



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return
- 10 K Suction Superheat
- 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
30.0	1.54	2.02	2.64	3.39	4.27	5.27	5.71	6.40		
35.0	1.44	1.90	2.49	3.20	4.04	4.99	5.41	6.06	6.64	
40.0	1.36	1.78	2.34	3.01	3.81	4.72	5.11	5.74	6.29	6.87
45.0		1.67	2.19	2.83	3.58	4.45	4.82	5.42	5.94	6.49
50.0		1.55	2.04	2.64	3.36	4.18	4.53	5.10	5.60	6.12
55.0			1.88	2.45	3.12	3.90	4.24	4.78	5.25	5.75
60.0				2.24	2.88	3.62	3.94	4.45	4.90	5.37
65.0				2.03	2.63	3.32	3.63	4.11	4.53	4.98
70.0					2.36	3.01	3.30	3.75	4.15	4.58
75.0					2.07	2.68	2.95	3.37	3.75	4.15

50 Hz		ZR28K3E-TFD									R134a
Cond °C	Power, kW										
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	
30.0	0.89	0.90	0.90	0.89	0.87	0.85	0.85	0.84			
35.0	1.00	1.02	1.02	1.01	1.00	0.98	0.98	0.98	0.97		
40.0	1.12	1.14	1.15	1.14	1.14	1.12	1.12	1.11	1.11	1.11	
45.0		1.28	1.29	1.29	1.28	1.27	1.26	1.26	1.25	1.25	
50.0		1.44	1.45	1.45	1.44	1.42	1.42	1.41	1.40	1.40	
55.0			1.63	1.62	1.62	1.60	1.59	1.58	1.57	1.56	
60.0				1.82	1.81	1.79	1.78	1.76	1.76	1.75	
65.0				2.05	2.03	2.00	2.00	1.98	1.96	1.95	
70.0					2.28	2.25	2.24	2.21	2.20	2.18	
75.0					2.57	2.53	2.51	2.48	2.46	2.44	
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	
30.0	2.40	2.44	2.45	2.44	2.42	2.40	2.39	2.38			
35.0	2.50	2.54	2.55	2.55	2.53	2.52	2.51	2.51	2.50		
40.0	2.61	2.66	2.67	2.67	2.66	2.65	2.64	2.64	2.64	2.64	
45.0		2.80	2.82	2.82	2.81	2.79	2.79	2.78	2.78	2.78	
50.0		2.98	3.00	2.99	2.98	2.96	2.96	2.95	2.95	2.95	
55.0			3.21	3.20	3.19	3.16	3.16	3.15	3.14	3.14	
60.0				3.46	3.43	3.40	3.39	3.38	3.37	3.36	
65.0				3.76	3.73	3.69	3.67	3.65	3.64	3.63	
70.0					4.07	4.02	4.00	3.97	3.95	3.94	
75.0					4.48	4.42	4.39	4.35	4.33	4.30	
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	
30.0	10.10	13.00	16.65	20.90	25.90	31.30	33.60	37.30			
35.0	9.98	12.85	16.45	20.70	25.60	31.00	33.30	36.90	40.10		
40.0	9.89	12.70	16.25	20.50	25.30	30.70	33.00	36.60	39.70	43.00	
45.0		12.55	16.05	20.30	25.10	30.50	32.80	36.30	39.50	42.70	
50.0		12.35	15.85	20.00	24.80	30.20	32.50	36.10	39.20	42.40	
55.0			15.55	19.75	24.60	29.90	32.20	35.80	38.90	42.10	
60.0				19.35	24.20	29.60	31.90	35.50	38.60	41.80	
65.0				18.85	23.70	29.10	31.50	35.10	38.20	41.40	
70.0					23.00	28.50	30.90	34.50	37.70	41.00	
75.0					22.10	27.80	30.10	33.90	37.10	40.40	

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	6.83
Length/Width, mm	246/246
Height, mm	377
Net Weight, kg	25.4
Gross Weight, kg	29
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 (8.5)
Sound Pressure @ 1m (HT), dBA	54
Sound Power (HT), dBA	65
Sound Power with Sound Shell (HT), dBA	58
Sound Conditions (HT, Temperatures:	7 / 54 / 18 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	I
Max. Internal Free Volume, l	2.90
High Side PS gauge, bar	29.5
Low Side PS gauge, bar	20
Low Side TS Max., °C	50
Refrigerant's GWP	1430
Refrigerant's classification	A1

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

Maximum Operating Current, A	5.1
Locked Rotor Current, A	32
Winding Resistance, ohm	5.94
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermodisk
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
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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
TF5	200-220 V / 3~ / 50 Hz	200		Y	2.09
TFD	460 V / 3~ / 60 Hz	460		Y	1.04
TF5	200-230 V / 3~ / 60 Hz	230		Y	2.09