

# ZR90K3E-TWD

HCFC, R-22, 60Hz, 3- Phase, 460 V  
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. Emerson Climate Technologies Wholesaler. Please check with your local Emerson Climate Technologies Representative for international availability.

## Performance

Evap(°F)/Cond(°F)	45 / 130	45 / 100
RG(°F)/Liq(°F)	65.0 / 115.0	65.0 / 85.0
Capacity (Btu/hr)	89000	104000
Power (Watts):	8000	5700
Current (Amps):	12.50	10.50
EER (Btu/Wh):	11.10	18.30
Mass Flow (lbs/hr):	1300	1340
Sound Power (dBA):	80 Avg	85 Max
Vibration (mils(peak-peak)):	2.5 Avg	3.5 Max
Record Date:	2007-12-04	

## Mechanical

Number of Cylinders:	0	Displ(in <sup>3</sup> /Rev):	7.32
Bore Size(in):	0.00	Displ(ft <sup>3</sup> /hr):	889.46
Stroke(in):	0.00		
Overall Length (in):	12.57	Mounting Length (in):	8.65
Overall Width (in):	14.06	Mounting Width (in):	8.65
Overall Height (in):	21.17	Mounting Height (in):	21.40 *
Suction Size (in):	1 3/8 Stub		
Discharge Size (in):	7/8 Stub		
Oil Recharge (oz):	137		
Initial Oil Charge (oz):	140		
Net Weight (lbs):	207		
Internal Free Volume (in <sup>3</sup> ):	1037.0		
Horse Power:			
*Overall compressor height on Copeland Brand Product's specified mounting grommets.			

## Electrical

LRA-High*:	99	MCC (Amps):	19.8	UL File No:	SA-9747
LRA-Half Winding:		RPM:	3500	UL File Date:	12-Jul-1994
LRA Low*:		Max Operating Current:	17.0		
RLA(=MCC/1.4;use for contactor selection):			14.1		
RLA(=MCC/1.56;use for breaker & wire size selection):			12.7		
*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	60	3	460	Air Conditioning
R-407C HFC	60	3	460	Air Conditioning
R-22 HCFC	50	3	380/420	Air Conditioning
R-134a HFC	50	3	380/420	Air Conditioning
R-407C HFC	50	3	380/420	Air Conditioning