



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	2.22	2.86	3.61	4.46	5.43	6.53	7.01	7.76	8.43	9.13
35.0	2.03	2.65	3.37	4.19	5.13	6.19	6.65	7.39	8.03	8.71
40.0	1.82	2.42	3.11	3.90	4.80	5.83	6.27	6.98	7.61	8.26
45.0		2.18	2.84	3.59	4.45	5.44	5.86	6.54	7.15	7.79
50.0			2.55	3.26	4.08	5.02	5.43	6.08	6.66	7.27
55.0				2.91	3.68	4.57	4.96	5.58	6.14	6.73
60.0					3.26	4.10	4.47	5.06	5.59	6.15
65.0					2.81	3.59	3.94	4.50	5.00	5.54
67.0						3.38	3.72	4.27	4.76	5.28

50 Hz

ZR24KRE-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	1.08	1.06	1.04	1.02	1.00	0.99	0.99	1.00	1.02	1.04
35.0	1.23	1.21	1.18	1.16	1.14	1.13	1.13	1.14	1.16	1.18
40.0	1.42	1.40	1.36	1.32	1.30	1.28	1.28	1.30	1.31	1.33
45.0		1.62	1.57	1.52	1.49	1.46	1.46	1.46	1.48	1.50
50.0			1.82	1.76	1.71	1.68	1.67	1.66	1.67	1.68
55.0				2.04	1.97	1.92	1.91	1.90	1.90	1.90
60.0					2.28	2.21	2.19	2.17	2.16	2.16
65.0					2.65	2.56	2.53	2.49	2.47	2.46
67.0						2.71	2.68	2.63	2.61	2.59

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	2.19	2.16	2.12	2.09	2.08	2.10	2.11	2.16	2.21	2.28
35.0	2.32	2.30	2.27	2.23	2.21	2.22	2.23	2.27	2.31	2.37
40.0	2.50	2.48	2.44	2.40	2.37	2.37	2.38	2.41	2.44	2.50
45.0		2.70	2.66	2.61	2.57	2.56	2.56	2.58	2.61	2.65
50.0			2.93	2.87	2.82	2.79	2.79	2.79	2.81	2.84
55.0				3.20	3.13	3.08	3.07	3.06	3.06	3.08
60.0					3.50	3.43	3.41	3.38	3.37	3.38
65.0					3.95	3.85	3.82	3.78	3.76	3.75
67.0						4.04	4.00	3.96	3.93	3.91

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	13.00	16.50	20.40	24.90	29.80	35.30	37.70	41.40	44.70	48.10
35.0	12.45	16.00	19.95	24.40	29.40	35.00	37.40	41.20	44.50	47.90
40.0	11.80	15.35	19.40	23.90	28.90	34.50	37.00	40.80	44.10	47.60
45.0		14.60	18.65	23.20	28.20	33.90	36.30	40.20	43.60	47.10
50.0			17.75	22.30	27.40	33.10	35.50	39.40	42.80	46.40
55.0				21.20	26.30	32.00	34.50	38.40	41.90	45.60
60.0					24.90	30.70	33.20	37.20	40.70	44.40
65.0					23.20	29.10	31.60	35.70	39.30	43.10
67.0						28.30	30.90	35.00	38.60	42.40

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	5.92
Length/Width, mm	239/245
Height, mm	364
Net Weight, kg	25.3
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	0.74
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	4.9
Locked Rotor Current, A	26
Winding Resistance, ohm	7.1
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermodisk
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ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
Oil Control System	ALCO Trax-Oil OM3
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