



Minimum Evaporating Temp. With:

- █ 20 °C Suction Gas Return Liquid injection
- █ Maximum Evaporating Temperature

Suction Return Temperature 20.0°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 |
| 5.0 | 9.65 | 12.25 | 15.45 | 19.35 | 24.00 | 29.40 | 35.80 | |
| 10.0 | 9.34 | 11.90 | 15.00 | 18.80 | 23.30 | 28.60 | 34.80 | |
| 15.0 | 9.00 | 11.50 | 14.55 | 18.20 | 22.60 | 27.70 | 33.70 | |
| 20.0 | 8.65 | 11.05 | 14.05 | 17.60 | 21.80 | 26.80 | 32.50 | 39.10 |
| 25.0 | 8.27 | 10.65 | 13.50 | 16.90 | 21.00 | 25.70 | 31.20 | 37.60 |
| 30.0 | 7.88 | 10.15 | 12.90 | 16.20 | 20.10 | 24.60 | 29.90 | 36.00 |
| 35.0 | 7.47 | 9.65 | 12.25 | 15.40 | 19.10 | 23.40 | 28.50 | 34.30 |
| 40.0 | 7.04 | 9.12 | 11.60 | 14.55 | 18.10 | 22.20 | 27.00 | 32.50 |
| 45.0 | 6.60 | 8.56 | 10.90 | 13.70 | 17.00 | 20.90 | 25.40 | 30.70 |
| 50.0 | 6.14 | 7.98 | 10.15 | 12.80 | 15.85 | 19.50 | 23.80 | 28.70 |
| 55.0 | 5.67 | 7.38 | 9.41 | 11.80 | 14.70 | 18.05 | 22.00 | 26.70 |

| Cond °C | Power, kW | | | | | | | |
|------------|-----------|-------|-------|-------|-------|-------|-------|-------|
| | -40.0 | -35.0 | -30.0 | -25.0 | -20.0 | -15.0 | -10.0 | -5.0 |
| 5.0 | 4.02 | 4.11 | 4.29 | 4.52 | 4.80 | 5.09 | 5.39 | |
| 10.0 | 4.27 | 4.36 | 4.54 | 4.79 | 5.09 | 5.42 | 5.77 | |
| 15.0 | 4.59 | 4.67 | 4.85 | 5.11 | 5.43 | 5.80 | 6.18 | |
| 20.0 | 4.98 | 5.05 | 5.23 | 5.50 | 5.84 | 6.23 | 6.65 | 7.09 |
| 25.0 | 5.48 | 5.53 | 5.70 | 5.97 | 6.32 | 6.74 | 7.20 | 7.68 |
| 30.0 | 6.08 | 6.11 | 6.27 | 6.54 | 6.90 | 7.33 | 7.82 | 8.34 |
| 35.0 | 6.81 | 6.81 | 6.95 | 7.22 | 7.59 | 8.04 | 8.55 | 9.11 |
| 40.0 | 7.68 | 7.65 | 7.78 | 8.03 | 8.40 | 8.86 | 9.40 | 9.98 |
| 45.0 | 8.71 | 8.65 | 8.75 | 8.99 | 9.35 | 9.82 | 10.35 | 11.00 |
| 50.0 | 9.92 | 9.81 | 9.88 | 10.10 | 10.45 | 10.95 | 11.50 | 12.15 |
| 55.0 | 11.30 | 11.15 | 11.20 | 11.40 | 11.75 | 12.20 | 12.80 | 13.45 |

| Cond °C | Current at 400 V, A | | | | | | | |
|------------|---------------------|-------|-------|-------|-------|-------|-------|-------|
| | -40.0 | -35.0 | -30.0 | -25.0 | -20.0 | -15.0 | -10.0 | -5.0 |
| 5.0 | 8.95 | 9.32 | 9.75 | 10.22 | 10.71 | 11.20 | 11.67 | |
| 10.0 | 9.74 | 10.02 | 10.38 | 10.81 | 11.27 | 11.75 | 12.23 | |
| 15.0 | 10.46 | 10.67 | 10.97 | 11.35 | 11.79 | 12.27 | 12.77 | |
| 20.0 | 11.17 | 11.30 | 11.55 | 11.90 | 12.33 | 12.81 | 13.34 | 13.88 |
| 25.0 | 11.90 | 11.96 | 12.17 | 12.49 | 12.91 | 13.41 | 13.96 | 14.55 |
| 30.0 | 12.69 | 12.70 | 12.86 | 13.17 | 13.58 | 14.10 | 14.69 | 15.34 |
| 35.0 | 13.59 | 13.55 | 13.68 | 13.97 | 14.40 | 14.94 | 15.58 | 16.29 |
| 40.0 | 14.64 | 14.56 | 14.66 | 14.95 | 15.39 | 15.96 | 16.65 | 17.44 |
| 45.0 | 15.89 | 15.77 | 15.86 | 16.14 | 16.60 | 17.21 | 17.96 | 18.82 |
| 50.0 | 17.38 | 17.22 | 17.30 | 17.59 | 18.07 | 18.73 | 19.55 | 20.49 |
| 55.0 | 19.14 | 18.96 | 19.03 | 19.34 | 19.85 | 20.57 | 21.45 | 22.49 |

| Cond °C | Suction Mass Flow, g/s | | | | | | | |
|------------|------------------------|-------|-------|-------|--------|--------|--------|--------|
| | -40.0 | -35.0 | -30.0 | -25.0 | -20.0 | -15.0 | -10.0 | -5.0 |
| 5.0 | 42.80 | 54.30 | 68.70 | 86.30 | 107.50 | 132.50 | 162.00 | |
| 10.0 | 42.70 | 54.50 | 69.00 | 86.70 | 108.00 | 133.00 | 162.50 | |
| 15.0 | 42.60 | 54.60 | 69.20 | 87.00 | 108.50 | 133.50 | 163.00 | |
| 20.0 | 42.50 | 54.50 | 69.30 | 87.10 | 108.50 | 134.00 | 163.50 | 198.00 |
| 25.0 | 42.20 | 54.40 | 69.20 | 87.10 | 108.50 | 133.50 | 163.50 | 198.00 |
| 30.0 | 41.90 | 54.10 | 68.90 | 86.80 | 108.00 | 133.50 | 163.00 | 198.00 |
| 35.0 | 41.50 | 53.70 | 68.50 | 86.30 | 107.50 | 133.00 | 162.50 | 197.00 |
| 40.0 | 40.90 | 53.20 | 67.90 | 85.60 | 107.00 | 132.00 | 161.50 | 196.00 |
| 45.0 | 40.40 | 52.50 | 67.20 | 84.70 | 105.50 | 130.50 | 160.00 | 195.00 |
| 50.0 | 39.70 | 51.80 | 66.20 | 83.60 | 104.50 | 129.00 | 158.50 | 193.00 |
| 55.0 | 39.00 | 50.90 | 65.10 | 82.20 | 102.50 | 127.50 | 156.50 | 191.50 |

COMPRESSOR MECHANICAL AND PHYSICAL DATA

| | |
|--|--|
| Displacement @ 50 Hz, m ³ /h | 42.4 |
| Length/Width, mm | 280/280 |
| Height, mm | 552 |
| Net Weight, kg | 66.2 |
| 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 | 72 |
| Sound Power (LT), dBA | 83 |
| Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed) | -35 / 40 / 20 °C at 50 Hz |
| 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 | 1397 |
| Refrigerant's classification | A1 |

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

| | |
|------------------------------|----------------|
| Maximum Operating Current, A | 30 |
| Locked Rotor Current, A | 139 |
| Winding Resistance, ohm | 1.09 |
| 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 |
| TFD | 460 V / 3~ / 60 Hz | 460 | | Y | 1.04 |