



Minimum Evaporating Temp. With:

— 10 K Suction Superheat

— Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Additional restrictions, please see application guidelines

50 Hz

ZR125KRE-TFD

R513A

Cond °C	Cooling Capacity, kW													
	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0	30.0	35.0	40.0
20.0	11.30	13.90	17.05	20.90	25.40	27.40								
25.0	10.60	13.20	16.30	20.00	24.40	26.30	29.50							
30.0	9.89	12.40	15.45	19.05	23.30	25.20	28.20	31.00	34.00					
35.0	9.15	11.60	14.55	18.00	22.10	23.90	26.90	29.50	32.40					
40.0	8.38	10.80	13.60	16.95	20.90	22.60	25.40	28.00	30.70	36.80				
45.0	7.59	9.93	12.65	15.85	19.55	21.20	23.90	26.30	28.90	34.70	41.30			
50.0		9.03	11.65	14.65	18.20	19.75	22.30	24.60	27.00	32.50	38.80	46.00		
55.0		8.09	10.55	13.40	16.75	18.20	20.60	22.80	25.10	30.30	36.20	43.00	50.70	
60.0			9.44	12.10	15.25	16.60	18.85	20.90	23.00	27.90	33.50	39.90	47.20	55.40
65.0			8.28	10.75	13.65	14.95	17.00	18.85	20.90	25.40	30.60	36.60	43.50	51.20
70.0				9.36	12.00	13.15	15.05	16.80	18.65	22.80	27.70	33.20	39.60	46.90
75.0				7.89	10.30	11.35	13.05	14.65	16.35	20.20	24.60	29.70	35.70	42.40
80.0							11.00	12.40	13.90	17.35	21.40	26.10	31.60	37.80
85.0										14.50	18.10	22.40	27.30	33.10

Cond °C	Power, kW													
	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0	30.0	35.0	40.0
20.0	3.20	3.21	3.23	3.28	3.35	3.38								
25.0	3.49	3.51	3.54	3.59	3.65	3.68	3.73							
30.0	3.82	3.84	3.87	3.92	3.98	4.01	4.06	4.11	4.16					
35.0	4.19	4.21	4.25	4.29	4.35	4.38	4.43	4.47	4.51					
40.0	4.61	4.63	4.67	4.71	4.77	4.79	4.84	4.87	4.92	5.01				
45.0	5.09	5.11	5.14	5.18	5.24	5.26	5.30	5.33	5.37	5.45	5.54			
50.0		5.65	5.68	5.72	5.77	5.79	5.82	5.85	5.88	5.95	6.03	6.11		
55.0		6.27	6.30	6.33	6.37	6.39	6.42	6.44	6.47	6.52	6.59	6.65	6.73	
60.0			6.99	7.02	7.05	7.07	7.09	7.11	7.13	7.17	7.22	7.27	7.32	7.38
65.0			7.78	7.80	7.82	7.83	7.85	7.86	7.87	7.90	7.93	7.97	8.00	8.04
70.0				8.68	8.69	8.70	8.70	8.71	8.72	8.73	8.75	8.76	8.77	8.79
75.0				9.66	9.66	9.66	9.67	9.67	9.66	9.66	9.66	9.65	9.64	9.63
80.0							10.75	10.75	10.70	10.70	10.70	10.65	10.60	10.60
85.0										11.85	11.80	11.75	11.70	11.65

Additional restrictions, please see application guidelines

50 Hz

ZR125KRE-TFD

R513A

Cond °C	Current at 400 V, A													
	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0	30.0	35.0	40.0
20.0	9.62	9.61	9.62	9.65	9.70	9.73								
25.0	9.84	9.84	9.87	9.90	9.96	9.99	10.03							
30.0	10.11	10.12	10.15	10.20	10.25	10.28	10.33	10.37	10.42					
35.0	10.44	10.46	10.50	10.54	10.60	10.63	10.67	10.71	10.76					
40.0	10.85	10.87	10.91	10.95	11.01	11.04	11.08	11.12	11.16	11.26				
45.0	11.33	11.36	11.39	11.44	11.49	11.52	11.56	11.60	11.64	11.72	11.82			
50.0		11.94	11.97	12.02	12.07	12.09	12.12	12.16	12.19	12.27	12.35	12.44		
55.0		12.62	12.65	12.69	12.74	12.75	12.79	12.81	12.84	12.91	12.98	13.05	13.13	
60.0			13.45	13.48	13.51	13.53	13.55	13.58	13.60	13.65	13.70	13.76	13.82	13.89
65.0			14.37	14.39	14.41	14.43	14.44	14.46	14.47	14.51	14.54	14.58	14.62	14.67
70.0				15.44	15.45	15.45	15.46	15.47	15.48	15.49	15.51	15.52	15.54	15.56
75.0				16.63	16.63	16.63	16.62	16.62	16.62	16.62	16.61	16.60	16.60	16.59
80.0							17.94	17.93	17.92	17.89	17.86	17.83	17.80	17.76
85.0										19.33	19.27	19.21	19.15	19.08

Cond °C	Suction Mass Flow, g/s													
	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0	30.0	35.0	40.0
20.0	74.30	89.30	107.00	128.00	153.00	163.50								
25.0	73.10	88.60	107.00	128.50	153.00	164.00	181.50							
30.0	71.70	87.80	106.50	128.00	153.00	164.00	181.50	197.50	214.00					
35.0	70.10	86.70	106.00	128.00	153.00	164.00	181.50	197.50	214.00					
40.0	68.20	85.30	105.00	127.00	152.50	163.50	181.00	197.00	214.00	250.00				
45.0	65.90	83.60	103.50	126.00	151.50	162.50	180.00	196.00	213.00	249.00	290.00			
50.0		81.60	102.00	124.50	150.00	161.00	179.00	194.50	211.00	248.00	289.00	335.00		
55.0		79.00	99.60	122.50	148.50	159.50	177.00	193.00	210.00	246.00	287.00	333.00	383.00	
60.0			96.90	120.00	146.00	157.00	175.00	190.50	207.00	244.00	285.00	330.00	381.00	437.00
65.0			93.40	117.00	143.00	154.00	172.00	187.50	204.00	241.00	282.00	327.00	378.00	435.00
70.0				113.00	139.00	150.00	168.00	183.50	200.00	237.00	278.00	324.00	375.00	432.00
75.0				107.50	134.00	145.50	163.00	179.00	196.00	232.00	273.00	320.00	371.00	429.00
80.0							157.50	173.50	190.50	228.00	269.00	316.00	368.00	427.00
85.0										224.00	267.00	315.00	369.00	430.00

Additional restrictions, please see application guidelines

### **COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Displacement @ 50 Hz, m³/h	29.1
Length/Width, mm	281/284
Height, mm	533
Net Weight, kg	61.2
Stub Suction, inch	1 3/8
Stub Discharge, inch	7/8
Oil Quantity, l	3.38
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF, POE MOBIL EAL Arctic 22 CC
Base mounting (hole dia), mm	190 x 190 (0)
Sound Pressure @ 1m (HT), dBA	63
Sound Power (HT), dBA	74
Sound Conditions (HT, Temperatures:	5 / 50 / 15 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	2
Max. Internal Free Volume, l	12.8
High Side PS gauge, bar	32
Low Side PS gauge, bar	20
Low Side TS Max., °C	53
Low Side TS Min., °C	-35
Refrigerant's GWP	631
Refrigerant's classification	A1

### **COMPRESSOR ELECTRICAL DATA (380-420 V / 3~ / 50 Hz)**

Maximum Operating Current, A	23
Locked Rotor Current, A	118
Winding Resistance, ohm	1.23
Default Enclosure Class	IP 21/65

### **ACCESSORIES INCLUDED**

Oil Service Valve	Schraeder Valve
Check Valve	Discharge Low Leak Check Valve
Enclosure Class	IP21
Discharge Temperature Protection	ASTP Therm-O-Disc In Scroll
Oil Charge	

Additional restrictions, please see application guidelines

### ACCESSORIES OPTIONAL

Mounting Grommets	Rubber Grommet For Single
Adapter Kit	R1"1/4 -B 1"1/8 For TPTL for
Oil Control System	Parallel Operation
Crankcase Heater	ALCO Trax-Oil OM3
Enclosure Class	67 W External
Mounting Grommets	IP 65
Sound Attenuation	Hard Mounts for Paralleling
	Sound Shell (12dBA)

### 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
TFD	460 V / 3~ / 60 Hz	460		Y	1.04

Additional restrictions, please see application guidelines