



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	3.07	3.88	4.84	6.00								
15.0	2.93	3.71	4.64	5.76	7.09							
20.0	2.77	3.53	4.44	5.52	6.80	8.30						
25.0	2.61	3.34	4.22	5.26	6.50	7.95	8.59	9.64				
30.0	2.45	3.15	4.00	5.00	6.19	7.58	8.20	9.21	10.10	11.10		
35.0	2.28	2.96	3.77	4.73	5.87	7.20	7.80	8.76	9.64	10.55		
40.0	2.11	2.76	3.53	4.45	5.54	6.81	7.39	8.31	9.14	10.05	12.05	
45.0	1.93	2.55	3.29	4.16	5.20	6.42	6.96	7.84	8.64	9.50	11.40	13.60
50.0		2.35	3.04	3.87	4.85	6.01	6.53	7.37	8.13	8.95	10.80	12.90
55.0			2.79	3.57	4.50	5.59	6.08	6.88	7.61	8.39	10.15	12.15
60.0			2.54	3.27	4.14	5.17	5.64	6.39	7.07	7.82	9.47	11.40
65.0				2.97	3.78	4.74	5.18	5.89	6.53	7.23	8.80	10.60
70.0					3.41	4.31	4.72	5.38	5.99	6.64	8.13	
75.0					3.05	3.88	4.25	4.87	5.43	6.05		

50 Hz

ZR48KRE-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	0.76	0.77	0.78	0.78								
15.0	0.86	0.86	0.87	0.88	0.89							
20.0	0.96	0.97	0.98	0.98	0.99	1.00						
25.0	1.08	1.08	1.08	1.10	1.10	1.11	1.12	1.12				
30.0	1.20	1.21	1.21	1.22	1.23	1.23	1.24	1.25	1.26	1.27		
35.0	1.35	1.35	1.36	1.36	1.36	1.37	1.38	1.38	1.39	1.40		
40.0	1.52	1.52	1.52	1.52	1.52	1.52	1.53	1.54	1.54	1.56	1.58	
45.0	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.71	1.72	1.72	1.76	1.79
50.0		1.92	1.90	1.90	1.90	1.90	1.90	1.90	1.91	1.92	1.94	1.98
55.0			2.14	2.13	2.12	2.12	2.12	2.13	2.13	2.14	2.16	2.20
60.0			2.41	2.39	2.38	2.38	2.38	2.38	2.38	2.39	2.41	2.44
65.0				2.69	2.67	2.66	2.66	2.66	2.66	2.67	2.69	2.72
70.0					3.00	2.99	2.98	2.98	2.98	2.98	3.00	
75.0					3.37	3.35	3.34	3.34	3.34	3.34		

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	2.65	2.65	2.66								
15.0	2.91	2.92	2.92	2.93	2.94							
20.0	3.14	3.14	3.15	3.16	3.17	3.19						
25.0	3.34	3.34	3.35	3.36	3.37	3.39	3.40	3.41				
30.0	3.52	3.52	3.53	3.53	3.55	3.57	3.58	3.59	3.60	3.62		
35.0	3.70	3.69	3.69	3.70	3.71	3.73	3.74	3.75	3.76	3.78		
40.0	3.87	3.86	3.86	3.86	3.87	3.88	3.89	3.91	3.92	3.93	3.96	
45.0	4.07	4.05	4.04	4.03	4.04	4.05	4.05	4.07	4.08	4.09	4.12	4.16
50.0		4.26	4.24	4.23	4.22	4.23	4.23	4.24	4.25	4.26	4.29	4.33
55.0			4.47	4.45	4.44	4.44	4.44	4.45	4.45	4.46	4.48	4.52
60.0			4.75	4.72	4.70	4.69	4.69	4.69	4.69	4.70	4.71	4.74
65.0				5.04	5.01	4.99	4.98	4.98	4.98	4.98	4.99	5.01
70.0					5.38	5.35	5.34	5.33	5.32	5.32	5.32	
75.0					5.83	5.78	5.77	5.75	5.74	5.73		

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	17.95	22.20	27.20	33.00								
15.0	17.80	22.10	27.10	33.00	39.80							
20.0	17.60	21.90	27.00	32.90	39.70	47.60						
25.0	17.35	21.70	26.80	32.70	39.60	47.40	50.90	56.40				
30.0	17.05	21.40	26.60	32.50	39.40	47.20	50.70	56.20	61.10	66.40		
35.0	16.70	21.10	26.30	32.20	39.10	47.00	50.40	56.00	60.90	66.10		
40.0	16.30	20.80	26.00	31.90	38.80	46.70	50.10	55.60	60.60	65.80	77.30	
45.0	15.85	20.40	25.60	31.50	38.40	46.30	49.70	55.30	60.20	65.50	76.90	89.80
50.0		19.95	25.10	31.10	38.00	45.80	49.30	54.80	59.80	65.00	76.50	89.50
55.0			24.60	30.60	37.40	45.30	48.80	54.30	59.20	64.50	76.10	89.00
60.0			24.10	30.00	36.90	44.70	48.20	53.70	58.60	63.90	75.50	88.60
65.0				29.40	36.20	44.00	47.50	53.00	58.00	63.30	74.90	88.10
70.0					35.50	43.30	46.70	52.30	57.30	62.60	74.30	
75.0					34.70	42.50	46.00	51.50	56.50	61.90		

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	11.4
Length/Width, mm	239/245
Height, mm	417
Net Weight, kg	28.5
Stub Suction, inch	7/8
Stub Discharge, inch	1/2
Oil Quantity, l	1.45
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	58
Sound Power (MT), dBA	69
Sound Power with Sound Shell (MT), dBA	59
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	2.90
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

50 Hz

ZR48KRE-TFD

R450A Dew Point

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

Maximum Operating Current, A	10
Locked Rotor Current, A	50
Winding Resistance, ohm	3.88
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

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

ACCESSORIES OPTIONAL

Oil Control System	ALCO Trax-Oil OM3
Mounting Grommets	Standard
Crankcase Heater	70 W External

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