

ZP120KCE-TFD

HFC, R-410A, 60 Hz, 3 - Phase, 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 | 35 |
| Condensing Temp. (°F) | 130.00 | 120 |
| Return Gas Temp. (°F) | 65.00 | 55 |
| Liquid Temp. (°F) | 115.00 | 105 |
| Capacity (BTU/hr) | 123000 | 109000 |
| Power (W): | 11100 | 9760 |
| Current (Amps): | 16.4 | 14.9 |
| EER(BTU/Wh): | 11.1 | 11.2 |
| Mass Flow (lbs/hr): | 1815 | 1525 |
| Sound Data @ | | |
| Sound Power (dBA): | 79 Avg | 84 Max |
| Vibration mils(peak-peak): | 3.0 Avg | 4.5 Max |
| Record Date: | 2019-11-15 | |
| Mechanical | | |
| Displacement (in ³ /Rev): | 6.93 | |
| Displacement (ft ³ /Hr): | | |
| Overall Length (in): | 11.20 | |
| Overall Width (in): | 11.10 | |
| Overall Height (in): | 21.00 | |
| Mounting Length (in): | 7.50 | |
| Mounting Width (in): | 7.50 | |
| Mounting Height (in): | 21.70 | |

| | |
|-----------------------------------------------|------------------|
| Suction Size (in),Type: | 1 3 / 4 Rotalock |
| Discharge Size (in),Type: | 1 1 / 4 Rotalock |
| Initial Oil Charge (oz): | 114 |
| Oil Recharge (oz): | 106 |
| Oil Type: | 3MA |
| Net Weight (lbs): | 135.0 |
| Internal Free Volume (in³): | 809.0 |

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

Electrical

| | |
|------------------------------------------------------------------------|---------------------|
| LRA High* (Amps): | 125 |
| LRA Low*(Amps): | |
| LRA Half Winding (Amps): | |
| MCC (Amps): | 28 |
| Max Operating Current (Amps): | 22.00 |
| RLA, MCC/1.4(use for contactor selection)(Amps): | 20.0 |
| RLA, MCC/1.56(use for breaker & wire size selection)(Amps): | 17.9 |
| RPM: | 3500 |
| Box IP : | 54 |
| UL File No: | SA2337- 19960927 |
| UL File Date: | 1996-09-27 |
| European Pressure Equipment Directive (PED): | |
| Fluid Group**: | FG 2 |
| PS Low / High Side (BAR): | 29.5 / 45.0 |
| TS Min (°C): | -35 / -35 |
| TS Max (°C): | 50 / 150 |
| Volume (L) : | 1.5 / 12.6 |

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

**Fluid Group 1 comprises dangerous fluids defined as: Explosive, extremely flammable, high flammable, very toxic, toxic, oxidizing.

Fluid Group 2 is for non-dangerous fluids defined as: non-explosive, non-toxic, non-flammable.

Capacitors

| Type | Part No | Low MFD | High MFD | Volts | User Description |
|-------------------------------|---------|---------|-----------|------------------|------------------|
| No data available in table | | | | | |
| Alternate Applications | | | | | |
| Refrigerant | Voltage | Phase | Frequency | Application | |
| R-410A HFC | 380/420 | 3 | 50 | Air Conditioning | |

Nomenclature

ZP120KCE-TFD

Family Series

Z: Scroll

Application Range

P: A/C - R-410A/B

Capacity

120K: Capacity Multiplier-1000

Model Variation

C: Model Variation

Oil Type

E: Polyol Ester

Motor Type

T: 3 Phase

Motor Protection

F: Internal Inherent Protection

Voltage

D: 60Hz (460-3) 50Hz (380/420-3)