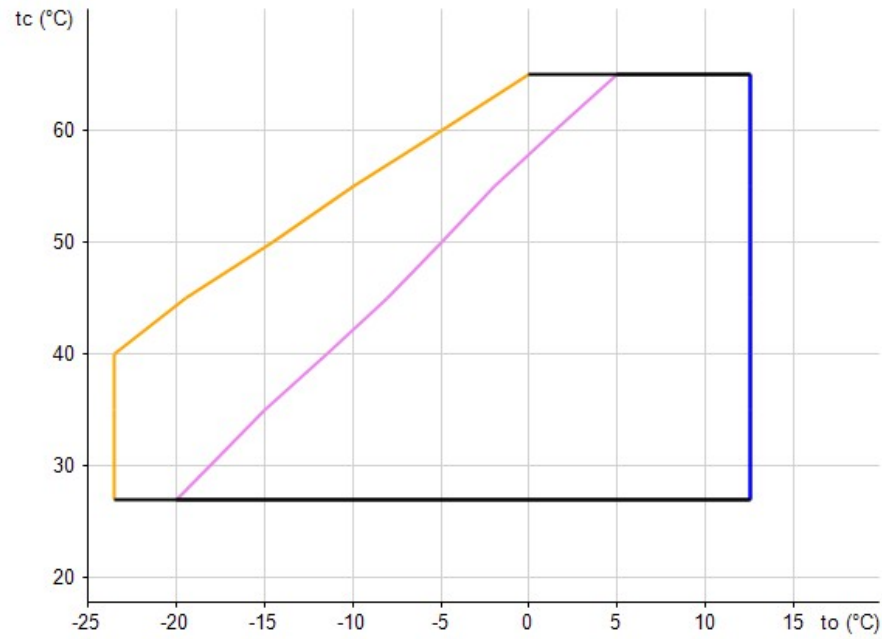




Minimum Evaporating Temp. With:

- 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
27.0	8.24	10.35	12.85	15.60	18.60	21.80	23.20	25.20	27.00
30.0	7.97	10.05	12.50	15.25	18.25	21.50	22.80	24.90	26.70
35.0	7.54	9.53	11.90	14.55	17.55	20.80	22.20	24.30	26.10
40.0	7.13	8.98	11.25	13.85	16.75	20.00	21.40	23.50	25.30
45.0		8.44	10.55	13.05	15.90	19.05	20.40	22.50	24.30
50.0			9.86	12.20	14.95	18.05	19.35	21.40	23.20
55.0			9.16	11.35	13.95	16.90	18.20	20.20	21.90
60.0				10.45	12.90	15.70	16.90	18.85	20.60
65.0					11.80	14.40	15.60	17.45	19.10

50 Hz

ZR81KCE-TFD

R22

Cond °C	Power, kW								
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
27.0	3.10	3.14	3.18	3.22	3.27	3.34	3.37	3.42	3.47
30.0	3.31	3.35	3.39	3.43	3.48	3.54	3.57	3.62	3.67
35.0	3.68	3.73	3.77	3.81	3.85	3.91	3.94	3.98	4.03
40.0	4.09	4.14	4.18	4.22	4.27	4.32	4.34	4.39	4.43
45.0		4.61	4.65	4.69	4.73	4.78	4.80	4.84	4.88
50.0			5.17	5.21	5.25	5.30	5.32	5.35	5.38
55.0			5.76	5.80	5.84	5.88	5.90	5.93	5.96
60.0				6.45	6.49	6.53	6.55	6.57	6.60
65.0					7.22	7.26	7.28	7.30	7.32

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
27.0	7.65	7.70	7.74	7.78	7.84	7.92	7.97	8.04	8.11
30.0	7.86	7.91	7.95	8.00	8.05	8.13	8.17	8.24	8.31
35.0	8.25	8.31	8.35	8.40	8.45	8.53	8.57	8.63	8.70
40.0	8.71	8.78	8.83	8.87	8.93	9.00	9.03	9.10	9.16
45.0		9.33	9.38	9.43	9.49	9.55	9.59	9.64	9.70
50.0			10.03	10.09	10.14	10.21	10.24	10.29	10.34
55.0			10.79	10.85	10.90	10.97	11.00	11.05	11.10
60.0				11.73	11.78	11.85	11.87	11.92	11.97
65.0					12.79	12.86	12.88	12.93	12.97

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
27.0	48.10	59.80	73.00	87.60	103.50	120.00	127.00	137.00	146.00
30.0	47.60	59.30	72.60	87.50	103.50	120.50	127.50	138.50	147.50
35.0	46.80	58.30	71.80	86.90	103.50	121.00	128.50	139.50	149.50
40.0	46.10	57.30	70.60	85.90	103.00	121.00	128.50	140.50	150.50
45.0		56.20	69.30	84.50	101.50	120.50	128.00	140.00	150.50
50.0			67.70	82.80	99.90	119.00	127.00	139.50	150.00
55.0			66.10	80.70	97.70	117.00	125.00	137.50	148.50
60.0				78.40	95.10	114.00	122.50	135.50	146.50
65.0					92.10	111.00	119.00	132.50	143.50

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	18.8
Length/Width, mm	246/246
Height, mm	456
Net Weight, kg	39
Gross Weight, kg	45
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1 1/4
Stub Suction, inch	7/8
Stub Discharge, inch	3/4
Oil Quantity, l	1.77
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	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	4.20
High Side PS gauge, bar	29.5
Low Side PS gauge, bar	20
Low Side TS Max., °C	50
Refrigerant's GWP	1810
Refrigerant's classification	A1

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

Maximum Operating Current, A	15
Locked Rotor Current, A	101
Winding Resistance, ohm	1.79
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

<i>Motor Code</i>	<i>Power Supply</i>	<i>Nominal Voltage, V</i>	<i>Start Connection</i>	<i>DOL Connection</i>	<i>Amps Factor</i>
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