

# 3RA1-031A-TAD

HCFC, R-22, 60Hz, 3- Phase, 460 V  
Medium Temperature



**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)	20 / 120	0 / 110
RG(°F)/Liq(°F)	65.0 / 120.0	50.0 / 95.0
Capacity (Btu/hr)	25800	16500
Power (Watts):	3830	2870
Current (Amps):	7.20	5.50
EER (Btu/Wh):	6.70	5.80
Mass Flow (lbs/hr):	377	228
Sound Power (dBA):		
Vibration (mils(peak-peak)):		
Record Date:	2006-10-26	

## Mechanical

Number of Cylinders:	2	Displ(in <sup>3</sup> /Rev):	10.34
Bore Size(in):	2.19	Displ(ft <sup>3</sup> /hr):	628.28
Stroke(in):	1.38		
Overall Length (in):	18.00	Mounting Length (in):	11.63
Overall Width (in):	13.00	Mounting Width (in):	11.00
Overall Height (in):	12.78	Mounting Height (in):	13.81 *
Suction Size (in):		1 1/8 Sweat	
Discharge Size (in):		5/8 Flare	
Oil Recharge (oz):		65	
Initial Oil Charge (oz):		70	
Net Weight (lbs):		178	
Internal Free Volume (in <sup>3</sup> ):			
Horse Power:			
*Overall compressor height on Copeland Brand Product's specified mounting grommets.			

## Electrical

LRA-High*:	41.0	MCC (Amps):	8.7	UL File No:	SA-2337
LRA-Half Winding:		RPM:	3500	UL File Date:	10-Sep-1984
LRA Low*:		Max Operating Current:			
RLA(=MCC/1.4;use for contactor selection):		6.2			
RLA(=MCC/1.56;use for breaker & wire size selection):		5.6			
*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-502 CFC	60	3	460	UL Medium Temp
R-22 HCFC	50	3	380/400	Medium Temperature
R-502 CFC	50	3	380/400	Medium Temperature