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Project Report

Project Details: New Project

Contact:

Author Name:

Refrigerant	R404A Dew Point
High Side Properties:	
Condensing Temperature, °C	45.41
Condensing Abs. Pressure, bar	20.66
Dew Point, °C	45.41
Bubble Point, °C	45.07
Saturated vapour enthalpy, kJ/kg	381.32
Specific volume of saturated vapour, dm ³ /kg	8.41
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	ZXDE-075E-TFD

PERFORMANCE AT SPECIFIED OPERATING POINT
ZXDE-075E-TFD Data at 50Hz

Cooling Capacity, kW	10.55
Total Power Input, kW	5.51
COP	1.92
Current at 400 V, A	10.20
Mass Flow, g/s	105.00
Heat Rejection, kW	15.55
Condensing Temperature, °C	45.40
Subcooling, K	0.00

CONDENSING UNIT MECHANICAL AND PHYSICAL DATA

Condenser/Fan Type	ZX075E/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	42
Low Side PS gauge, bar	21
Net Weight, kg	118

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

Compressor Maximum Operating Current, A	14
Compressor Locked Rotor Current, A	100

ACCESSORIES INCLUDED

Crankcase Heater	70 W External
Liquid Injection	DTC Valve
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
Circuit breaker, over current relay	20 A

ACCESSORIES OPTIONAL

LP Adjustable Pressure Switch	Alco PS1-A3A
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