



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	1.68	2.16	2.74	3.42	4.24	5.18	5.60	6.27		
35.0	1.58	2.04	2.59	3.25	4.03	4.94	5.34	5.99	6.57	
40.0	1.48	1.92	2.44	3.07	3.82	4.69	5.08	5.70	6.25	6.85
45.0		1.79	2.29	2.89	3.60	4.43	4.80	5.39	5.93	6.50
50.0		1.66	2.14	2.70	3.38	4.17	4.52	5.08	5.59	6.14
55.0			1.98	2.51	3.15	3.89	4.22	4.76	5.25	5.77
60.0				2.31	2.91	3.61	3.93	4.43	4.89	5.38
65.0				2.12	2.67	3.32	3.62	4.10	4.53	4.99
70.0					2.42	3.03	3.30	3.75	4.15	4.59
75.0					2.17	2.73	2.98	3.40	3.77	4.18

50 Hz

ZR28KRE-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	0.86	0.86	0.86	0.87	0.88	0.89	0.89	0.90		
35.0	0.95	0.96	0.96	0.97	0.98	0.99	0.99	1.00	1.01	
40.0	1.06	1.06	1.07	1.08	1.08	1.10	1.10	1.10	1.11	1.12
45.0		1.18	1.19	1.20	1.21	1.22	1.22	1.23	1.23	1.24
50.0		1.31	1.32	1.34	1.34	1.36	1.36	1.36	1.36	1.37
55.0			1.46	1.48	1.50	1.50	1.51	1.52	1.52	1.52
60.0				1.64	1.66	1.68	1.68	1.68	1.69	1.70
65.0				1.83	1.84	1.86	1.86	1.88	1.88	1.88
70.0					2.05	2.07	2.07	2.08	2.09	2.09
75.0					2.28	2.30	2.30	2.31	2.32	2.32

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	2.59	2.59	2.58	2.58	2.59	2.60	2.61	2.62		
35.0	2.69	2.69	2.69	2.70	2.70	2.71	2.72	2.73	2.74	
40.0	2.81	2.81	2.82	2.83	2.84	2.85	2.85	2.86	2.87	2.88
45.0		2.96	2.97	2.98	2.99	3.00	3.01	3.02	3.02	3.03
50.0		3.13	3.15	3.16	3.18	3.19	3.20	3.20	3.21	3.21
55.0			3.35	3.37	3.39	3.41	3.41	3.42	3.43	3.43
60.0				3.61	3.64	3.66	3.66	3.67	3.68	3.68
65.0				3.89	3.92	3.94	3.95	3.96	3.97	3.97
70.0					4.24	4.27	4.28	4.29	4.30	4.30
75.0					4.60	4.64	4.65	4.66	4.67	4.67

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	11.05	13.90	17.25	21.10	25.60	30.80	33.00	36.50		
35.0	10.95	13.75	17.10	21.00	25.50	30.70	32.90	36.50	39.60	
40.0	10.80	13.60	16.95	20.90	25.40	30.50	32.80	36.30	39.50	42.90
45.0		13.45	16.80	20.70	25.20	30.40	32.60	36.20	39.40	42.70
50.0		13.30	16.60	20.50	25.00	30.10	32.40	36.00	39.10	42.50
55.0			16.40	20.20	24.70	29.90	32.10	35.70	38.90	42.20
60.0				19.95	24.40	29.50	31.80	35.30	38.50	41.90
65.0				19.65	24.10	29.20	31.40	35.00	38.10	41.50
70.0					23.70	28.70	31.00	34.50	37.70	41.10
75.0					23.30	28.30	30.50	34.10	37.30	40.70

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	6.83
Length/Width, mm	239/245
Height, mm	364
Net Weight, kg	25.8
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	57
Sound Power (MT), dBA	68
Sound Power with Sound Shell (MT), dBA	58
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	2.50
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	1430
Refrigerant's classification	A1

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

Maximum Operating Current, A	6.5
Locked Rotor Current, A	32
Winding Resistance, ohm	5.94
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermodisk
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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