



Minimum Evaporating Temp. With:

- 10 K Suction Superheat
- 20 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Additional restrictions, please see application guidelines

50 Hz

ZR72KRE-TFD

R513A

Cond °C	Cooling Capacity, kW											
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
10.0	5.88	7.33	9.06	11.10								
15.0	5.56	6.99	8.66	10.60	12.90							
20.0	5.24	6.62	8.25	10.15	12.35	14.90						
25.0	4.91	6.25	7.82	9.66	11.80	14.25	15.35	17.10				
30.0	4.57	5.86	7.38	9.15	11.20	13.60	14.65	16.30	17.80	19.45		
35.0	4.22	5.46	6.92	8.61	10.60	12.85	13.90	15.50	16.95	18.50		
40.0	3.86	5.05	6.44	8.06	9.94	12.15	13.10	14.65	16.05	17.55	20.80	
45.0	3.49	4.62	5.94	7.48	9.28	11.35	12.30	13.75	15.10	16.50	19.65	23.20
50.0		4.18	5.43	6.89	8.59	10.55	11.45	12.85	14.10	15.45	18.50	21.90
55.0			4.90	6.27	7.87	9.73	10.55	11.90	13.10	14.40	17.25	20.50
60.0			4.35	5.63	7.13	8.88	9.66	10.90	12.05	13.25	16.00	19.10
65.0				4.96	6.36	7.99	8.72	9.90	10.95	12.10	14.70	17.60
70.0					5.56	7.07	7.75	8.85	9.85	10.95	13.35	
75.0					4.73	6.12	6.75	7.77	8.69	9.69		

Cond °C	Power, kW											
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
10.0	1.32	1.30	1.30	1.34								
15.0	1.50	1.47	1.46	1.48	1.52							
20.0	1.69	1.66	1.65	1.66	1.68	1.74						
25.0	1.90	1.87	1.86	1.86	1.88	1.91	1.92	1.96				
30.0	2.13	2.10	2.08	2.08	2.09	2.11	2.12	2.15	2.17	2.20		
35.0	2.39	2.36	2.34	2.33	2.33	2.34	2.35	2.37	2.38	2.40		
40.0	2.66	2.63	2.61	2.60	2.60	2.60	2.61	2.62	2.63	2.64	2.67	
45.0	2.96	2.94	2.92	2.91	2.90	2.90	2.90	2.90	2.91	2.91	2.92	2.94
50.0		3.27	3.25	3.24	3.23	3.23	3.22	3.22	3.22	3.22	3.22	3.22
55.0			3.62	3.61	3.60	3.59	3.58	3.58	3.57	3.56	3.55	3.54
60.0			4.01	4.00	3.99	3.98	3.98	3.97	3.96	3.95	3.92	3.90
65.0				4.43	4.43	4.41	4.41	4.39	4.38	4.37	4.34	4.30
70.0					4.89	4.88	4.87	4.86	4.85	4.83	4.79	
75.0					5.39	5.39	5.38	5.37	5.35	5.34		

Additional restrictions, please see application guidelines

50 Hz

ZR72KRE-TFD

R513A

Cond °C	Current at 400 V, A											
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
10.0	4.48	4.44	4.43	4.46								
15.0	4.97	4.92	4.91	4.93	4.98							
20.0	5.41	5.35	5.33	5.35	5.39	5.45						
25.0	5.82	5.76	5.73	5.74	5.77	5.82	5.85	5.89				
30.0	6.21	6.15	6.12	6.11	6.13	6.17	6.19	6.23	6.26	6.30		
35.0	6.59	6.53	6.50	6.49	6.50	6.53	6.54	6.57	6.59	6.62		
40.0	6.99	6.92	6.89	6.87	6.88	6.89	6.90	6.92	6.94	6.95	6.99	
45.0	7.41	7.34	7.30	7.28	7.28	7.29	7.29	7.30	7.31	7.32	7.34	7.35
50.0		7.80	7.76	7.73	7.72	7.72	7.72	7.72	7.72	7.73	7.73	7.72
55.0			8.26	8.23	8.22	8.21	8.20	8.20	8.19	8.19	8.18	8.15
60.0			8.83	8.80	8.78	8.76	8.75	8.74	8.73	8.72	8.69	8.65
65.0				9.45	9.42	9.40	9.39	9.37	9.36	9.34	9.30	9.24
70.0					10.16	10.13	10.12	10.10	10.08	10.05	10.00	
75.0					11.01	10.97	10.96	10.93	10.90	10.88		

Cond °C	Suction Mass Flow, g/s											
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
10.0	36.20	44.20	53.40	64.00								
15.0	35.70	43.90	53.20	63.90	76.10							
20.0	35.30	43.50	53.00	63.70	76.00	89.80						
25.0	34.70	43.10	52.60	63.50	75.80	89.70	95.70	105.00				
30.0	34.00	42.50	52.20	63.10	75.50	89.40	95.50	105.00	113.50	122.50		
35.0	33.20	41.90	51.60	62.60	75.10	89.10	95.10	105.00	113.50	122.50		
40.0	32.30	41.10	50.90	62.00	74.50	88.60	94.70	104.50	113.00	122.00	141.50	
45.0	31.30	40.10	50.10	61.20	73.80	88.00	94.10	104.00	112.50	121.50	141.50	163.00
50.0		39.00	49.10	60.30	73.00	87.20	93.40	103.00	112.00	121.00	141.00	163.00
55.0			47.80	59.20	71.90	86.20	92.40	102.50	111.00	120.50	140.50	162.50
60.0			46.30	57.70	70.60	85.00	91.30	101.50	110.00	119.50	140.00	162.50
65.0				56.00	69.00	83.60	90.00	100.00	109.00	118.50	139.00	162.00
70.0					67.00	81.90	88.30	98.60	107.50	117.50	138.50	
75.0					64.60	79.80	86.40	97.00	106.50	116.00		

Additional restrictions, please see application guidelines

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

Displacement @ 50 Hz, m³/h	17.1
Length/Width, mm	246/257
Height, mm	438
Net Weight, kg	39.1
Stub Suction, inch	7/8
Stub Discharge, inch	1/2
Oil Quantity, l	1.9
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 (19)
Sound Pressure @ 1m (HT), dBA	61
Sound Power (HT), dBA	72
Sound Conditions (HT, Temperatures:	5 / 50 / 15 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	1
Max. Internal Free Volume, l	5.90
High Side PS gauge, bar	29
Low Side PS gauge, bar	21
Low Side TS Max., °C	50
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	13.1
Locked Rotor Current, A	74
Winding Resistance, ohm	2.27
Default Enclosure Class	IP 21 (IEC 34)

### **ACCESSORIES INCLUDED**

Discharge Temperature Protection	Internal Thermodisk
----------------------------------	---------------------

Additional restrictions, please see application guidelines

50 Hz

ZR72KRE-TFD

R513A

## ACCESSORIES OPTIONAL

Crankcase Heater  
 Oil Control System  
 Sound Attenuation  
 Rotalock valves  
 Mounting Grommets

70 W External  
 ALCO Trax-Oil OM3  
 Sound Shell (10dBA)  
 suction and discharge  
 Standard

## 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