



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	4.72	5.89	7.17	8.60	10.15	11.85	13.70	15.65	17.75	19.90	20.80
32.0	4.56	5.65	6.85	8.16	9.60	11.15	12.85	14.60	16.50	18.45	19.25
38.0		5.28	6.35	7.51	8.77	10.15	11.60	13.15			
43.0			5.83		7.95	9.16					
46.0											
49.0											

50 Hz

ZXLE060E-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	3.81	4.14	4.45	4.77	5.09	5.43	5.81	6.23	6.72	7.29	7.54
32.0	4.22	4.55	4.88	5.22	5.56	5.94	6.35	6.81	7.35	7.96	8.23
38.0		5.16	5.50	5.85	6.22	6.63	7.08	7.58			
43.0			6.11		6.85	7.28					
46.0											
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	6.04	6.61	7.13	7.63	8.12	8.63	9.19	9.81	10.55	11.42	11.82
32.0	6.73	7.28	7.80	8.31	8.82	9.37	9.98	10.67	11.47	12.43	12.85
38.0		8.23	8.74	9.25	9.79	10.38	11.04	11.80			
43.0			9.65		10.72	11.33					
46.0											
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	24.30	31.10	39.00	48.40	59.50	72.70	88.30	106.50	127.50	152.00	162.50
32.0	23.90	30.60	38.30	47.50	58.40	71.40	86.60	104.50	125.50	149.50	160.00
38.0		29.80	37.30	46.30	56.90	69.50	84.40	102.00			
43.0			36.30		55.30	67.70					
46.0											
49.0											

CONDENSING UNIT MECHANICAL AND PHYSICAL DATA

Condenser/Fan Type	ZXL_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	116
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	13.7
Compressor Locked Rotor Current, A	74

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

ZXLE060E-TFD

R404A Dew Point

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

Copeland[™]
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Project Report

Project Details: New Project

Contact:

Author Name:

Refrigerant	R404A Dew Point
High Side Properties:	
Condensing Temperature, °C	50.60
Abs. Condensing Pressure, bar	23.31
Dew Point, °C	50.60
Bubble Point, °C	50.30
Saturated vapour enthalpy, kJ/kg	382.00
Specific volume of saturated vapour, dm ³ /kg	7.10
Liquid Temperature, °C	27.40
Liquid enthalpy, kJ/kg	240.00
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	ZXLE060E-TFD

**PERFORMANCE AT SPECIFIED OPERATING POINT
ZXLE060E-TFD Data at 50 Hz**

Cooling Capacity, kW	12.85
Total Power Input, kW	6.35
COP	2.02
Current at 400 V, A	9.98
Mass Flow, g/s	86.60
Heating Capacity, kW	18.65
Condensing Temperature, °C	50.60
Liquid Temperature LO, °C	27.40

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Condenser/Fan Type	ZXL_2F/60 W
Base mounting (hole dia), mm	580 x 388 (12)
Number of Fans	2
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