



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
27.0	3.97	5.04	6.31	7.80	9.55	11.60	12.50	13.95	15.25	16.60
30.0	3.80	4.84	6.08	7.54	9.25	11.25	12.10	13.55	14.80	16.15
35.0	3.54	4.54	5.73	7.13	8.77	10.65	11.50	12.85	14.10	15.40
40.0	3.29	4.25	5.39	6.72	8.29	10.10	10.90	12.20	13.35	14.60
45.0		3.96	5.04	6.31	7.79	9.51	10.30	11.50	12.60	13.80
50.0			4.68	5.87	7.27	8.90	9.62	10.80	11.85	12.95
55.0				5.41	6.72	8.25	8.93	10.05	11.00	12.10
60.0					6.14	7.56	8.20	9.22	10.15	11.15
65.0					5.50	6.82	7.40	8.36	9.22	10.15

50 Hz

ZRD42KCE-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
27.0	1.44	1.50	1.53	1.55	1.56	1.58	1.60	1.62	1.66	1.70
30.0	1.54	1.61	1.66	1.68	1.70	1.72	1.73	1.76	1.78	1.82
35.0	1.70	1.80	1.86	1.90	1.92	1.96	1.96	1.99	2.02	2.05
40.0	1.86	2.00	2.08	2.14	2.18	2.21	2.22	2.25	2.28	2.31
45.0		2.21	2.32	2.40	2.45	2.49	2.51	2.54	2.56	2.59
50.0			2.58	2.68	2.75	2.80	2.82	2.85	2.88	2.91
55.0				2.99	3.08	3.14	3.17	3.20	3.23	3.27
60.0					3.43	3.52	3.55	3.59	3.62	3.66
65.0					3.82	3.93	3.97	4.02	4.06	4.09

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
27.0	3.31	3.37	3.42	3.45	3.47	3.49	3.50	3.52	3.54	3.57
30.0	3.41	3.48	3.54	3.58	3.60	3.63	3.64	3.66	3.68	3.71
35.0	3.58	3.68	3.75	3.81	3.84	3.88	3.89	3.91	3.93	3.96
40.0	3.78	3.91	4.00	4.07	4.12	4.16	4.18	4.20	4.23	4.25
45.0		4.16	4.28	4.36	4.43	4.49	4.51	4.54	4.56	4.59
50.0			4.60	4.70	4.79	4.86	4.89	4.92	4.95	4.98
55.0				5.09	5.20	5.28	5.32	5.36	5.40	5.43
60.0					5.66	5.77	5.80	5.86	5.90	5.94
65.0					6.18	6.31	6.36	6.42	6.47	6.52

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
27.0	22.60	28.20	34.70	42.30	51.10	61.10	65.50	72.50	78.80	85.40
30.0	22.20	27.90	34.40	42.00	50.80	60.80	65.20	72.20	78.50	85.10
35.0	21.70	27.40	34.00	41.60	50.30	60.40	64.80	71.80	78.00	84.60
40.0	21.20	27.00	33.60	41.20	49.90	59.90	64.30	71.30	77.50	84.10
45.0		26.50	33.10	40.70	49.40	59.30	63.70	70.70	76.90	83.50
50.0			32.60	40.10	48.80	58.70	63.00	70.00	76.20	82.80
55.0				39.40	48.00	57.80	62.10	69.10	75.20	81.80
60.0					46.90	56.70	61.00	67.80	74.00	80.60
65.0					45.40	55.10	59.40	66.20	72.40	78.90

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	9.94
Length/Width, mm	241/241
Height, mm	462
Net Weight, kg	31
Gross Weight, kg	34
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	1.24
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 (8.5)
Sound Pressure @ 1m (HT), dBA	60
Sound Power (HT), dBA	71
Sound Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed)	7 / 54 / 18 °C at 50 Hz
PED Category	1
Max. Internal Free Volume, l	4.50
High Side PS gauge, bar	29.5
Low Side PS gauge, bar	20
Refrigerant's GWP	1774
Refrigerant's classification	A1

COMPRESSOR ELECTRICAL DATA (380-420 V / 3~ / 50 Hz)

Maximum Operating Current, A	6.9
Locked Rotor Current, A	46
Winding Resistance, ohm	4.03
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Mounting Grommets	Rubber Grommet For Single
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ACCESSORIES OPTIONAL

Mounting Grommets	Hard Mounts for Paralleling
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50 Hz

ZRD42KCE-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