



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return
- 25 °C Suction Gas Return with Voltage limit ± 0 %
- Maximum Evaporating Temperature
- 10 K Suction Superheat

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

50 Hz

ZB15KCE-PFJ

R134a

| Cond °C | Cooling Capacity, kW | | | | | | | | | |
|------------|----------------------|-------|-------|------|------|------|------|------|------|------|
| | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 | 10.0 | 12.5 | 15.0 |
| 10.0 | 1.64 | 2.12 | 2.64 | 3.22 | | | | | | |
| 15.0 | 1.57 | 2.04 | 2.56 | 3.14 | | | | | | |
| 20.0 | 1.48 | 1.95 | 2.47 | 3.05 | 3.70 | | | | | |
| 25.0 | 1.40 | 1.85 | 2.36 | 2.94 | 3.58 | 4.31 | 4.62 | | | |
| 30.0 | 1.32 | 1.75 | 2.24 | 2.81 | 3.45 | 4.17 | 4.48 | 4.98 | 5.42 | |
| 35.0 | 1.24 | 1.64 | 2.12 | 2.67 | 3.29 | 4.00 | 4.31 | 4.80 | 5.24 | 5.70 |
| 40.0 | 1.16 | 1.54 | 1.99 | 2.52 | 3.12 | 3.82 | 4.12 | 4.60 | 5.04 | 5.49 |
| 45.0 | | 1.44 | 1.86 | 2.36 | 2.94 | 3.61 | 3.91 | 4.38 | 4.81 | 5.26 |
| 50.0 | | 1.34 | 1.73 | 2.20 | 2.75 | 3.40 | 3.68 | 4.14 | 4.55 | 4.99 |
| 55.0 | | | 1.60 | 2.03 | 2.55 | 3.17 | 3.44 | 3.88 | 4.28 | 4.71 |
| 60.0 | | | | 1.87 | 2.35 | 2.93 | 3.19 | 3.61 | 3.99 | 4.40 |
| 65.0 | | | | 1.71 | 2.14 | 2.68 | 2.92 | 3.32 | 3.69 | 4.08 |
| 70.0 | | | | | 1.94 | 2.43 | 2.65 | 3.03 | 3.37 | 3.74 |
| 75.0 | | | | | 1.74 | 2.17 | 2.38 | 2.72 | 3.04 | 3.39 |

| Cond °C | Power, kW | | | | | | | | | |
|------------|-----------|-------|-------|------|------|------|------|------|------|------|
| | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 | 10.0 | 12.5 | 15.0 |
| 10.0 | 0.61 | 0.61 | 0.62 | 0.64 | | | | | | |
| 15.0 | 0.66 | 0.67 | 0.68 | 0.69 | | | | | | |
| 20.0 | 0.72 | 0.73 | 0.73 | 0.75 | 0.77 | | | | | |
| 25.0 | 0.78 | 0.79 | 0.80 | 0.81 | 0.83 | 0.85 | 0.87 | | | |
| 30.0 | 0.85 | 0.86 | 0.87 | 0.88 | 0.90 | 0.92 | 0.93 | 0.95 | 0.96 | |
| 35.0 | 0.93 | 0.94 | 0.95 | 0.96 | 0.98 | 1.00 | 1.01 | 1.02 | 1.03 | 1.05 |
| 40.0 | 1.02 | 1.02 | 1.03 | 1.05 | 1.06 | 1.08 | 1.10 | 1.10 | 1.12 | 1.13 |
| 45.0 | | 1.12 | 1.14 | 1.15 | 1.16 | 1.18 | 1.19 | 1.20 | 1.22 | 1.23 |
| 50.0 | | 1.23 | 1.25 | 1.26 | 1.28 | 1.30 | 1.30 | 1.32 | 1.32 | 1.34 |
| 55.0 | | | 1.36 | 1.38 | 1.40 | 1.42 | 1.42 | 1.44 | 1.44 | 1.46 |
| 60.0 | | | | 1.52 | 1.54 | 1.56 | 1.56 | 1.58 | 1.58 | 1.60 |
| 65.0 | | | | 1.68 | 1.70 | 1.72 | 1.72 | 1.73 | 1.74 | 1.75 |
| 70.0 | | | | | 1.86 | 1.88 | 1.90 | 1.90 | 1.92 | 1.92 |
| 75.0 | | | | | 2.05 | 2.08 | 2.09 | 2.10 | 2.11 | 2.11 |

50 Hz

ZB15KCE-PFJ

R134a

| Cond °C | Current at 230 V, A | | | | | | | | | |
|------------|---------------------|-------|-------|------|-------|-------|-------|-------|-------|-------|
| | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 | 10.0 | 12.5 | 15.0 |
| 10.0 | 4.73 | 4.72 | 4.73 | 4.75 | | | | | | |
| 15.0 | 4.87 | 4.87 | 4.88 | 4.91 | | | | | | |
| 20.0 | 5.03 | 5.04 | 5.06 | 5.09 | 5.14 | | | | | |
| 25.0 | 5.20 | 5.22 | 5.25 | 5.29 | 5.34 | 5.41 | 5.44 | | | |
| 30.0 | 5.41 | 5.44 | 5.47 | 5.52 | 5.57 | 5.64 | 5.67 | 5.73 | 5.78 | |
| 35.0 | 5.65 | 5.69 | 5.73 | 5.78 | 5.84 | 5.91 | 5.94 | 6.00 | 6.04 | 6.10 |
| 40.0 | 5.93 | 5.98 | 6.03 | 6.09 | 6.16 | 6.23 | 6.26 | 6.31 | 6.36 | 6.41 |
| 45.0 | | 6.33 | 6.39 | 6.45 | 6.52 | 6.60 | 6.63 | 6.68 | 6.73 | 6.77 |
| 50.0 | | 6.73 | 6.81 | 6.88 | 6.95 | 7.03 | 7.06 | 7.11 | 7.16 | 7.20 |
| 55.0 | | | 7.29 | 7.37 | 7.45 | 7.53 | 7.56 | 7.61 | 7.66 | 7.70 |
| 60.0 | | | | 7.94 | 8.02 | 8.10 | 8.14 | 8.19 | 8.23 | 8.28 |
| 65.0 | | | | 8.58 | 8.68 | 8.76 | 8.80 | 8.85 | 8.89 | 8.93 |
| 70.0 | | | | | 9.42 | 9.51 | 9.55 | 9.60 | 9.64 | 9.69 |
| 75.0 | | | | | 10.27 | 10.36 | 10.40 | 10.45 | 10.50 | 10.54 |

| Cond °C | Suction Mass Flow, g/s | | | | | | | | | |
|------------|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 | 10.0 | 12.5 | 15.0 |
| 10.0 | 9.11 | 11.50 | 14.10 | 16.90 | | | | | | |
| 15.0 | 9.03 | 11.50 | 14.20 | 17.10 | | | | | | |
| 20.0 | 8.91 | 11.45 | 14.25 | 17.25 | 20.60 | | | | | |
| 25.0 | 8.78 | 11.35 | 14.20 | 17.35 | 20.80 | 24.50 | 26.10 | | | |
| 30.0 | 8.64 | 11.25 | 14.15 | 17.35 | 20.90 | 24.70 | 26.40 | 29.00 | 31.30 | |
| 35.0 | 8.52 | 11.10 | 14.00 | 17.25 | 20.90 | 24.90 | 26.60 | 29.30 | 31.60 | 34.10 |
| 40.0 | 8.43 | 10.95 | 13.85 | 17.10 | 20.80 | 24.90 | 26.60 | 29.40 | 31.80 | 34.40 |
| 45.0 | | 10.85 | 13.65 | 16.90 | 20.60 | 24.80 | 26.60 | 29.40 | 31.90 | 34.50 |
| 50.0 | | 10.75 | 13.45 | 16.65 | 20.40 | 24.60 | 26.40 | 29.30 | 31.90 | 34.60 |
| 55.0 | | | 13.30 | 16.40 | 20.10 | 24.30 | 26.10 | 29.10 | 31.70 | 34.50 |
| 60.0 | | | | 16.15 | 19.70 | 23.90 | 25.80 | 28.80 | 31.40 | 34.20 |
| 65.0 | | | | 15.90 | 19.35 | 23.50 | 25.30 | 28.30 | 31.00 | 33.90 |
| 70.0 | | | | | 18.95 | 23.00 | 24.90 | 27.90 | 30.60 | 33.50 |
| 75.0 | | | | | 18.65 | 22.50 | 24.30 | 27.30 | 30.00 | 33.00 |

COMPRESSOR MECHANICAL AND PHYSICAL DATA

| | |
|--|--|
| Displacement @ 50 Hz, m³/h | 5.92 |
| Length/Width, mm | 241/241 |
| Height, mm | 382 |
| Net Weight, kg | 25.3 |
| Rotalock Suction, inch | 1 1/4 |
| Rotalock Discharge, inch | 1 |
| Oil Quantity, l | 0.74 |
| Oil type (original charge) | POE RL32-3MAF |
| Oil type (approved oils) | POE RL32-3MAF, POE MOBIL EAL Arctic 22 CC |
| Base mounting (hole dia), mm | 190 x 190 (8.5) |
| Sound Pressure @ 1m (HT), dBA | 57 |
| Sound Power (HT), dBA | 68 |
| Sound Power with Sound Shell (HT), dBA | 58 |
| Sound Conditions (HT, Temperatures: | 7 / 54 / 18 °C at 50 Hz |
| Evap./Cond./Suction at freq./speed) | |
| PED Category | 1 |
| Max. Internal Free Volume, l | 2.50 |
| High Side PS gauge, bar | 32 |
| Low Side PS gauge, bar | 21 |
| Low Side TS Max., °C | 50 |
| Low Side TS Min., °C | -35 |
| Refrigerant's GWP | 1430 |
| Refrigerant's classification | A1 |

COMPRESSOR ELECTRICAL DATA (220-240 V / 1~ / 50 Hz)

| | |
|------------------------------|-----------------|
| Maximum Operating Current, A | 12.8 |
| Locked Rotor Current, A | 58 |
| Winding Resistance, ohm | 1.26/3.34 (R/S) |
| Default Enclosure Class | IP 21 (IEC 34) |

ACCESSORIES INCLUDED

| | |
|----------------------------------|---------------------|
| Discharge Temperature Protection | Internal Thermodisk |
| Mounting Grommets | Standard |

ACCESSORIES OPTIONAL

| | |
|------------------------|---------------------------|
| Crankcase Heater | 70 W External |
| Single Phase Equipment | Run Capacitor |
| Oil Control System | ALCO Trax-Oil OM3 |
| Sound Attenuation | Sound Shell (10dBA) |
| Single Phase Equipment | Start Relay and Capacitor |
| Rotalock valves | suction and discharge |

MOTOR OPTIONS

| <i>Motor Code</i> | <i>Power Supply</i> | <i>Nominal Voltage, V</i> | <i>Start Connection</i> | <i>DOL Connection</i> | <i>Amps Factor</i> |
|-------------------|------------------------|---------------------------|-------------------------|-----------------------|--------------------|
| PFJ | 220-240 V / 1~ / 50 Hz | 230 | | PSC | 1.00 |
| PFJ | 265 V / 1~ / 60 Hz | 265 | | PSC | 0.75 |