



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
14.0	2.23											
15.0	2.22											
20.0	2.12	2.66	3.30									
25.0	2.02	2.54	3.17	3.91	4.79							
30.0	1.90	2.41	3.02	3.74	4.59	5.58	6.02					
35.0	1.78	2.27	2.86	3.55	4.37	5.32	5.75	6.44	7.06	7.72		
40.0	1.64	2.12	2.68	3.35	4.13	5.05	5.46	6.12	6.72	7.36	8.78	
45.0	1.50	1.96	2.50	3.14	3.89	4.76	5.16	5.79	6.36	6.97	8.34	9.90
50.0		1.78	2.31	2.91	3.63	4.47	4.84	5.44	5.99	6.58	7.88	9.38
55.0			2.10	2.68	3.36	4.15	4.51	5.08	5.60	6.16	7.41	8.84
60.0			1.89	2.43	3.08	3.83	4.16	4.71	5.20	5.74	6.92	8.29
65.0				2.18	2.78	3.49	3.81	4.32	4.79	5.29	6.42	7.72
70.0					2.48	3.15	3.44	3.93	4.37	4.84	5.90	
75.0					2.17	2.79	3.06	3.52	3.93	4.37		

50 Hz

ZRD36KRE-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
14.0	0.60											
15.0	0.62											
20.0	0.70	0.72	0.73									
25.0	0.78	0.80	0.81	0.82	0.82							
30.0	0.86	0.88	0.90	0.91	0.91	0.91	0.90					
35.0	0.94	0.97	0.99	1.00	1.01	1.01	1.01	1.01	1.00	1.00		
40.0	1.03	1.06	1.08	1.10	1.11	1.11	1.11	1.12	1.12	1.11	1.11	
45.0	1.13	1.16	1.19	1.21	1.22	1.23	1.23	1.24	1.24	1.24	1.24	1.25
50.0		1.28	1.30	1.32	1.34	1.36	1.36	1.36	1.37	1.38	1.38	1.40
55.0			1.43	1.46	1.48	1.50	1.50	1.52	1.52	1.53	1.54	1.56
60.0			1.58	1.60	1.64	1.66	1.67	1.68	1.69	1.70	1.72	1.74
65.0				1.78	1.80	1.84	1.85	1.86	1.88	1.89	1.92	1.94
70.0					2.00	2.04	2.05	2.07	2.09	2.10	2.14	
75.0					2.21	2.26	2.27	2.30	2.32	2.34		

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
14.0	2.12											
15.0	2.16											
20.0	2.31	2.33	2.34									
25.0	2.44	2.46	2.48	2.48	2.48							
30.0	2.56	2.58	2.60	2.61	2.61	2.61	2.60					
35.0	2.66	2.69	2.71	2.72	2.73	2.73	2.73	2.73	2.73	2.72		
40.0	2.76	2.80	2.82	2.84	2.85	2.85	2.86	2.86	2.86	2.86	2.86	
45.0	2.87	2.91	2.94	2.96	2.98	2.99	2.99	2.99	3.00	3.00	3.00	3.01
50.0		3.03	3.07	3.10	3.12	3.13	3.14	3.15	3.15	3.16	3.17	3.18
55.0			3.22	3.25	3.28	3.30	3.31	3.32	3.33	3.34	3.36	3.38
60.0			3.39	3.43	3.47	3.50	3.51	3.52	3.54	3.55	3.57	3.60
65.0				3.64	3.69	3.73	3.74	3.76	3.78	3.79	3.83	3.86
70.0					3.95	3.99	4.01	4.04	4.06	4.08	4.12	
75.0					4.25	4.31	4.33	4.36	4.39	4.42		

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	
14.0	13.45												
15.0	13.45												
20.0	13.45	16.50	20.10										
25.0	13.40	16.50	20.10	24.30	29.20								
30.0	13.25	16.40	20.10	24.30	29.20	34.80	37.20						
35.0	13.00	16.25	19.95	24.20	29.10	34.70	37.20	41.10	44.60	48.30			
40.0	12.70	16.00	19.75	24.00	29.00	34.60	37.00	41.00	44.50	48.20	56.30		
45.0	12.30	15.65	19.45	23.80	28.70	34.40	36.80	40.80	44.30	48.00	56.20	65.30	
50.0		15.20	19.05	23.40	28.40	34.10	36.50	40.50	44.00	47.80	56.00	65.10	
55.0			18.55	22.90	27.90	33.60	36.10	40.10	43.60	47.40	55.60	64.80	
60.0			17.85	22.30	27.40	33.10	35.60	39.60	43.10	46.90	55.20	64.50	
65.0				21.60	26.70	32.40	34.90	38.90	42.50	46.30	54.60	64.00	
70.0					25.80	31.60	34.10	38.20	41.80	45.60	54.00		
75.0					24.70	30.60	33.10	37.20	40.90	44.70			

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	8.34
Length/Width, mm	239/244
Height, mm	435
Net Weight, kg	30.2
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	1.24
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	62
Sound Power (HT), dBA	73
Sound Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed)	7 / 54 / 18 °C at 50 Hz
PED Category	1
Max. Internal Free Volume, l	2.50
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	7
Locked Rotor Current, A	40
Winding Resistance, ohm	4.83
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

ACCESSORIES OPTIONAL

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