

# CR47KQE-TFD

HCFC, R-22, 60 Hz, 3 - Phase, 380/460 V , [Also Available with Variable Frequency Drives](#)

## Air Conditioning

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

## Summary

Performance		
Evaporator Temp. (°F)	45.00	45
Condensing Temp. (°F)	130.00	100
Return Gas Temp. (°F)	65.00	65
Liquid Temp. (°F)	115.00	85
Capacity (BTU/hr)	47200	60000
Power (W):	4540	3710
Current (Amps):	6.9	6
EER(BTU/Wh):	10.4	16.1
Mass Flow (lbs/hr):	690	770
Sound Data @		
Sound Power (dBA):	76 Avg	81 Max
Vibration mils(peak-peak):	4.0 Avg	5.0 Max
Record Date:	2014-03-06	
Mechanical		
Displacement (in <sup>3</sup> /Rev):	4.95	
Displacement (ft <sup>3</sup> /Hr):		
Overall Length (in):	10.40	
Overall Width (in):	9.10	
Overall Height (in):	14.80	
Mounting Length (in):	7.50	
Mounting Width (in):	7.50	
Mounting Height (in):	15.20	

<b>Suction Size (in),Type:</b>	7 / 8 Stub
<b>Discharge Size (in),Type:</b>	1 / 2 Stub
<b>Initial Oil Charge (oz):</b>	45
<b>Oil Recharge (oz):</b>	43
<b>Oil Type:</b>	POE
<b>Net Weight (lbs):</b>	77.0

**Internal Free Volume (in<sup>3</sup>):**

\*Overall compressor height on Copeland Brand Product's specified mounting grommets.

#### Electrical

<b>LRA High* (Amps):</b>	50
<b>LRA Low*(Amps):</b>	
<b>LRA Half Winding (Amps):</b>	
<b>MCC (Amps):</b>	11.5
<b>Max Operating Current (Amps):</b>	11.10
<b>RLA, MCC/1.4(use for contactor selection)(Amps):</b>	8.2
<b>RLA, MCC/1.56(use for breaker &amp; wire size selection)(Amps):</b>	7.4
<b>RPM:</b>	3500
<b>Box IP :</b>	
<b>UL File No:</b>	
<b>UL File Date:</b>	

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

#### Capacitors

Type	Part No	Low MFD	High MFD	Volts	User Description
No data available in table					

#### Alternate Applications

Refrigerant	Voltage	Phase	Frequency	Application
R-22 HCFC	380/420	3	50	Air Conditioning
R-22 HCFC	380/420	3	50	High Temp
R-22 HCFC	380/460	3	60	High Temp
R-404A HFC	380/420	3	50	High Temp

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

## Nomenclature

CR47KQE-TFD
<b>Family Series</b>
<b>C:</b> Family of Compressors
<b>Application Range</b>
<b>R:</b> R22, R134A, R407C
<b>Nominal Capacity at Rating Condition</b>
<b>47K:</b> Capacity Multiplier-100
<b>Model Series Variation (Efficiency)</b>
<b>Q:</b> CR Large
<b>Identifier</b>
<b>:</b> CK Model
<b>OIL Identifier</b>
<b>E:</b> POE OIL
<b>Motor Type</b>
<b>T:</b> 3 Phase
<b>Motor Protection</b>
<b>F:</b> Internal Inherent Protection
<b>Voltage</b>
<b>D:</b> 60Hz (460-3) 50Hz (380/420-3)