



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	2.46	3.15	3.98	4.99	6.17	7.55	8.15	9.13		
35.0	2.31	2.97	3.77	4.74	5.87	7.19	7.78	8.72	9.57	
40.0	2.16	2.79	3.56	4.48	5.56	6.83	7.39	8.30	9.11	9.97
45.0		2.61	3.34	4.21	5.24	6.45	6.99	7.86	8.63	9.47
50.0		2.42	3.11	3.94	4.92	6.07	6.58	7.40	8.15	8.94
55.0			2.88	3.66	4.58	5.67	6.15	6.94	7.64	8.40
60.0				3.37	4.24	5.26	5.72	6.46	7.12	7.84
65.0				3.08	3.89	4.84	5.27	5.96	6.59	7.27
70.0					3.53	4.41	4.81	5.46	6.05	6.68
75.0					3.16	3.98	4.34	4.95	5.49	6.08

50 Hz

ZR42KRE-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	1.20	1.21	1.22	1.22	1.23	1.25	1.26	1.27		
35.0	1.34	1.34	1.35	1.36	1.37	1.38	1.39	1.40	1.41	
40.0	1.48	1.50	1.50	1.52	1.52	1.54	1.54	1.55	1.56	1.56
45.0		1.66	1.67	1.68	1.70	1.71	1.72	1.72	1.73	1.74
50.0		1.84	1.86	1.87	1.88	1.90	1.90	1.92	1.92	1.92
55.0			2.06	2.08	2.10	2.11	2.12	2.13	2.13	2.14
60.0				2.31	2.33	2.35	2.36	2.37	2.37	2.38
65.0				2.57	2.59	2.61	2.62	2.63	2.64	2.64
70.0					2.88	2.90	2.91	2.92	2.93	2.94
75.0					3.20	3.23	3.23	3.25	3.26	3.26

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	3.35	3.34	3.34	3.34	3.35	3.36	3.37	3.39		
35.0	3.48	3.48	3.48	3.48	3.49	3.51	3.51	3.53	3.54	
40.0	3.63	3.64	3.65	3.66	3.67	3.68	3.69	3.70	3.71	3.72
45.0		3.82	3.84	3.86	3.87	3.88	3.89	3.90	3.91	3.92
50.0		4.04	4.07	4.09	4.11	4.12	4.13	4.14	4.15	4.15
55.0			4.33	4.36	4.39	4.41	4.41	4.42	4.43	4.43
60.0				4.67	4.70	4.73	4.74	4.75	4.75	4.76
65.0				5.03	5.07	5.10	5.11	5.12	5.13	5.13
70.0					5.48	5.52	5.53	5.54	5.55	5.56
75.0					5.95	5.99	6.01	6.02	6.04	6.04

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	16.15	20.20	25.10	30.80	37.30	44.80	48.10	53.20		
35.0	15.95	20.00	24.90	30.60	37.20	44.70	47.90	53.10	57.70	
40.0	15.70	19.85	24.70	30.40	37.00	44.50	47.70	52.90	57.60	62.40
45.0		19.60	24.50	30.20	36.70	44.20	47.50	52.70	57.30	62.20
50.0		19.35	24.20	29.80	36.40	43.90	47.20	52.40	57.00	61.90
55.0			23.90	29.50	36.00	43.50	46.70	52.00	56.60	61.50
60.0				29.10	35.60	43.00	46.30	51.50	56.10	61.00
65.0				28.60	35.00	42.50	45.70	50.90	55.50	60.50
70.0					34.50	41.80	45.10	50.30	54.90	59.90
75.0					33.90	41.20	44.40	49.60	54.30	59.20

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/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	1430
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

R134a

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