



Minimum Evaporating Temp. With:

- 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 | | | | | | | | |
|---------------|----------------------|-------|------|-------|-------|-------|-------|-------|------|
| | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 | 10.0 | 12.5 | 15.0 |
| 27.0 | 5.95 | 7.20 | 8.64 | 10.25 | 12.05 | 12.85 | 14.05 | 15.10 | |
| 32.0 | 5.61 | 6.80 | 8.16 | 9.68 | 11.40 | 12.10 | 13.25 | 14.25 | |
| 38.0 | 5.20 | 6.30 | 7.55 | 8.96 | 10.50 | 11.20 | 12.25 | 13.15 | |
| 43.0 | 4.84 | 5.87 | 7.03 | 8.33 | 9.78 | 10.40 | 11.40 | 12.25 | |
| 46.0 | 4.62 | 5.60 | 6.71 | 7.95 | 9.33 | 9.92 | 10.85 | 11.65 | |
| 49.0 | 4.40 | 5.33 | 6.38 | 7.56 | 8.87 | 9.43 | 10.30 | 11.10 | |

Additional restrictions, please see application guidelines

| Ambient °C | Total Power Input, kW | | | | | | | | |
|---------------|-----------------------|-------|------|------|------|------|------|------|------|
| | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 | 10.0 | 12.5 | 15.0 |
| 27.0 | 2.33 | 2.50 | 2.66 | 2.83 | 2.99 | 3.06 | 3.16 | 3.25 | |
| 32.0 | 2.51 | 2.69 | 2.87 | 3.05 | 3.24 | 3.31 | 3.42 | 3.51 | |
| 38.0 | 2.75 | 2.95 | 3.15 | 3.35 | 3.55 | 3.63 | 3.75 | 3.85 | |
| 43.0 | 2.97 | 3.18 | 3.39 | 3.61 | 3.82 | 3.91 | 4.04 | 4.14 | |
| 46.0 | 3.12 | 3.33 | 3.55 | 3.77 | 3.99 | 4.08 | 4.22 | 4.33 | |
| 49.0 | 3.27 | 3.49 | 3.72 | 3.94 | 4.17 | 4.27 | 4.40 | 4.52 | |

| Ambient °C | Current at 400 V, A | | | | | | | | |
|---------------|---------------------|-------|------|------|------|------|------|------|------|
| | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 | 10.0 | 12.5 | 15.0 |
| 27.0 | 5.64 | 5.74 | 5.86 | 5.98 | 6.12 | 6.17 | 6.26 | 6.33 | |
| 32.0 | 5.76 | 5.88 | 6.02 | 6.17 | 6.32 | 6.38 | 6.48 | 6.57 | |
| 38.0 | 5.93 | 6.08 | 6.24 | 6.42 | 6.60 | 6.67 | 6.79 | 6.89 | |
| 43.0 | 6.10 | 6.28 | 6.46 | 6.66 | 6.86 | 6.95 | 7.08 | 7.19 | |
| 46.0 | 6.22 | 6.41 | 6.61 | 6.82 | 7.04 | 7.13 | 7.27 | 7.39 | |
| 49.0 | 6.35 | 6.55 | 6.76 | 6.99 | 7.22 | 7.32 | 7.47 | 7.59 | |

| Ambient °C | Mass Flow, g/s | | | | | | | | |
|---------------|----------------|-------|-------|-------|-------|-------|--------|--------|------|
| | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 | 10.0 | 12.5 | 15.0 |
| 27.0 | 39.70 | 48.90 | 59.70 | 72.50 | 87.40 | 94.10 | 105.00 | 114.50 | |
| 32.0 | 39.30 | 48.50 | 59.30 | 71.90 | 86.80 | 93.40 | 104.00 | 114.00 | |
| 38.0 | 38.80 | 47.80 | 58.50 | 71.10 | 85.80 | 92.40 | 103.00 | 112.50 | |
| 43.0 | 38.30 | 47.20 | 57.80 | 70.20 | 84.70 | 91.30 | 102.00 | 111.50 | |
| 46.0 | 37.90 | 46.80 | 57.20 | 69.60 | 84.00 | 90.50 | 101.00 | 110.50 | |
| 49.0 | 37.60 | 46.30 | 56.70 | 68.90 | 83.20 | 89.70 | 100.00 | 110.00 | |

Additional restrictions, please see application guidelines

CONDENSING UNIT MECHANICAL AND PHYSICAL DATA

| | |
|--|-----------------------------|
| Condenser/Fan Type | ZXM_2F/60 W |
| Number of Fans | 2 |
| Total Fan Power Input, W | 246 |
| Depth/Width, mm | 1035/447 |
| Height, mm | 1244 |
| Base mounting (hole dia), mm | 580 x 388 (12) |
| Net Weight, kg | 112 |
| Receiver Capacity, l | 5.9 |
| Liquid Line, inch | 1/2 |
| Air Flow, m ³ /s | 1.64 |
| High Side PS gauge, bar | 28.8 |
| Low Side PS gauge, bar | 21 |
| Suction Type | Cu Tube |
| Suction Diameter, inch | 7/8 |
| Sound Pressure @ 10m (MT), dBA | 41 |
| Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed) | -10.0/45.0/20.0 °C at 50 Hz |

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

| | |
|---|------|
| Compressor Maximum Operating Current, A | 11.4 |
| Compressor Locked Rotor Current, A | 74 |

ACCESSORIES INCLUDED

| | |
|-------------------------------------|--------------------------------|
| Crankcase Heater | 70 W External |
| Liquid Injection | DTC Valve |
| Oil separator | ALCO OSH-404 |
| Liquid sight glass | ALCO MIA 012 |
| Compressor contactor | 12 A |
| Control circuit fuse | S7-904-5355-0 |
| HP Switch | ALCO PS3 WDS (Automatic reset) |
| Electronic controller | Emerson XCM25D |
| Filter Drier | ALCO ADK Plus |
| Circuit breaker, over current relay | 20 A |

ACCESSORIES OPTIONAL

| | |
|-------------------------------|--------------|
| LP Adjustable Pressure Switch | Alco PS1-A3A |
|-------------------------------|--------------|

Additional restrictions, please see application guidelines

50 Hz

ZXDE-060E-TFD

R513A

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