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Project Report

Project Details: New Project

Contact:

Author Name:

Refrigerant R404A Dew Point

High Side Properties:

Condensing Temperature, °C	43.38
Condensing Abs. Pressure, bar	19.70
Dew Point, °C	43.38
Bubble Point, °C	43.03
Saturated vapour enthalpy, kJ/kg	381.07
Specific volume of saturated vapour, dm ³ /kg	8.94
Liquid Temperature, °C	44.67
Liquid enthalpy, kJ/kg	267.93

Low Side Properties:

Evaporating Temperature, °C	-25.00
Evaporating Abs. Pressure, bar	2.50
Dew Point, °C	-25.00
Bubble Point, °C	-25.67
With vapour at, °C	-15.00
Specific volume, dm ³ /kg	81.63
Enthalpy, kJ/kg	360.46

Operating Conditions:

Evaporating Temperature, °C	-25.00
Suction Superheat, K	10.00
Ambient, °C	35.00

Condensing Unit Selected ZXLE030E-PFJ

Additional restrictions, please see application guidelines

PERFORMANCE AT SPECIFIED OPERATING POINT
ZXLE030E-PFJ Data at 50Hz

Cooling Capacity, kW	3.51
Total Power Input, kW	2.50
COP	1.40
Current at 230 V, A	11.07
Mass Flow, g/s	24.90
Heat Rejection, kW	5.77
Condensing Temperature, °C	43.40

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	81

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

Compressor Maximum Operating Current, A	17.8
Compressor Locked Rotor Current, A	82.3

Additional restrictions, please see application guidelines

ACCESSORIES INCLUDED

Crankcase Heater	70 W External
Oil separator	ALCO OSH-404
Liquid sight glass	ALCO MIA 012
Compressor contactor	18 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	10 A
Suction Accumulator	ALCO A09-507

ACCESSORIES OPTIONAL

LP Adjustable Pressure Switch	Alco PS1-A3A
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