



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return
- Maximum Evaporating Temperature
- Maximum Pressure Limit

Suction Return Temperature 18.3°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Ambient °C	Cooling Capacity, kW								
	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
27.0	4.42	5.55	6.88	8.41	10.15	10.90	12.15	13.20	
32.0	4.17	5.25	6.52	7.99	9.66	10.40	11.55	12.55	
38.0	3.86	4.88	6.07	7.46	9.04	9.73	10.85	11.80	
43.0	3.60	4.56	5.69	7.01	8.51	9.16	10.20	11.15	
46.0	3.44	4.37	5.46	6.73	8.18	8.81	9.82	10.70	
49.0	3.29	4.17	5.22	6.45	7.85	8.46	9.43	10.30	

50 Hz

ZXDE-050E-TFD

R134a

Ambient °C	Total Power Input, kW								
	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
27.0	2.06	2.11	2.16	2.23	2.31	2.34	2.40	2.45	
32.0	2.26	2.31	2.37	2.45	2.53	2.56	2.62	2.67	
38.0	2.53	2.59	2.66	2.74	2.82	2.86	2.92	2.98	
43.0	2.78	2.85	2.92	3.01	3.10	3.14	3.20	3.26	
46.0	2.94	3.01	3.09	3.18	3.28	3.32	3.39	3.44	
49.0	3.11	3.19	3.28	3.37	3.47	3.51	3.58	3.64	

Ambient °C	Current at 400 V, A								
	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
27.0	6.09	6.13	6.20	6.28	6.39	6.44	6.52	6.59	
32.0	6.35	6.41	6.48	6.58	6.70	6.75	6.84	6.92	
38.0	6.72	6.80	6.89	7.01	7.14	7.20	7.30	7.38	
43.0	7.08	7.18	7.30	7.43	7.58	7.65	7.75	7.84	
46.0	7.32	7.44	7.57	7.72	7.88	7.95	8.05	8.15	
49.0	7.59	7.73	7.87	8.03	8.20	8.27	8.38	8.48	

Ambient °C	Mass Flow, g/s								
	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
27.0	25.50	32.50	40.80	50.80	62.70	68.00	76.70	84.60	
32.0	25.20	32.10	40.50	50.50	62.40	67.70	76.50	84.40	
38.0	24.70	31.60	39.90	49.90	61.90	67.30	76.10	84.10	
43.0	24.20	31.00	39.40	49.40	61.40	66.80	75.60	83.70	
46.0	23.90	30.70	39.00	49.00	61.00	66.40	75.30	83.50	
49.0	23.50	30.30	38.60	48.60	60.60	66.00	75.00	83.20	

**CONDENSING UNIT MECHANICAL AND PHYSICAL DATA**

Condenser/Fan Type	ZXM_2F/60 W
Number of Fans	2
Total Fan Power Input, W	246
Depth/Width, mm	1035/447
Height, mm	1244
Base mounting (hole dia), mm	580 x 388 (12)
Net Weight, kg	108
Receiver Capacity, l	5.9
Liquid Line, inch	1/2
Air Flow, m <sup>3</sup> /s	1.64
High Side PS gauge, bar	28.8
Low Side PS gauge, bar	21
Suction Type	Cu Tube
Suction Diameter, inch	7/8
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	11.3
Compressor Locked Rotor Current, A	64

**ACCESSORIES INCLUDED**

Crankcase Heater	70 W External
Liquid Injection	DTC Valve
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
Circuit breaker, over current relay	20 A

**ACCESSORIES OPTIONAL**

LP Adjustable Pressure Switch	Alco PS1-A3A
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50 Hz

ZXDE-050E-TFD

R134a

**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