



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	5.06	6.13	7.36	8.77	10.35	11.05	12.10	13.05	
32.0	4.78	5.79	6.96	8.28	9.77	10.40	11.45	12.35	
38.0	4.43	5.37	6.45	7.67	9.05	9.64	10.60	11.40	
43.0	4.13	5.01	6.01	7.15	8.43	8.98	9.85	10.60	
46.0	3.94	4.79	5.75	6.83	8.05	8.57	9.40	10.15	
49.0	3.75	4.56	5.47	6.50	7.66	8.16	8.95	9.64	

Additional restrictions, please see application guidelines

50 Hz ZXDE-050E-TFD R513A

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	1.97	2.10	2.22	2.35	2.48	2.53	2.61	2.68	
32.0	2.12	2.26	2.40	2.54	2.68	2.74	2.83	2.90	
38.0	2.32	2.47	2.63	2.78	2.94	3.00	3.10	3.18	
43.0	2.50	2.67	2.83	3.00	3.17	3.24	3.34	3.42	
46.0	2.62	2.79	2.96	3.14	3.31	3.38	3.49	3.58	
49.0	2.74	2.92	3.10	3.28	3.46	3.54	3.65	3.74	

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	4.79	4.88	4.97	5.07	5.17	5.21	5.28	5.34	
32.0	4.90	5.00	5.11	5.22	5.34	5.39	5.47	5.54	
38.0	5.04	5.17	5.29	5.43	5.57	5.63	5.72	5.80	
43.0	5.19	5.33	5.48	5.63	5.79	5.86	5.96	6.05	
46.0	5.29	5.44	5.60	5.76	5.94	6.01	6.12	6.21	
49.0	5.40	5.56	5.73	5.91	6.09	6.17	6.29	6.39	

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	33.50	41.10	50.20	61.00	73.70	79.30	88.60	97.00	
32.0	33.20	40.80	49.80	60.50	73.10	78.80	88.00	96.30	
38.0	32.70	40.30	49.30	59.90	72.30	77.90	87.00	95.40	
43.0	32.30	39.80	48.70	59.20	71.50	77.00	86.10	94.40	
46.0	32.00	39.50	48.30	58.70	70.90	76.40	85.40	93.70	
49.0	31.60	39.10	47.80	58.10	70.30	75.80	84.70	93.00	

Additional restrictions, please see application guidelines

**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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Additional restrictions, please see application guidelines

50 Hz

ZXDE-050E-TFD

R513A

**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

Additional restrictions, please see application guidelines