



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

ZB26KCE-TFD

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 | 3.03 | 3.81 | 4.76 | 5.90 | | | | | | |
| 15.0 | 2.89 | 3.65 | 4.58 | 5.69 | | | | | | |
| 20.0 | 2.75 | 3.49 | 4.39 | 5.46 | 6.73 | | | | | |
| 25.0 | 2.60 | 3.32 | 4.19 | 5.23 | 6.46 | 7.88 | 8.51 | | | |
| 30.0 | 2.46 | 3.15 | 3.98 | 4.99 | 6.17 | 7.55 | 8.15 | 9.13 | 10.00 | |
| 35.0 | 2.31 | 2.97 | 3.77 | 4.74 | 5.87 | 7.19 | 7.78 | 8.72 | 9.57 | 10.45 |
| 40.0 | 2.16 | 2.79 | 3.56 | 4.48 | 5.56 | 6.83 | 7.39 | 8.30 | 9.11 | 9.97 |
| 45.0 | | 2.61 | 3.34 | 4.21 | 5.24 | 6.45 | 6.99 | 7.86 | 8.63 | 9.47 |
| 50.0 | | 2.42 | 3.11 | 3.94 | 4.92 | 6.07 | 6.58 | 7.40 | 8.15 | 8.94 |
| 55.0 | | | 2.88 | 3.66 | 4.58 | 5.67 | 6.15 | 6.94 | 7.64 | 8.40 |
| 60.0 | | | | 3.37 | 4.24 | 5.26 | 5.72 | 6.46 | 7.12 | 7.84 |
| 65.0 | | | | 3.08 | 3.89 | 4.84 | 5.27 | 5.96 | 6.59 | 7.27 |
| 70.0 | | | | | 3.53 | 4.41 | 4.81 | 5.46 | 6.05 | 6.68 |
| 75.0 | | | | | 3.16 | 3.98 | 4.34 | 4.95 | 5.49 | 6.08 |

| 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 | 0.76 | 0.76 | 0.76 | 0.77 | | | | | | |
| 15.0 | 0.86 | 0.86 | 0.86 | 0.87 | | | | | | |
| 20.0 | 0.97 | 0.97 | 0.97 | 0.98 | 0.99 | | | | | |
| 25.0 | 1.08 | 1.08 | 1.09 | 1.10 | 1.10 | 1.12 | 1.13 | | | |
| 30.0 | 1.20 | 1.21 | 1.22 | 1.22 | 1.23 | 1.25 | 1.26 | 1.27 | 1.28 | |
| 35.0 | 1.34 | 1.34 | 1.35 | 1.36 | 1.37 | 1.38 | 1.39 | 1.40 | 1.41 | 1.42 |
| 40.0 | 1.48 | 1.50 | 1.50 | 1.52 | 1.52 | 1.54 | 1.54 | 1.55 | 1.56 | 1.56 |
| 45.0 | | 1.66 | 1.67 | 1.68 | 1.70 | 1.71 | 1.72 | 1.72 | 1.73 | 1.74 |
| 50.0 | | 1.84 | 1.86 | 1.87 | 1.88 | 1.90 | 1.90 | 1.92 | 1.92 | 1.92 |
| 55.0 | | | 2.06 | 2.08 | 2.10 | 2.11 | 2.12 | 2.13 | 2.13 | 2.14 |
| 60.0 | | | | 2.31 | 2.33 | 2.35 | 2.36 | 2.37 | 2.37 | 2.38 |
| 65.0 | | | | 2.57 | 2.59 | 2.61 | 2.62 | 2.63 | 2.64 | 2.64 |
| 70.0 | | | | | 2.88 | 2.90 | 2.91 | 2.92 | 2.93 | 2.94 |
| 75.0 | | | | | 3.20 | 3.23 | 3.23 | 3.25 | 3.26 | 3.26 |

50 Hz

ZB26KCE-TFD

R134a

| Cond °C | Current at 400 V, A | | | | | | | | | |
|------------|---------------------|-------|-------|------|------|------|------|------|------|------|
| | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 | 10.0 | 12.5 | 15.0 |
| 10.0 | 2.99 | 2.96 | 2.94 | 2.94 | | | | | | |
| 15.0 | 3.06 | 3.04 | 3.02 | 3.02 | | | | | | |
| 20.0 | 3.15 | 3.13 | 3.11 | 3.11 | 3.12 | | | | | |
| 25.0 | 3.24 | 3.23 | 3.22 | 3.22 | 3.22 | 3.24 | 3.25 | | | |
| 30.0 | 3.35 | 3.34 | 3.34 | 3.34 | 3.35 | 3.36 | 3.37 | 3.39 | 3.40 | |
| 35.0 | 3.48 | 3.48 | 3.48 | 3.48 | 3.49 | 3.51 | 3.51 | 3.53 | 3.54 | 3.56 |
| 40.0 | 3.63 | 3.64 | 3.65 | 3.66 | 3.67 | 3.68 | 3.69 | 3.70 | 3.71 | 3.72 |
| 45.0 | | 3.82 | 3.84 | 3.86 | 3.87 | 3.88 | 3.89 | 3.90 | 3.91 | 3.92 |
| 50.0 | | 4.04 | 4.07 | 4.09 | 4.11 | 4.12 | 4.13 | 4.14 | 4.15 | 4.15 |
| 55.0 | | | 4.33 | 4.36 | 4.39 | 4.41 | 4.41 | 4.42 | 4.43 | 4.43 |
| 60.0 | | | | 4.67 | 4.70 | 4.73 | 4.74 | 4.75 | 4.75 | 4.76 |
| 65.0 | | | | 5.03 | 5.07 | 5.10 | 5.11 | 5.12 | 5.13 | 5.13 |
| 70.0 | | | | | 5.48 | 5.52 | 5.53 | 5.54 | 5.55 | 5.56 |
| 75.0 | | | | | 5.95 | 5.99 | 6.01 | 6.02 | 6.04 | 6.04 |

| 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 | 16.75 | 20.70 | 25.40 | 31.00 | | | | | | |
| 15.0 | 16.60 | 20.60 | 25.40 | 31.00 | | | | | | |
| 20.0 | 16.50 | 20.50 | 25.30 | 31.00 | 37.50 | | | | | |
| 25.0 | 16.30 | 20.40 | 25.20 | 30.90 | 37.40 | 44.90 | 48.10 | | | |
| 30.0 | 16.15 | 20.20 | 25.10 | 30.80 | 37.30 | 44.80 | 48.10 | 53.20 | 57.80 | |
| 35.0 | 15.95 | 20.00 | 24.90 | 30.60 | 37.20 | 44.70 | 47.90 | 53.10 | 57.70 | 62.60 |
| 40.0 | 15.70 | 19.85 | 24.70 | 30.40 | 37.00 | 44.50 | 47.70 | 52.90 | 57.60 | 62.40 |
| 45.0 | | 19.60 | 24.50 | 30.20 | 36.70 | 44.20 | 47.50 | 52.70 | 57.30 | 62.20 |
| 50.0 | | 19.35 | 24.20 | 29.80 | 36.40 | 43.90 | 47.20 | 52.40 | 57.00 | 61.90 |
| 55.0 | | | 23.90 | 29.50 | 36.00 | 43.50 | 46.70 | 52.00 | 56.60 | 61.50 |
| 60.0 | | | | 29.10 | 35.60 | 43.00 | 46.30 | 51.50 | 56.10 | 61.00 |
| 65.0 | | | | 28.60 | 35.00 | 42.50 | 45.70 | 50.90 | 55.50 | 60.50 |
| 70.0 | | | | | 34.50 | 41.80 | 45.10 | 50.30 | 54.90 | 59.90 |
| 75.0 | | | | | 33.90 | 41.20 | 44.40 | 49.60 | 54.30 | 59.20 |

COMPRESSOR MECHANICAL AND PHYSICAL DATA

| | |
|--|--|
| Displacement @ 50 Hz, m³/h | 9.94 |
| Length/Width, mm | 243/244 |
| Height, mm | 406 |
| Net Weight, kg | 28.4 |
| Gross Weight, kg | 31.4 |
| Rotalock Suction, inch | 1 1/4 |
| Rotalock Discharge, inch | 1 |
| Oil Quantity, l | 1.12 |
| 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 (MT), dBA | 58 |
| Sound Power (MT), dBA | 69 |
| Sound Power with Sound Shell (MT), dBA | 62 |
| Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed) | -10 / 45 / 20 °C at 50 Hz |
| | |
| PED Category | 1 |
| Max. Internal Free Volume, l | 2.60 |
| 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 (380-420 V / 3~ / 50 Hz)

| | |
|------------------------------|----------------|
| Maximum Operating Current, A | 7.45 |
| Locked Rotor Current, A | 46 |
| Winding Resistance, ohm | 4.03 |
| Default Enclosure Class | IP 21 (IEC 34) |

ACCESSORIES INCLUDED

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

ACCESSORIES OPTIONAL

| | |
|--------------------|-----------------------|
| Crankcase Heater | 70 W External |
| Sound Attenuation | Sound Shell (10dBA) |
| Rotalock valves | suction and discharge |
| Oil Control System | ALCO Trax-Oil OM3 |

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> |
|-------------------|------------------------|---------------------------|-------------------------|-----------------------|--------------------|
| TFD | 380-420 V / 3~ / 50 Hz | 400 | | Y | 1.00 |
| TF5 | 200-220 V / 3~ / 50 Hz | 200 | | Y | 2.09 |
| TFE | 500 V / 3~ / 50 Hz | 500 | | Y | 0.80 |
| TW5 | 200-220 V / 3~ / 50 Hz | 200 | | Y | 2.30 |
| TFD | 460 V / 3~ / 60 Hz | 460 | | Y | 1.04 |
| TF5 | 200-230 V / 3~ / 60 Hz | 230 | | Y | 2.09 |
| TFE | 575 V / 3~ / 60 Hz | 575 | | Y | 0.80 |