



Minimum Evaporating Temp. With:

- 20 K Suction Superheat
- 20 °C Suction Gas Return
- 0 °C Suction Gas Return
- 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 | 0.0 |
| 10.0 | 4.40 | 5.90 | 7.84 | 10.25 | 13.25 | 16.80 | 21.00 | | |
| 15.0 | 4.14 | 5.57 | 7.41 | 9.71 | 12.50 | 15.90 | 19.90 | 24.60 | |
| 20.0 | | 5.24 | 6.99 | 9.16 | 11.80 | 15.00 | 18.75 | 23.20 | 28.30 |
| 25.0 | | 4.91 | 6.56 | 8.61 | 11.10 | 14.10 | 17.65 | 21.80 | 26.70 |
| 30.0 | | | 6.13 | 8.06 | 10.40 | 13.20 | 16.55 | 20.50 | 25.10 |
| 35.0 | | | 5.70 | 7.51 | 9.70 | 12.35 | 15.45 | 19.15 | 23.40 |
| 40.0 | | | | 6.95 | 8.99 | 11.45 | 14.35 | 17.80 | 21.80 |
| 45.0 | | | | 6.39 | 8.29 | 10.55 | 13.30 | 16.50 | 20.20 |
| 50.0 | | | | | 7.57 | 9.67 | 12.20 | 15.15 | 18.65 |
| 55.0 | | | | | | 8.78 | 11.10 | 13.80 | 17.00 |
| 60.0 | | | | | | 7.88 | 9.97 | 12.45 | |
| 62.0 | | | | | | 7.51 | 9.53 | 11.95 | |

| Cond °C | Power, kW | | | | | | | | |
|------------|-----------|-------|-------|-------|-------|-------|-------|------|------|
| | -40.0 | -35.0 | -30.0 | -25.0 | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 |
| 10.0 | 2.00 | 2.26 | 2.50 | 2.71 | 2.86 | 2.96 | 2.98 | | |
| 15.0 | 2.07 | 2.37 | 2.65 | 2.90 | 3.12 | 3.27 | 3.36 | 3.37 | |
| 20.0 | | 2.47 | 2.80 | 3.10 | 3.37 | 3.59 | 3.75 | 3.83 | 3.83 |
| 25.0 | | 2.57 | 2.93 | 3.29 | 3.61 | 3.90 | 4.13 | 4.29 | 4.37 |
| 30.0 | | | 3.06 | 3.46 | 3.85 | 4.19 | 4.50 | 4.74 | 4.90 |
| 35.0 | | | 3.17 | 3.62 | 4.06 | 4.48 | 4.85 | 5.17 | 5.42 |
| 40.0 | | | | 3.76 | 4.26 | 4.74 | 5.19 | 5.59 | 5.93 |
| 45.0 | | | | 3.87 | 4.43 | 4.98 | 5.50 | 5.98 | 6.41 |
| 50.0 | | | | | 4.58 | 5.19 | 5.79 | 6.35 | 6.87 |
| 55.0 | | | | | | 5.37 | 6.04 | 6.69 | 7.29 |
| 60.0 | | | | | | 5.51 | 6.26 | 6.99 | |
| 62.0 | | | | | | 5.55 | 6.33 | 7.10 | |

| 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 |
| 10.0 | 5.39 | 5.66 | 5.92 | 6.16 | 6.34 | 6.45 | 6.46 | | |
| 15.0 | 5.46 | 5.76 | 6.07 | 6.37 | 6.63 | 6.82 | 6.92 | 6.92 | |
| 20.0 | | 5.87 | 6.24 | 6.59 | 6.92 | 7.20 | 7.41 | 7.51 | 7.50 |
| 25.0 | | 5.98 | 6.40 | 6.82 | 7.22 | 7.59 | 7.90 | 8.12 | 8.24 |
| 30.0 | | | 6.55 | 7.04 | 7.52 | 7.98 | 8.40 | 8.74 | 8.98 |
| 35.0 | | | 6.68 | 7.24 | 7.81 | 8.37 | 8.89 | 9.35 | 9.72 |
| 40.0 | | | | 7.42 | 8.08 | 8.73 | 9.36 | 9.95 | 10.46 |
| 45.0 | | | | 7.57 | 8.31 | 9.07 | 9.81 | 10.52 | 11.17 |
| 50.0 | | | | | 8.51 | 9.37 | 10.23 | 11.07 | 11.87 |
| 55.0 | | | | | | 9.64 | 10.62 | 11.59 | 12.52 |
| 60.0 | | | | | | 9.85 | 10.95 | 12.05 | |
| 62.0 | | | | | | 9.92 | 11.07 | 12.23 | |

| 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 |
| 10.0 | 20.50 | 27.60 | 36.70 | 48.20 | 62.30 | 79.50 | 99.90 | | |
| 15.0 | 19.95 | 26.90 | 35.90 | 47.20 | 61.00 | 77.80 | 98.00 | 122.00 | |
| 20.0 | | 26.30 | 35.10 | 46.10 | 59.70 | 76.20 | 96.00 | 119.50 | 147.00 |
| 25.0 | | 25.60 | 34.30 | 45.10 | 58.40 | 74.60 | 93.90 | 117.00 | 144.00 |
| 30.0 | | | 33.40 | 44.00 | 57.00 | 72.80 | 91.90 | 114.50 | 141.50 |
| 35.0 | | | 32.40 | 42.80 | 55.60 | 71.10 | 89.70 | 112.00 | 138.50 |
| 40.0 | | | | 41.60 | 54.00 | 69.20 | 87.40 | 109.50 | 135.00 |
| 45.0 | | | | 40.20 | 52.40 | 67.20 | 85.10 | 106.50 | 132.00 |
| 50.0 | | | | | 50.70 | 65.10 | 82.60 | 103.50 | 129.00 |
| 55.0 | | | | | | 62.90 | 80.00 | 100.50 | 125.50 |
| 60.0 | | | | | | 60.50 | 77.20 | 97.60 | |
| 62.0 | | | | | | 59.50 | 76.10 | 96.30 | |

COMPRESSOR MECHANICAL AND PHYSICAL DATA

| | |
|--|--|
| Number of cylinders | 2 |
| Displacement @ 50 Hz, m ³ /h | 28.0 |
| Bore/Stroke, mm | 66.7/46.1 |
| Length/Width, mm | 590/330 |
| Height, mm | 470 |
| Net Weight, kg | 131 |
| Gross Weight, kg | 140 |
| Rotalock Discharge, inch | 7/8 |
| Suction, inch | 1 3/8 |
| Drive Frequency Range, Hz | 25 - 60 |
| Oil Quantity, l | 2.3 |
| 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 | 295 x 279 (14) |
| Sound Pressure @ 1m (MT), dBA | 64 |
| Sound Power (MT), dBA | 75 |
| Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed) | -10 / 45 / 20 °C at 50 Hz |
| High Side PS gauge, bar | 32.5 |
| Low Side PS gauge, bar | 22.5 |
| Refrigerant's GWP | 2107 |
| Refrigerant's classification | A1 |

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

| | |
|------------------------------|----------------|
| Maximum Operating Current, A | 13.4 |
| Locked Rotor Current, A | 55 |
| Default Enclosure Class | IP 54 (IEC 34) |

ACCESSORIES INCLUDED

| | |
|---------------------|-------------|
| Mounting Springs | 4 |
| Oil Pressure Switch | OPS2 Sensor |

ACCESSORIES OPTIONAL

| | |
|---------------------|------------------------------|
| Crankcase Heater | 70 W Internal |
| Check Valve | For unloaded start operation |
| Additional Cooling | 70 W Vertical Air Flow Fan |
| Unloaded start | Available |
| Deep Oil Sump | Mounted |
| Enclosure Class | IP 56 |
| Adapter Kit | For Parallel Operation |
| Oil Pressure Switch | OPS2 Electronic Switch |
| Oil Control System | ALCO Trax-Oil OM3 |

MOTOR OPTIONS

| Motor Code | Power Supply | Nominal Voltage, V | Start Connection | DOL Connection | Amps Factor |
|-------------------|------------------------|---------------------------|-------------------------|-----------------------|--------------------|
| AWM | 380-420 V / 3~ / 50 Hz | 400 | YY/Y | Y | 1.00 |
| EWL | 220-240 V / 3~ / 50 Hz | 230 | Y/DELTA | DELTA | 1.73 |
| EWL | 380-420 V / 3~ / 50 Hz | 400 | | Y | 1.00 |
| EWM | 380-420 V / 3~ / 50 Hz | 400 | Y/DELTA | DELTA | 1.00 |
| EWY | 500-550 V / 3~ / 50 Hz | 525 | Y/DELTA | DELTA | 0.76 |
| AWR | 220-240 V / 3~ / 50 Hz | 230 | YY/Y | Y | 1.73 |
| AWY | 500-550 V / 3~ / 50 Hz | 525 | YY/Y | Y | 0.76 |
| TWY | 500-550 V / 3~ / 50 Hz | 525 | | DELTA | 0.76 |
| EWK | 220-240 V / 3~ / 60 Hz | 230 | Y/DELTA | DELTA | 2.10 |
| EWK | 380-420 V / 3~ / 60 Hz | 380 | | Y | 1.20 |
| EWD | 440-480 V / 3~ / 60 Hz | 460 | Y/DELTA | DELTA | 1.00 |
| AWX | 380 V / 3~ / 60 Hz | 380 | YY/Y | Y | 1.20 |
| AWD | 440-480 V / 3~ / 60 Hz | 460 | YY/Y | Y | 1.00 |