



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 | 20.60 | 26.20 | 33.00 | | | | | | |
| 15.0 | 19.20 | 24.60 | 31.20 | 38.90 | | | | | |
| 20.0 | 17.80 | 23.00 | 29.30 | 36.80 | 45.50 | | | | |
| 25.0 | 16.45 | 21.50 | 27.50 | 34.60 | 42.90 | 52.60 | | | |
| 30.0 | 15.10 | 19.90 | 25.60 | 32.40 | 40.40 | 49.70 | 53.80 | 60.40 | 66.30 |
| 35.0 | 13.75 | 18.30 | 23.80 | 30.20 | 37.80 | 46.70 | 50.60 | 57.00 | 62.70 |
| 40.0 | 12.40 | 16.80 | 22.00 | 28.10 | 35.30 | 43.80 | 47.50 | 53.60 | 59.00 |
| 45.0 | 11.15 | 15.25 | 20.20 | 26.00 | 32.80 | 40.80 | 44.40 | 50.20 | 55.40 |
| 50.0 | 9.89 | 13.80 | 18.40 | 23.90 | 30.30 | 37.90 | 41.30 | 46.80 | 51.80 |
| 55.0 | 8.69 | 12.35 | 16.70 | 21.80 | 27.90 | 35.10 | 38.30 | 43.50 | 48.20 |
| 60.0 | 7.55 | 11.00 | 15.00 | 19.80 | 25.50 | 32.20 | 35.20 | 40.10 | 44.60 |
| 62.0 | | | 14.35 | 19.00 | 24.50 | 31.10 | 34.00 | 38.80 | 43.20 |

| Cond °C | Power, kW | | | | | | | | |
|------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
| | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 | 10.0 | 12.5 |
| 10.0 | 5.14 | 5.47 | 5.67 | | | | | | |
| 15.0 | 5.51 | 5.95 | 6.29 | 6.49 | | | | | |
| 20.0 | 5.83 | 6.39 | 6.86 | 7.21 | 7.40 | | | | |
| 25.0 | 6.11 | 6.77 | 7.38 | 7.88 | 8.24 | 8.43 | | | |
| 30.0 | 6.35 | 7.12 | 7.85 | 8.49 | 9.02 | 9.39 | 9.49 | 9.58 | 9.60 |
| 35.0 | 6.57 | 7.44 | 8.28 | 9.06 | 9.75 | 10.30 | 10.50 | 10.70 | 10.80 |
| 40.0 | 6.76 | 7.72 | 8.68 | 9.60 | 10.45 | 11.15 | 11.40 | 11.75 | 12.00 |
| 45.0 | 6.94 | 7.99 | 9.05 | 10.10 | 11.10 | 12.00 | 12.30 | 12.75 | 13.10 |
| 50.0 | 7.10 | 8.23 | 9.40 | 10.55 | 11.70 | 12.75 | 13.15 | 13.70 | 14.15 |
| 55.0 | 7.25 | 8.47 | 9.73 | 11.00 | 12.30 | 13.50 | 14.00 | 14.65 | 15.20 |
| 60.0 | 7.41 | 8.69 | 10.05 | 11.45 | 12.85 | 14.25 | 14.75 | 15.55 | 16.15 |
| 62.0 | | | 10.20 | 11.60 | 13.10 | 14.50 | 15.10 | 15.90 | 16.55 |

| 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 | 13.42 | 13.70 | 13.86 | | | | | | |
| 15.0 | 13.70 | 14.13 | 14.46 | 14.64 | | | | | |
| 20.0 | 13.98 | 14.55 | 15.05 | 15.43 | 15.63 | | | | |
| 25.0 | 14.26 | 14.96 | 15.63 | 16.20 | 16.63 | 16.87 | | | |
| 30.0 | 14.52 | 15.36 | 16.19 | 16.96 | 17.61 | 18.10 | 18.23 | 18.37 | 18.40 |
| 35.0 | 14.77 | 15.74 | 16.73 | 17.69 | 18.56 | 19.29 | 19.54 | 19.84 | 20.02 |
| 40.0 | 15.00 | 16.10 | 17.25 | 18.39 | 19.47 | 20.45 | 20.80 | 21.27 | 21.61 |
| 45.0 | 15.21 | 16.43 | 17.73 | 19.06 | 20.35 | 21.58 | 22.03 | 22.67 | 23.15 |
| 50.0 | 15.39 | 16.73 | 18.18 | 19.69 | 21.20 | 22.66 | 23.21 | 24.01 | 24.64 |
| 55.0 | 15.53 | 17.00 | 18.60 | 20.28 | 21.99 | 23.69 | 24.35 | 25.31 | 26.08 |
| 60.0 | 15.65 | 17.23 | 18.97 | 20.83 | 22.74 | 24.67 | 25.43 | 26.56 | 27.47 |
| 62.0 | | | 19.11 | 21.03 | 23.03 | 25.05 | 25.85 | 27.04 | 28.00 |

| 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 | 114.00 | 142.50 | 176.50 | | | | | | |
| 15.0 | 110.50 | 139.00 | 173.00 | 212.00 | | | | | |
| 20.0 | 107.00 | 135.50 | 169.00 | 208.00 | 253.00 | | | | |
| 25.0 | 103.00 | 132.00 | 165.50 | 204.00 | 249.00 | 300.00 | | | |
| 30.0 | 99.10 | 128.00 | 161.50 | 200.00 | 244.00 | 295.00 | 317.00 | 352.00 | 383.00 |
| 35.0 | 94.80 | 123.50 | 157.00 | 195.50 | 240.00 | 290.00 | 312.00 | 347.00 | 378.00 |
| 40.0 | 90.40 | 119.50 | 152.50 | 191.00 | 235.00 | 285.00 | 307.00 | 342.00 | 373.00 |
| 45.0 | 85.80 | 115.00 | 148.00 | 186.00 | 230.00 | 280.00 | 302.00 | 336.00 | 368.00 |
| 50.0 | 81.00 | 110.00 | 143.00 | 181.00 | 225.00 | 274.00 | 296.00 | 331.00 | 362.00 |
| 55.0 | 76.20 | 105.50 | 138.50 | 176.00 | 219.00 | 269.00 | 291.00 | 326.00 | 357.00 |
| 60.0 | 71.20 | 100.50 | 133.50 | 171.00 | 214.00 | 263.00 | 285.00 | 320.00 | 351.00 |
| 62.0 | | | 131.50 | 169.00 | 212.00 | 261.00 | 283.00 | 318.00 | 349.00 |

COMPRESSOR MECHANICAL AND PHYSICAL DATA

| | |
|------------------------------|--|
| Number of cylinders | 4 |
| Displacement @ 50 Hz, m³/h | 70.8 |
| Bore/Stroke, mm | 68.3/55.6 |
| Length/Width, mm | 680/490 |
| Height, mm | 495 |
| Net Weight, kg | 186 |
| Gross Weight, kg | 202 |
| Rotalock Discharge, inch | 1 1/8 |
| Suction, inch | 1 5/8 |
| 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 | 35.6 |
| Locked Rotor Current, A | 156 |
| Default Enclosure Class | IP 54 (IEC 34) |

ACCESSORIES INCLUDED

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

ACCESSORIES OPTIONAL

| | |
|----------------------------------|------------------------------|
| Capacity Control | Capacity Steps 50% |
| Check Valve | For unloaded start operation |
| Additional Cooling | 70 W Vertical Air Flow Fan |
| Crankcase Heater | 100 W Internal |
| Discharge Temperature Protection | Head PTC sensor |
| 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 |
| 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 |