



Minimum Evaporating Temp. With:

- 10 K Suction Superheat — 20 °C Suction Gas Return
- Maximum Evaporating Temperature — Maximum Pressure Limit

Suction Return Temperature 18.3°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

| Ambient °C | Cooling Capacity, kW | | | | | | | | | |
|---------------|----------------------|-------|-------|------|------|------|------|-------|-------|------|
| | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 | 10.0 | 12.5 | 15.0 |
| 27.0 | 3.21 | 4.02 | 4.99 | 6.12 | 7.39 | 8.82 | 9.43 | 10.40 | 11.20 | |
| 32.0 | 2.98 | 3.75 | 4.67 | 5.74 | 6.95 | 8.30 | 8.88 | 9.78 | 10.55 | |
| 38.0 | | 3.43 | 4.27 | 5.26 | 6.38 | 7.64 | 8.18 | 9.02 | 9.75 | |
| 43.0 | | | 3.95 | 4.86 | 5.90 | 7.07 | 7.57 | 8.36 | 9.04 | |
| 46.0 | | | 3.76 | 4.62 | 5.61 | 6.72 | 7.20 | 7.95 | 8.61 | |
| 49.0 | | | | 4.38 | 5.31 | 6.37 | 6.82 | 7.54 | 8.17 | |

Additional restrictions, please see application guidelines

| Ambient °C | Total Power Input, kW | | | | | | | | | |
|---------------|-----------------------|-------|-------|------|------|------|------|------|------|------|
| | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 | 10.0 | 12.5 | 15.0 |
| 27.0 | 1.77 | 1.79 | 1.81 | 1.84 | 1.88 | 1.95 | 1.98 | 2.03 | 2.09 | |
| 32.0 | 1.95 | 1.98 | 2.00 | 2.03 | 2.07 | 2.13 | 2.16 | 2.21 | 2.26 | |
| 38.0 | | 2.23 | 2.26 | 2.29 | 2.33 | 2.39 | 2.41 | 2.46 | 2.51 | |
| 43.0 | | | 2.50 | 2.54 | 2.58 | 2.63 | 2.66 | 2.70 | 2.75 | |
| 46.0 | | | 2.66 | 2.70 | 2.74 | 2.79 | 2.82 | 2.86 | 2.91 | |
| 49.0 | | | | 2.88 | 2.92 | 2.97 | 2.99 | 3.04 | 3.08 | |

| Ambient °C | Current at 400 V, A | | | | | | | | | |
|---------------|---------------------|-------|-------|------|------|------|------|------|------|------|
| | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 | 10.0 | 12.5 | 15.0 |
| 27.0 | 4.91 | 4.93 | 4.95 | 5.00 | 5.07 | 5.16 | 5.20 | 5.28 | 5.35 | |
| 32.0 | 5.17 | 5.19 | 5.21 | 5.25 | 5.31 | 5.39 | 5.43 | 5.50 | 5.57 | |
| 38.0 | | 5.52 | 5.55 | 5.59 | 5.64 | 5.72 | 5.76 | 5.82 | 5.88 | |
| 43.0 | | | 5.87 | 5.91 | 5.96 | 6.04 | 6.08 | 6.14 | 6.20 | |
| 46.0 | | | 6.09 | 6.13 | 6.18 | 6.26 | 6.30 | 6.36 | 6.42 | |
| 49.0 | | | | 6.37 | 6.43 | 6.51 | 6.54 | 6.61 | 6.67 | |

| Ambient °C | Mass Flow, g/s | | | | | | | | | |
|---------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 | 10.0 | 12.5 | 15.0 |
| 27.0 | 21.10 | 26.80 | 33.80 | 42.20 | 52.20 | 63.90 | 69.10 | 77.60 | 85.20 | |
| 32.0 | 20.60 | 26.30 | 33.20 | 41.60 | 51.50 | 63.20 | 68.50 | 76.90 | 84.70 | |
| 38.0 | | 25.60 | 32.40 | 40.70 | 50.60 | 62.20 | 67.40 | 75.90 | 83.60 | |
| 43.0 | | | 31.70 | 39.90 | 49.60 | 61.20 | 66.40 | 74.80 | 82.50 | |
| 46.0 | | | 31.40 | 39.40 | 49.00 | 60.50 | 65.70 | 74.10 | 81.80 | |
| 49.0 | | | | 38.90 | 48.40 | 59.80 | 64.90 | 73.30 | 81.00 | |

Additional restrictions, please see application guidelines

CONDENSING UNIT MECHANICAL AND PHYSICAL DATA

| | |
|------------------------------|----------------|
| Condenser/Fan Type | P8/121 |
| Number of Fans | 2 |
| Total Fan Power Input, W | 220 |
| Depth/Width, mm | 640/950 |
| Height, mm | 633 |
| Base mounting (hole dia), mm | 915 x 380 (14) |
| Gross Weight, kg | 114 |
| Net Weight, kg | 86.5 |
| Receiver Capacity, l | 7.9 |
| Liquid Line, inch | 1/2 |
| Air Flow, m ³ /s | 1.06 |
| Suction Type | Rotalock Valve |
| Suction Diameter, inch | 7/8 |
| Sound Pressure @ 10m, dBA | 49 |

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

| | |
|--|-------------|
| Condenser Fan Current for 1 fan (single phase) | 0.45 / 0.65 |
| Compressor Maximum Operating Current, A | 10.3 |
| Compressor Locked Rotor Current, A | 49.3 |

ACCESSORIES INCLUDED

| | |
|------------------------------|----------------|
| Crankcase Heater | 70 W External |
| Electric box (W x H x D), mm | 140 x 205 x 60 |
| HP/LP Switch | ALCO PS2-W7A |

ACCESSORIES OPTIONAL

| | |
|-------------------|-----------------------|
| Housing | PCR |
| Fan speed control | ALCO FSX41S for R134a |
| Fan speed control | ALCO FSX42S |

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 |

Additional restrictions, please see application guidelines