

# 3DS3F46KE-TFD

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



**Production Status:** Available for sale to all U.S. customers. Please check with your local Emerson Climate Technologies Representative for international availability.

## Performance

Evap(°F)/Cond(°F)	-25 / 105	-40 / 105
RG(°F)/Liq(°F)	65.0 / 105.0	65.0 / 105.0
Capacity (Btu/hr)	37500	21200
Power (Watts):	7450	5950
Current (Amps):	12.20	10.55
EER (Btu/Wh):	5.00	3.60
Mass Flow (lbs/hr):	500	283
Sound Power (dBA):		
Vibration (mils(peak-peak)):		4.82 Max
Record Date:	2007-06-08	

## Mechanical

Number of Cylinders:	3	Displ(in <sup>3</sup> /Rev):	35.01
Bore Size(in):	2.44	Displ(ft <sup>3</sup> /hr):	2127.41
Stroke(in):	2.50		
Overall Length (in):	27.30	Mounting Length (in):	15.00
Overall Width (in):	14.92	Mounting Width (in):	12.00
Overall Height (in):	19.18	Mounting Height (in):	20.93 *
Suction Size (in):		1 3/8 Sweat	
Discharge Size (in):		1 1/8 Sweat	
Oil Recharge (oz):		115	
Initial Oil Charge (oz):		125	
Net Weight (lbs):		385	
Internal Free Volume (in <sup>3</sup> ):			
Horse Power:		7	
*Overall compressor height on Copeland Brand Product's specified mounting grommets.			

## Electrical

LRA-High*:	106.0	MCC (Amps):	22.9	UL File No:	SA-2337
LRA-Half Winding:		RPM:	3500	UL File Date:	26-Jul-1985
LRA Low*:		Max Operating Current:			
RLA(=MCC/1.4;use for contactor selection):		16.4			
RLA(=MCC/1.56;use for breaker & wire size selection):		14.7			
*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-407C HFC	60	3	460	Low Temperature
R-12 CFC	60	3	460	
R-12 CFC	60	3	460	
R-502 CFC	60	3	460	
R-134a HFC	60	3	460	High Temp
R-134a HFC	60	3	460	UL Medium Temp
R-404A HFC	60	3	460	Low Temp, Low Condensing
R-507 HFC	60	3	460	Low Temp, Low Condensing
R-407C HFC	60	3	460	Low Temp, Low Condensing
R-407A HFC	60	3	460	Low Temp, Low Condensing

## Alternate Applications

<u>Refrigerant</u>	<u>Freq (Hz)</u>	<u>Phase</u>	<u>Voltage</u>	<u>Application</u>
R-407F HFC	60	3	460	Low Temp, Low Condensing
R-448A HFO	60	3	460	Low Temp, Low Condensing
R-449A HFO	60	3	460	Low Temp, Low Condensing
R-12 CFC	50	3	380/420	
R-12 CFC	50	3	380/420	
R-22 HCFC	50	3	380/420	Low Temperature
R-502 CFC	50	3	380/420	
R-134a HFC	50	3	380/420	High Temp
R-134a HFC	50	3	380/420	
R-404A HFC	50	3	380/420	Low Temp, Low Condensing
R-507 HFC	50	3	380/420	Low Temp, Low Condensing
R-407C HFC	50	3	380/420	
R-407A HFC	50	3	380/420	Low Temp, Low Condensing
R-407F HFC	50	3	380/420	Low Temp, Low Condensing
R-448A HFO	50	3	380/420	Low Temp, Low Condensing
R-449A HFO	50	3	380/420	Low Temp, Low Condensing