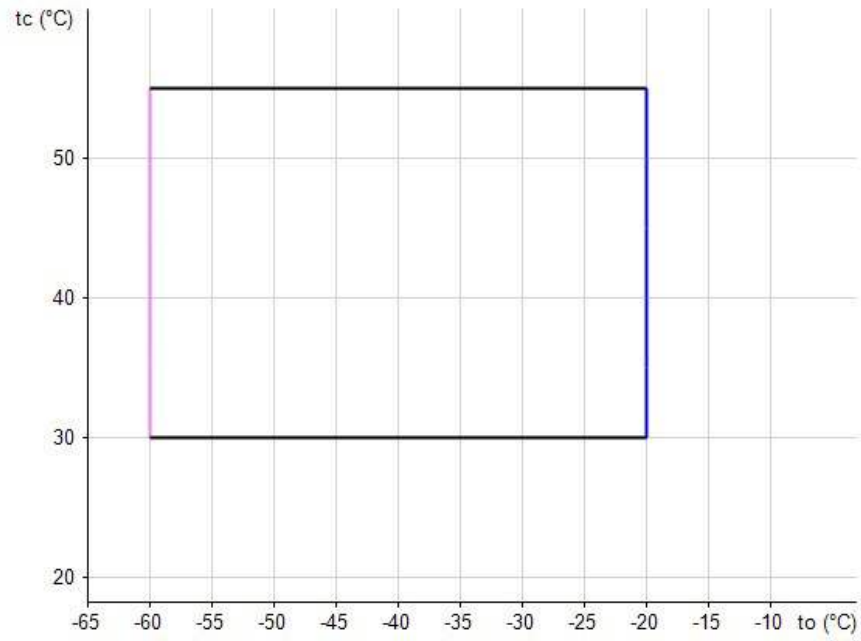


50 Hz

6TKW-300E

R404A Dew Point



Minimum Evaporating Temp. With:

25 °C Suction Gas Return

Maximum Evaporating Temperature

Suction Return Temperature 18.3°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

| Cond<br>°C | Cooling Capacity, kW |       |       |       |       |       |       |       |       |
|------------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|
|            | -60.0                | -55.0 | -50.0 | -45.0 | -40.0 | -35.0 | -30.0 | -25.0 | -20.0 |
| 30.0       | 8.52                 | 11.45 | 14.90 | 18.95 | 23.70 | 29.10 | 35.40 | 42.50 | 50.50 |
| 35.0       | 8.18                 | 10.95 | 14.25 | 18.10 | 22.60 | 27.80 | 33.70 | 40.40 | 48.00 |
| 40.0       | 7.87                 | 10.50 | 13.65 | 17.30 | 21.50 | 26.40 | 32.00 | 38.30 | 45.50 |
| 45.0       | 7.64                 | 10.10 | 13.05 | 16.45 | 20.40 | 25.00 | 30.20 | 36.20 | 42.90 |
| 50.0       | 7.51                 | 9.80  | 12.50 | 15.65 | 19.30 | 23.60 | 28.40 | 34.00 | 40.20 |
| 55.0       | 7.53                 | 9.61  | 12.05 | 14.95 | 18.30 | 22.20 | 26.70 | 31.80 | 37.50 |

50 Hz

6TKW-300E

R404A Dew Point

| Cond<br>°C | Power, kW |       |       |       |       |       |       |       |       |
|------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
|            | -60.0     | -55.0 | -50.0 | -45.0 | -40.0 | -35.0 | -30.0 | -25.0 | -20.0 |
| 30.0       | 9.04      | 10.15 | 11.55 | 13.30 | 15.25 | 17.50 | 19.90 | 22.50 | 25.30 |
| 35.0       | 9.31      | 10.55 | 12.10 | 13.95 | 16.00 | 18.30 | 20.80 | 23.50 | 26.20 |
| 40.0       | 9.59      | 11.00 | 12.70 | 14.65 | 16.80 | 19.15 | 21.70 | 24.40 | 27.20 |
| 45.0       | 9.90      | 11.45 | 13.30 | 15.35 | 17.60 | 20.00 | 22.60 | 25.30 | 28.10 |
| 50.0       | 10.25     | 11.95 | 13.90 | 16.05 | 18.40 | 20.90 | 23.50 | 26.30 | 29.10 |
| 55.0       | 10.60     | 12.45 | 14.55 | 16.80 | 19.25 | 21.80 | 24.50 | 27.20 | 30.00 |

| Cond<br>°C | Current at 400 V, A |       |       |       |       |       |       |       |       |
|------------|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|
|            | -60.0               | -55.0 | -50.0 | -45.0 | -40.0 | -35.0 | -30.0 | -25.0 | -20.0 |
| 30.0       | 26.61               | 28.53 | 30.55 | 32.63 | 34.74 | 36.85 | 38.93 | 40.94 | 42.85 |
| 35.0       | 27.16               | 29.20 | 31.35 | 33.57 | 35.83 | 38.10 | 40.35 | 42.54 | 44.64 |
| 40.0       | 27.64               | 29.87 | 32.21 | 34.63 | 37.10 | 39.59 | 42.06 | 44.49 | 46.84 |
| 45.0       | 28.02               | 30.48 | 33.07 | 35.76 | 38.50 | 41.27 | 44.03 | 46.76 | 49.42 |
| 50.0       | 28.25               | 31.02 | 33.92 | 36.92 | 39.99 | 43.10 | 46.21 | 49.30 | 52.33 |
| 55.0       | 28.30               | 31.43 | 34.70 | 38.08 | 41.54 | 45.05 | 48.57 | 52.08 | 55.53 |

| Cond<br>°C | Suction Mass Flow, g/s |       |        |        |        |        |        |        |        |
|------------|------------------------|-------|--------|--------|--------|--------|--------|--------|--------|
|            | -60.0                  | -55.0 | -50.0  | -45.0  | -40.0  | -35.0  | -30.0  | -25.0  | -20.0  |
| 30.0       | 56.90                  | 76.50 | 99.80  | 127.50 | 159.50 | 197.00 | 240.00 | 290.00 | 347.00 |
| 35.0       | 57.70                  | 77.50 | 101.00 | 128.50 | 161.00 | 199.00 | 242.00 | 292.00 | 349.00 |
| 40.0       | 59.00                  | 78.90 | 102.50 | 130.50 | 163.00 | 201.00 | 244.00 | 294.00 | 352.00 |
| 45.0       | 61.10                  | 81.10 | 104.50 | 132.50 | 165.00 | 203.00 | 247.00 | 297.00 | 355.00 |
| 50.0       | 64.70                  | 84.60 | 108.00 | 136.00 | 168.50 | 206.00 | 250.00 | 301.00 | 359.00 |
| 55.0       | 70.60                  | 90.30 | 113.50 | 141.00 | 173.50 | 212.00 | 256.00 | 307.00 | 366.00 |

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

|                                         |                                              |
|-----------------------------------------|----------------------------------------------|
| Number of cylinders                     | 6                                            |
| Displacement @ 50 Hz, m <sup>3</sup> /h | 101                                          |
| Bore/Stroke, mm                         | 80.6/57.0                                    |
| Length/Width, mm                        | 815/596                                      |
| Height, mm                              | 619                                          |
| Net Weight, kg                          | 263                                          |
| Gross Weight, kg                        | 295                                          |
| Rotalock Suction, inch                  | 1 5/8                                        |
| Rotalock Discharge, inch                | 1 3/8                                        |
| Oil Quantity, l                         | 6.8                                          |
| 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            | 381 x 305 (25.5)                             |
| High Side PS gauge, bar                 | 28                                           |
| 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 | 54.5           |
| Locked Rotor Current, A      | 304            |
| Default Enclosure Class      | IP 54 (IEC 34) |

**ACCESSORIES INCLUDED**

|                     |                       |
|---------------------|-----------------------|
| Crankcase Heater    | 100 W Internal        |
| Oil Pressure Switch | OPS2 Sensor           |
| Mounting Springs    | 4                     |
| Rotalock valves     | suction and discharge |

**ACCESSORIES OPTIONAL**

|                  |                      |
|------------------|----------------------|
| Liquid Subcooler | Plate Heat Exchanger |
|------------------|----------------------|

50 Hz

6TKW-300E

R404A Dew Point

**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> |
|-------------------|------------------------|---------------------------|-------------------------|-----------------------|--------------------|
| AWM               | 380-420 V / 3~ / 50 Hz | 400                       | YY/Y                    | Y                     | 1.00               |
| EWK               | 220-240 V / 3~ / 60 Hz | 230                       | Y/DELTA                 | DELTA                 | 2.10               |
| EWK               | 380-420 V / 3~ / 60 Hz | 380                       |                         | Y                     | 1.20               |
| AWD               | 440-480 V / 3~ / 60 Hz | 460                       | YY/Y                    | Y                     | 1.00               |