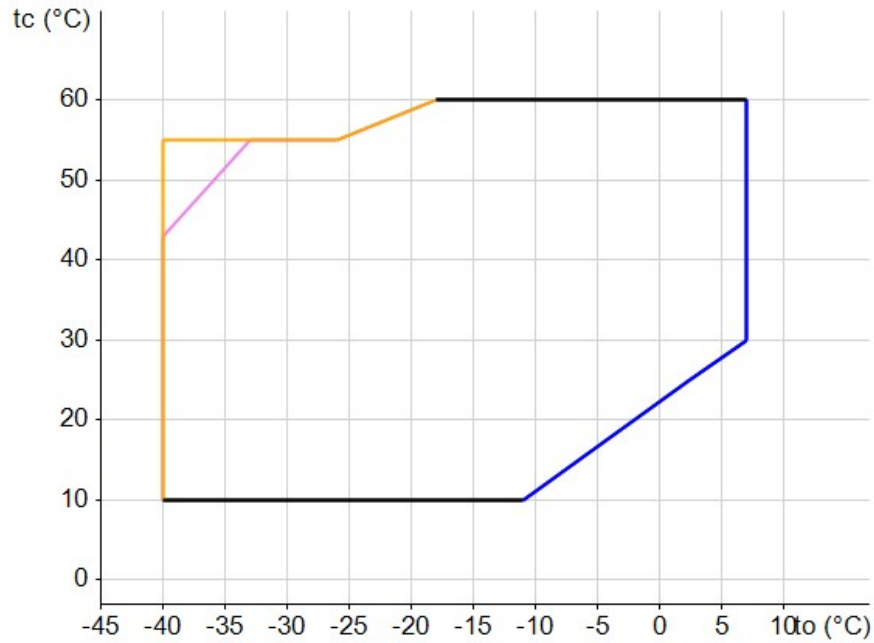


50 Hz

ZXLE075E-TFD

R404A Dew Point



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return — 0 °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										
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
27.0	5.26	6.57	8.05	9.71	11.55	13.60	15.90	18.35	21.00	23.90	25.10
32.0	5.10	6.35	7.75	9.31	11.05	12.95	15.05	17.35	19.85	22.50	23.60
38.0		5.99	7.27	8.68	10.25	12.00	13.90	15.95	18.15	20.60	21.50
43.0		5.62	6.76	8.03	9.44	11.00	12.70	14.55	16.60		
46.0			6.41	7.59	8.89	10.35	11.95				
49.0											

50 Hz

ZXLE075E-TFD

R404A Dew Point

Ambient °C	Total Power Input, kW										
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
27.0	3.99	4.32	4.63	4.93	5.22	5.51	5.82	6.16	6.54	6.99	7.19
32.0	4.40	4.74	5.05	5.36	5.68	6.01	6.36	6.74	7.18	7.68	7.91
38.0		5.34	5.66	5.99	6.33	6.70	7.09	7.53	8.03	8.59	8.84
43.0		5.95	6.27	6.61	6.97	7.36	7.78	8.26	8.80		
46.0			6.69	7.03	7.39	7.79	8.24				
49.0											

Ambient °C	Current at 400 V, A										
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
27.0	7.57	7.93	8.29	8.66	9.04	9.44	9.86	10.32	10.82	11.36	11.60
32.0	8.04	8.43	8.83	9.24	9.67	10.12	10.59	11.10	11.66	12.26	12.52
38.0		9.21	9.64	10.09	10.56	11.06	11.58	12.15	12.75	13.41	13.69
43.0		10.01	10.46	10.93	11.42	11.95	12.50	13.10	13.75		
46.0			11.01	11.48	11.99	12.53	13.10				
49.0											

Ambient °C	Mass Flow, g/s										
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
27.0	26.80	34.40	43.20	53.70	66.20	81.00	98.50	119.00	143.00	170.50	183.00
32.0	26.50	33.90	42.60	52.90	65.20	79.80	97.00	117.50	141.00	168.00	180.00
38.0		33.20	41.60	51.70	63.60	77.90	94.80	114.50	138.00	164.50	176.50
43.0		32.40	40.60	50.40	62.10	76.10	92.70	112.00	135.00		
46.0			39.90	49.60	61.10	74.90	91.30				
49.0											

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	121
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	14.6
Compressor Locked Rotor Current, A	101

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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50 Hz

ZXLE075E-TFD

R404A Dew Point

MOTOR OPTIONS

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



Select 8

Copeland[™]
brand products



EMERSON[™]



Project Report

Project Details: New Project

Contact:

Author Name:

Refrigerant R404A Dew Point

High Side Properties:

Condensing Temperature, °C	46.00
Abs. Condensing Pressure, bar	20.93
Dew Point, °C	46.00
Bubble Point, °C	45.60
Saturated vapour enthalpy, kJ/kg	381.00
Specific volume of saturated vapour, dm ³ /kg	8.30
Liquid Temperature, °C	22.70
Liquid enthalpy, kJ/kg	233.00

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 ZXLE075E-TFD

PERFORMANCE AT SPECIFIED OPERATING POINT
ZXLE075E-TFD Data at 50 Hz

Cooling Capacity, kW	15.05
Total Power Input, kW	6.36
COP	2.37
Current at 400 V, A	10.59
Mass Flow, g/s	97.00
Heating Capacity, kW	20.90
Condensing Temperature, °C	46.00
Liquid Temperature LO, °C	22.70

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
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Filter Drier	ALCO ADK Plus
Vapour Injection	Expansion Valve
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Suction Accumulator	ALCO A12-507

ACCESSORIES OPTIONAL

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