



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<br>°C | Cooling Capacity, kW |       |      |       |       |       |       |       |      |
|---------------|----------------------|-------|------|-------|-------|-------|-------|-------|------|
|               | -15.0                | -10.0 | -5.0 | 0.0   | 5.0   | 7.0   | 10.0  | 12.5  | 15.0 |
| 27.0          | 6.72                 | 8.12  | 9.74 | 11.55 | 13.65 | 14.50 | 15.90 | 17.15 |      |
| 32.0          | 6.34                 | 7.67  | 9.19 | 10.90 | 12.85 | 13.70 | 15.00 | 16.15 |      |
| 38.0          | 5.87                 | 7.10  | 8.51 | 10.10 | 11.90 | 12.65 | 13.85 | 14.95 |      |
| 43.0          | 5.46                 | 6.62  | 7.93 | 9.41  | 11.05 | 11.75 | 12.90 | 13.90 |      |
| 46.0          | 5.22                 | 6.32  | 7.57 | 8.98  | 10.55 | 11.25 | 12.30 | 13.25 |      |
| 49.0          | 4.97                 | 6.02  | 7.21 | 8.55  | 10.05 | 10.70 | 11.70 | 12.60 |      |

Additional restrictions, please see application guidelines

50 Hz ZXDE-075E-TFD R513A

| Ambient<br>°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          | 2.53                  | 2.71  | 2.88 | 3.06 | 3.25 | 3.32 | 3.43 | 3.53 |      |
| 32.0          | 2.73                  | 2.92  | 3.12 | 3.31 | 3.51 | 3.59 | 3.72 | 3.82 |      |
| 38.0          | 3.00                  | 3.21  | 3.42 | 3.63 | 3.85 | 3.94 | 4.08 | 4.19 |      |
| 43.0          | 3.24                  | 3.46  | 3.69 | 3.92 | 4.15 | 4.25 | 4.39 | 4.52 |      |
| 46.0          | 3.39                  | 3.62  | 3.86 | 4.10 | 4.34 | 4.44 | 4.59 | 4.72 |      |
| 49.0          | 3.56                  | 3.80  | 4.04 | 4.29 | 4.54 | 4.65 | 4.80 | 4.93 |      |

| Ambient<br>°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          | 6.63                | 6.75  | 6.89 | 7.04 | 7.20 | 7.26 | 7.37 | 7.46 |      |
| 32.0          | 6.78                | 6.92  | 7.08 | 7.25 | 7.44 | 7.52 | 7.63 | 7.74 |      |
| 38.0          | 6.98                | 7.16  | 7.35 | 7.55 | 7.77 | 7.86 | 8.00 | 8.12 |      |
| 43.0          | 7.19                | 7.39  | 7.61 | 7.84 | 8.08 | 8.18 | 8.34 | 8.47 |      |
| 46.0          | 7.33                | 7.55  | 7.78 | 8.02 | 8.28 | 8.39 | 8.56 | 8.70 |      |
| 49.0          | 7.48                | 7.71  | 7.96 | 8.22 | 8.50 | 8.62 | 8.79 | 8.95 |      |

| Ambient<br>°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          | 44.80          | 54.90 | 67.10 | 81.40 | 98.40 | 106.00 | 118.50 | 129.50 |      |
| 32.0          | 44.30          | 54.50 | 66.60 | 80.80 | 97.60 | 105.00 | 117.50 | 128.50 |      |
| 38.0          | 43.70          | 53.80 | 65.80 | 79.90 | 96.50 | 104.00 | 116.00 | 127.00 |      |
| 43.0          | 43.10          | 53.10 | 64.90 | 78.90 | 95.40 | 102.50 | 115.00 | 126.00 |      |
| 46.0          | 42.70          | 52.60 | 64.40 | 78.20 | 94.60 | 102.00 | 114.00 | 125.00 |      |
| 49.0          | 42.20          | 52.10 | 63.80 | 77.50 | 93.70 | 101.00 | 113.00 | 124.00 |      |

Additional restrictions, please see application guidelines

**CONDENSING UNIT MECHANICAL AND PHYSICAL DATA**

|  |                             |
|--|-----------------------------|
| Condenser/Fan Type   | ZX075E/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   | 118                         |
| Receiver Capacity, l   | 5.9                         |
| Liquid Line, inch  | 1/2                         |
| Air Flow, m <sup>3</sup> /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   | 42                          |
| Sound Conditions (MT, Temperatures:<br>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 | 14  |
| Compressor Locked Rotor Current, A      | 100 |

**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-075E-TFD

R513A

**MOTOR OPTIONS**

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

Additional restrictions, please see application guidelines