

ZR34K3E-PFJ

HFC, R-407C, Dew Point, 50 Hz, 1 - Phase, 220/240 V
Air Conditioning

Performance

| | | |
|------------------------------|---------------|---------------|
| Evap(°F)/Cond(°F) | <u>45/130</u> | <u>45/100</u> |
| RG(°F)/Liq(°F) | <u>65/115</u> | <u>65/85</u> |
| Capacity (Btu/hr): | 27000 | 33100 |
| Power (Watts): | 2580 | 1700 |
| Current (Amps): | 12.3 | 8.3 |
| EER (Btu/Wh): | 10.4 | 19.4 |
| Mass Flow (lbs/hr): | 393.0 | 411.0 |
| Sound Power(dBA): | 68 Ave | 73 Max |
| Vibration (mils(peak-peak)): | 2.0 Ave | 3.0 Max |
| Record Date: | 2005-04-15 | |

Mechanical

| | | | |
|--|----------|-------------------------------|----------|
| Number of Cylinders: | 0 | Displ (in ³ /Rev): | 2.816 |
| Bore Size (in): | 0.0 | Displ (ft ³ /hr): | 283.5543 |
| Stroke (in): | 0.0 | | |
| Overall Length (in): | 9.567 | Mounting Length (in): | 7.5 |
| Overall Width (in): | 9.567 | Mounting Width(in): | 7.5 |
| Overall Height (in): | 15.729 | Mounting Height (in): | 12.965* |
| Suction Size (in): | 3/4 Stub | | |
| Discharge Size (in): | 1/2 Stub | | |
| Initial Oil Charge (oz): | 42 | | |
| Oil Recharge (oz): | 38 | | |
| Net Weight (lbs): | 63.0 | | |
| Internal Free Volume (in ³): | 161.0 | | |
| HorsePower | 3.0 | | |
| * Overall compressor height on Copeland Brand Product's specified mounting grommets. | | | |

Electrical

| | | | | | |
|---|------|------------------------|------|---------------|-------------|
| LRA-High*: | 76.0 | MCC (Amps): | 19.0 | UL File No.: | |
| LRA-Half Winding: | | RPM: | 2900 | UL File Date: | 14-Jun-1994 |
| LRA-Low*: | 70.0 | Max Operating Current: | 17.3 | CSA File No.: | |
| RLA(=MCC/1.4; use for contactor selection): | 13.6 | | | | |
| RLA(=MCC/1.56; use for breaker & wire size selection): | 12.2 | | | | |
| *Low and High refer to the low and high nominal voltage ranges for which the motor is approved. | | | | | |

Alternate Applications

| <u>Refrigerant</u> | <u>Frequency(Hz)</u> | <u>Phase</u> | <u>Voltage</u> | <u>Application</u> |
|--------------------|----------------------|--------------|----------------|--------------------|
| R-134a HFC | 60 | 1 | 265 | Air Conditioning |
| R-407C HFC | 60 | 1 | 265 | Air Conditioning |
| R-134a HFC | 50 | 1 | 220/240 | Air Conditioning |

Model: ZR34K3E-PFJ

Capacity

Current [A]

| $t_c \setminus t_e$ | -20 | -15 | -10 | -5 | 0 | 5 | 10 |
|---------------------|------|-------|-------|-------|-------|-------|-------|
| 30 | 7.61 | 7.58 | 7.54 | 7.48 | 7.40 | 7.28 | 7.11 |
| 35 | 8.33 | 8.31 | 8.27 | 8.22 | 8.14 | 8.03 | 7.87 |
| 40 | 9.14 | 9.11 | 9.07 | 9.02 | 8.94 | 8.83 | 8.68 |
| 45 | - | 10.05 | 10.00 | 9.94 | 9.85 | 9.73 | 9.58 |
| 50 | - | - | 11.12 | 11.03 | 10.93 | 10.80 | 10.63 |
| 55 | - | - | - | 12.37 | 12.24 | 12.09 | 11.90 |
| 60 | - | - | - | - | 13.83 | 13.65 | 13.43 |
| 65 | - | - | - | - | 15.76 | 15.54 | 15.29 |

Mass flow [kg/s]

| $t_c \setminus t_e$ | -20 | -15 | -10 | -5 | 0 | 5 | 10 |
|---------------------|-------|-------|--------|--------|--------|--------|--------|
| 30 | 65.21 | 83.31 | 103.89 | 127.35 | 154.14 | 184.67 | 219.36 |
| 35 | 63.20 | 81.76 | 102.60 | 126.12 | 152.77 | 182.97 | 217.13 |
| 40 | 60.66 | 79.90 | 101.20 | 125.00 | 151.73 | 181.79 | 215.63 |
| 45 | - | 77.03 | 99.02 | 123.31 | 150.31 | 180.46 | 214.18 |
| 50 | - | - | 95.36 | 120.34 | 147.84 | 178.28 | 212.10 |
| 55 | - | - | - | 115.42 | 143.62 | 174.57 | 208.69 |
| 60 | - | - | - | - | 136.98 | 168.64 | 203.28 |
| 65 | - | - | - | - | 127.22 | 159.80 | 195.16 |

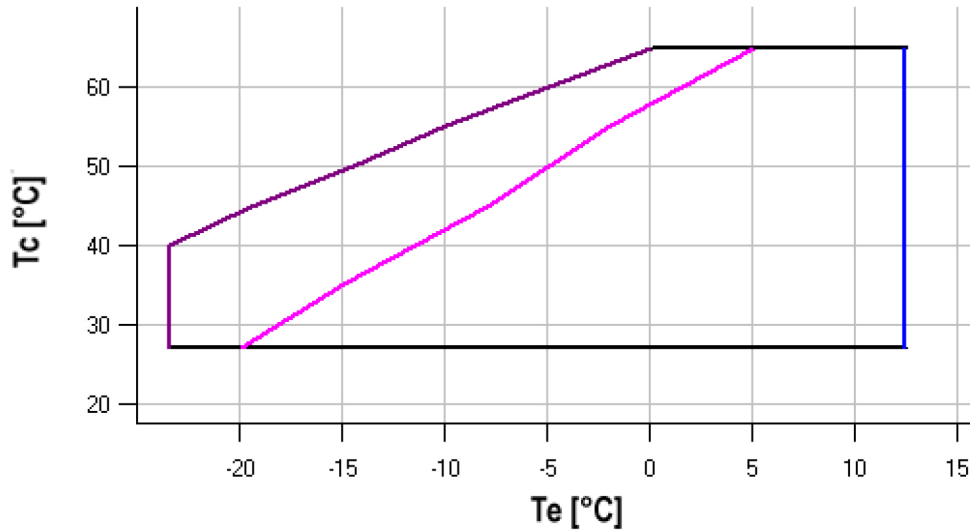
Model: ZR34K3E-PFJ

Capacity

C.O.P. [W/W]

| $t_c \setminus t_e$ | -20 | -15 | -10 | -5 | 0 | 5 | 10 |
|---------------------|------|------|------|------|------|------|------|
| 30 | 1.95 | 2.52 | 3.20 | 4.02 | 4.99 | 6.15 | 7.55 |
| 35 | 1.63 | 2.14 | 2.74 | 3.43 | 4.26 | 5.24 | 6.40 |
| 40 | 1.35 | 1.81 | 2.33 | 2.94 | 3.65 | 4.49 | 5.48 |
| 45 | - | 1.50 | 1.97 | 2.50 | 3.11 | 3.83 | 4.68 |
| 50 | - | - | 1.62 | 2.09 | 2.62 | 3.24 | 3.97 |
| 55 | - | - | - | 1.70 | 2.16 | 2.70 | 3.32 |
| 60 | - | - | - | - | 1.73 | 2.19 | 2.72 |
| 65 | - | - | - | - | 1.32 | 1.72 | 2.17 |

Application range



- Maximum evaporating temperature
- 25°C suction gas temperature
- 10K gas overheat

Operating conditions: 10K suction superheat, 0K subcooling

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]