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|--|---|
| Minimum Evaporating Temp. With:  |   |
| <p><span style="color: pink;">—</span> 20 °C Suction Gas Return ASERCOM certified</p> <p><span style="color: brown;">—</span> 20 °C Suction Gas Return with add cooling</p> <p><span style="color: blue;">—</span> Maximum Evaporating Temperature</p> | <p><span style="color: orange;">—</span> 20 °C Suction Gas Return</p> |

Suction Return Temperature 18.3°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

| Cond<br>°C | Cooling Capacity, kW |       |       |       |        |        |        |        |        |        |        |
|------------|----------------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
|            | -40.0                | -35.0 | -30.0 | -25.0 | -20.0  | -15.0  | -10.0  | -5.0   | 0.0    | 5.0    | 7.0    |
| 10.0       | 41.50                | 53.60 | 68.20 | 85.50 | 106.00 | 129.50 | 156.50 | 188.00 |        |        |        |
| 15.0       | 38.60                | 50.40 | 64.40 | 81.00 | 100.50 | 122.50 | 148.50 | 178.50 | 212.00 |        |        |
| 20.0       | 35.60                | 47.10 | 60.60 | 76.30 | 94.70  | 116.00 | 140.50 | 168.50 | 200.00 | 237.00 | 252.00 |
| 25.0       | 32.50                | 43.70 | 56.60 | 71.60 | 88.90  | 109.00 | 132.00 | 158.50 | 188.50 | 223.00 | 237.00 |
| 30.0       | 29.30                | 40.10 | 52.50 | 66.70 | 83.10  | 102.00 | 123.50 | 148.50 | 176.50 | 209.00 | 223.00 |
| 35.0       | 25.90                | 36.40 | 48.20 | 61.70 | 77.10  | 94.80  | 115.00 | 138.00 | 164.50 | 194.50 | 208.00 |
| 40.0       |                      | 32.60 | 43.80 | 56.50 | 70.90  | 87.40  | 106.50 | 128.00 | 152.50 | 180.00 | 192.50 |
| 45.0       |                      | 28.60 | 39.30 | 51.20 | 64.70  | 80.00  | 97.40  | 117.50 | 140.00 | 166.00 | 177.00 |
| 50.0       |                      | 24.50 | 34.60 | 45.80 | 58.20  | 72.30  | 88.40  | 106.50 | 127.50 | 151.00 | 161.50 |
| 55.0       |                      |       | 29.80 | 40.20 | 51.70  | 64.60  | 79.20  | 95.80  | 115.00 | 136.50 | 146.00 |
| 60.0       |                      |       | 24.90 | 34.50 | 45.00  | 56.60  | 69.80  | 84.80  | 102.00 |        |        |
| 62.0       |                      |       | 22.90 | 32.10 | 42.20  | 53.40  | 66.00  | 80.40  | 96.80  |        |        |

| Cond<br>°C | Power, kW |       |       |       |       |       |       |       |       |       |       |
|------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            | -40.0     | -35.0 | -30.0 | -25.0 | -20.0 | -15.0 | -10.0 | -5.0  | 0.0   | 5.0   | 7.0   |
| 10.0       | 16.95     | 18.90 | 20.50 | 21.90 | 23.00 | 23.70 | 24.10 | 23.90 |       |       |       |
| 15.0       | 17.65     | 19.85 | 21.80 | 23.50 | 25.00 | 26.00 | 26.70 | 27.00 | 26.80 |       |       |
| 20.0       | 18.20     | 20.70 | 23.00 | 25.10 | 26.80 | 28.30 | 29.30 | 30.00 | 30.20 | 30.00 | 29.70 |
| 25.0       | 18.65     | 21.50 | 24.10 | 26.50 | 28.60 | 30.50 | 31.90 | 33.00 | 33.70 | 33.90 | 33.80 |
| 30.0       | 18.95     | 22.10 | 25.10 | 27.90 | 30.40 | 32.60 | 34.50 | 36.00 | 37.10 | 37.80 | 37.90 |
| 35.0       | 19.10     | 22.60 | 26.00 | 29.10 | 32.10 | 34.70 | 37.00 | 39.00 | 40.50 | 41.60 | 42.00 |
| 40.0       |           | 23.00 | 26.80 | 30.30 | 33.70 | 36.70 | 39.50 | 41.90 | 43.90 | 45.50 | 46.00 |
| 45.0       |           | 23.30 | 27.40 | 31.40 | 35.10 | 38.70 | 41.90 | 44.80 | 47.30 | 49.40 | 50.10 |
| 50.0       |           | 23.40 | 27.90 | 32.30 | 36.50 | 40.50 | 44.20 | 47.60 | 50.60 | 53.20 | 54.20 |
| 55.0       |           |       | 28.30 | 33.20 | 37.80 | 42.30 | 46.50 | 50.30 | 53.90 | 57.00 | 58.20 |
| 60.0       |           |       | 28.60 | 33.90 | 39.00 | 43.90 | 48.60 | 53.00 | 57.10 |       |       |
| 62.0       |           |       | 28.60 | 34.10 | 39.40 | 44.60 | 49.50 | 54.10 | 58.40 |       |       |

| Cond<br>°C | Current at 400 V, A |       |       |       |       |       |       |       |        |        |        |
|------------|---------------------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
|            | -40.0               | -35.0 | -30.0 | -25.0 | -20.0 | -15.0 | -10.0 | -5.0  | 0.0    | 5.0    | 7.0    |
| 10.0       | 48.78               | 50.31 | 51.82 | 53.20 | 54.34 | 55.13 | 55.48 | 55.26 |        |        |        |
| 15.0       | 49.32               | 51.17 | 53.02 | 54.79 | 56.34 | 57.59 | 58.41 | 58.71 | 58.37  |        |        |
| 20.0       | 49.78               | 51.99 | 54.23 | 56.42 | 58.42 | 60.15 | 61.49 | 62.33 | 62.57  | 62.10  | 61.68  |
| 25.0       | 50.15               | 52.74 | 55.41 | 58.05 | 60.55 | 62.80 | 64.68 | 66.11 | 66.96  | 67.13  | 66.99  |
| 30.0       | 50.38               | 53.40 | 56.54 | 59.66 | 62.68 | 65.49 | 67.96 | 70.00 | 71.50  | 72.36  | 72.49  |
| 35.0       | 50.45               | 53.94 | 57.57 | 61.22 | 64.80 | 68.19 | 71.29 | 73.99 | 76.17  | 77.74  | 78.17  |
| 40.0       |                     | 54.32 | 58.48 | 62.70 | 66.87 | 70.89 | 74.64 | 78.03 | 80.94  | 83.26  | 84.00  |
| 45.0       |                     | 54.51 | 59.24 | 64.05 | 68.86 | 73.54 | 77.98 | 82.10 | 85.76  | 88.87  | 89.94  |
| 50.0       |                     | 54.48 | 59.81 | 65.26 | 70.73 | 76.11 | 81.29 | 86.16 | 90.62  | 94.55  | 95.96  |
| 55.0       |                     |       | 60.17 | 66.30 | 72.47 | 78.58 | 84.52 | 90.19 | 95.47  | 100.27 | 102.03 |
| 60.0       |                     |       | 60.29 | 67.12 | 74.03 | 80.91 | 87.65 | 94.15 | 100.30 |        |        |
| 62.0       |                     |       | 60.27 | 67.39 | 74.60 | 81.80 | 88.87 | 95.71 | 102.22 |        |        |

| Cond<br>°C | Suction Mass Flow, g/s |        |        |        |        |        |        |         |         |         |         |
|------------|------------------------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
|            | -40.0                  | -35.0  | -30.0  | -25.0  | -20.0  | -15.0  | -10.0  | -5.0    | 0.0     | 5.0     | 7.0     |
| 10.0       | 233.00                 | 302.00 | 385.00 | 485.00 | 603.00 | 742.00 | 905.00 | 1095.00 |         |         |         |
| 15.0       | 226.00                 | 296.00 | 380.00 | 479.00 | 596.00 | 735.00 | 896.00 | 1085.00 | 1304.00 |         |         |
| 20.0       | 218.00                 | 289.00 | 373.00 | 472.00 | 589.00 | 726.00 | 886.00 | 1073.00 | 1291.00 | 1543.00 | 1656.00 |
| 25.0       | 209.00                 | 281.00 | 365.00 | 464.00 | 581.00 | 717.00 | 876.00 | 1061.00 | 1277.00 | 1528.00 | 1640.00 |
| 30.0       | 197.50                 | 271.00 | 357.00 | 456.00 | 571.00 | 706.00 | 864.00 | 1048.00 | 1262.00 | 1512.00 | 1624.00 |
| 35.0       | 185.00                 | 260.00 | 346.00 | 445.00 | 560.00 | 694.00 | 851.00 | 1033.00 | 1247.00 | 1496.00 | 1608.00 |
| 40.0       |                        | 247.00 | 334.00 | 434.00 | 548.00 | 682.00 | 837.00 | 1018.00 | 1230.00 | 1479.00 | 1591.00 |
| 45.0       |                        | 232.00 | 321.00 | 421.00 | 535.00 | 668.00 | 822.00 | 1002.00 | 1214.00 | 1463.00 | 1575.00 |
| 50.0       |                        | 214.00 | 305.00 | 406.00 | 520.00 | 652.00 | 806.00 | 986.00  | 1197.00 | 1448.00 | 1560.00 |
| 55.0       |                        |        | 286.00 | 389.00 | 504.00 | 636.00 | 790.00 | 970.00  | 1183.00 | 1436.00 | 1551.00 |
| 60.0       |                        |        | 265.00 | 370.00 | 487.00 | 621.00 | 776.00 | 959.00  | 1175.00 |         |         |
| 62.0       |                        |        | 256.00 | 362.00 | 481.00 | 616.00 | 772.00 | 956.00  | 1175.00 |         |         |

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

|                              |  |
|------------------------------|--|
| Number of cylinders          | 8  |
| Displacement @ 50 Hz, m³/h   | 181  |
| Bore/Stroke, mm              | 74.7/59.2                                    |
| Length/Width, mm             | 835/475                                      |
| Height, mm                   | 610  |
| Net Weight, kg               | 331  |
| Gross Weight, kg             | 352  |
| Suction, inch                | 3 1/8  |
| Discharge, inch              | 1 5/8  |
| Drive Frequency Range, Hz    | 25 - 60                                      |
| Oil Quantity, l              | 7.6  |
| 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 | 457 x 305 (18)                               |
| Sound Pressure @ 1m, dBA     | 79.5   |
| Sound Power, dBA             | 90.5   |
| High Side PS gauge, bar      | 32.5   |
| Low Side PS gauge, bar       | 22.5   |
| Refrigerant's GWP            | 3922   |
| Refrigerant's classification | A1   |

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

|                              |                |
|------------------------------|----------------|
| Maximum Operating Current, A | 108            |
| Locked Rotor Current, A      | 476            |
| Default Enclosure Class      | IP 54 (IEC 34) |

### ACCESSORIES INCLUDED

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

### ACCESSORIES OPTIONAL

|                     |                              |
|---------------------|------------------------------|
| Additional Cooling  | 70 W Vertical Air Flow Fan   |
| Capacity Control    | Capacity Steps 75/50%        |
| Crankcase Heater    | 200 W Internal               |
| Enclosure Class     | IP 56                        |
| Oil Pressure Switch | OPS2 Electronic Switch       |
| Unloaded start      | Available                    |
| Adapter Kit         | For Parallel Operation       |
| Check Valve         | For unloaded start operation |
| Oil Control System  | ALCO Trax-Oil OM3            |

### 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               |
| 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               |