



Minimum Evaporating Temp. With:

- 10 K Suction Superheat — 10 K Suction Superheat OEM envelope
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

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 |
| 10.0 | 13.05 | 15.90 | 19.10 | 22.70 | 26.90 | 31.50 | | | | | | | | |
| 15.0 | 11.90 | 14.75 | 18.05 | 21.80 | 26.00 | 30.70 | 36.00 | | | | | | | |
| 20.0 | 10.70 | 13.65 | 16.95 | 20.70 | 24.90 | 29.60 | 34.90 | 40.90 | | | | | | |
| 25.0 | 9.56 | 12.45 | 15.75 | 19.50 | 23.70 | 28.40 | 33.70 | 39.50 | 42.10 | 46.10 | | | | |
| 30.0 | 8.45 | 11.30 | 14.55 | 18.20 | 22.30 | 27.00 | 32.20 | 38.00 | 40.50 | 44.40 | 47.90 | 51.60 | | |
| 35.0 | | 10.15 | 13.30 | 16.90 | 20.90 | 25.40 | 30.50 | 36.20 | 38.60 | 42.50 | 45.90 | 49.50 | | |
| 40.0 | | | 12.05 | 15.50 | 19.35 | 23.70 | 28.60 | 34.20 | 36.50 | 40.30 | 43.60 | 47.10 | 54.70 | |
| 45.0 | | | | 14.05 | 17.70 | 21.90 | 26.60 | 31.90 | 34.20 | 37.80 | 41.10 | 44.40 | 51.80 | 59.90 |
| 50.0 | | | | | 16.00 | 19.95 | 24.40 | 29.40 | 31.60 | 35.10 | 38.20 | 41.40 | 48.50 | 56.30 |
| 55.0 | | | | | | 17.85 | 22.00 | 26.80 | 28.80 | 32.10 | 35.00 | 38.10 | 44.80 | 52.30 |
| 60.0 | | | | | | | 19.45 | 23.80 | 25.80 | 28.80 | 31.50 | 34.40 | 40.70 | 47.70 |
| 65.0 | | | | | | | | 20.60 | 22.30 | 25.10 | 27.60 | 30.20 | 36.00 | |

| 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 |
| 10.0 | 3.30 | 3.31 | 3.31 | 3.32 | 3.35 | 3.41 | | | | | | | | |
| 15.0 | 3.89 | 3.92 | 3.92 | 3.92 | 3.94 | 3.99 | 4.09 | | | | | | | |
| 20.0 | 4.49 | 4.52 | 4.53 | 4.53 | 4.54 | 4.57 | 4.64 | 4.78 | | | | | | |
| 25.0 | 5.11 | 5.16 | 5.18 | 5.18 | 5.17 | 5.18 | 5.23 | 5.33 | 5.39 | 5.51 | | | | |
| 30.0 | 5.79 | 5.85 | 5.88 | 5.87 | 5.86 | 5.85 | 5.88 | 5.94 | 5.99 | 6.08 | 6.17 | 6.29 | | |
| 35.0 | | 6.62 | 6.65 | 6.64 | 6.62 | 6.60 | 6.59 | 6.63 | 6.66 | 6.72 | 6.79 | 6.89 | | |
| 40.0 | | | 7.51 | 7.51 | 7.47 | 7.44 | 7.41 | 7.41 | 7.43 | 7.46 | 7.51 | 7.58 | 7.79 | |
| 45.0 | | | | 8.49 | 8.45 | 8.39 | 8.34 | 8.31 | 8.31 | 8.33 | 8.35 | 8.40 | 8.54 | 8.79 |
| 50.0 | | | | | 9.56 | 9.49 | 9.42 | 9.36 | 9.34 | 9.33 | 9.33 | 9.35 | 9.44 | 9.62 |
| 55.0 | | | | | | 10.75 | 10.65 | 10.55 | 10.55 | 10.50 | 10.50 | 10.45 | 10.50 | 10.60 |
| 60.0 | | | | | | | 12.05 | 11.95 | 11.90 | 11.85 | 11.80 | 11.80 | 11.75 | 11.80 |
| 65.0 | | | | | | | | 13.55 | 13.50 | 13.40 | 13.35 | 13.30 | 13.20 | |

| 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 |
| 10.0 | 9.37 | 9.38 | 9.38 | 9.37 | 9.38 | 9.41 | | | | | | | | |
| 15.0 | 9.98 | 10.00 | 10.01 | 10.01 | 10.02 | 10.05 | 10.12 | | | | | | | |
| 20.0 | 10.61 | 10.64 | 10.66 | 10.66 | 10.67 | 10.70 | 10.75 | 10.85 | | | | | | |
| 25.0 | 11.30 | 11.35 | 11.37 | 11.37 | 11.38 | 11.39 | 11.43 | 11.51 | 11.56 | 11.65 | | | | |
| 30.0 | 12.10 | 12.16 | 12.18 | 12.18 | 12.17 | 12.17 | 12.19 | 12.25 | 12.29 | 12.36 | 12.43 | 12.53 | | |
| 35.0 | | 13.10 | 13.12 | 13.11 | 13.09 | 13.07 | 13.07 | 13.10 | 13.12 | 13.18 | 13.23 | 13.31 | | |
| 40.0 | | | 14.22 | 14.20 | 14.17 | 14.13 | 14.10 | 14.10 | 14.11 | 14.14 | 14.18 | 14.23 | 14.39 | |
| 45.0 | | | | 15.50 | 15.44 | 15.38 | 15.32 | 15.29 | 15.28 | 15.29 | 15.30 | 15.33 | 15.45 | 15.64 |
| 50.0 | | | | | 16.95 | 16.86 | 16.77 | 16.70 | 16.67 | 16.65 | 16.65 | 16.65 | 16.71 | 16.84 |
| 55.0 | | | | | | 18.61 | 18.48 | 18.37 | 18.33 | 18.27 | 18.24 | 18.22 | 18.22 | 18.29 |
| 60.0 | | | | | | | 20.50 | 20.33 | 20.27 | 20.19 | 20.13 | 20.08 | 20.02 | 20.03 |
| 65.0 | | | | | | | | 22.64 | 22.55 | 22.44 | 22.35 | 22.27 | 22.15 | |

| 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 |
| 10.0 | 64.40 | 77.40 | 91.90 | 108.50 | 126.50 | 147.50 | | | | | | | | |
| 15.0 | 60.90 | 74.80 | 90.30 | 107.50 | 127.00 | 148.50 | 172.50 | | | | | | | |
| 20.0 | 57.30 | 72.00 | 88.30 | 106.50 | 127.00 | 149.50 | 174.50 | 202.00 | | | | | | |
| 25.0 | 53.50 | 68.90 | 85.90 | 105.00 | 126.00 | 149.50 | 175.50 | 204.00 | 216.00 | 236.00 | | | | |
| 30.0 | 49.70 | 65.50 | 83.20 | 102.50 | 124.50 | 148.50 | 175.50 | 205.00 | 218.00 | 238.00 | 255.00 | 274.00 | | |
| 35.0 | | 62.00 | 80.10 | 100.00 | 122.50 | 147.00 | 174.50 | 205.00 | 218.00 | 238.00 | 256.00 | 275.00 | | |
| 40.0 | | | 76.70 | 97.00 | 119.50 | 145.00 | 172.50 | 204.00 | 217.00 | 238.00 | 257.00 | 276.00 | 318.00 | |
| 45.0 | | | | 93.40 | 116.50 | 141.50 | 170.00 | 202.00 | 215.00 | 237.00 | 255.00 | 275.00 | 318.00 | 365.00 |
| 50.0 | | | | | 112.50 | 138.00 | 166.50 | 198.50 | 212.00 | 234.00 | 253.00 | 274.00 | 317.00 | 365.00 |
| 55.0 | | | | | | 133.50 | 162.00 | 194.50 | 208.00 | 230.00 | 250.00 | 271.00 | 315.00 | 364.00 |
| 60.0 | | | | | | | 156.50 | 189.00 | 203.00 | 226.00 | 245.00 | 266.00 | 312.00 | 362.00 |
| 65.0 | | | | | | | | 183.00 | 197.50 | 220.00 | 240.00 | 261.00 | 308.00 | |

COMPRESSOR MECHANICAL AND PHYSICAL DATA

| | |
|-----------------------------------------|-------------------------|
| Displacement @ 50 Hz, m ³ /h | 22.1 |
| Length/Width, mm | 293/285 |
| Height, mm | 533 |
| Net Weight, kg | 61.2 |
| Rotalock Suction, inch | 1 3/4 |
| Rotalock Discharge, inch | 1 1/4 |
| Stub Suction, inch | 1 3/8 |
| Stub Discharge, inch | 7/8 |
| Oil Quantity, l | 3.25 |
| Oil type (original charge) | POE RL32-3MAF |
| Oil type (approved oils) | POE RL32-3MAF |
| Base mounting (hole dia), mm | 190 x 190 (0) |
| Sound Pressure @ 1m (HT), dBA | 63 |
| Sound Power (HT), dBA | 74 |
| Sound Conditions (HT, Temperatures: | 7 / 54 / 18 °C at 50 Hz |
| Evap./Cond./Suction at freq./speed) | |
| PED Category | II |
| Max. Low Side Internal Free Volume, l | 12.6 |
| Max. High Side Internal Free Volume, l | 1.5 |
| Max. Internal Free Volume, l | 14.1 |
| High Side PS gauge, bar | 45 |
| Low Side PS gauge, bar | 29.5 |
| Low Side TS Max., °C | 50 |
| Low Side TS Min., °C | -35 |
| High Side TS Max., °C | 150 |
| High Side TS Min., °C | -35 |
| Refrigerant's GWP | 2088 |
| Refrigerant's classification | A1 |

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

| | |
|------------------------------|----------------|
| Maximum Operating Current, A | 25 |
| Locked Rotor Current, A | 118 |
| Winding Resistance, ohm | 1.24 |
| Default Enclosure Class | IP 21 (IEC 34) |

ACCESSORIES INCLUDED

| | |
|-------------------|--------------------------------|
| Enclosure Class | IP21 |
| Mounting Grommets | Hard Mounts for Paralleling |
| Oil Charge | |
| Oil Service Valve | Schraeder Valve |
| Digital Control | Integrated Solenoid Valve |
| Check Valve | Discharge Low Leak Check Valve |

ACCESSORIES OPTIONAL

| | |
|---------------------------|-------------------------------------------|
| Crankcase Heater | 66 W External |
| Discharge Temp Protection | |
| Mounting Grommets | Rubber Grommet For Single |
| Digital Control | Digital Valve Coil 24V |
| Digital Control | Digital Valve Coil 230V |
| Adapter Kit | R1"1/4 -B 1"1/8 For TPTL for |
| Sound Attenuation | Parallel Operation Sound Shell (12dBA) |

MOTOR OPTIONS

| Motor Code | Power Supply | Nominal Voltage, V | Start Connection | DOL Connection | Amps Factor |
|-------------------|------------------------|---------------------------|-------------------------|-----------------------|--------------------|
| TFD | 380-420 V / 3~ / 50 Hz | 400 | | Y | 1.00 |
| TFD | 460 V / 3~ / 60 Hz | 460 | | Y | 1.04 |