



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	9.03	10.85	12.85	15.05	17.45	20.00	21.10
32.0	8.37	10.05	11.90	13.90	16.10	18.50	19.50
38.0	7.53	9.02	10.70	12.50	14.45	16.60	17.50
43.0	6.77	8.13	9.62	11.25	13.05	15.00	15.80
46.0	6.30	7.57	8.96	10.50	12.15		
49.0	5.81	6.99	8.28				

50 Hz

ZXME075E-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	4.58	4.71	4.86	5.01	5.18	5.35	5.42
32.0	5.11	5.25	5.40	5.55	5.72	5.89	5.97
38.0	5.84	5.98	6.13	6.29	6.45	6.62	6.69
43.0	6.53	6.67	6.82	6.98	7.14	7.30	7.37
46.0	6.98	7.13	7.28	7.43	7.59		
49.0	7.47	7.62	7.76				

Ambient °C	Current at 400 V, A						
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
27.0	8.55	8.71	8.88	9.06	9.26	9.47	9.56
32.0	9.15	9.32	9.51	9.70	9.91	10.13	10.22
38.0	10.02	10.21	10.41	10.61	10.82	11.05	11.14
43.0	10.89	11.09	11.29	11.50	11.71	11.94	12.03
46.0	11.48	11.68	11.89	12.09	12.31		
49.0	12.12	12.33	12.53				

Ambient °C	Mass Flow, g/s						
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
27.0	65.60	80.50	98.00	118.50	142.50	170.50	183.50
32.0	64.60	79.30	96.50	116.50	140.50	168.50	181.00
38.0	62.90	77.40	94.30	114.00	137.50	166.00	178.50
43.0	61.20	75.40	92.10	111.50	135.00	163.50	176.50
46.0	60.00	74.10	90.60	110.00	133.50		
49.0	58.70	72.60	89.00				

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
Low Side PS gauge, bar	21
Net Weight, kg	118
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	14
Compressor Locked Rotor Current, A	101

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	43.20
Abs. Condensing Pressure, bar	19.63
Dew Point, °C	43.20
Bubble Point, °C	42.90
Saturated vapour enthalpy, kJ/kg	381.00
Specific volume of saturated vapour, dm ³ /kg	9.00
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	ZXME075E-TFD

**PERFORMANCE AT SPECIFIED OPERATING POINT
ZXME075E-TFD Data at 50 Hz**

Cooling Capacity, kW	11.90
Total Power Input, kW	5.40
COP	2.20
Current at 400 V, A	9.51
Mass Flow, g/s	96.50
Heating Capacity, kW	16.80
Condensing Temperature, °C	43.20
Subcooling, K	0.00

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