



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return ASERCOM certified
- 10 K Suction Superheat
- Maximum Evaporating Temperature

Suction Return Temperature 20.0°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

| Cond °C | Cooling Capacity, kW | | | | | | | | |
|------------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| | -25.0 | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 | 10.0 |
| 10.0 | 18.45 | 22.70 | 27.80 | 33.80 | | | | | |
| 15.0 | 17.65 | 21.80 | 26.70 | 32.30 | 38.80 | | | | |
| 20.0 | 16.80 | 20.80 | 25.40 | 30.80 | 37.00 | 44.00 | | | |
| 25.0 | 15.85 | 19.70 | 24.10 | 29.20 | 35.00 | 41.70 | 49.20 | | |
| 30.0 | 14.75 | 18.45 | 22.70 | 27.50 | 33.00 | 39.30 | 46.30 | 49.40 | 54.20 |
| 35.0 | 13.50 | 17.10 | 21.10 | 25.70 | 30.90 | 36.80 | 43.30 | 46.20 | 50.70 |
| 40.0 | | 15.60 | 19.45 | 23.80 | 28.70 | 34.10 | 40.30 | 42.90 | 47.20 |
| 45.0 | | | 17.65 | 21.70 | 26.30 | 31.40 | 37.10 | 39.50 | 43.50 |
| 50.0 | | | | 19.50 | 23.70 | 28.50 | 33.70 | 36.00 | 39.60 |
| 55.0 | | | | 17.05 | 21.00 | 25.40 | 30.30 | 32.30 | 35.60 |
| 60.0 | | | | | 18.15 | 22.20 | 26.60 | 28.50 | 31.50 |

50 Hz

ZB95KCE-TFD

R404A Dew Point

| Cond °C | Power, kW | | | | | | | | |
|------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
| | -25.0 | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 | 10.0 |
| 10.0 | 4.66 | 4.80 | 4.95 | 5.09 | | | | | |
| 15.0 | 5.21 | 5.34 | 5.49 | 5.64 | 5.78 | | | | |
| 20.0 | 5.82 | 5.93 | 6.07 | 6.23 | 6.38 | 6.52 | | | |
| 25.0 | 6.52 | 6.60 | 6.72 | 6.87 | 7.02 | 7.17 | 7.30 | | |
| 30.0 | 7.34 | 7.38 | 7.47 | 7.59 | 7.74 | 7.89 | 8.03 | 8.08 | 8.14 |
| 35.0 | 8.30 | 8.29 | 8.33 | 8.42 | 8.55 | 8.69 | 8.83 | 8.88 | 8.95 |
| 40.0 | | 9.35 | 9.34 | 9.38 | 9.47 | 9.59 | 9.72 | 9.77 | 9.85 |
| 45.0 | | | 10.50 | 10.50 | 10.55 | 10.65 | 10.75 | 10.80 | 10.85 |
| 50.0 | | | | 11.80 | 11.80 | 11.80 | 11.90 | 11.90 | 12.00 |
| 55.0 | | | | 13.30 | 13.20 | 13.20 | 13.20 | 13.25 | 13.25 |
| 60.0 | | | | | 14.85 | 14.75 | 14.70 | 14.70 | 14.75 |

| Cond °C | Current at 400 V, A | | | | | | | | |
|------------|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| | -25.0 | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 | 10.0 |
| 10.0 | 11.84 | 11.99 | 12.13 | 12.26 | | | | | |
| 15.0 | 12.38 | 12.53 | 12.69 | 12.86 | 13.00 | | | | |
| 20.0 | 13.03 | 13.17 | 13.34 | 13.52 | 13.69 | 13.85 | | | |
| 25.0 | 13.85 | 13.95 | 14.10 | 14.28 | 14.48 | 14.66 | 14.81 | | |
| 30.0 | 14.87 | 14.92 | 15.03 | 15.20 | 15.38 | 15.58 | 15.76 | 15.83 | 15.91 |
| 35.0 | 16.13 | 16.11 | 16.17 | 16.29 | 16.46 | 16.64 | 16.84 | 16.91 | 17.01 |
| 40.0 | | 17.56 | 17.55 | 17.61 | 17.73 | 17.90 | 18.08 | 18.15 | 18.26 |
| 45.0 | | | 19.21 | 19.20 | 19.26 | 19.37 | 19.53 | 19.59 | 19.70 |
| 50.0 | | | | 21.09 | 21.07 | 21.12 | 21.22 | 21.27 | 21.36 |
| 55.0 | | | | 23.32 | 23.20 | 23.17 | 23.21 | 23.24 | 23.29 |
| 60.0 | | | | | 25.70 | 25.57 | 25.52 | 25.52 | 25.53 |

| Cond °C | Suction Mass Flow, g/s | | | | | | | | |
|------------|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| | -25.0 | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 | 10.0 |
| 10.0 | 104.00 | 128.50 | 158.00 | 193.50 | | | | | |
| 15.0 | 103.50 | 128.50 | 158.00 | 193.00 | 234.00 | | | | |
| 20.0 | 103.00 | 128.00 | 158.00 | 192.50 | 233.00 | 280.00 | | | |
| 25.0 | 101.50 | 127.00 | 157.00 | 191.50 | 232.00 | 279.00 | 334.00 | | |
| 30.0 | 99.70 | 125.50 | 155.50 | 190.00 | 230.00 | 277.00 | 332.00 | 356.00 | 395.00 |
| 35.0 | 96.50 | 123.00 | 153.50 | 188.00 | 228.00 | 275.00 | 329.00 | 353.00 | 392.00 |
| 40.0 | | 119.00 | 150.00 | 185.00 | 225.00 | 272.00 | 326.00 | 350.00 | 389.00 |
| 45.0 | | | 145.50 | 181.00 | 221.00 | 268.00 | 322.00 | 347.00 | 386.00 |
| 50.0 | | | | 175.50 | 216.00 | 263.00 | 318.00 | 342.00 | 382.00 |
| 55.0 | | | | 168.00 | 210.00 | 258.00 | 313.00 | 338.00 | 378.00 |
| 60.0 | | | | | 201.00 | 251.00 | 308.00 | 333.00 | 375.00 |

COMPRESSOR MECHANICAL AND PHYSICAL DATA

| | |
|--|--|
| Displacement @ 50 Hz, m ³ /h | 36.4 |
| Length/Width, mm | 264/285 |
| Height, mm | 552 |
| Net Weight, kg | 64.9 |
| Rotalock Suction, inch | 1 3/4 |
| Rotalock Discharge, inch | 1 1/4 |
| Oil Quantity, l | 3.25 |
| 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 | 67 |
| Sound Power (MT), dBA | 78 |
| Sound Power with Sound Shell (MT), dBA | 66 |
| Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed) | -10 / 45 / 20 °C at 50 Hz |
| PED Category | 2 |
| Max. Internal Free Volume, l | 14.0 |
| High Side PS gauge, bar | 32 |
| Low Side PS gauge, bar | 22.6 |
| Low Side TS Max., °C | 50 |
| Low Side TS Min., °C | -35 |
| Refrigerant's GWP | 3922 |
| Refrigerant's classification | A1 |

COMPRESSOR ELECTRICAL DATA (380-420 V / 3~ / 50 Hz)

| | |
|------------------------------|----------------|
| Maximum Operating Current, A | 28.2 |
| Locked Rotor Current, A | 140 |
| Winding Resistance, ohm | 1.09 |
| Default Enclosure Class | IP 21 (IEC 34) |

ACCESSORIES INCLUDED

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

ACCESSORIES OPTIONAL

| | |
|--------------------|-----------------------------|
| Crankcase Heater | 66 W External |
| Sound Attenuation | Sound Shell (10dBA) |
| Rotalock valves | suction and discharge |
| Enclosure Class | IP66 With Molded Plug |
| Mounting Grommets | Hard Mounts for Paralleling |
| Oil Control System | ALCO Trax-Oil OM3 |

MOTOR OPTIONS

| Motor Code | Power Supply | Nominal Voltage, V | Start Connection | DOL Connection | Amps Factor |
|-------------------|------------------------|---------------------------|-------------------------|-----------------------|--------------------|
| TFD | 380-420 V / 3~ / 50 Hz | 400 | | Y | 1.00 |
| TWE | 500 V / 3~ / 50 Hz | 500 | | Y | 0.80 |
| TFD | 460 V / 3~ / 60 Hz | 460 | | Y | 1.04 |
| TWE | 575 V / 3~ / 60 Hz | 575 | | Y | 0.80 |
| TW7 | 380 V / 3~ / 60 Hz | 380 | | Y | 1.26 |
| TW5 | 200-230 V / 3~ / 60 Hz | 230 | | Y | 2.30 |