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Project Report

Project Details: New Project

Contact:

Author Name:

Refrigerant R404A Dew Point

High Side Properties:

Condensing Temperature, °C	47.54
Condensing Abs. Pressure, bar	21.72
Dew Point, °C	47.54
Bubble Point, °C	47.23
Saturated vapour enthalpy, kJ/kg	381.49
Specific volume of saturated vapour, dm³/kg	7.88
Liquid Temperature, °C	49.70
Liquid enthalpy, kJ/kg	276.83

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, dm³/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 ZXLE060E-TFD

Additional restrictions, please see application guidelines

PERFORMANCE AT SPECIFIED OPERATING POINT
ZXLE060E-TFD Data at 50Hz

Cooling Capacity, kW	7.46
Total Power Input, kW	5.60
COP	1.33
Current at 400 V, A	8.90
Mass Flow, g/s	54.40
Heat Rejection, kW	12.55
Condensing Temperature, °C	47.50

CONDENSING UNIT MECHANICAL AND PHYSICAL DATA

Condenser/Fan Type	ZXL_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	116

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

Compressor Maximum Operating Current, A	13.7
Compressor Locked Rotor Current, A	74

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	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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