



Minimum Evaporating Temp. With:

- █ 25 °C Suction Gas Return with add cooling
- █ Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

| Cond<br>°C | Cooling Capacity, kW |       |       |       |       |       |       |       |       |
|------------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|
|            | -20.0                | -15.0 | -10.0 | -5.0  | 0.0   | 5.0   | 7.0   | 10.0  | 12.5  |
| 20.0       | 5.62                 | 7.28  | 9.26  | 11.60 |       |       |       |       |       |
| 25.0       | 5.18                 | 6.75  | 8.63  | 10.85 | 13.45 |       |       |       |       |
| 30.0       | 4.74                 | 6.24  | 8.02  | 10.15 | 12.60 | 15.50 | 16.80 | 18.85 | 20.70 |
| 35.0       | 4.31                 | 5.73  | 7.41  | 9.42  | 11.80 | 14.55 | 15.75 | 17.75 | 19.50 |
| 40.0       | 3.89                 | 5.23  | 6.82  | 8.72  | 10.95 | 13.55 | 14.75 | 16.60 | 18.30 |
| 45.0       | 3.47                 | 4.74  | 6.24  | 8.02  | 10.15 | 12.60 | 13.70 | 15.50 | 17.10 |
| 50.0       | 3.07                 | 4.27  | 5.67  | 7.34  | 9.32  | 11.65 | 12.70 | 14.35 | 15.90 |
| 55.0       | 2.68                 | 3.81  | 5.12  | 6.68  | 8.52  | 10.70 | 11.65 | 13.25 | 14.70 |
| 60.0       | 2.31                 | 3.37  | 4.59  | 6.03  | 7.73  | 9.75  | 10.65 | 12.15 |       |
| 62.0       | 2.17                 | 3.20  | 4.38  | 5.77  | 7.42  | 9.37  | 10.25 | 11.70 |       |

| Cond<br>°C | Power, kW |       |       |      |      |      |      |      |      |
|------------|-----------|-------|-------|------|------|------|------|------|------|
|            | -20.0     | -15.0 | -10.0 | -5.0 | 0.0  | 5.0  | 7.0  | 10.0 | 12.5 |
| 20.0       | 1.98      | 2.15  | 2.28  | 2.39 |      |      |      |      |      |
| 25.0       | 2.06      | 2.26  | 2.44  | 2.60 | 2.72 |      |      |      |      |
| 30.0       | 2.14      | 2.37  | 2.60  | 2.79 | 2.96 | 3.09 | 3.14 | 3.18 | 3.21 |
| 35.0       | 2.21      | 2.48  | 2.74  | 2.98 | 3.20 | 3.38 | 3.44 | 3.52 | 3.58 |
| 40.0       | 2.27      | 2.57  | 2.87  | 3.15 | 3.42 | 3.65 | 3.73 | 3.85 | 3.93 |
| 45.0       | 2.33      | 2.66  | 2.99  | 3.31 | 3.62 | 3.90 | 4.01 | 4.15 | 4.27 |
| 50.0       | 2.39      | 2.74  | 3.10  | 3.46 | 3.81 | 4.14 | 4.26 | 4.44 | 4.58 |
| 55.0       | 2.44      | 2.81  | 3.20  | 3.59 | 3.98 | 4.35 | 4.50 | 4.71 | 4.87 |
| 60.0       | 2.48      | 2.87  | 3.28  | 3.70 | 4.13 | 4.55 | 4.71 | 4.95 |      |
| 62.0       | 2.50      | 2.89  | 3.31  | 3.74 | 4.18 | 4.62 | 4.79 | 5.04 |      |

| Cond<br>°C | Current at 400 V, A |       |       |      |      |      |      |      |      |
|------------|---------------------|-------|-------|------|------|------|------|------|------|
|            | -20.0               | -15.0 | -10.0 | -5.0 | 0.0  | 5.0  | 7.0  | 10.0 | 12.5 |
| 20.0       | 4.76                | 4.93  | 5.07  | 5.19 |      |      |      |      |      |
| 25.0       | 4.84                | 5.06  | 5.27  | 5.44 | 5.58 |      |      |      |      |
| 30.0       | 4.92                | 5.19  | 5.45  | 5.69 | 5.89 | 6.06 | 6.11 | 6.16 | 6.20 |
| 35.0       | 5.00                | 5.31  | 5.62  | 5.92 | 6.19 | 6.42 | 6.50 | 6.60 | 6.67 |
| 40.0       | 5.07                | 5.42  | 5.78  | 6.13 | 6.46 | 6.76 | 6.87 | 7.02 | 7.13 |
| 45.0       | 5.14                | 5.53  | 5.93  | 6.33 | 6.72 | 7.09 | 7.22 | 7.42 | 7.57 |
| 50.0       | 5.21                | 5.62  | 6.06  | 6.51 | 6.96 | 7.39 | 7.56 | 7.80 | 7.98 |
| 55.0       | 5.26                | 5.70  | 6.18  | 6.68 | 7.18 | 7.68 | 7.87 | 8.15 | 8.38 |
| 60.0       | 5.32                | 5.77  | 6.28  | 6.83 | 7.38 | 7.94 | 8.16 | 8.48 |      |
| 62.0       | 5.34                | 5.80  | 6.32  | 6.88 | 7.46 | 8.04 | 8.27 | 8.61 |      |

| Cond<br>°C | Suction Mass Flow, g/s |       |       |       |       |       |       |        |        |
|------------|------------------------|-------|-------|-------|-------|-------|-------|--------|--------|
|            | -20.0                  | -15.0 | -10.0 | -5.0  | 0.0   | 5.0   | 7.0   | 10.0   | 12.5   |
| 20.0       | 33.70                  | 42.80 | 53.40 | 65.60 |       |       |       |        |        |
| 25.0       | 32.50                  | 41.50 | 52.00 | 64.10 | 78.00 |       |       |        |        |
| 30.0       | 31.10                  | 40.10 | 50.50 | 62.50 | 76.30 | 92.10 | 98.90 | 110.00 | 119.50 |
| 35.0       | 29.70                  | 38.60 | 49.00 | 60.90 | 74.60 | 90.30 | 97.10 | 108.00 | 117.50 |
| 40.0       | 28.30                  | 37.10 | 47.40 | 59.20 | 72.80 | 88.40 | 95.20 | 106.00 | 115.50 |
| 45.0       | 26.80                  | 35.60 | 45.80 | 57.50 | 70.90 | 86.40 | 93.10 | 104.00 | 113.50 |
| 50.0       | 25.20                  | 34.00 | 44.10 | 55.70 | 69.00 | 84.30 | 91.00 | 101.50 | 111.00 |
| 55.0       | 23.50                  | 32.40 | 42.40 | 53.90 | 67.00 | 82.10 | 88.70 | 99.30  | 108.50 |
| 60.0       | 21.80                  | 30.80 | 40.70 | 52.00 | 64.90 | 79.70 | 86.20 | 96.70  |        |
| 62.0       | 21.10                  | 30.10 | 40.00 | 51.20 | 64.10 | 78.80 | 85.20 | 95.60  |        |

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

|   |  |
|---|--|
| Number of cylinders                     | 2  |
| Displacement @ 50 Hz, m <sup>3</sup> /h | 22.5   |
| Bore/Stroke, mm                         | 61.9/42.8                                    |
| Length/Width, mm                        | 470/330                                      |
| Height, mm                              | 385  |
| Net Weight, kg                          | 77   |
| Gross Weight, kg                        | 82   |
| Suction, inch                           | 1 1/8  |
| Discharge, inch                         | 5/8  |
| Drive Frequency Range, Hz               | 25 - 60                                      |
| Oil Quantity, l                         | 2  |
| Oil type (original charge)              | POE RL32-3MAF                                |
| Oil type (approved oils)                | POE RL32-3MAF, POE MOBIL<br>EAL Arctic 22 CC |
| Base mounting (hole dia), mm            | 295 x 279 (14)                               |
| Sound Pressure @ 1m, dBA                | 63   |
| Sound Power, dBA                        | 74   |
| High Side PS gauge, bar                 | 28   |
| 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 | 8.5            |
| Locked Rotor Current, A      | 68.5           |
| Default Enclosure Class      | IP 54 (IEC 34) |

**ACCESSORIES INCLUDED**

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

**ACCESSORIES OPTIONAL**

|                    |                              |
|--------------------|------------------------------|
| Additional Cooling | 1 or 2 ways water Coil       |
| Adapter Kit        | For Parallel Operation       |
| Crankcase Heater   | 70 W Internal                |
| Additional Cooling | 70 W Vertical Air Flow Fan   |
| Additional Cooling | 25 W Horizontal Air Flow Fan |

**MOTOR OPTIONS**

| <b>Motor Code</b> | <b>Power Supply</b>    | <b>Nominal Voltage, V</b> | <b>Start Connection</b> | <b>DOL Connection</b> | <b>Amps Factor</b> |
|-------------------|------------------------|---------------------------|-------------------------|-----------------------|--------------------|
| 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               |