



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 | 37.70 | 47.50 | 59.20 | | | | | | |
| 15.0 | 35.70 | 45.10 | 56.40 | 69.90 | | | | | |
| 20.0 | 33.60 | 42.60 | 53.50 | 66.40 | 81.60 | | | | |
| 25.0 | 31.50 | 40.20 | 50.60 | 62.90 | 77.50 | 94.40 | | | |
| 30.0 | 29.30 | 37.60 | 47.60 | 59.40 | 73.30 | 89.40 | 96.60 | 108.00 | 118.50 |
| 35.0 | 27.20 | 35.10 | 44.60 | 55.80 | 69.00 | 84.50 | 91.30 | 102.50 | 112.00 |
| 40.0 | 25.00 | 32.60 | 41.60 | 52.20 | 64.80 | 79.40 | 86.00 | 96.50 | 106.00 |
| 45.0 | 22.80 | 30.00 | 38.50 | 48.60 | 60.50 | 74.40 | 80.60 | 90.60 | 99.60 |
| 50.0 | 20.70 | 27.50 | 35.50 | 44.90 | 56.10 | 69.30 | 75.20 | 84.70 | 93.30 |
| 55.0 | 18.55 | 24.90 | 32.40 | 41.30 | 51.80 | 64.20 | 69.70 | 78.70 | 86.90 |
| 60.0 | 16.45 | 22.40 | 29.40 | 37.60 | 47.50 | 59.10 | 64.30 | 72.80 | 80.50 |
| 62.0 | | | 28.20 | 36.20 | 45.70 | 57.00 | 62.10 | 70.40 | 77.90 |

| Cond °C | Power, kW | | | | | | | | |
|------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
| | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 | 10.0 | 12.5 |
| 10.0 | 8.55 | 8.99 | 9.22 | | | | | | |
| 15.0 | 9.37 | 10.00 | 10.45 | 10.65 | | | | | |
| 20.0 | 10.15 | 10.95 | 11.60 | 12.10 | 12.30 | | | | |
| 25.0 | 10.85 | 11.85 | 12.70 | 13.40 | 13.85 | 14.05 | | | |
| 30.0 | 11.50 | 12.65 | 13.75 | 14.65 | 15.35 | 15.80 | 15.90 | 15.95 | 15.90 |
| 35.0 | 12.10 | 13.40 | 14.70 | 15.80 | 16.80 | 17.50 | 17.70 | 17.95 | 18.05 |
| 40.0 | 12.65 | 14.15 | 15.55 | 16.90 | 18.10 | 19.10 | 19.45 | 19.85 | 20.10 |
| 45.0 | 13.15 | 14.80 | 16.40 | 17.95 | 19.35 | 20.60 | 21.00 | 21.60 | 22.00 |
| 50.0 | 13.60 | 15.40 | 17.15 | 18.90 | 20.50 | 22.00 | 22.60 | 23.30 | 23.90 |
| 55.0 | 14.05 | 15.95 | 17.90 | 19.80 | 21.70 | 23.40 | 24.00 | 24.90 | 25.60 |
| 60.0 | 14.45 | 16.45 | 18.55 | 20.60 | 22.70 | 24.60 | 25.40 | 26.40 | 27.30 |
| 62.0 | | | 18.80 | 21.00 | 23.10 | 25.10 | 25.90 | 27.00 | 27.90 |

| 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 | 25.29 | 25.05 | 24.80 | | | | | | |
| 15.0 | 25.35 | 25.47 | 25.60 | 25.60 | | | | | |
| 20.0 | 25.57 | 26.03 | 26.53 | 26.92 | 27.09 | | | | |
| 25.0 | 25.92 | 26.71 | 27.56 | 28.33 | 28.91 | 29.15 | | | |
| 30.0 | 26.37 | 27.47 | 28.66 | 29.80 | 30.77 | 31.43 | 31.57 | 31.64 | 31.54 |
| 35.0 | 26.90 | 28.29 | 29.80 | 31.29 | 32.64 | 33.70 | 34.01 | 34.35 | 34.47 |
| 40.0 | 27.47 | 29.14 | 30.96 | 32.78 | 34.49 | 35.94 | 36.42 | 37.00 | 37.34 |
| 45.0 | 28.06 | 29.99 | 32.10 | 34.24 | 36.29 | 38.11 | 38.75 | 39.57 | 40.13 |
| 50.0 | 28.64 | 30.82 | 33.19 | 35.64 | 38.02 | 40.20 | 40.98 | 42.04 | 42.80 |
| 55.0 | 29.17 | 31.58 | 34.22 | 36.95 | 39.64 | 42.16 | 43.09 | 44.37 | 45.33 |
| 60.0 | 29.63 | 32.25 | 35.13 | 38.14 | 41.12 | 43.97 | 45.04 | 46.54 | 47.68 |
| 62.0 | | | 35.47 | 38.57 | 41.68 | 44.65 | 45.77 | 47.35 | 48.56 |

| 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 | 209.00 | 258.00 | 316.00 | | | | | | |
| 15.0 | 205.00 | 255.00 | 313.00 | 380.00 | | | | | |
| 20.0 | 202.00 | 251.00 | 309.00 | 376.00 | 454.00 | | | | |
| 25.0 | 197.50 | 247.00 | 305.00 | 372.00 | 449.00 | 537.00 | | | |
| 30.0 | 192.50 | 242.00 | 300.00 | 366.00 | 443.00 | 531.00 | 569.00 | 630.00 | 684.00 |
| 35.0 | 187.50 | 237.00 | 294.00 | 361.00 | 437.00 | 524.00 | 562.00 | 623.00 | 677.00 |
| 40.0 | 182.00 | 231.00 | 289.00 | 355.00 | 431.00 | 517.00 | 555.00 | 616.00 | 669.00 |
| 45.0 | 176.00 | 225.00 | 282.00 | 348.00 | 423.00 | 510.00 | 547.00 | 608.00 | 661.00 |
| 50.0 | 169.50 | 219.00 | 276.00 | 341.00 | 416.00 | 501.00 | 539.00 | 599.00 | 653.00 |
| 55.0 | 162.50 | 212.00 | 268.00 | 333.00 | 407.00 | 492.00 | 530.00 | 590.00 | 643.00 |
| 60.0 | 155.50 | 205.00 | 261.00 | 325.00 | 398.00 | 483.00 | 520.00 | 580.00 | 634.00 |
| 62.0 | | | 257.00 | 321.00 | 395.00 | 479.00 | 516.00 | 576.00 | 630.00 |

COMPRESSOR MECHANICAL AND PHYSICAL DATA

| | |
|------------------------------|--|
| Number of cylinders | 6 |
| Displacement @ 50 Hz, m³/h | 127 |
| Bore/Stroke, mm | 74.7/55.6 |
| Length/Width, mm | 740/580 |
| Height, mm | 700 |
| Net Weight, kg | 261 |
| Gross Weight, kg | 277 |
| Rotalock Discharge, inch | 1 3/8 |
| Suction, inch | 2 1/8 |
| Drive Frequency Range, Hz | 25 - 60 |
| Oil Quantity, l | 6.8 |
| 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 | 75.5 |
| Sound Power, dBA | 86.5 |
| 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 | 62.2 |
| Locked Rotor Current, A | 255 |
| Default Enclosure Class | IP 54 (IEC 34) |

ACCESSORIES INCLUDED

| | |
|---------------------|-------------|
| Oil Pressure Switch | OPS2 Sensor |
| Mounting Springs | 4 |
| Deep Oil Sump | Mounted |

ACCESSORIES OPTIONAL

| | |
|---------------------|------------------------------|
| Enclosure Class | IP 56 |
| Adapter Kit | For Parallel Operation |
| Capacity Control | Capacity Steps 66% |
| Crankcase Heater | 200 W Internal |
| Check Valve | For unloaded start operation |
| Oil Pressure Switch | OPS2 Electronic Switch |
| Oil Control System | ALCO Trax-Oil OM3 |
| Additional Cooling | 70 W Vertical Air Flow Fan |
| Unloaded start | Available |

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 |
| 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 |
| 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 |