



Project Report

Refrigerant	R449A Dew Point
High Side Properties:	
Condensing Temperature, °C	41.40
Abs. Condensing Pressure, bar	17.24
Dew Point, °C	41.40
Bubble Point, °C	37.00
Saturated vapour enthalpy, kJ/kg	414.00
Specific volume of saturated vapour, dm³/kg	12.50
Low Side Properties:	
Evaporating Temperature, °C	-10.00
Evaporating Abs. Pressure, bar	3.61
Dew Point, °C	-10.00
Bubble Point, °C	-15.40
With vapour at, °C	20.00
Specific volume, dm³/kg	72.50
Enthalpy, kJ/kg	421.00
Operating Conditions:	
Evaporating Temperature, °C	-10.00
Suction Return Temperature, °C	20.00
Ambient, °C	32.00
Condensing Unit Selected	ZXME-050E-TFD

PERFORMANCE AT SPECIFIED OPERATING POINT **ZXME-050E-TFD Data at 50 Hz**

Cooling Capacity, kW	8.77
Total Power Input, kW	3.79
COP	2.31
Current at 400 V, A	6.81
Mass Flow, g/s	53.20
Heating Capacity, kW	12.15
Condensing Temperature, °C	41.40
Subcooling at the Unit's outlet, K	0.00

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	108
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
PED Category	I

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

Compressor Maximum Operating Current, A	12.8
Compressor Locked Rotor Current, A	65.5

ACCESSORIES INCLUDED

Crankcase Heater	40 W External
Liquid sight glass	ALCO MIA 012
Compressor contactor	12 A
Control circuit fuse	12 A 10x38
HP Switch	PS4-W1 21X28
Electronic controller	Emerson XCM25D
Filter Drier	ALCO ADK Plus

ACCESSORIES OPTIONAL

LP Adjustable Pressure Switch	Alco PS1-W3A
-------------------------------	--------------

