



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return — 0 °C Suction Gas Return
- Maximum Evaporating Temperature | Voltage limit -5% above -7°C

Suction Return Temperature 18.3°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

| Cond °C | Cooling Capacity, kW | | | | | | | | | | |
|------------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | -40.0 | -35.0 | -30.0 | -25.0 | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 |
| 4.0 | 11.40 | 13.95 | 16.95 | 20.40 | 24.50 | 29.20 | 34.70 | | | | |
| 5.0 | 11.40 | 13.95 | 16.95 | 20.40 | 24.50 | 29.20 | 34.60 | | | | |
| 10.0 | 11.30 | 13.80 | 16.80 | 20.20 | 24.20 | 28.90 | 34.20 | 40.20 | | | |
| 15.0 | 11.15 | 13.65 | 16.60 | 20.00 | 23.90 | 28.40 | 33.60 | 39.50 | 46.30 | | |
| 20.0 | 11.00 | 13.50 | 16.35 | 19.70 | 23.50 | 28.00 | 33.00 | 38.80 | 45.40 | 52.70 | |
| 25.0 | 10.80 | 13.25 | 16.10 | 19.35 | 23.10 | 27.40 | 32.40 | 38.00 | 44.40 | 51.60 | 54.70 |
| 30.0 | 10.60 | 13.00 | 15.80 | 18.95 | 22.60 | 26.80 | 31.60 | 37.10 | 43.30 | 50.30 | 53.30 |
| 35.0 | 10.35 | 12.75 | 15.45 | 18.55 | 22.10 | 26.20 | 30.80 | 36.10 | 42.10 | 48.90 | 51.90 |
| 40.0 | 10.10 | 12.40 | 15.05 | 18.05 | 21.50 | 25.40 | 30.00 | 35.10 | 40.90 | 47.50 | 50.40 |
| 45.0 | | 12.10 | 14.65 | 17.55 | 20.90 | 24.70 | 29.00 | 34.00 | 39.60 | 46.00 | |
| 50.0 | | 11.75 | 14.20 | 17.00 | 20.20 | 23.80 | 28.00 | 32.80 | 38.20 | | |
| 54.4 | | | 13.80 | 16.50 | 19.55 | 23.10 | 27.10 | 31.70 | | | |

| Cond °C | Power, kW | | | | | | | | | | |
|------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | -40.0 | -35.0 | -30.0 | -25.0 | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 |
| 4.0 | 3.97 | 4.27 | 4.53 | 4.74 | 4.94 | 5.13 | 5.31 | | | | |
| 5.0 | 4.01 | 4.31 | 4.57 | 4.79 | 4.99 | 5.18 | 5.37 | | | | |
| 10.0 | 4.34 | 4.68 | 4.96 | 5.22 | 5.45 | 5.67 | 5.90 | 6.14 | | | |
| 15.0 | 4.71 | 5.08 | 5.40 | 5.68 | 5.95 | 6.21 | 6.47 | 6.74 | 7.04 | | |
| 20.0 | 5.12 | 5.52 | 5.88 | 6.20 | 6.50 | 6.79 | 7.08 | 7.39 | 7.73 | 8.10 | |
| 25.0 | 5.59 | 6.02 | 6.40 | 6.76 | 7.09 | 7.42 | 7.75 | 8.09 | 8.47 | 8.88 | 9.06 |
| 30.0 | 6.10 | 6.57 | 6.99 | 7.38 | 7.75 | 8.11 | 8.47 | 8.86 | 9.27 | 9.72 | 9.91 |
| 35.0 | 6.68 | 7.18 | 7.64 | 8.06 | 8.47 | 8.86 | 9.26 | 9.68 | 10.15 | 10.60 | 10.85 |
| 40.0 | 7.33 | 7.86 | 8.35 | 8.81 | 9.25 | 9.69 | 10.15 | 10.60 | 11.05 | 11.60 | 11.80 |
| 45.0 | | 8.62 | 9.14 | 9.64 | 10.10 | 10.60 | 11.05 | 11.55 | 12.10 | 12.65 | |
| 50.0 | | 9.45 | 10.00 | 10.55 | 11.05 | 11.55 | 12.10 | 12.60 | 13.20 | | |
| 54.4 | | | 10.85 | 11.40 | 11.95 | 12.50 | 13.05 | 13.60 | | | |

| Cond °C | Current at 400 V, A | | | | | | | | | | |
|------------|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | -40.0 | -35.0 | -30.0 | -25.0 | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 |
| 4.0 | 11.07 | 11.45 | 11.76 | 12.03 | 12.28 | 12.51 | 12.76 | | | | |
| 5.0 | 11.10 | 11.49 | 11.81 | 12.09 | 12.34 | 12.58 | 12.84 | | | | |
| 10.0 | 11.46 | 11.92 | 12.31 | 12.66 | 12.98 | 13.29 | 13.62 | 13.97 | | | |
| 15.0 | 11.92 | 12.45 | 12.91 | 13.32 | 13.71 | 14.09 | 14.49 | 14.91 | 15.39 | | |
| 20.0 | 12.48 | 13.07 | 13.60 | 14.08 | 14.54 | 14.99 | 15.45 | 15.95 | 16.49 | 17.11 | |
| 25.0 | 13.15 | 13.81 | 14.40 | 14.95 | 15.48 | 16.00 | 16.53 | 17.09 | 17.71 | 18.39 | 18.69 |
| 30.0 | 13.93 | 14.66 | 15.32 | 15.94 | 16.53 | 17.12 | 17.72 | 18.35 | 19.03 | 19.79 | 20.11 |
| 35.0 | 14.83 | 15.63 | 16.36 | 17.04 | 17.71 | 18.36 | 19.03 | 19.73 | 20.48 | 21.30 | 21.66 |
| 40.0 | 15.87 | 16.73 | 17.53 | 18.28 | 19.01 | 19.73 | 20.47 | 21.23 | 22.05 | 22.95 | 23.33 |
| 45.0 | | 17.97 | 18.83 | 19.65 | 20.45 | 21.24 | 22.04 | 22.88 | 23.76 | 24.72 | |
| 50.0 | | 19.36 | 20.29 | 21.17 | 22.03 | 22.89 | 23.76 | 24.66 | 25.62 | | |
| 54.4 | | | 21.69 | 22.64 | 23.55 | 24.47 | 25.40 | 26.36 | | | |

| Cond °C | Suction Mass Flow, g/s | | | | | | | | | | |
|------------|------------------------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| | -40.0 | -35.0 | -30.0 | -25.0 | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 |
| 4.0 | 51.80 | 65.50 | 81.70 | 101.00 | 124.50 | 152.50 | 185.50 | | | | |
| 5.0 | 51.80 | 65.50 | 81.70 | 101.00 | 124.50 | 152.50 | 186.00 | | | | |
| 10.0 | 51.70 | 65.60 | 81.80 | 101.00 | 124.50 | 152.50 | 186.00 | 226.00 | | | |
| 15.0 | 51.50 | 65.40 | 81.70 | 101.00 | 124.50 | 152.50 | 186.00 | 225.00 | 272.00 | | |
| 20.0 | 51.30 | 65.20 | 81.40 | 101.00 | 124.00 | 152.00 | 185.50 | 225.00 | 271.00 | 325.00 | |
| 25.0 | 50.90 | 64.70 | 81.00 | 100.50 | 123.50 | 151.50 | 184.50 | 224.00 | 270.00 | 324.00 | 348.00 |
| 30.0 | 50.40 | 64.20 | 80.30 | 99.50 | 122.50 | 150.00 | 183.00 | 222.00 | 268.00 | 322.00 | 346.00 |
| 35.0 | 49.80 | 63.50 | 79.40 | 98.50 | 121.50 | 149.00 | 181.50 | 220.00 | 266.00 | 319.00 | 343.00 |
| 40.0 | 49.10 | 62.60 | 78.40 | 97.20 | 120.00 | 147.00 | 179.50 | 218.00 | 263.00 | 316.00 | 340.00 |
| 45.0 | | 61.60 | 77.10 | 95.70 | 118.00 | 145.00 | 177.00 | 215.00 | 260.00 | 313.00 | |
| 50.0 | | 60.40 | 75.70 | 93.90 | 116.00 | 142.50 | 174.00 | 212.00 | 257.00 | | |
| 54.4 | | | 74.20 | 92.20 | 114.00 | 140.00 | 171.50 | 209.00 | | | |

COMPRESSOR MECHANICAL AND PHYSICAL DATA

| | |
|---|--|
| Displacement @ 50 Hz, m ³ /h | 35.3 |
| Length/Width, mm | 280/280 |
| Height, mm | 534 |
| Net Weight, kg | 63.1 |
| Rotalock Suction, inch | 1 3/4 |
| Rotalock Discharge, inch | 1 1/4 |
| Oil Quantity, l | 3.37 |
| 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 (0) |
| Sound Pressure @ 1m (LT), dBA | 69 |
| Sound Power (LT), dBA | 80 |
| Sound Power with Sound Shell (LT), dBA | 68 |
| Sound Conditions (LT, Temperatures: | -35 / 40 / 20 °C at 50 Hz |
| Evap./Cond./Suction at freq./speed) | |
| PED Category | 2 |
| Max. Internal Free Volume, l | 13.3 |
| High Side PS gauge, bar | 32 |
| Low Side PS gauge, bar | 22.6 |
| Refrigerant's GWP | 3922 |
| Refrigerant's classification | A1 |

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

| | |
|------------------------------|----------------|
| Maximum Operating Current, A | 29 |
| Locked Rotor Current, A | 118 |
| Winding Resistance, ohm | 1.24 |
| Default Enclosure Class | IP 54 (IEC 34) |

ACCESSORIES INCLUDED

| | |
|----------------------------------|---------------------------|
| Discharge Temperature Protection | Discharge line thermostat |
| Mounting Grommets | Standard |

ACCESSORIES OPTIONAL

| | |
|--------------------|-----------------------|
| Crankcase Heater | 66 W External |
| Liquid Injection | DTC Valve |
| Oil Control System | ALCO Trax-Oil OM3 |
| Sound Attenuation | Sound Shell |
| Rotalock valves | suction and discharge |

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 |
| TFC | 200-240 V / 3~ / 50 Hz | 200 | | Y | 1.00 |
| TFD | 460 V / 3~ / 60 Hz | 460 | | Y | 1.04 |
| TFC | 208-230 V / 3~ / 60 Hz | 220 | | Y | 2.18 |