



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	4.87	6.38	8.18	10.30	12.80	15.65	16.90	18.95	20.80	22.80
35.0	4.53	6.00	7.73	9.78	12.15	14.95	16.15	18.15	19.90	21.80
40.0	4.17	5.58	7.25	9.21	11.50	14.15	15.35	17.25	18.95	20.80
45.0		5.15	6.73	8.60	10.80	13.35	14.45	16.25	17.90	19.65
50.0			6.20	7.96	10.05	12.45	13.50	15.20	16.75	18.45
55.0				7.30	9.23	11.50	12.50	14.15	15.60	17.15
60.0					8.41	10.50	11.45	13.00	14.35	15.85
65.0					7.58	9.52	10.40	11.80	13.10	14.45
67.0						9.11	9.96	11.30	12.55	13.90

50 Hz

ZR61KCE-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	2.44	2.46	2.48	2.49	2.52	2.58	2.61	2.68	2.76	2.85
35.0	2.73	2.77	2.80	2.81	2.83	2.87	2.89	2.95	3.00	3.07
40.0	3.03	3.10	3.14	3.16	3.18	3.21	3.22	3.26	3.30	3.36
45.0		3.45	3.52	3.55	3.57	3.59	3.60	3.63	3.66	3.70
50.0			3.92	3.97	4.00	4.02	4.03	4.05	4.07	4.10
55.0				4.42	4.47	4.50	4.51	4.52	4.54	4.56
60.0					4.98	5.02	5.04	5.05	5.07	5.09
65.0					5.53	5.59	5.61	5.64	5.65	5.67
67.0						5.84	5.86	5.88	5.90	5.92

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	6.12	6.15	6.19	6.23	6.28	6.33	6.35	6.39	6.43	6.46
35.0	6.38	6.41	6.44	6.48	6.53	6.58	6.60	6.64	6.67	6.71
40.0	6.71	6.74	6.77	6.81	6.85	6.91	6.93	6.96	6.99	7.03
45.0		7.15	7.18	7.21	7.26	7.30	7.33	7.36	7.39	7.42
50.0			7.66	7.69	7.73	7.78	7.80	7.83	7.86	7.89
55.0				8.24	8.28	8.32	8.34	8.38	8.40	8.43
60.0					8.90	8.95	8.97	9.00	9.02	9.05
65.0					9.60	9.64	9.66	9.69	9.72	9.74
67.0						9.94	9.96	9.99	10.01	10.04

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	28.50	36.70	46.30	57.40	70.10	84.70	91.10	101.50	110.50	120.00
35.0	27.80	36.10	45.80	57.00	69.90	84.50	90.90	101.00	110.50	120.00
40.0	26.90	35.40	45.10	56.40	69.30	84.00	90.40	100.50	110.00	119.50
45.0		34.40	44.20	55.50	68.40	83.10	89.60	99.90	109.00	119.00
50.0			43.20	54.40	67.30	82.00	88.40	98.70	108.00	117.50
55.0				53.10	65.90	80.50	87.00	97.20	106.50	116.00
60.0					64.30	78.90	85.30	95.50	104.50	114.50
65.0					62.60	77.00	83.40	93.60	102.50	112.50
67.0						76.20	82.60	92.80	102.00	111.50

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	14.3
Length/Width, mm	246/246
Height, mm	451
Net Weight, kg	39.5
Stub Suction, inch	7/8
Stub Discharge, inch	1/2
Oil Quantity, l	1.66
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 Power with Sound Shell (HT), dBA	67
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	4.10
High Side PS gauge, bar	29.5
Low Side PS gauge, bar	20
Low Side TS Max., °C	50
Refrigerant's GWP	1774
Refrigerant's classification	A1

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

Maximum Operating Current, A	11
Locked Rotor Current, A	65.5
Winding Resistance, ohm	2.75
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermodisk
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
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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
TF5	200-220 V / 3~ / 50 Hz	200		Y	2.09
TFD	460 V / 3~ / 60 Hz	460		Y	1.04
TF5	200-230 V / 3~ / 60 Hz	230		Y	2.09