



Minimum Evaporating Temp. With:

█ 20 °C Suction Gas Return

█ Maximum Evaporating Temperature

█ Maximum Pressure Limit

Suction Return Temperature 20.0°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Ambient °C	Cooling Capacity, kW						
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
27.0	7.92	9.50	11.25	13.15	15.25	17.50	18.45
32.0	7.34	8.80	10.40	12.20	14.10	16.20	17.05
38.0	6.59	7.90	9.35	10.95	12.65	14.50	15.30
43.0	5.93	7.11	8.41	9.84	11.40	13.10	13.80
46.0	5.52	6.62	7.83	9.16	10.60		
49.0	5.09	6.11	7.23				

50 Hz

ZXME060E-TFD

R404A Dew Point

Ambient °C	Total Power Input, kW						
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
27.0	4.10	4.22	4.35	4.49	4.64	4.80	4.86
32.0	4.57	4.70	4.83	4.97	5.12	5.28	5.34
38.0	5.22	5.35	5.48	5.62	5.77	5.93	5.99
43.0	5.83	5.96	6.10	6.24	6.38	6.53	6.60
46.0	6.24	6.37	6.50	6.64	6.78		
49.0	6.67	6.80	6.93				

Ambient °C	Current at 400 V, A						
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
27.0	8.79	8.96	9.14	9.33	9.54	9.76	9.85
32.0	9.41	9.60	9.79	9.99	10.21	10.44	10.54
38.0	10.31	10.51	10.72	10.93	11.16	11.39	11.49
43.0	11.21	11.42	11.63	11.85	12.07	12.31	12.40
46.0	11.82	12.03	12.25	12.46	12.69		
49.0	12.48	12.70	12.91				

Ambient °C	Mass Flow, g/s						
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
27.0	57.60	70.70	86.10	104.00	125.00	150.00	161.00
32.0	56.70	69.70	84.80	102.50	123.50	148.00	159.00
38.0	55.30	68.00	82.80	100.50	121.00	145.50	157.00
43.0	53.80	66.30	80.90	98.20	119.00	143.50	155.00
46.0	52.70	65.10	79.60	96.80	117.50		
49.0	51.60	63.80	78.20				

CONDENSING UNIT MECHANICAL AND PHYSICAL DATA

Condenser/Fan Type	ZXM_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
Low Side PS gauge, bar	21
Net Weight, kg	112
Sound Pressure @ 10m (MT), dBA	41
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	13.1
Compressor Locked Rotor Current, A	74

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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MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
TFD	380-420 V / 3~ / 50 Hz	400		Y	1.00



Select 8

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Project Report

Project Details: New Project
Contact:

Author Name:

Refrigerant	R404A Dew Point
High Side Properties:	
Condensing Temperature, °C	43.40
Abs. Condensing Pressure, bar	19.73
Dew Point, °C	43.40
Bubble Point, °C	43.10
Saturated vapour enthalpy, kJ/kg	381.00
Specific volume of saturated vapour, dm ³ /kg	8.90
Liquid Temperature, °C	0.00
Liquid enthalpy, kJ/kg	-1.00
Low Side Properties:	
Evaporating Temperature, °C	-10.00
Evaporating Abs. Pressure, bar	4.34
Dew Point, °C	-10.00
Bubble Point, °C	-10.60
With vapour at, °C	20.00
Specific volume, dm ³ /kg	53.00
Enthalpy, kJ/kg	388.00
Operating Conditions:	
Evaporating Temperature, °C	-10.00
Suction Return Temperature, °C	20.00
Ambient, °C	32.00
Condensing Unit Selected	ZXME060E-TFD

**PERFORMANCE AT SPECIFIED OPERATING POINT
ZXME060E-TFD Data at 50 Hz**

Cooling Capacity, kW	10.40
Total Power Input, kW	4.83
COP	2.16
Current at 400 V, A	9.79
Mass Flow, g/s	84.80
Heating Capacity, kW	14.75
Condensing Temperature, °C	43.40
Subcooling, K	0.00

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