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Project Report

Project Details: New Project

Contact:

Author Name:

Refrigerant R404A Dew Point

High Side Properties:

Condensing Temperature, °C	46.33
Condensing Abs. Pressure, bar	21.11
Dew Point, °C	46.33
Bubble Point, °C	46.00
Saturated vapour enthalpy, kJ/kg	381.41
Specific volume of saturated vapour, dm ³ /kg	8.18
Liquid Temperature, °C	44.67
Liquid enthalpy, kJ/kg	267.93

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 ZXME040E-PFJ

PERFORMANCE AT SPECIFIED OPERATING POINT
ZXME040E-PFJ Data at 50Hz

Cooling Capacity, kW	6.06
Total Power Input, kW	3.54
COP	1.71
Current at 230 V, A	17.73
Mass Flow, g/s	61.10
Heat Rejection, kW	9.32
Condensing Temperature, °C	46.30
Subcooling, K	0.00

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	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	91

CONDENSING UNIT ELECTRICAL DATA (220-240 V / 1~ / 50 Hz)

Compressor Maximum Operating Current, A	23.5
Compressor Locked Rotor Current, A	114

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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