



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	2.45	3.10	3.91	4.89	6.03	7.34	7.92	8.82	9.63	10.45
35.0	2.27	2.90	3.69	4.65	5.76	7.04	7.60	8.48	9.27	10.10
40.0	2.08	2.69	3.46	4.38	5.46	6.69	7.23	8.09	8.85	9.65
45.0		2.48	3.21	4.09	5.12	6.31	6.83	7.65	8.39	9.16
50.0			2.95	3.78	4.76	5.88	6.38	7.17	7.87	8.61
55.0				3.46	4.37	5.43	5.90	6.65	7.31	8.02
60.0					3.97	4.95	5.39	6.09	6.71	7.38
65.0					3.56	4.45	4.86	5.50	6.08	6.70
67.0						4.25	4.64	5.26	5.82	6.42

50 Hz

ZR28KRE-TFD

R407C 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
30.0	1.22	1.21	1.21	1.20	1.20	1.18	1.18	1.16	1.15	1.13
35.0	1.38	1.38	1.38	1.37	1.36	1.34	1.34	1.32	1.30	1.28
40.0	1.56	1.56	1.56	1.56	1.54	1.53	1.52	1.50	1.48	1.46
45.0		1.76	1.76	1.76	1.76	1.74	1.72	1.70	1.68	1.65
50.0			2.00	2.00	1.99	1.96	1.95	1.92	1.90	1.87
55.0				2.26	2.25	2.23	2.21	2.18	2.15	2.12
60.0					2.55	2.52	2.50	2.47	2.44	2.40
65.0					2.88	2.85	2.83	2.80	2.77	2.72
67.0						3.00	2.98	2.94	2.91	2.86

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	2.75	2.74	2.74	2.74	2.73	2.72	2.71	2.69	2.66	2.63
35.0	2.91	2.91	2.91	2.91	2.91	2.89	2.88	2.85	2.83	2.79
40.0	3.11	3.11	3.12	3.12	3.11	3.09	3.08	3.05	3.02	2.98
45.0		3.36	3.37	3.37	3.36	3.34	3.32	3.29	3.26	3.21
50.0			3.67	3.67	3.66	3.63	3.61	3.58	3.54	3.49
55.0				4.02	4.01	3.97	3.95	3.91	3.87	3.81
60.0					4.41	4.37	4.35	4.30	4.25	4.19
65.0					4.88	4.83	4.80	4.75	4.70	4.63
67.0						5.04	5.01	4.95	4.89	4.83

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	14.30	17.80	22.10	27.20	33.10	39.70	42.60	47.10	51.10	55.20
35.0	13.90	17.50	21.90	27.10	33.10	39.80	42.70	47.30	51.30	55.50
40.0	13.45	17.10	21.50	26.80	32.90	39.70	42.60	47.30	51.30	55.60
45.0		16.60	21.10	26.40	32.50	39.30	42.30	47.00	51.10	55.40
50.0			20.60	25.80	31.90	38.80	41.80	46.50	50.60	55.00
55.0				25.20	31.20	38.00	41.00	45.70	49.90	54.30
60.0					30.30	37.10	40.10	44.80	48.90	53.30
65.0					29.40	36.00	38.90	43.60	47.70	52.10
67.0						35.60	38.50	43.10	47.20	51.60

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	55
Sound Power (MT), dBA	66
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	1774
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