# CR53KQ-TFD

HCFC, R-22, 60Hz, 3- Phase, 380/460 V
Air Conditioning

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) | 45 / 130 | 45 / 100 |
|---|---|---|
| RG(°F)/Liq(°F) | 65 / 115 | 65 / 85 |
| Capacity (Btu/hr) | 53200 | 67300 |
| Power (Watts): | 5210 | 4310 |
| Current (Amps): | 8.00 | 7.00 |
| EER (Btu/Wh): | 10.20 | 15.60 |
| Mass Flow (lbs/hr): | 780 | 865 |
| Sound Power (dBA): | 76 Avg | 81 Max |
| Vibration (mils(peak- | 3.7 Avg | 4.7 Max |
| Record Date: | 2000-10-25 | |

## Mechanical

| | | | |
|---|---|---|---|
| Number of Cylinders: | 2 | Displ(in^3/Rev): | 5.47 |
| Bore Size(in): | 1.96 | Displ(ft^3/hr): | 665.12 |
| Stroke(in): | 0.91 | | |
| Overall Length (in): | 10.62 | Mounting Length (in): | 7.50 |
| Overall Width (in): | 9.22 | Mounting Width (in): | 7.50 |
| Overall Height (in): | 14.81 | Mounting Height (in): | 15.19 * |

| | |
|---|---|
| Suction Size (in): | 22/25 Stub |
| Discharge Size (in): | 1/2 Stub |
| Oil Recharge (oz): | 43 |
| Initial Oil Charge (oz): | 45 |
| Net Weight (lbs): | 77 |
| Internal Free Volume (in^3): | 495.0 |
| Horse Power: | |

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

## Electrical

| | | | | |
|---|---|---|---|---|
| LRA-High*: | 55.0 | MCC (Amps): | 12.7 | UL File No: |
| LRA-Half Winding: | | RPM: | | UL File Date: |
| LRA Low*: | | Max Operating Current: | 12.7 | |
| RLA(=MCC/1.4;use for contactor selection): | | 9.1 | | |
| RLA(=MCC/1.56;use for breaker & wire size | | 8.1 | | |

*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-22 HCFC | 50 | 3 | 380/420 | Air Conditioning |
| R-22 HCFC | 50 | 3 | 380/420 | High Temperature |
| R-22 HCFC | 60 | 3 | 380/460 | High Temperature |



Copyright © 2010 Emerson Climate Technologies, Inc. All rights reserved.