



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

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	4.75	5.97	7.43	9.17								
15.0	4.51	5.69	7.11	8.78	10.75							
20.0	4.26	5.41	6.78	8.39	10.30	12.55						
25.0	4.01	5.13	6.44	8.00	9.83	12.00	12.95	14.50				
30.0	3.75	4.83	6.10	7.59	9.35	11.40	12.35	13.80	15.15	16.60		
35.0	3.48	4.53	5.75	7.18	8.87	10.85	11.70	13.15	14.40	15.80		
40.0	3.20	4.22	5.39	6.77	8.37	10.25	11.10	12.45	13.70	15.00	17.95	
45.0	2.91	3.90	5.03	6.34	7.88	9.67	10.45	11.75	12.95	14.20	17.00	20.20
50.0		3.57	4.66	5.91	7.37	9.08	9.84	11.05	12.20	13.40	16.05	19.15
55.0			4.28	5.47	6.86	8.48	9.20	10.35	11.45	12.55	15.10	18.05
60.0			3.89	5.03	6.34	7.87	8.56	9.66	10.65	11.75	14.15	16.95
65.0				4.58	5.82	7.26	7.91	8.95	9.90	10.90	13.20	15.85
70.0					5.29	6.65	7.25	8.23	9.13	10.10	12.25	
75.0					4.76	6.03	6.59	7.51	8.35	9.25		

50 Hz

ZR72KRE-TFD

R450A Dew Point

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	1.14	1.14	1.14	1.15								
15.0	1.28	1.28	1.28	1.28	1.30							
20.0	1.45	1.44	1.44	1.44	1.44	1.46						
25.0	1.62	1.61	1.60	1.60	1.61	1.62	1.63	1.64				
30.0	1.82	1.80	1.78	1.78	1.79	1.80	1.81	1.82	1.84	1.86		
35.0	2.04	2.01	1.99	1.98	1.98	2.00	2.01	2.02	2.04	2.05		
40.0	2.28	2.24	2.22	2.21	2.21	2.22	2.23	2.24	2.26	2.27	2.32	
45.0	2.54	2.50	2.47	2.46	2.45	2.46	2.47	2.48	2.50	2.52	2.56	2.62
50.0		2.78	2.75	2.73	2.72	2.73	2.74	2.75	2.76	2.78	2.83	2.89
55.0			3.06	3.03	3.02	3.03	3.03	3.05	3.06	3.08	3.13	3.19
60.0			3.40	3.37	3.35	3.35	3.36	3.37	3.39	3.40	3.45	3.52
65.0				3.74	3.72	3.72	3.72	3.73	3.74	3.76	3.81	3.88
70.0					4.12	4.11	4.12	4.13	4.14	4.16	4.20	
75.0					4.56	4.55	4.55	4.56	4.57	4.59		

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	4.22	4.20	4.20	4.21								
15.0	4.65	4.63	4.62	4.63	4.65							
20.0	5.04	5.01	5.00	5.01	5.03	5.06						
25.0	5.40	5.36	5.35	5.35	5.36	5.39	5.41	5.44				
30.0	5.73	5.69	5.67	5.66	5.67	5.70	5.72	5.75	5.77	5.80		
35.0	6.06	6.01	5.98	5.97	5.98	6.00	6.02	6.04	6.07	6.10		
40.0	6.40	6.33	6.30	6.28	6.28	6.31	6.32	6.35	6.37	6.40	6.47	
45.0	6.76	6.68	6.64	6.61	6.61	6.63	6.64	6.66	6.69	6.72	6.78	6.86
50.0		7.07	7.01	6.98	6.97	6.98	6.99	7.01	7.03	7.06	7.13	7.21
55.0			7.43	7.39	7.37	7.38	7.38	7.40	7.42	7.45	7.51	7.60
60.0			7.91	7.86	7.84	7.83	7.84	7.85	7.87	7.90	7.96	8.04
65.0				8.41	8.37	8.37	8.37	8.38	8.40	8.42	8.47	8.55
70.0					9.00	8.98	8.98	8.99	9.00	9.02	9.08	
75.0					9.73	9.71	9.70	9.70	9.71	9.73		

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	27.70	34.10	41.70	50.50								
15.0	27.40	33.90	41.50	50.30	60.50							
20.0	27.00	33.60	41.20	50.00	60.20	71.90						
25.0	26.60	33.30	40.90	49.70	59.90	71.50	76.60	84.80				
30.0	26.10	32.90	40.50	49.40	59.50	71.10	76.20	84.40	91.60	99.40		
35.0	25.50	32.40	40.10	49.00	59.10	70.70	75.80	83.90	91.10	98.90		
40.0	24.80	31.80	39.70	48.50	58.70	70.20	75.30	83.40	90.60	98.30	115.00	
45.0	23.90	31.10	39.10	48.10	58.20	69.80	74.80	82.90	90.10	97.80	114.50	133.50
50.0		30.40	38.50	47.50	57.70	69.20	74.30	82.30	89.60	97.20	114.00	133.00
55.0			37.70	46.90	57.10	68.70	73.70	81.80	89.00	96.70	113.50	132.50
60.0			36.90	46.10	56.40	68.10	73.10	81.20	88.40	96.10	113.00	132.00
65.0				45.30	55.70	67.40	72.50	80.60	87.80	95.50	112.50	131.50
70.0					55.00	66.70	71.90	80.00	87.30	95.00	112.00	
75.0					54.10	66.10	71.30	79.50	86.90	94.70		

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 (MT), dBA	61
Sound Power (MT), dBA	72
Sound Power with Sound Shell (MT), dBA	62
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
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	605
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
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ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (10dBA)
Rotalock valves	suction and discharge
Mounting Grommets	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