



# Select 8

**Copeland**<sup>™</sup>  
brand products



**EMERSON**<sup>™</sup>



## Project Report

|                                                          |                 |
|----------------------------------------------------------|-----------------|
| Refrigerant                                              | R404A Dew Point |
| <b>High Side Properties:</b>                             |                 |
| Condensing Temperature, °C                               | 44.50           |
| Abs. Condensing Pressure, bar                            | 20.25           |
| Dew Point, °C                                            | 44.50           |
| Bubble Point, °C                                         | 44.20           |
| Saturated vapour enthalpy, kJ/kg                         | 381.00          |
| Specific volume of saturated vapour, dm <sup>3</sup> /kg | 8.60            |
| Liquid Temperature, °C                                   | 5.90            |
| Liquid enthalpy, kJ/kg                                   | 208.00          |
| <b>Low Side Properties:</b>                              |                 |
| Evaporating Temperature, °C                              | -38.00          |
| Evaporating Abs. Pressure, bar                           | 1.45            |
| Dew Point, °C                                            | -38.00          |
| Bubble Point, °C                                         | -38.70          |
| With vapour at, °C                                       | -28.00          |
| Specific volume, dm <sup>3</sup> /kg                     | 136.50          |
| Enthalpy, kJ/kg                                          | 352.00          |
| <b>Operating Conditions:</b>                             |                 |
| Evaporating Temperature, °C                              | -38.00          |
| Suction Superheat, K                                     | 10.00           |
| Ambient, °C                                              | 38.00           |
| Condensing Unit Selected                                 | ZXLE075E-TFD    |

**PERFORMANCE AT SPECIFIED OPERATING POINT**  
**ZXLE075E-TFD Data at 50 Hz**

|                            |       |
|----------------------------|-------|
| Cooling Capacity, kW       | 4.99  |
| Total Power Input, kW      | 5.29  |
| COP                        | 0.94  |
| Current at 400 V, A        | 9.24  |
| Mass Flow, g/s             | 34.60 |
| Heating Capacity, kW       | 9.78  |
| Condensing Temperature, °C | 44.50 |
| Liquid Temperature LO, °C  | 5.90  |

**CONDENSING UNIT MECHANICAL AND PHYSICAL DATA**

|                                                                            |                             |
|----------------------------------------------------------------------------|-----------------------------|
| Condenser/Fan Type                                                         | ZX075E/60 W                 |
| Base mounting (hole dia), mm                                               | 580 x 388 (12)              |
| Number of Fans                                                             | 2                           |
| Air Flow, m <sup>3</sup> /s                                                | 1.64                        |
| Total Fan Power Input, W                                                   | 246                         |
| Height, mm                                                                 | 1244                        |
| Depth/Width, mm                                                            | 1035/447                    |
| Suction Diameter, inch                                                     | 7/8                         |
| Liquid Line, inch                                                          | 1/2                         |
| Suction Type                                                               | Cu Tube                     |
| High Side PS gauge, bar                                                    | 28.8                        |
| Receiver Capacity, l                                                       | 5.9                         |
| Low Side PS gauge, bar                                                     | 21                          |
| Net Weight, kg                                                             | 121                         |
| Sound Pressure @ 10m (MT), dBA                                             | 41                          |
| 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 | 14.6 |
| Compressor Locked Rotor Current, A      | 101  |

***ACCESSORIES INCLUDED***

|                                     |                                |
|-------------------------------------|--------------------------------|
| Crankcase Heater                    | 70 W External                  |
| 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                  |
| Vapour Injection                    | Expansion Valve                |
| Circuit breaker, over current relay | 20 A                           |
| Suction Accumulator                 | ALCO A12-507                   |

***ACCESSORIES OPTIONAL***

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

