil Type:	3MA
			Net Weight (lbs):	207.0
			Internal Free Volume (in^3):	1037.0
			*Overall compressor height on Copeland Brand Product's specified mounting grommets.	

Electrical		Capacitors				
LRA High* (Amps):	189.0	Type	Part No	Low MFD	High MFD	Volts User Description
LRA Low*(Amps):	169.0	No data available in table				
LRA Half Winding (Amps):						
MCC (Amps):	47					
Max Operating Current (Amps):	34.00					
RLA, MCC/1.4(use for contactor selection)(Amps):	33.6					
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	30.1					
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	200	3	50	Air Conditioning
R-134a HFC	208/230	3	60	Air Conditioning
R-22 HCFC	200	3	50	Air Conditioning
R-22 HCFC	208/230	3	60	Air Conditioning
R-407C HFC	200	3	50	Air Conditioning