



Project Report

Refrigerant	R449A Dew Point
High Side Properties:	
Condensing Temperature, °C	39.80
Abs. Condensing Pressure, bar	16.56
Dew Point, °C	39.80
Bubble Point, °C	35.40
Saturated vapour enthalpy, kJ/kg	413.00
Specific volume of saturated vapour, dm³/kg	13.10
Liquid Temperature, °C	-1.20
Liquid enthalpy, kJ/kg	198.00
Low Side Properties:	
Evaporating Temperature, °C	-35.00
Evaporating Abs. Pressure, bar	1.29
Dew Point, °C	-35.00
Bubble Point, °C	-40.70
With vapour at, °C	20.00
Specific volume, dm³/kg	213.00
Enthalpy, kJ/kg	425.00
Operating Conditions:	
Evaporating Temperature, °C	-35.00
Suction Return Temperature, °C	20.00
Ambient, °C	32.00
Condensing Unit Selected	ZXLE-060E-TFD

PERFORMANCE AT SPECIFIED OPERATING POINT
ZXLE-060E-TFD Data at 50 Hz

Cooling Capacity, kW	4.56
Total Power Input, kW	3.70
COP	1.23
Current at 400 V, A	5.73
Mass Flow, g/s	20.10
Heating Capacity, kW	7.84
Condensing Temperature, °C	39.80
Liquid Temperature LO, °C	-1.20

CONDENSING UNIT MECHANICAL AND PHYSICAL DATA

Condenser/Fan Type	ZXL_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	116
Receiver Capacity, l	5.9
Liquid Line, inch	1/2
Air Flow, m³/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 (LT), dBA	41
Sound Pressure @ 10m (MT), dBA	41
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35.0/40.0/20.0 °C at 50 Hz
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	13.7
Compressor Locked Rotor Current, A	74

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
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