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Project Report

Project Details: New Project

Contact:

Author Name:

Refrigerant	R404A Dew Point
High Side Properties:	
Condensing Temperature, °C	45.24
Condensing Abs. Pressure, bar	20.58
Dew Point, °C	45.24
Bubble Point, °C	44.91
Saturated vapour enthalpy, kJ/kg	381.30
Specific volume of saturated vapour, dm ³ /kg	8.45
Liquid Temperature, °C	49.70
Liquid enthalpy, kJ/kg	276.83
Low Side Properties:	
Evaporating Temperature, °C	-10.00
Evaporating Abs. Pressure, bar	4.34
Dew Point, °C	-10.00
Bubble Point, °C	-10.59
With vapour at, °C	0.00
Specific volume, dm ³ /kg	47.99
Enthalpy, kJ/kg	369.46
Operating Conditions:	
Evaporating Temperature, °C	-10.00
Suction Superheat, K	10.00
Ambient, °C	35.00
Condensing Unit Selected	ZXME030E-TFD

PERFORMANCE AT SPECIFIED OPERATING POINT
ZXME030E-TFD Data at 50Hz

Cooling Capacity, kW	4.66
Total Power Input, kW	2.64
COP	1.77
Current at 400 V, A	4.56
Mass Flow, g/s	46.10
Heat Rejection, kW	7.06
Condensing Temperature, °C	45.20
Subcooling, K	0.00

CONDENSING UNIT MECHANICAL AND PHYSICAL DATA

Condenser/Fan Type	ZX030E/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	3/4
Liquid Line, inch	1/2
Suction Type	Cu Tube
High Side PS gauge, bar	28.8
Receiver Capacity, l	4.1
Sound Pressure @ 10m, dBA	40
Low Side PS gauge, bar	21
Net Weight, kg	79

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

Compressor Maximum Operating Current, A	7.2
Compressor Locked Rotor Current, A	40

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
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