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EMERSON[™]



Project Report

Project Details: New Project
Contact:

Author Name:

Refrigerant	R404A Dew Point
High Side Properties:	
Condensing Temperature, °C	45.01
Condensing Abs. Pressure, bar	20.47
Dew Point, °C	45.01
Bubble Point, °C	44.68
Saturated vapour enthalpy, kJ/kg	381.28
Specific volume of saturated vapour, dm ³ /kg	8.51
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-030E-TFD

**PERFORMANCE AT SPECIFIED OPERATING POINT
ZXDE-030E-TFD Data at 50Hz**

Cooling Capacity, kW	4.73
Total Power Input, kW	2.40
COP	1.97
Current at 400 V, A	4.30
Mass Flow, g/s	46.60
Heat Rejection, kW	6.90
Condensing Temperature, °C	45.00
Subcooling, K	0.00

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
Low Side PS gauge, bar	21
Net Weight, kg	79
Sound Pressure @ 10m (MT), dBA	39
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10.0/45.0/20.0 °C at 50 Hz

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

Compressor Maximum Operating Current, A	6.7
Compressor Locked Rotor Current, A	40

ACCESSORIES INCLUDED

Crankcase Heater	70 W External
Liquid Injection	DTC Valve
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
Circuit breaker, over current relay	10 A

ACCESSORIES OPTIONAL

LP Adjustable Pressure Switch	Alco PS1-A3A
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