



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	4.00	5.02	6.26	7.73								
15.0	3.79	4.78	5.97	7.39	9.07							
20.0	3.58	4.54	5.69	7.05	8.67	10.55						
25.0	3.37	4.29	5.40	6.71	8.26	10.10	10.90	12.20				
30.0	3.15	4.04	5.10	6.36	7.85	9.60	10.40	11.65	12.75	14.00		
35.0	2.94	3.79	4.81	6.01	7.44	9.11	9.86	11.05	12.15	13.35		
40.0	2.73	3.54	4.51	5.66	7.02	8.62	9.34	10.50	11.55	12.65	15.15	
45.0	2.51	3.29	4.21	5.30	6.60	8.12	8.81	9.91	10.90	12.00	14.40	17.15
50.0		3.03	3.91	4.94	6.17	7.62	8.27	9.32	10.30	11.30	13.60	16.25
55.0			3.60	4.58	5.74	7.12	7.73	8.73	9.64	10.60	12.80	15.35
60.0			3.30	4.21	5.31	6.61	7.19	8.14	9.00	9.93	12.00	14.40
65.0				3.85	4.87	6.09	6.64	7.53	8.35	9.23	11.20	13.50
70.0					4.43	5.57	6.09	6.93	7.69	8.52	10.40	
75.0					3.99	5.05	5.53	6.31	7.03	7.81		

50 Hz

ZR61KRE-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	1.02	1.01	1.00	0.99								
15.0	1.15	1.14	1.12	1.12	1.12							
20.0	1.28	1.27	1.26	1.26	1.26	1.27						
25.0	1.43	1.42	1.41	1.40	1.41	1.42	1.42	1.44				
30.0	1.60	1.58	1.57	1.56	1.57	1.58	1.58	1.60	1.61	1.62		
35.0	1.78	1.76	1.75	1.74	1.74	1.76	1.76	1.77	1.78	1.80		
40.0	1.98	1.96	1.94	1.94	1.94	1.94	1.95	1.96	1.98	1.99	2.03	
45.0	2.20	2.18	2.17	2.16	2.15	2.16	2.16	2.17	2.18	2.20	2.23	2.28
50.0		2.43	2.41	2.40	2.39	2.40	2.40	2.41	2.42	2.43	2.46	2.51
55.0			2.68	2.67	2.66	2.66	2.66	2.67	2.68	2.69	2.72	2.76
60.0			2.99	2.97	2.96	2.95	2.95	2.96	2.96	2.97	3.00	3.04
65.0				3.30	3.28	3.28	3.27	3.28	3.28	3.29	3.31	3.35
70.0					3.65	3.63	3.63	3.63	3.63	3.64	3.66	
75.0					4.04	4.03	4.02	4.02	4.02	4.02		

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	4.15	4.10	4.06	4.04								
15.0	4.56	4.52	4.49	4.47	4.47							
20.0	4.92	4.88	4.86	4.85	4.85	4.87						
25.0	5.25	5.21	5.18	5.18	5.18	5.20	5.22	5.24				
30.0	5.55	5.51	5.49	5.48	5.49	5.51	5.52	5.55	5.57	5.60		
35.0	5.84	5.80	5.78	5.77	5.78	5.80	5.81	5.83	5.86	5.88		
40.0	6.14	6.10	6.07	6.06	6.07	6.08	6.10	6.12	6.14	6.17	6.23	
45.0	6.46	6.42	6.39	6.37	6.37	6.38	6.39	6.41	6.43	6.46	6.51	6.58
50.0		6.77	6.73	6.71	6.70	6.71	6.72	6.74	6.75	6.77	6.83	6.89
55.0			7.13	7.10	7.09	7.09	7.09	7.10	7.11	7.13	7.17	7.23
60.0			7.59	7.55	7.53	7.52	7.52	7.52	7.53	7.54	7.58	7.62
65.0				8.08	8.04	8.02	8.02	8.01	8.02	8.02	8.04	8.08
70.0					8.65	8.61	8.60	8.59	8.59	8.59	8.60	
75.0					9.36	9.31	9.29	9.27	9.26	9.25		

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	23.30	28.70	35.10	42.60								
15.0	23.00	28.50	34.80	42.30	50.90							
20.0	22.70	28.20	34.60	42.00	50.60	60.50						
25.0	22.30	27.80	34.30	41.70	50.30	60.20	64.50	71.40				
30.0	22.00	27.50	33.90	41.40	50.00	59.80	64.10	71.10	77.20	83.80		
35.0	21.60	27.10	33.60	41.00	49.60	59.40	63.80	70.70	76.80	83.40		
40.0	21.10	26.70	33.20	40.60	49.20	59.00	63.40	70.30	76.40	83.00	97.30	
45.0	20.60	26.30	32.70	40.20	48.80	58.60	62.90	69.80	76.00	82.60	97.00	113.00
50.0		25.80	32.30	39.70	48.30	58.10	62.40	69.40	75.60	82.10	96.60	112.50
55.0			31.80	39.20	47.80	57.60	61.90	68.90	75.10	81.70	96.20	112.50
60.0			31.20	38.70	47.20	57.10	61.40	68.40	74.60	81.20	95.80	112.00
65.0				38.10	46.60	56.50	60.90	67.80	74.10	80.70	95.40	112.00
70.0					46.00	55.90	60.30	67.30	73.60	80.30	95.10	
75.0					45.40	55.40	59.80	66.80	73.20	80.00		

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	14.4
Length/Width, mm	246/257
Height, mm	438
Net Weight, kg	37.5
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	4.20
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	12.8
Locked Rotor Current, A	65.6
Winding Resistance, ohm	2.72
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