



Select 8

Copeland[™]
brand products



EMERSON



Project Report

Refrigerant	R448A Dew Point
High Side Properties:	
Condensing Temperature, °C	44.60
Abs. Condensing Pressure, bar	18.66
Dew Point, °C	44.60
Bubble Point, °C	40.10
Saturated vapour enthalpy, kJ/kg	416.00
Specific volume of saturated vapour, dm ³ /kg	11.50
Liquid Temperature, °C	9.40
Liquid enthalpy, kJ/kg	213.00
Low Side Properties:	
Evaporating Temperature, °C	-30.00
Evaporating Abs. Pressure, bar	1.60
Dew Point, °C	-30.00
Bubble Point, °C	-36.00
With vapour at, °C	-20.00
Specific volume, dm ³ /kg	145.00
Enthalpy, kJ/kg	393.00
Operating Conditions:	
Evaporating Temperature, °C	-30.00
Suction Superheat, K	10.00
Ambient, °C	35.00
Condensing Unit Selected	ZXLE040E-TFD

**PERFORMANCE AT SPECIFIED OPERATING POINT
ZXLE040E-TFD Data at 50 Hz**

Cooling Capacity, kW	3.78
Total Power Input, kW	3.09
COP	1.22
Current at 400 V, A	4.96
Mass Flow, g/s	21.00
Heating Capacity, kW	6.61
Condensing Temperature, °C	44.60
Liquid Temperature LO, °C	9.40

CONDENSING UNIT MECHANICAL AND PHYSICAL DATA

Condenser/Fan Type	ZX040E/60 W
Base mounting (hole dia), mm	580 x 388 (12)
Number of Fans	1
Air Flow, m ³ /s	0.81
Total Fan Power Input, W	116
Height, mm	840
Depth/Width, mm	1035/446
Suction Diameter, inch	7/8
Liquid Line, inch	1/2
Suction Type	Cu Tube
High Side PS gauge, bar	28.8
Receiver Capacity, l	4.1
Low Side PS gauge, bar	21
Net Weight, kg	93
Sound Pressure @ 10m (MT), dBA	38
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	9.2
Compressor Locked Rotor Current, A	51.5

ACCESSORIES INCLUDED

Crankcase Heater	70 W External
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
Vapour Injection	Expansion Valve
Circuit breaker, over current relay	10 A
Suction Accumulator	ALCO A09-507

ACCESSORIES OPTIONAL

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

