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Project Report

Project Details: New Project

Contact:

Author Name:

Refrigerant R404A Dew Point

High Side Properties:

Condensing Temperature, °C	44.35
Condensing Abs. Pressure, bar	20.16
Dew Point, °C	44.35
Bubble Point, °C	44.02
Saturated vapour enthalpy, kJ/kg	381.20
Specific volume of saturated vapour, dm ³ /kg	8.68
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 ZXME050E-TFD

PERFORMANCE AT SPECIFIED OPERATING POINT
ZXME050E-TFD Data at 50Hz

Cooling Capacity, kW	8.13
Total Power Input, kW	4.38
COP	1.86
Current at 400 V, A	6.74
Mass Flow, g/s	79.20
Heat Rejection, kW	12.05
Condensing Temperature, °C	44.40
Subcooling, K	0.00

CONDENSING UNIT MECHANICAL AND PHYSICAL DATA

Condenser/Fan Type	ZXM_2F/60 W
Base mounting (hole dia), mm	580 x 388 (12)
Number of Fans	2
Air Flow, m ³ /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
Sound Pressure @ 10m, dBA	41
Low Side PS gauge, bar	21
Net Weight, kg	108

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
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