



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 | | | | | | | |
|---------------|----------------------|-------|-------|-------|-------|-------|-------|-------|
| | -25.0 | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 |
| 27.0 | | 8.17 | 10.20 | 12.45 | 14.85 | 17.45 | 20.30 | 21.40 |
| 32.0 | | | 9.45 | 11.60 | 13.85 | 16.35 | 19.00 | 20.10 |
| 38.0 | | | | 10.45 | 12.60 | 14.90 | 17.40 | 18.40 |
| 43.0 | | | | | 11.50 | 13.65 | | |
| 46.0 | | | | | | | | |
| 49.0 | | | | | | | | |

50 Hz

MC-S9-ZB50KE-TFD

R449A Dew Point

| Ambient °C | Total Power Input, kW | | | | | | | |
|---------------|-----------------------|-------|-------|-------|------|------|------|------|
| | -25.0 | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 |
| 27.0 | | 4.62 | 4.83 | 5.06 | 5.30 | 5.56 | 5.85 | 5.97 |
| 32.0 | | | 5.37 | 5.61 | 5.86 | 6.14 | 6.43 | 6.55 |
| 38.0 | | | | 6.38 | 6.64 | 6.92 | 7.22 | 7.35 |
| 43.0 | | | | | 7.39 | 7.67 | | |
| 46.0 | | | | | | | | |
| 49.0 | | | | | | | | |

| Ambient °C | Current at 400 V, A | | | | | | | |
|---------------|---------------------|-------|-------|-------|-------|-------|-------|-------|
| | -25.0 | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 |
| 27.0 | | 9.11 | 9.33 | 9.57 | 9.84 | 10.13 | 10.46 | 10.60 |
| 32.0 | | | 9.92 | 10.19 | 10.48 | 10.80 | 11.15 | 11.30 |
| 38.0 | | | | 11.09 | 11.42 | 11.77 | 12.15 | 12.31 |
| 43.0 | | | | | 12.36 | 12.73 | | |
| 46.0 | | | | | | | | |
| 49.0 | | | | | | | | |

| Ambient °C | Mass Flow, g/s | | | | | | | |
|---------------|----------------|-------|-------|-------|-------|--------|--------|--------|
| | -25.0 | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 |
| 27.0 | | 46.80 | 59.80 | 74.60 | 91.60 | 111.50 | 134.50 | 144.50 |
| 32.0 | | | 58.10 | 73.00 | 90.10 | 110.00 | 133.00 | 143.00 |
| 38.0 | | | | 70.50 | 87.70 | 107.50 | 130.50 | 141.00 |
| 43.0 | | | | | 85.00 | 105.00 | | |
| 46.0 | | | | | | | | |
| 49.0 | | | | | | | | |

CONDENSING UNIT MECHANICAL AND PHYSICAL DATA

| | |
|------------------------------|-----------------|
| Condenser/Fan Type | S9/271 |
| Number of Fans | 2 |
| Total Fan Power Input, W | 470 |
| Depth/Width, mm | 820/1130 |
| Height, mm | 703 |
| Base mounting (hole dia), mm | 1095 x 475 (14) |
| Gross Weight, kg | 134 |
| Net Weight, kg | 113 |
| Receiver Capacity, l | 11.7 |
| Liquid Line, inch | 5/8 |
| Air Flow, m ³ /s | 1.94 |
| Suction Type | Rotalock Valve |
| Suction Diameter, inch | 1 3/8 |
| Sound Pressure @ 10m, dBA | 50 |

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

| | |
|--|------------|
| Condenser Fan Current for 1 fan (single phase) | 1.15 / 1.4 |
| Compressor Maximum Operating Current, A | 14.6 |
| Compressor Locked Rotor Current, A | 100 |

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 | RSQR |
| Fan speed control | ALCO FSX41S for R134a |
| Fan speed control | ALCO FSX42S |

MOTOR OPTIONS

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