



Minimum Evaporating Temp. With:

- 10 K Suction Superheat
- Maximum Evaporating Temperature

Suction Superheat 11.1K

Liquid Subcooling 8.3K

Evaporating Temperature, °C

| Cond °C | Cooling Capacity, kW | | | | | | | | | | | | | |
|------------|----------------------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| | -30.0 | -25.0 | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 | 10.0 | 12.5 | 15.0 | 20.0 | 25.0 |
| 17.0 | 4.13 | 4.97 | 5.95 | 7.07 | 8.36 | | | | | | | | | |
| 20.0 | 4.07 | 4.92 | 5.90 | 7.02 | 8.30 | 9.73 | | | | | | | | |
| 25.0 | 3.96 | 4.81 | 5.79 | 6.91 | 8.17 | 9.58 | 11.15 | | | | | | | |
| 30.0 | 3.84 | 4.69 | 5.66 | 6.76 | 8.00 | 9.39 | 10.95 | 12.65 | 13.40 | 14.55 | | | | |
| 35.0 | 3.70 | 4.54 | 5.50 | 6.58 | 7.80 | 9.15 | 10.65 | 12.35 | 13.05 | 14.15 | 15.15 | 16.15 | 18.35 | |
| 40.0 | 3.55 | 4.38 | 5.32 | 6.37 | 7.56 | 8.88 | 10.35 | 11.95 | 12.65 | 13.75 | 14.70 | 15.70 | 17.80 | 20.10 |
| 45.0 | | 4.20 | 5.11 | 6.14 | 7.29 | 8.56 | 9.97 | 11.55 | 12.20 | 13.25 | 14.15 | 15.10 | 17.15 | 19.40 |
| 50.0 | | 4.01 | 4.90 | 5.88 | 6.99 | 8.21 | 9.57 | 11.05 | 11.70 | 12.70 | 13.60 | 14.50 | 16.50 | 18.60 |
| 55.0 | | | 4.66 | 5.61 | 6.66 | 7.83 | 9.12 | 10.55 | 11.15 | 12.10 | 12.95 | 13.85 | 15.70 | 17.75 |
| 60.0 | | | | 5.31 | 6.31 | 7.41 | 8.64 | 9.99 | 10.55 | 11.50 | 12.30 | 13.10 | 14.90 | 16.85 |
| 65.0 | | | | | 5.93 | 6.97 | 8.12 | 9.40 | 9.94 | 10.80 | 11.55 | 12.35 | | |
| 68.0 | | | | | 5.70 | 6.69 | 7.80 | 9.02 | 9.55 | 10.35 | | | | |

| Cond °C | Power, kW | | | | | | | | | | | | | |
|------------|-----------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| | -30.0 | -25.0 | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 | 10.0 | 12.5 | 15.0 | 20.0 | 25.0 |
| 17.0 | 1.44 | 1.44 | 1.44 | 1.42 | 1.38 | | | | | | | | | |
| 20.0 | 1.55 | 1.56 | 1.56 | 1.56 | 1.52 | 1.46 | | | | | | | | |
| 25.0 | 1.75 | 1.76 | 1.78 | 1.78 | 1.76 | 1.72 | 1.64 | | | | | | | |
| 30.0 | 1.97 | 1.98 | 2.00 | 2.01 | 2.00 | 1.98 | 1.92 | 1.84 | 1.80 | 1.72 | | | | |
| 35.0 | 2.22 | 2.24 | 2.25 | 2.27 | 2.27 | 2.25 | 2.22 | 2.15 | 2.12 | 2.05 | 1.98 | 1.91 | 1.72 | |
| 40.0 | 2.51 | 2.52 | 2.54 | 2.56 | 2.56 | 2.56 | 2.53 | 2.48 | 2.46 | 2.40 | 2.35 | 2.29 | 2.13 | 1.92 |
| 45.0 | | 2.86 | 2.87 | 2.89 | 2.90 | 2.90 | 2.89 | 2.85 | 2.83 | 2.79 | 2.74 | 2.69 | 2.55 | 2.36 |
| 50.0 | | 3.25 | 3.26 | 3.27 | 3.29 | 3.29 | 3.28 | 3.26 | 3.24 | 3.21 | 3.17 | 3.12 | 3.01 | 2.85 |
| 55.0 | | | 3.71 | 3.72 | 3.73 | 3.74 | 3.74 | 3.72 | 3.70 | 3.68 | 3.65 | 3.61 | 3.51 | 3.37 |
| 60.0 | | | | 4.24 | 4.25 | 4.25 | 4.25 | 4.24 | 4.23 | 4.21 | 4.18 | 4.15 | 4.06 | 3.94 |
| 65.0 | | | | | 4.84 | 4.84 | 4.84 | 4.83 | 4.82 | 4.80 | 4.78 | 4.76 | | |
| 68.0 | | | | | 5.23 | 5.23 | 5.23 | 5.22 | 5.21 | 5.20 | | | | |

| Cond °C | Current at 400 V, A | | | | | | | | | | | | | |
|------------|---------------------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| | -30.0 | -25.0 | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 | 10.0 | 12.5 | 15.0 | 20.0 | 25.0 |
| 17.0 | 3.23 | 3.23 | 3.23 | 3.21 | 3.17 | | | | | | | | | |
| 20.0 | 3.36 | 3.37 | 3.37 | 3.36 | 3.33 | 3.27 | | | | | | | | |
| 25.0 | 3.59 | 3.61 | 3.62 | 3.62 | 3.60 | 3.55 | 3.48 | | | | | | | |
| 30.0 | 3.85 | 3.86 | 3.88 | 3.89 | 3.88 | 3.85 | 3.79 | 3.70 | 3.65 | 3.56 | | | | |
| 35.0 | 4.14 | 4.16 | 4.18 | 4.19 | 4.20 | 4.18 | 4.14 | 4.06 | 4.02 | 3.94 | 3.86 | 3.78 | 3.55 | |
| 40.0 | 4.50 | 4.51 | 4.53 | 4.55 | 4.56 | 4.55 | 4.52 | 4.46 | 4.43 | 4.36 | 4.30 | 4.22 | 4.02 | 3.77 |
| 45.0 | | 4.93 | 4.95 | 4.97 | 4.99 | 4.99 | 4.97 | 4.92 | 4.89 | 4.84 | 4.78 | 4.71 | 4.54 | 4.31 |
| 50.0 | | 5.44 | 5.46 | 5.48 | 5.49 | 5.50 | 5.49 | 5.45 | 5.43 | 5.39 | 5.34 | 5.28 | 5.13 | 4.92 |
| 55.0 | | | 6.06 | 6.08 | 6.10 | 6.11 | 6.10 | 6.08 | 6.06 | 6.02 | 5.98 | 5.93 | 5.79 | 5.61 |
| 60.0 | | | | 6.80 | 6.82 | 6.83 | 6.82 | 6.80 | 6.79 | 6.76 | 6.72 | 6.68 | 6.56 | 6.39 |
| 65.0 | | | | | 7.66 | 7.67 | 7.67 | 7.66 | 7.64 | 7.62 | 7.59 | 7.55 | | |
| 68.0 | | | | | 8.24 | 8.25 | 8.25 | 8.23 | 8.22 | 8.20 | | | | |

| Cond °C | Suction Mass Flow, g/s | | | | | | | | | | | | | |
|------------|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| | -30.0 | -25.0 | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 | 10.0 | 12.5 | 15.0 | 20.0 | 25.0 |
| 17.0 | 17.90 | 21.80 | 26.50 | 32.00 | 38.40 | | | | | | | | | |
| 20.0 | 17.80 | 21.80 | 26.50 | 32.10 | 38.50 | 46.00 | | | | | | | | |
| 25.0 | 17.55 | 21.60 | 26.40 | 32.00 | 38.50 | 46.00 | 54.70 | | | | | | | |
| 30.0 | 17.25 | 21.40 | 26.20 | 31.90 | 38.40 | 45.90 | 54.60 | 64.50 | 68.90 | 75.90 | | | | |
| 35.0 | 16.90 | 21.10 | 25.90 | 31.50 | 38.10 | 45.60 | 54.20 | 64.10 | 68.50 | 75.50 | 81.80 | 88.50 | 103.50 | |
| 40.0 | 16.50 | 20.60 | 25.50 | 31.10 | 37.60 | 45.00 | 53.60 | 63.50 | 67.80 | 74.80 | 81.10 | 87.80 | 103.00 | 120.50 |
| 45.0 | | 20.20 | 25.00 | 30.50 | 36.90 | 44.30 | 52.80 | 62.60 | 66.90 | 73.80 | 80.10 | 86.80 | 102.00 | 119.50 |
| 50.0 | | 19.60 | 24.30 | 29.80 | 36.10 | 43.40 | 51.80 | 61.40 | 65.70 | 72.60 | 78.80 | 85.50 | 100.50 | 118.00 |
| 55.0 | | | 23.60 | 29.00 | 35.20 | 42.30 | 50.50 | 60.00 | 64.20 | 71.00 | 77.20 | 83.80 | 98.70 | 116.00 |
| 60.0 | | | | 28.10 | 34.10 | 41.00 | 49.00 | 58.40 | 62.50 | 69.20 | 75.20 | 81.80 | 96.60 | 114.00 |
| 65.0 | | | | | 32.80 | 39.50 | 47.40 | 56.40 | 60.50 | 67.00 | 73.00 | 79.50 | | |
| 68.0 | | | | | 32.00 | 38.60 | 46.20 | 55.20 | 59.10 | 65.60 | | | | |

COMPRESSOR MECHANICAL AND PHYSICAL DATA

| | |
|---|-------------------------|
| Displacement @ 50 Hz, m ³ /h | 6.93 |
| Length/Width, mm | 242/242 |
| Height, mm | 418 |
| Net Weight, kg | 31 |
| Stub Suction, inch | 7/8 |
| Stub Discharge, inch | 1/2 |
| Oil Quantity, l | 1.25 |
| Oil type (original charge) | POE RL32-3MAF |
| Oil type (approved oils) | POE RL32-3MAF |
| Base mounting (hole dia), mm | 190 x 190 (8.5) |
| Sound Pressure @ 1m (HT), dBA | 63 |
| Sound Power (HT), dBA | 74 |
| Sound Conditions (HT, Temperatures: | -7 / 50 / 3 °C at 50 Hz |
| Evap./Cond./Suction at freq./speed) | |
| PED Category | 1 |
| Max. Internal Free Volume, l | 3.60 |
| High Side PS gauge, bar | 46 |
| Low Side PS gauge, bar | 28 |
| Low Side TS Max., °C | 50 |
| Refrigerant's GWP | 2088 |
| Refrigerant's classification | A1 |

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

| | |
|------------------------------|----------------|
| Maximum Operating Current, A | 9.2 |
| Locked Rotor Current, A | 51.5 |
| Winding Resistance, ohm | 3.2 |
| Default Enclosure Class | IP 21 (IEC 34) |

ACCESSORIES INCLUDED**ACCESSORIES OPTIONAL**

| | |
|------------------|---------------|
| Crankcase Heater | 40 W External |
|------------------|---------------|

MOTOR OPTIONS

| Motor Code | Power Supply | Nominal Voltage, V | Start Connection | DOL Connection | Amps Factor |
|-------------------|------------------------|---------------------------|-------------------------|-----------------------|--------------------|
| TFM | 380-420 V / 3~ / 50 Hz | 400 | | Y | 1.00 |