



Minimum Evaporating Temp. With:

- 10 K Suction Superheat
- 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 | 18.00 | 25.20 | 32.80 | 41.00 | 50.00 | 60.30 | 71.90 | 85.30 | 91.20 | 100.50 | | | |
| 30.0 | 14.35 | 22.20 | 30.20 | 38.60 | 47.70 | 57.80 | 69.10 | 82.00 | 87.60 | 96.60 | 104.50 | 113.00 | |
| 35.0 | | 18.45 | 27.00 | 35.80 | 45.10 | 55.10 | 66.20 | 78.60 | 84.00 | 92.60 | 100.00 | 108.50 | |
| 40.0 | | | 23.10 | 32.40 | 41.90 | 52.00 | 63.00 | 75.00 | 80.20 | 88.50 | 95.80 | 103.50 | 120.50 |
| 45.0 | | | | 28.20 | 38.10 | 48.40 | 59.30 | 71.20 | 76.20 | 84.20 | 91.30 | 98.70 | 115.00 |
| 50.0 | | | | | 33.60 | 44.20 | 55.20 | 66.90 | 71.80 | 79.60 | 86.40 | 93.60 | 109.00 |
| 55.0 | | | | | | 39.20 | 50.40 | 62.10 | 66.90 | 74.50 | 81.20 | 88.10 | 103.00 |
| 60.0 | | | | | | | 44.80 | 56.60 | 61.40 | 68.90 | 75.40 | 82.10 | 96.50 |
| 65.0 | | | | | | | | 50.30 | 55.10 | 62.60 | 69.00 | 75.50 | 89.40 |

| 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 | 11.45 | 11.45 | 11.60 | 11.85 | 12.05 | 12.15 | 12.00 | 11.55 | 11.30 | 10.70 | | | |
| 30.0 | 12.95 | 12.75 | 12.85 | 13.05 | 13.35 | 13.60 | 13.70 | 13.55 | 13.40 | 13.10 | 12.70 | 12.20 | |
| 35.0 | | 14.40 | 14.30 | 14.45 | 14.70 | 15.00 | 15.25 | 15.30 | 15.30 | 15.15 | 14.95 | 14.65 | |
| 40.0 | | | 16.15 | 16.05 | 16.25 | 16.50 | 16.80 | 17.00 | 17.05 | 17.05 | 17.00 | 16.85 | 16.30 |
| 45.0 | | | | 18.10 | 18.10 | 18.25 | 18.50 | 18.80 | 18.85 | 18.95 | 19.00 | 18.95 | 18.70 |
| 50.0 | | | | | 20.40 | 20.30 | 20.50 | 20.70 | 20.80 | 21.00 | 21.00 | 21.10 | 21.00 |
| 55.0 | | | | | | 22.90 | 22.90 | 23.00 | 23.10 | 23.20 | 23.30 | 23.30 | 23.40 |
| 60.0 | | | | | | | 25.80 | 25.70 | 25.70 | 25.80 | 25.80 | 25.90 | 26.00 |
| 65.0 | | | | | | | | 29.00 | 28.90 | 28.90 | 28.80 | 28.80 | 28.90 |

| 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 | 24.71 | 25.18 | 25.46 | 25.67 | 25.91 | 26.31 | 26.97 | 28.03 | 28.58 | 29.58 | | | |
| 30.0 | 26.14 | 26.72 | 27.05 | 27.24 | 27.41 | 27.67 | 28.14 | 28.93 | 29.37 | 30.17 | 30.99 | 31.96 | |
| 35.0 | | 28.53 | 28.94 | 29.15 | 29.28 | 29.44 | 29.75 | 30.33 | 30.66 | 31.28 | 31.94 | 32.73 | |
| 40.0 | | | 31.16 | 31.42 | 31.55 | 31.65 | 31.83 | 32.22 | 32.46 | 32.93 | 33.45 | 34.08 | 35.78 |
| 45.0 | | | | 34.06 | 34.22 | 34.29 | 34.39 | 34.64 | 34.80 | 35.14 | 35.52 | 36.02 | 37.39 |
| 50.0 | | | | | 37.32 | 37.40 | 37.45 | 37.58 | 37.69 | 37.92 | 38.19 | 38.56 | 39.64 |
| 55.0 | | | | | | 40.99 | 41.02 | 41.08 | 41.14 | 41.28 | 41.46 | 41.73 | 42.55 |
| 60.0 | | | | | | | 45.12 | 45.14 | 45.16 | 45.24 | 45.35 | 45.53 | 46.13 |
| 65.0 | | | | | | | | 49.78 | 49.79 | 49.82 | 49.88 | 49.99 | 50.41 |

| 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 | 104.50 | 143.50 | 183.50 | 226.00 | 271.00 | 322.00 | 379.00 | 443.00 | 471.00 | 516.00 | | | |
| 30.0 | 86.90 | 132.00 | 176.50 | 222.00 | 270.00 | 322.00 | 380.00 | 444.00 | 471.00 | 516.00 | 555.00 | 597.00 | |
| 35.0 | | 115.50 | 165.50 | 216.00 | 267.00 | 321.00 | 380.00 | 445.00 | 472.00 | 516.00 | 555.00 | 596.00 | |
| 40.0 | | | 149.50 | 205.00 | 261.00 | 318.00 | 379.00 | 445.00 | 473.00 | 517.00 | 556.00 | 597.00 | 685.00 |
| 45.0 | | | | 189.00 | 250.00 | 312.00 | 376.00 | 444.00 | 473.00 | 517.00 | 556.00 | 597.00 | 685.00 |
| 50.0 | | | | | 234.00 | 302.00 | 370.00 | 441.00 | 470.00 | 516.00 | 556.00 | 597.00 | 686.00 |
| 55.0 | | | | | | 285.00 | 359.00 | 435.00 | 466.00 | 513.00 | 554.00 | 596.00 | 686.00 |
| 60.0 | | | | | | | 343.00 | 424.00 | 457.00 | 507.00 | 549.00 | 593.00 | 685.00 |
| 65.0 | | | | | | | | 407.00 | 442.00 | 496.00 | 541.00 | 587.00 | 683.00 |

COMPRESSOR MECHANICAL AND PHYSICAL DATA

| | |
|---|--|
| Displacement @ 50 Hz, m ³ /h | 72.8 |
| Length/Width, mm | 746/403 |
| Height, mm | 596 |
| Net Weight, kg | 131 |
| Stub Suction, inch | 1 5/8 |
| Stub Discharge, inch | 1 3/8 |
| Oil Quantity, l | 6.51 |
| Oil type (original charge) | POE RL32-3MAF |
| Oil type (approved oils) | POE RL32-3MAF, POE MOBIL EAL Arctic 22 CC |
| Base mounting (hole dia), mm | 546 x 190.5 (22.4) |
| Sound Pressure @ 1m (HT), dBA | 64 |
| Sound Power (HT), dBA | 75 |
| Sound Conditions (HT, Temperatures: | 7 / 54 / 18 °C at 50 Hz |
| Evap./Cond./Suction at freq./speed) | |
| High Side PS gauge, bar | 32 |
| Low Side PS gauge, bar | 20 |
| Low Side TS Max., °C | 52 |
| Low Side TS Min., °C | -35 |
| Refrigerant's GWP | 1774 |
| Refrigerant's classification | A1 |

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

| | |
|------------------------------|----------------|
| Maximum Operating Current, A | 2 x 28 |
| Locked Rotor Current, A | 2 x 140 |
| Default Enclosure Class | IP 21 (IEC 34) |

ACCESSORIES INCLUDED

| | |
|----------------------------------|--------------------------------|
| Discharge Temperature Protection | ASTP Therm-O-Disc In Scroll |
| Enclosure Class | IP21 |
| Mounting Grommets | Rubber Grommet For Single |
| Oil Charge | |
| Oil Service Valve | Schraeder Valve |
| Check Valve | Discharge Low Leak Check Valve |

ACCESSORIES OPTIONAL

| | |
|--------------------|------------------------------|
| Crankcase Heater | 90 W External |
| Enclosure Class | IP66 With Molded Plug |
| Mounting Grommets | Hard Mounts for Paralleling |
| Adapter Kit | R1"1/4 -B 1"1/8 For TPTL for |
| Oil Control System | Parallel Operation |
| Sound Attenuation | ALCO Trax-Oil OM3 |
| | 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 |
| TF5 | 200-220 V / 3~ / 50 Hz | 200 | | Y | 2.09 |
| TFD | 460 V / 3~ / 60 Hz | 460 | | Y | 1.04 |
| TF5 | 200-230 V / 3~ / 60 Hz | 230 | | Y | 2.09 |