



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	5.61	6.96	8.55	10.45	12.75	15.55	16.85	18.95	20.90	23.00
35.0	5.40	6.82	8.41	10.25	12.40	15.00	16.20	18.10	19.85	21.80
40.0	4.95	6.46	8.07	9.87	11.95	14.35	15.45	17.20	18.80	20.60
45.0		5.90	7.57	9.36	11.35	13.60	14.60	16.25	17.70	19.35
50.0			6.92	8.72	10.65	12.80	13.75	15.25	16.60	18.05
55.0				7.98	9.89	11.95	12.85	14.25	15.50	16.85
60.0					9.06	11.05	11.90	13.20	14.40	15.60
65.0					8.20	10.15	10.95	12.20	13.30	14.45
67.0						9.80	10.60	11.80	12.90	14.00

50 Hz

ZR61KSE-TFM

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	2.37	2.40	2.47	2.52	2.55	2.50	2.46	2.36	2.24	2.08
35.0	2.66	2.67	2.72	2.79	2.82	2.81	2.78	2.70	2.61	2.48
40.0	3.03	3.01	3.05	3.11	3.16	3.16	3.15	3.09	3.02	2.92
45.0		3.44	3.45	3.50	3.55	3.57	3.57	3.53	3.48	3.39
50.0			3.94	3.97	4.01	4.04	4.04	4.02	3.98	3.91
55.0				4.51	4.54	4.57	4.57	4.56	4.53	4.48
60.0					5.15	5.17	5.17	5.16	5.14	5.10
65.0					5.83	5.84	5.83	5.83	5.81	5.77
67.0						6.12	6.12	6.11	6.09	6.06

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	5.20	5.26	5.40	5.54	5.63	5.59	5.53	5.37	5.16	4.89
35.0	5.40	5.42	5.54	5.70	5.82	5.83	5.80	5.69	5.53	5.31
40.0	5.74	5.71	5.81	5.96	6.10	6.16	6.15	6.08	5.97	5.80
45.0		6.13	6.19	6.33	6.48	6.58	6.59	6.56	6.48	6.35
50.0			6.70	6.81	6.96	7.08	7.11	7.11	7.07	6.98
55.0				7.40	7.54	7.68	7.71	7.74	7.72	7.67
60.0					8.22	8.36	8.40	8.45	8.45	8.42
65.0					8.99	9.12	9.17	9.23	9.26	9.25
67.0						9.46	9.51	9.57	9.60	9.60

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	32.80	40.00	48.40	58.30	70.10	84.20	90.60	101.00	110.50	121.00
35.0	33.10	41.10	49.80	59.70	71.30	84.90	91.00	101.00	110.00	120.00
40.0	31.90	40.90	50.30	60.40	71.90	85.10	91.00	100.50	109.00	118.50
45.0		39.50	49.70	60.40	71.90	84.90	90.60	99.70	108.00	117.00
50.0			48.20	59.60	71.50	84.40	90.00	98.90	107.00	115.50
55.0				58.00	70.50	83.70	89.20	98.00	105.50	114.00
60.0					69.30	82.90	88.50	97.20	105.00	113.00
65.0					67.80	82.20	87.90	96.80	104.50	112.50
67.0						81.90	87.80	96.80	104.50	112.50

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	14.4
Length/Width, mm	243/243
Height, mm	430
Net Weight, kg	29.9
Stub Suction, inch	7/8
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	61
Sound Power (HT), dBA	72
Sound Power with Sound Shell (HT), dBA	66
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	6.50
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	12
Locked Rotor Current, A	59
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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50 Hz

ZR61KSE-TFM

R407C Dew Point

MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
TFM	380-420 V / 3~ / 50 Hz	400		Y	1.00