



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<br>°C | Cooling Capacity, kW |       |       |       |      |       |       |       |       |
|---------------|----------------------|-------|-------|-------|------|-------|-------|-------|-------|
|               | -25.0                | -20.0 | -15.0 | -10.0 | -5.0 | 0.0   | 5.0   | 7.0   | 10.0  |
| 27.0          | 3.98                 | 5.03  | 6.23  | 7.60  | 9.16 | 10.90 | 12.90 | 13.70 | 15.05 |
| 32.0          |                      | 4.74  | 5.89  | 7.20  | 8.68 | 10.35 | 12.20 | 13.00 | 14.25 |
| 38.0          |                      | 4.36  | 5.44  | 6.67  | 8.05 | 9.61  | 11.35 | 12.10 | 13.25 |
| 43.0          |                      |       | 5.05  | 6.20  | 7.50 | 8.95  | 10.60 | 11.30 | 12.40 |
| 46.0          |                      |       |       | 5.91  | 7.15 | 8.54  | 10.10 | 10.80 | 11.85 |
| 49.0          |                      |       |       | 5.60  | 6.79 | 8.12  | 9.62  | 10.25 | 11.30 |

50 Hz

ZXDE-040E-TFD

R449A Dew Point

| Ambient<br>°C | Total Power Input, kW |       |       |       |      |      |      |      |      |
|---------------|-----------------------|-------|-------|-------|------|------|------|------|------|
|               | -25.0                 | -20.0 | -15.0 | -10.0 | -5.0 | 0.0  | 5.0  | 7.0  | 10.0 |
| 27.0          | 2.14                  | 2.26  | 2.35  | 2.44  | 2.52 | 2.64 | 2.79 | 2.86 | 2.98 |
| 32.0          |                       | 2.48  | 2.61  | 2.72  | 2.82 | 2.93 | 3.07 | 3.14 | 3.25 |
| 38.0          |                       | 2.75  | 2.95  | 3.10  | 3.23 | 3.36 | 3.50 | 3.57 | 3.68 |
| 43.0          |                       |       | 3.25  | 3.45  | 3.63 | 3.78 | 3.94 | 4.01 | 4.12 |
| 46.0          |                       |       |       | 3.68  | 3.88 | 4.06 | 4.23 | 4.30 | 4.41 |
| 49.0          |                       |       |       | 3.92  | 4.15 | 4.35 | 4.54 | 4.62 | 4.74 |

| Ambient<br>°C | Current at 400 V, A |       |       |       |      |      |      |      |      |
|---------------|---------------------|-------|-------|-------|------|------|------|------|------|
|               | -25.0               | -20.0 | -15.0 | -10.0 | -5.0 | 0.0  | 5.0  | 7.0  | 10.0 |
| 27.0          | 3.78                | 3.93  | 4.04  | 4.13  | 4.24 | 4.38 | 4.56 | 4.65 | 4.81 |
| 32.0          |                     | 4.18  | 4.34  | 4.48  | 4.60 | 4.75 | 4.93 | 5.01 | 5.16 |
| 38.0          |                     | 4.52  | 4.76  | 4.96  | 5.13 | 5.30 | 5.49 | 5.58 | 5.72 |
| 43.0          |                     |       | 5.15  | 5.42  | 5.64 | 5.85 | 6.07 | 6.16 | 6.31 |
| 46.0          |                     |       |       | 5.72  | 5.98 | 6.22 | 6.46 | 6.56 | 6.72 |
| 49.0          |                     |       |       | 6.04  | 6.35 | 6.62 | 6.89 | 6.99 | 7.16 |

| Ambient<br>°C | Mass Flow, g/s |       |       |       |       |       |       |       |       |
|---------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|
|               | -25.0          | -20.0 | -15.0 | -10.0 | -5.0  | 0.0   | 5.0   | 7.0   | 10.0  |
| 27.0          | 21.70          | 27.70 | 34.80 | 43.10 | 52.90 | 64.40 | 78.00 | 84.10 | 94.00 |
| 32.0          |                | 27.30 | 34.40 | 42.70 | 52.50 | 64.00 | 77.60 | 83.70 | 93.60 |
| 38.0          |                | 26.60 | 33.80 | 42.10 | 51.90 | 63.30 | 76.90 | 83.00 | 93.00 |
| 43.0          |                |       | 33.10 | 41.40 | 51.10 | 62.60 | 76.10 | 82.30 | 92.30 |
| 46.0          |                |       |       | 40.80 | 50.60 | 62.00 | 75.60 | 81.80 | 91.90 |
| 49.0          |                |       |       | 40.30 | 49.90 | 61.40 | 75.00 | 81.20 | 91.40 |

**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   | 104                         |
| 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   | 40                          |
| 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 | 7.9 |
| Compressor Locked Rotor Current, A      | 48  |

**ACCESSORIES INCLUDED**

|                                     |                                |
|-------------------------------------|--------------------------------|
| Crankcase Heater                    | 70 W External                  |
| Liquid Injection                    | DTC Valve                      |
| Oil separator                       | ALCO OSH-404                   |
| Liquid sight glass                  | ALCO MIA 012                   |
| Compressor contactor                | 18 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 | 10 A                           |

**ACCESSORIES OPTIONAL**

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

50 Hz

ZXDE-040E-TFD

R449A Dew Point

**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               |