



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	2.73	3.44	4.30	5.32								
15.0	2.59	3.28	4.10	5.09	6.25							
20.0	2.45	3.11	3.91	4.86	5.98	7.29						
25.0	2.31	2.94	3.71	4.62	5.70	6.96	7.52	8.43				
30.0	2.16	2.77	3.51	4.38	5.41	6.62	7.16	8.04	8.82	9.67		
35.0	2.01	2.60	3.30	4.14	5.12	6.28	6.80	7.64	8.39	9.20		
40.0	1.87	2.43	3.10	3.89	4.83	5.94	6.44	7.23	7.96	8.74	10.45	
45.0	1.72	2.26	2.89	3.65	4.54	5.59	6.06	6.83	7.52	8.26	9.92	11.80
50.0		2.08	2.68	3.40	4.24	5.24	5.69	6.42	7.07	7.78	9.36	11.20
55.0			2.48	3.15	3.95	4.89	5.31	6.00	6.63	7.30	8.81	10.55
60.0			2.27	2.90	3.65	4.54	4.93	5.58	6.18	6.81	8.24	9.89
65.0				2.64	3.34	4.18	4.55	5.16	5.72	6.32	7.68	9.24
70.0					3.04	3.82	4.17	4.74	5.26	5.83	7.11	
75.0					2.73	3.45	3.78	4.31	4.80	5.33		

50 Hz

ZR42KRE-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	0.72	0.71	0.72	0.72								
15.0	0.80	0.79	0.79	0.80	0.82							
20.0	0.89	0.88	0.88	0.88	0.90	0.92						
25.0	0.99	0.98	0.98	0.98	0.99	1.01	1.02	1.03				
30.0	1.10	1.10	1.09	1.08	1.09	1.10	1.12	1.13	1.15	1.17		
35.0	1.24	1.23	1.22	1.21	1.21	1.22	1.23	1.24	1.26	1.28		
40.0	1.38	1.37	1.36	1.34	1.34	1.35	1.36	1.37	1.38	1.40	1.44	
45.0	1.56	1.54	1.52	1.50	1.50	1.50	1.50	1.51	1.52	1.54	1.57	1.62
50.0		1.72	1.70	1.68	1.68	1.67	1.67	1.68	1.68	1.70	1.72	1.76
55.0			1.91	1.88	1.87	1.86	1.86	1.86	1.87	1.88	1.90	1.94
60.0			2.14	2.12	2.10	2.08	2.08	2.08	2.08	2.08	2.10	2.13
65.0				2.37	2.35	2.33	2.32	2.32	2.32	2.32	2.33	2.35
70.0					2.63	2.61	2.60	2.59	2.58	2.58	2.59	
75.0					2.95	2.92	2.91	2.89	2.88	2.88		

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	2.64	2.62	2.61	2.62								
15.0	2.88	2.86	2.86	2.86	2.88							
20.0	3.10	3.08	3.07	3.07	3.09	3.13						
25.0	3.29	3.27	3.26	3.27	3.28	3.31	3.33	3.36				
30.0	3.48	3.46	3.44	3.44	3.46	3.49	3.50	3.53	3.55	3.58		
35.0	3.67	3.64	3.62	3.62	3.63	3.65	3.67	3.69	3.71	3.74		
40.0	3.87	3.84	3.81	3.81	3.81	3.83	3.84	3.86	3.88	3.90	3.95	
45.0	4.09	4.05	4.02	4.01	4.00	4.01	4.02	4.03	4.05	4.07	4.12	4.18
50.0		4.29	4.26	4.23	4.22	4.22	4.22	4.23	4.24	4.26	4.30	4.35
55.0			4.53	4.49	4.47	4.46	4.46	4.46	4.47	4.48	4.51	4.55
60.0			4.85	4.80	4.77	4.74	4.74	4.74	4.74	4.74	4.76	4.79
65.0				5.16	5.11	5.08	5.07	5.06	5.05	5.05	5.06	5.07
70.0					5.53	5.48	5.46	5.44	5.43	5.42	5.41	
75.0					6.01	5.95	5.92	5.89	5.87	5.85		

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	15.95	19.70	24.10	29.30									
15.0	15.75	19.50	23.90	29.10	35.10								
20.0	15.55	19.30	23.80	28.90	34.90	41.80							
25.0	15.30	19.10	23.50	28.70	34.70	41.50	44.50	49.30					
30.0	15.05	18.85	23.30	28.50	34.40	41.30	44.30	49.10	53.30	57.90			
35.0	14.75	18.60	23.10	28.20	34.20	41.00	44.00	48.80	53.00	57.60			
40.0	14.45	18.35	22.80	27.90	33.90	40.70	43.70	48.40	52.70	57.30	67.20		
45.0	14.15	18.05	22.50	27.60	33.60	40.40	43.30	48.10	52.40	56.90	66.80	77.90	
50.0		17.70	22.20	27.30	33.20	40.00	43.00	47.70	52.00	56.50	66.50	77.60	
55.0			21.80	26.90	32.80	39.60	42.60	47.30	51.60	56.10	66.10	77.30	
60.0			21.40	26.60	32.40	39.20	42.20	46.90	51.20	55.70	65.70	76.90	
65.0				26.10	32.00	38.80	41.70	46.50	50.80	55.30	65.30	76.60	
70.0					31.60	38.30	41.30	46.10	50.30	54.90	65.00		
75.0					31.10	37.90	40.80	45.60	49.90	54.60			

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	9.94
Length/Width, mm	239/245
Height, mm	400
Net Weight, kg	28.4
Gross Weight, kg	31.4
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	1.12
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	60
Sound Power (MT), dBA	71
Sound Power with Sound Shell (MT), dBA	61
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	2.60
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	8.9
Locked Rotor Current, A	46
Winding Resistance, ohm	4.03
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermodisk
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50 Hz

ZR42KRE-TFD

R450A Dew Point

ACCESSORIES OPTIONAL

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

MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
TFD	380-420 V / 3~ / 50 Hz	400		Y	1.00
TFD	460 V / 3~ / 60 Hz	460		Y	1.04