



Minimum Evaporating Temp. With:

— 25 °C Suction Gas Return Liquid injection

— Maximum Evaporating Temperature

— Maximum Pressure Limit

Suction Return Temperature 18.3°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

| Ambient °C | Cooling Capacity, kW | | | | | | | | | | |
|---------------|----------------------|-------|-------|-------|-------|-------|-------|------|------|-------|-------|
| | -40.0 | -35.0 | -30.0 | -25.0 | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 |
| 27.0 | 2.13 | 2.66 | 3.27 | 3.95 | 4.73 | 5.60 | 6.57 | 7.64 | 8.81 | 10.05 | 10.60 |
| 32.0 | 2.01 | 2.51 | 3.07 | 3.70 | 4.42 | 5.22 | 6.11 | 7.10 | 8.18 | 9.36 | 9.85 |
| 38.0 | 1.84 | 2.31 | 2.82 | 3.38 | 4.02 | 4.74 | 5.54 | 6.42 | 7.40 | 8.46 | 8.91 |
| 43.0 | 1.70 | 2.12 | 2.58 | 3.09 | 3.67 | 4.31 | 5.03 | 5.83 | 6.72 | 7.69 | 8.10 |
| 46.0 | 1.60 | 2.00 | 2.43 | 2.91 | 3.44 | 4.04 | 4.72 | 5.47 | 6.30 | | |
| 49.0 | 1.49 | 1.86 | | 2.71 | 3.21 | 3.77 | 4.39 | | | | |

| Ambient °C | Total Power Input, kW | | | | | | | | | | |
|---------------|-----------------------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| | -40.0 | -35.0 | -30.0 | -25.0 | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 |
| 27.0 | 2.05 | 2.10 | 2.18 | 2.28 | 2.40 | 2.55 | 2.73 | 2.92 | 3.14 | 3.38 | 3.48 |
| 32.0 | 2.22 | 2.27 | 2.35 | 2.45 | 2.57 | 2.72 | 2.89 | 3.09 | 3.31 | 3.55 | 3.65 |
| 38.0 | 2.45 | 2.50 | 2.57 | 2.67 | 2.80 | 2.95 | 3.12 | 3.32 | 3.54 | 3.78 | 3.89 |
| 43.0 | 2.65 | 2.70 | 2.78 | 2.88 | 3.01 | 3.16 | 3.34 | 3.54 | 3.76 | 4.00 | 4.11 |
| 46.0 | 2.79 | 2.84 | 2.92 | 3.02 | 3.15 | 3.30 | 3.48 | 3.68 | 3.90 | | |
| 49.0 | 2.92 | 2.98 | | 3.17 | 3.30 | 3.45 | 3.63 | | | | |

| Ambient °C | Current at 400 V, A | | | | | | | | | | |
|---------------|---------------------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| | -40.0 | -35.0 | -30.0 | -25.0 | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 |
| 27.0 | 5.09 | 5.13 | 5.20 | 5.28 | 5.39 | 5.52 | 5.68 | 5.87 | 6.09 | 6.35 | 6.46 |
| 32.0 | 5.19 | 5.23 | 5.30 | 5.39 | 5.51 | 5.65 | 5.83 | 6.03 | 6.27 | 6.54 | 6.66 |
| 38.0 | 5.36 | 5.40 | 5.48 | 5.58 | 5.70 | 5.86 | 6.05 | 6.26 | 6.52 | 6.81 | 6.94 |
| 43.0 | 5.55 | 5.60 | 5.67 | 5.78 | 5.91 | 6.07 | 6.27 | 6.50 | 6.77 | 7.07 | 7.21 |
| 46.0 | 5.69 | 5.74 | 5.81 | 5.92 | 6.06 | 6.23 | 6.43 | 6.67 | 6.94 | | |
| 49.0 | 5.85 | 5.90 | | 6.08 | 6.22 | 6.39 | 6.60 | | | | |

| Ambient °C | Mass Flow, g/s | | | | | | | | | | |
|---------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | -40.0 | -35.0 | -30.0 | -25.0 | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 |
| 27.0 | 14.70 | 18.65 | 23.20 | 28.60 | 34.90 | 42.30 | 51.10 | 61.50 | 73.80 | 88.50 | 95.20 |
| 32.0 | 14.70 | 18.60 | 23.10 | 28.40 | 34.60 | 41.90 | 50.60 | 60.90 | 73.20 | 88.00 | 94.80 |
| 38.0 | 14.60 | 18.50 | 22.90 | 28.10 | 34.20 | 41.30 | 49.90 | 60.10 | 72.40 | 87.40 | 94.30 |
| 43.0 | 14.45 | 18.30 | 22.70 | 27.70 | 33.60 | 40.70 | 49.10 | 59.30 | 71.70 | 87.00 | 94.20 |
| 46.0 | 14.25 | 18.10 | 22.40 | 27.40 | 33.30 | 40.20 | 48.60 | 58.80 | 71.30 | | |
| 49.0 | 14.00 | 17.85 | | 27.00 | 32.80 | 39.70 | 48.10 | | | | |

CONDENSING UNIT MECHANICAL AND PHYSICAL DATA

| | |
|------------------------------|----------------|
| Condenser/Fan Type | M8E/R10R-42APS |
| Number of Fans | 1 |
| Total Fan Power Input, W | 180 |
| Depth/Width, mm | 730/735 |
| Height, mm | 708 |
| Base mounting (hole dia), mm | 700 x 390 (14) |
| Gross Weight, kg | 105 |
| Net Weight, kg | 88 |
| Receiver Capacity, l | 7.9 |
| Liquid Line, inch | 1/2 |
| Air Flow, m ³ /s | 0.94 |
| Suction Type | Rotalock Valve |
| Suction Diameter, inch | 7/8 |

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

| | |
|---|-----|
| Compressor Maximum Operating Current, A | 7.1 |
| Compressor Locked Rotor Current, A | 46 |

ACCESSORIES INCLUDED

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

ACCESSORIES OPTIONAL

| | |
|-------------------|-------------------|
| Housing | M |
| Fan speed control | ALCO FSE-02S (MP) |

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 |