



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

| Cond °C | Cooling Capacity, kW | | | | | | | | |
|------------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 | 10.0 | 12.5 |
| 10.0 | 24.80 | 31.60 | 39.70 | | | | | | |
| 15.0 | 23.20 | 29.70 | 37.50 | 46.80 | | | | | |
| 20.0 | 21.50 | 27.80 | 35.30 | 44.20 | 54.60 | | | | |
| 25.0 | 19.90 | 25.90 | 33.10 | 41.60 | 51.50 | 63.10 | | | |
| 30.0 | 18.30 | 24.00 | 30.90 | 39.00 | 48.50 | 59.60 | 64.50 | 72.40 | 79.50 |
| 35.0 | 16.70 | 22.10 | 28.70 | 36.40 | 45.40 | 56.00 | 60.70 | 68.30 | 75.10 |
| 40.0 | 15.10 | 20.30 | 26.50 | 33.80 | 42.40 | 52.50 | 57.00 | 64.20 | 70.70 |
| 45.0 | 13.60 | 18.50 | 24.40 | 31.30 | 39.40 | 49.00 | 53.30 | 60.10 | 66.30 |
| 50.0 | 12.10 | 16.75 | 22.30 | 28.80 | 36.50 | 45.50 | 49.60 | 56.10 | 62.00 |
| 55.0 | 10.70 | 15.05 | 20.20 | 26.30 | 33.50 | 42.10 | 45.90 | 52.10 | 57.70 |
| 60.0 | 9.31 | 13.40 | 18.20 | 23.90 | 30.70 | 38.70 | 42.30 | 48.10 | 53.40 |
| 62.0 | | | 17.40 | 22.90 | 29.50 | 37.30 | 40.80 | 46.50 | 51.70 |

| Cond °C | Power, kW | | | | | | | | |
|------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
| | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 | 10.0 | 12.5 |
| 10.0 | 6.43 | 6.83 | 7.08 | | | | | | |
| 15.0 | 6.85 | 7.39 | 7.81 | 8.05 | | | | | |
| 20.0 | 7.20 | 7.88 | 8.46 | 8.89 | 9.14 | | | | |
| 25.0 | 7.49 | 8.31 | 9.04 | 9.66 | 10.10 | 10.35 | | | |
| 30.0 | 7.74 | 8.68 | 9.56 | 10.35 | 11.00 | 11.50 | 11.60 | 11.75 | 11.75 |
| 35.0 | 7.95 | 9.00 | 10.05 | 11.00 | 11.85 | 12.55 | 12.75 | 13.05 | 13.20 |
| 40.0 | 8.12 | 9.29 | 10.45 | 11.60 | 12.65 | 13.55 | 13.85 | 14.30 | 14.55 |
| 45.0 | 8.27 | 9.55 | 10.85 | 12.15 | 13.35 | 14.50 | 14.90 | 15.45 | 15.85 |
| 50.0 | 8.41 | 9.79 | 11.20 | 12.65 | 14.05 | 15.35 | 15.85 | 16.55 | 17.10 |
| 55.0 | 8.53 | 10.00 | 11.55 | 13.15 | 14.70 | 16.25 | 16.80 | 17.65 | 18.30 |
| 60.0 | 8.66 | 10.20 | 11.90 | 13.60 | 15.35 | 17.05 | 17.70 | 18.70 | 19.45 |
| 62.0 | | | 12.00 | 13.80 | 15.60 | 17.35 | 18.05 | 19.10 | 19.95 |

| Cond °C | Current at 400 V, A | | | | | | | | |
|------------|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 | 10.0 | 12.5 |
| 10.0 | 15.89 | 16.28 | 16.51 | | | | | | |
| 15.0 | 16.20 | 16.76 | 17.20 | 17.45 | | | | | |
| 20.0 | 16.51 | 17.24 | 17.89 | 18.38 | 18.66 | | | | |
| 25.0 | 16.81 | 17.71 | 18.56 | 19.29 | 19.85 | 20.17 | | | |
| 30.0 | 17.10 | 18.16 | 19.20 | 20.17 | 21.00 | 21.64 | 21.83 | 22.02 | 22.10 |
| 35.0 | 17.37 | 18.58 | 19.82 | 21.02 | 22.12 | 23.07 | 23.39 | 23.79 | 24.06 |
| 40.0 | 17.60 | 18.97 | 20.40 | 21.83 | 23.20 | 24.45 | 24.90 | 25.51 | 25.96 |
| 45.0 | 17.80 | 19.32 | 20.93 | 22.59 | 24.22 | 25.77 | 26.35 | 27.17 | 27.80 |
| 50.0 | 17.96 | 19.62 | 21.42 | 23.29 | 25.18 | 27.03 | 27.74 | 28.77 | 29.58 |
| 55.0 | 18.06 | 19.86 | 21.84 | 23.93 | 26.08 | 28.22 | 29.06 | 30.29 | 31.28 |
| 60.0 | 18.11 | 20.05 | 22.20 | 24.51 | 26.90 | 29.33 | 30.30 | 31.73 | 32.90 |
| 62.0 | | | 22.32 | 24.72 | 27.21 | 29.75 | 30.77 | 32.28 | 33.52 |

| Cond °C | Suction Mass Flow, g/s | | | | | | | | |
|------------|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 | 10.0 | 12.5 |
| 10.0 | 137.00 | 171.50 | 212.00 | | | | | | |
| 15.0 | 133.50 | 167.50 | 208.00 | 255.00 | | | | | |
| 20.0 | 129.00 | 163.50 | 204.00 | 250.00 | 304.00 | | | | |
| 25.0 | 124.50 | 159.00 | 199.00 | 245.00 | 299.00 | 359.00 | | | |
| 30.0 | 120.00 | 154.50 | 194.50 | 240.00 | 293.00 | 354.00 | 380.00 | 422.00 | 459.00 |
| 35.0 | 115.00 | 149.50 | 189.50 | 235.00 | 288.00 | 348.00 | 374.00 | 416.00 | 453.00 |
| 40.0 | 110.00 | 144.50 | 184.00 | 230.00 | 282.00 | 342.00 | 368.00 | 410.00 | 447.00 |
| 45.0 | 104.50 | 139.00 | 178.50 | 224.00 | 276.00 | 336.00 | 362.00 | 403.00 | 440.00 |
| 50.0 | 99.20 | 133.50 | 173.00 | 218.00 | 270.00 | 329.00 | 355.00 | 397.00 | 434.00 |
| 55.0 | 93.50 | 128.00 | 167.50 | 212.00 | 264.00 | 323.00 | 349.00 | 390.00 | 427.00 |
| 60.0 | 87.80 | 122.50 | 161.50 | 206.00 | 257.00 | 316.00 | 342.00 | 384.00 | 421.00 |
| 62.0 | | | 159.00 | 204.00 | 255.00 | 314.00 | 339.00 | 381.00 | 418.00 |

COMPRESSOR MECHANICAL AND PHYSICAL DATA

| | |
|---|--|
| Number of cylinders | 4 |
| Displacement @ 50 Hz, m ³ /h | 84.7 |
| Bore/Stroke, mm | 74.7/55.6 |
| Length/Width, mm | 700/490 |
| Height, mm | 495 |
| Net Weight, kg | 198 |
| Gross Weight, kg | 214 |
| Rotalock Discharge, inch | 1 3/8 |
| Suction, inch | 2 1/8 |
| Drive Frequency Range, Hz | 25 - 60 |
| Oil Quantity, l | 3.3 |
| 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 | 381 x 305 (18) |
| Sound Pressure @ 1m, dBA | 72 |
| Sound Power, dBA | 83 |
| High Side PS gauge, bar | 32.5 |
| Low Side PS gauge, bar | 22.5 |
| Refrigerant's GWP | 1430 |
| Refrigerant's classification | A1 |

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

| | |
|------------------------------|----------------|
| Maximum Operating Current, A | 42.4 |
| Locked Rotor Current, A | 175 |
| Default Enclosure Class | IP 54 (IEC 34) |

ACCESSORIES INCLUDED

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

ACCESSORIES OPTIONAL

| | |
|----------------------------------|------------------------------|
| Capacity Control | Capacity Steps 50% |
| Enclosure Class | IP 56 |
| Adapter Kit | For Parallel Operation |
| Check Valve | For unloaded start operation |
| Oil Control System | ALCO Trax-Oil OM3 |
| Additional Cooling | 70 W Vertical Air Flow Fan |
| Crankcase Heater | 100 W Internal |
| Discharge Temperature Protection | Head PTC sensor |
| Oil Pressure Switch | OPS2 Electronic Switch |
| Unloaded start | Available |
| Deep Oil Sump | Mounted |

MOTOR OPTIONS

| <i>Motor Code</i> | <i>Power Supply</i> | <i>Nominal Voltage, V</i> | <i>Start Connection</i> | <i>DOL Connection</i> | <i>Amps Factor</i> |
|-------------------|------------------------|---------------------------|-------------------------|-----------------------|--------------------|
| 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 |
| AWC | 208-230 V / 3~ / 60 Hz | 230 | YY/Y | Y | 2.19 |
| 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 |