



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	3.87	4.93	6.16	7.58	9.19	11.00	11.80	13.05	14.15	15.30
35.0	3.60	4.62	5.81	7.18	8.75	10.55	11.30	12.55	13.60	14.75
40.0	3.33	4.30	5.44	6.76	8.29	10.00	10.80	12.00	13.05	14.15
45.0		3.97	5.05	6.32	7.79	9.47	10.20	11.35	12.40	13.50
50.0			4.64	5.85	7.25	8.87	9.59	10.75	11.75	12.80
55.0				5.35	6.69	8.24	8.93	10.05	11.00	12.05
60.0					6.09	7.57	8.23	9.30	10.25	11.25
65.0					5.47	6.87	7.50	8.51	9.43	10.40
67.0						6.57	7.19	8.19	9.09	10.05

50 Hz

ZR42KRE-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	1.74	1.76	1.76	1.75	1.74	1.74	1.74	1.74	1.75	1.76
35.0	1.97	1.98	1.98	1.98	1.97	1.96	1.96	1.96	1.96	1.96
40.0	2.23	2.24	2.24	2.23	2.22	2.21	2.21	2.21	2.21	2.21
45.0		2.53	2.53	2.52	2.51	2.50	2.49	2.49	2.48	2.48
50.0			2.85	2.85	2.84	2.82	2.81	2.81	2.80	2.79
55.0				3.22	3.20	3.18	3.18	3.17	3.16	3.15
60.0					3.61	3.59	3.58	3.57	3.56	3.55
65.0					4.07	4.05	4.04	4.02	4.01	4.00
67.0						4.25	4.24	4.22	4.21	4.19

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	3.96	3.99	4.01	4.02	4.03	4.04	4.05	4.06	4.08	4.10
35.0	4.16	4.20	4.23	4.24	4.25	4.25	4.26	4.27	4.28	4.30
40.0	4.41	4.46	4.49	4.50	4.51	4.51	4.51	4.52	4.52	4.53
45.0		4.77	4.80	4.82	4.82	4.81	4.81	4.81	4.81	4.81
50.0			5.18	5.19	5.19	5.17	5.17	5.16	5.15	5.14
55.0				5.64	5.63	5.61	5.59	5.57	5.56	5.54
60.0					6.15	6.12	6.10	6.07	6.05	6.02
65.0					6.77	6.72	6.69	6.65	6.62	6.58
67.0						6.99	6.96	6.92	6.88	6.84

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	22.60	28.40	34.90	42.20	50.40	59.60	63.50	69.60	75.00	80.60
35.0	22.10	27.90	34.40	41.90	50.30	59.60	63.60	69.90	75.40	81.10
40.0	21.50	27.30	33.90	41.40	49.90	59.40	63.50	69.90	75.60	81.50
45.0		26.60	33.20	40.80	49.40	59.10	63.20	69.80	75.70	81.80
50.0			32.30	40.00	48.70	58.50	62.80	69.60	75.50	81.80
55.0				38.90	47.70	57.70	62.10	69.10	75.20	81.70
60.0					46.60	56.80	61.20	68.40	74.70	81.40
65.0					45.20	55.50	60.10	67.50	74.10	81.00
67.0						55.00	59.60	67.10	73.70	80.90

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	58
Sound Power (MT), dBA	69
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	1774
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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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

50 Hz

ZR42KRE-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