



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	5.88	7.34	9.06	11.10	13.55	16.40	17.70	19.75	21.60	23.70
35.0	5.54	6.97	8.62	10.55	12.85	15.55	16.75	18.70	20.50	22.40
40.0	5.15	6.57	8.16	10.00	12.15	14.70	15.85	17.65	19.35	21.10
45.0		6.10	7.65	9.42	11.45	13.85	14.90	16.65	18.20	19.90
50.0			7.08	8.78	10.75	13.00	14.00	15.60	17.10	18.70
55.0				8.10	9.95	12.10	13.05	14.55	15.95	17.45
60.0					9.12	11.15	12.05	13.50	14.80	16.20
65.0					8.22	10.15	11.00	12.40	13.60	14.95
67.0						9.74	10.55	11.90	13.15	14.45

50 Hz

ZR61KRE-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	2.46	2.50	2.55	2.59	2.61	2.59	2.56	2.51	2.45	2.36
35.0	2.75	2.78	2.83	2.88	2.92	2.93	2.92	2.90	2.86	2.81
40.0	3.11	3.11	3.15	3.19	3.24	3.27	3.28	3.28	3.26	3.23
45.0		3.52	3.53	3.56	3.60	3.65	3.66	3.67	3.67	3.66
50.0			3.99	3.99	4.02	4.06	4.08	4.09	4.10	4.10
55.0				4.52	4.52	4.54	4.55	4.57	4.58	4.58
60.0					5.10	5.10	5.10	5.11	5.11	5.12
65.0					5.80	5.75	5.74	5.74	5.73	5.73
67.0						6.05	6.03	6.02	6.01	6.00

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	6.32	6.36	6.42	6.45	6.47	6.44	6.41	6.36	6.29	6.21
35.0	6.56	6.60	6.65	6.70	6.74	6.75	6.74	6.72	6.68	6.63
40.0	6.89	6.90	6.94	7.00	7.05	7.08	7.09	7.09	7.07	7.05
45.0		7.31	7.33	7.37	7.42	7.47	7.48	7.50	7.50	7.49
50.0			7.82	7.84	7.88	7.93	7.94	7.97	7.98	7.99
55.0				8.44	8.45	8.49	8.50	8.53	8.55	8.56
60.0					9.17	9.18	9.19	9.21	9.22	9.24
65.0					10.05	10.02	10.02	10.02	10.03	10.04
67.0						10.40	10.40	10.39	10.40	10.41

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	34.40	42.20	51.30	61.90	74.30	88.70	95.10	105.50	115.00	124.50
35.0	34.00	42.00	51.10	61.60	73.70	87.90	94.20	104.50	113.50	123.00
40.0	33.30	41.60	50.80	61.20	73.20	87.10	93.30	103.00	112.00	121.50
45.0		40.80	50.30	60.70	72.70	86.40	92.40	102.00	111.00	120.50
50.0			49.30	60.00	72.00	85.60	91.60	101.00	110.00	119.00
55.0				58.90	71.00	84.70	90.70	100.50	109.00	118.00
60.0					69.70	83.60	89.60	99.30	108.00	117.00
65.0					67.90	82.10	88.30	98.10	107.00	116.50
67.0						81.50	87.70	97.60	106.50	116.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	14.4
Length/Width, mm	246/257
Height, mm	438
Net Weight, kg	37.5
Stub Suction, inch	7/8
Stub Discharge, inch	1/2
Oil Quantity, l	1.9
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	61
Sound Power (MT), dBA	72
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	4.20
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	12.8
Locked Rotor Current, A	65.6
Winding Resistance, ohm	2.72
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

50 Hz

ZR61KRE-TFD

R407C Dew Point

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