



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return + fan
- Maximum Evaporating Temperature

Suction Return Temperature 20.0°C

Evaporating Temperature, °C

Liquid Subcooling 0.0K

| Cond °C | Cooling Capacity, kW | | | | | | | | | |
|------------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 50.0- | 45.0- | 40.0- | 35.0- | 30.0- | 25.0- | 20.0- | 15.0- | 10.0- | 5.0- |
| 25.0 | 1.06 | 1.66 | 2.42 | 3.37 | 4.54 | 5.95 | 7.62 | 9.58 | 11.85 | 14.45 |
| 30.0 | 0.90 | 1.46 | 2.18 | 3.08 | 4.19 | 5.53 | 7.12 | 8.99 | 11.15 | 13.65 |
| 35.0 | | 1.27 | 1.95 | 2.80 | 3.85 | 5.12 | 6.64 | 8.42 | 10.50 | 12.85 |
| 40.0 | | 1.08 | 1.72 | 2.53 | 3.52 | 4.72 | 6.16 | 7.85 | | |
| 45.0 | | | | 2.26 | 3.20 | 4.33 | 5.69 | | | |
| 50.0 | | | | 2.00 | 2.88 | 3.95 | 5.24 | | | |
| 55.0 | | | | 1.75 | 2.58 | 3.58 | 4.80 | | | |

| Cond °C | Power, kW | | | | | | | | | |
|------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| | 50.0- | 45.0- | 40.0- | 35.0- | 30.0- | 25.0- | 20.0- | 15.0- | 10.0- | 5.0- |
| 25.0 | 1.20 | 1.42 | 1.66 | 1.92 | 2.17 | 2.42 | 2.64 | 2.84 | 3.01 | 3.12 |
| 30.0 | 1.18 | 1.42 | 1.68 | 1.96 | 2.24 | 2.52 | 2.80 | 3.05 | 3.26 | 3.44 |
| 35.0 | | 1.40 | 1.68 | 1.98 | 2.30 | 2.62 | 2.94 | 3.23 | 3.51 | 3.75 |
| 40.0 | | 1.38 | 1.68 | 2.01 | 2.35 | 2.71 | 3.07 | 3.41 | | |
| 45.0 | | | | 2.02 | 2.40 | 2.79 | 3.18 | | | |
| 50.0 | | | | 2.03 | 2.43 | 2.86 | 3.29 | | | |
| 55.0 | | | | 2.03 | 2.46 | 2.91 | 3.39 | | | |

| Cond °C | Current at 400 V, A | | | | | | | | | |
|------------|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| | 50.0- | 45.0- | 40.0- | 35.0- | 30.0- | 25.0- | 20.0- | 15.0- | 10.0- | 5.0- |
| 25.0 | 3.93 | 4.09 | 4.30 | 4.54 | 4.80 | 5.06 | 5.31 | 5.54 | 5.72 | 5.86 |
| 30.0 | 3.92 | 4.09 | 4.32 | 4.58 | 4.87 | 5.18 | 5.48 | 5.77 | 6.03 | 6.25 |
| 35.0 | | 4.08 | 4.32 | 4.61 | 4.94 | 5.28 | 5.64 | 5.99 | 6.32 | 6.63 |
| 40.0 | | 4.07 | 4.32 | 4.63 | 4.99 | 5.38 | 5.79 | 6.20 | | |
| 45.0 | | | | 4.65 | 5.04 | 5.47 | 5.93 | | | |
| 50.0 | | | | 4.65 | 5.08 | 5.55 | 6.06 | | | |
| 55.0 | | | | 4.65 | 5.10 | 5.62 | 6.18 | | | |

| Cond °C | Mass Flow, g/s | | | | | | | | | |
|------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 50.0- | 45.0- | 40.0- | 35.0- | 30.0- | 25.0- | 20.0- | 15.0- | 10.0- | 5.0- |
| 25.0 | 5.41 | 8.43 | 12.30 | 17.20 | 23.30 | 30.60 | 39.30 | 49.60 | 61.60 | 75.60 |
| 30.0 | 4.73 | 7.68 | 11.50 | 16.30 | 22.20 | 29.40 | 38.00 | 48.10 | 60.00 | 73.90 |
| 35.0 | | 6.90 | 10.60 | 15.30 | 21.10 | 28.20 | 36.60 | 46.70 | 58.40 | 72.20 |
| 40.0 | | 6.11 | 9.74 | 14.35 | 20.00 | 26.90 | 35.30 | 45.20 | | |
| 45.0 | | | | 13.30 | 18.90 | 25.70 | 33.90 | | | |
| 50.0 | | | | 12.30 | 17.75 | 24.40 | 32.50 | | | |
| 55.0 | | | | 11.25 | 16.60 | 23.20 | 31.10 | | | |

COMPRESSOR MECHANICAL AND PHYSICAL DATA

| | |
|---|--|
| Number of cylinders | 2 |
| Displacement @ 50 Hz, m ³ /h | 18.2 |
| Bore/Stroke, mm | 60.4/36.5 |
| Length/Width, mm | 470/330 |
| Height, mm | 385 |
| Net Weight, kg | 85 |
| Gross Weight, kg | 91 |
| Suction, inch | 1 1/8 |
| Discharge, inch | 5/8 |
| Oil Quantity, l | 2 |
| Frequency Range, Hz | 25 - 60 |
| 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 (14.0) |
| Sound Pressure @ 1m, dBA | 52 |
| Sound Power, dBA | 63 |
| High Side PS, bar(g) | 32.5 |
| Low Side PS, bar(g) | 22.5 |
| Refrigerant's GWP | 1810 |
| Refrigerant's classification | A1 |

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

| | |
|------------------------------|----------------|
| Maximum Operating Current, A | 7.3 |
| Locked Rotor Current, A | 53 |
| Default Enclosure Class | IP 54 (IEC 34) |

ACCESSORIES INCLUDED

| | |
|------------------|---|
| Mounting Springs | 4 |
|------------------|---|

ACCESSORIES OPTIONAL

| | |
|--------------------|--|
| Additional Cooling | 1 or 2 ways water Coil |
| Additional Cooling | 70 W Vertical Air Flow Fan |
| Additional Cooling | 25 W Horizontal Air Flow Fan |
| Crankcase Heater | 70 W Internal |
| Adapter Kit | For Parallel Operation |
| Oil Control System | ALCO Trax-Oil OM3 |
| Inverter | Emerson Industrial Automation, Unidrive M200 04 400 135 |

MOTOR OPTIONS

| Motor Code | Power Supply | Nominal Voltage, V | Start Connection | DOL Connection | Amps Factor |
|-------------------|------------------------|---------------------------|-------------------------|-----------------------|--------------------|
| EWL | 380-420 V / 3~ / 50 Hz | 400 | | Y | 1.00 |
| EWL | 220-240 V / 3~ / 50 Hz | 230 | Y/DELTA | DELTA | 1.73 |
| EWM | 380-420 V / 3~ / 50 Hz | 400 | Y/DELTA | DELTA | 1.00 |
| 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 |