



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 |
| 4.0 | 6.36 | 7.92 | 9.69 | 11.75 | | | | | |
| 5.0 | 6.36 | 7.91 | 9.69 | 11.75 | | | | | |
| 10.0 | 6.26 | 7.82 | 9.59 | 11.60 | 14.00 | | | | |
| 15.0 | 6.06 | 7.63 | 9.37 | 11.35 | 13.70 | | | | |
| 20.0 | 5.77 | 7.34 | 9.07 | 11.00 | 13.30 | 15.95 | | | |
| 25.0 | 5.42 | 6.98 | 8.68 | 10.60 | 12.80 | 15.35 | 18.35 | 19.70 | |
| 30.0 | 5.03 | 6.57 | 8.23 | 10.10 | 12.20 | 14.70 | 17.55 | 18.85 | 21.00 |
| 35.0 | 4.60 | 6.12 | 7.74 | 9.53 | 11.55 | 13.95 | 16.70 | 17.95 | 19.95 |
| 40.0 | | 5.65 | 7.22 | 8.94 | 10.90 | 13.15 | 15.80 | 17.00 | 18.90 |
| 45.0 | | | 6.69 | 8.34 | 10.20 | 12.35 | 14.85 | 16.00 | 17.80 |
| 50.0 | | | 6.16 | 7.73 | 9.49 | 11.50 | 13.90 | 14.95 | 16.70 |
| 55.0 | | | | 7.14 | 8.80 | 10.70 | 12.90 | 13.90 | 15.55 |
| 60.0 | | | | | 8.13 | 9.90 | 11.95 | 12.90 | 14.45 |

| Cond °C | Power, kW | | | | | | | | |
|------------|-----------|-------|-------|-------|------|------|------|------|------|
| | -25.0 | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 | 10.0 |
| 4.0 | 1.54 | 1.61 | 1.68 | 1.76 | | | | | |
| 5.0 | 1.55 | 1.62 | 1.68 | 1.76 | | | | | |
| 10.0 | 1.67 | 1.72 | 1.77 | 1.83 | 1.90 | | | | |
| 15.0 | 1.84 | 1.88 | 1.92 | 1.96 | 2.01 | | | | |
| 20.0 | 2.06 | 2.09 | 2.11 | 2.14 | 2.19 | 2.24 | | | |
| 25.0 | 2.33 | 2.35 | 2.37 | 2.39 | 2.41 | 2.46 | 2.52 | 2.55 | |
| 30.0 | 2.65 | 2.66 | 2.67 | 2.68 | 2.70 | 2.73 | 2.78 | 2.81 | 2.85 |
| 35.0 | 3.01 | 3.02 | 3.03 | 3.03 | 3.04 | 3.06 | 3.10 | 3.12 | 3.16 |
| 40.0 | | 3.43 | 3.43 | 3.43 | 3.43 | 3.44 | 3.47 | 3.49 | 3.52 |
| 45.0 | | | 3.88 | 3.87 | 3.87 | 3.88 | 3.90 | 3.92 | 3.95 |
| 50.0 | | | 4.37 | 4.36 | 4.36 | 4.37 | 4.38 | 4.40 | 4.42 |
| 55.0 | | | | 4.90 | 4.90 | 4.90 | 4.92 | 4.93 | 4.95 |
| 60.0 | | | | | 5.48 | 5.48 | 5.50 | 5.51 | 5.53 |

| 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 |
| 4.0 | 5.87 | 5.92 | 5.90 | 5.86 | | | | | |
| 5.0 | 5.83 | 5.88 | 5.87 | 5.83 | | | | | |
| 10.0 | 5.57 | 5.64 | 5.65 | 5.63 | 5.63 | | | | |
| 15.0 | 5.45 | 5.53 | 5.55 | 5.55 | 5.56 | | | | |
| 20.0 | 5.46 | 5.55 | 5.57 | 5.58 | 5.59 | 5.67 | | | |
| 25.0 | 5.59 | 5.68 | 5.71 | 5.71 | 5.73 | 5.81 | 5.98 | 6.09 | |
| 30.0 | 5.83 | 5.92 | 5.94 | 5.94 | 5.95 | 6.03 | 6.20 | 6.31 | 6.51 |
| 35.0 | 6.19 | 6.27 | 6.28 | 6.26 | 6.27 | 6.33 | 6.49 | 6.59 | 6.79 |
| 40.0 | | 6.71 | 6.71 | 6.67 | 6.66 | 6.71 | 6.85 | 6.95 | 7.14 |
| 45.0 | | | 7.22 | 7.17 | 7.13 | 7.15 | 7.27 | 7.36 | 7.54 |
| 50.0 | | | 7.82 | 7.74 | 7.67 | 7.66 | 7.75 | 7.83 | 7.99 |
| 55.0 | | | | 8.37 | 8.27 | 8.23 | 8.28 | 8.34 | 8.48 |
| 60.0 | | | | | 8.93 | 8.84 | 8.86 | 8.90 | 9.01 |

| 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 |
| 4.0 | 28.30 | 35.30 | 43.50 | 53.00 | | | | | |
| 5.0 | 28.40 | 35.50 | 43.60 | 53.20 | | | | | |
| 10.0 | 28.90 | 36.20 | 44.60 | 54.40 | 66.00 | | | | |
| 15.0 | 28.90 | 36.60 | 45.20 | 55.10 | 66.80 | | | | |
| 20.0 | 28.60 | 36.50 | 45.30 | 55.40 | 67.30 | 81.40 | | | |
| 25.0 | 27.90 | 36.10 | 45.10 | 55.40 | 67.40 | 81.60 | 98.60 | 106.50 | |
| 30.0 | 27.00 | 35.40 | 44.60 | 55.00 | 67.10 | 81.40 | 98.50 | 106.00 | 119.00 |
| 35.0 | 25.80 | 34.50 | 43.80 | 54.30 | 66.50 | 80.90 | 98.10 | 106.00 | 119.00 |
| 40.0 | | 33.40 | 42.90 | 53.50 | 65.70 | 80.20 | 97.40 | 105.50 | 118.50 |
| 45.0 | | | 41.80 | 52.50 | 64.80 | 79.30 | 96.70 | 104.50 | 117.50 |
| 50.0 | | | 40.80 | 51.60 | 63.90 | 78.40 | 95.80 | 104.00 | 117.00 |
| 55.0 | | | | 50.80 | 63.10 | 77.70 | 95.20 | 103.00 | 116.50 |
| 60.0 | | | | | 62.70 | 77.30 | 94.90 | 103.00 | 116.50 |

COMPRESSOR MECHANICAL AND PHYSICAL DATA

| | |
|----------------------------------------------------------------------------|----------------------------------------------|
| Displacement @ 50 Hz, m ³ /h | 14.4 |
| Length/Width, mm | 242/242 |
| Height, mm | 438 |
| Net Weight, kg | 37.5 |
| Rotalock Suction, inch | 1 1/4 |
| Rotalock Discharge, inch | 1 |
| Oil Quantity, l | 1.9 |
| 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 | 60 |
| Sound Power (MT), dBA | 71 |
| 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 | 4.20 |
| 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 | 1397 |
| Refrigerant's classification | A1 |

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

| | |
|------------------------------|----------------|
| Maximum Operating Current, A | 12.8 |
| Locked Rotor Current, A | 65.5 |
| Winding Resistance, ohm | 2.74 |
| Default Enclosure Class | IP 21 (IEC 34) |

ACCESSORIES INCLUDED

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

ACCESSORIES OPTIONAL

| | |
|--------------------|-----------------------|
| Crankcase Heater | 70 W External |
| Oil Control System | ALCO Trax-Oil OM3 |
| Sound Attenuation | Sound Shell (10dBA) |
| 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 |
| TF5 | 200-220 V / 3~ / 50 Hz | 200 | | Y | 2.09 |
| TFD | 460 V / 3~ / 60 Hz | 460 | | Y | 1.04 |
| TF5 | 200-230 V / 3~ / 60 Hz | 230 | | Y | 2.09 |