



Minimum Evaporating Temp. With:

— 10 K Suction Superheat

— Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW						
	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
20.0	16.00	19.20	23.20	25.00	28.00		
25.0	15.35	18.50	22.40	24.20	27.00	29.60	
30.0	14.65	17.70	21.50	23.20	26.00	28.50	31.10
35.0	13.80	16.80	20.50	22.20	24.80	27.20	29.80
40.0	12.90	15.80	19.40	21.00	23.60	25.90	28.30
45.0	11.90	14.75	18.20	19.75	22.20	24.40	26.70
50.0	10.85	13.60	16.90	18.40	20.70	22.80	25.00
55.0		12.35	15.50	16.90	19.15	21.20	23.20
60.0		11.00	14.05	15.40	17.50	19.40	21.30
65.0			12.50	13.75	15.75	17.50	19.35
70.0			10.85	12.05	13.90	15.55	17.25
75.0			9.16	10.25	12.00	13.50	15.05

50 Hz

ZRH116KTE-TFD

R134a

Cond °C	Power, kW						
	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
20.0	2.89	2.84	2.83	2.85	2.91		
25.0	3.23	3.20	3.20	3.22	3.28	3.36	
30.0	3.59	3.59	3.59	3.61	3.66	3.73	3.84
35.0	3.99	4.01	4.02	4.04	4.08	4.14	4.22
40.0	4.45	4.48	4.50	4.51	4.54	4.58	4.66
45.0	4.96	5.02	5.03	5.04	5.06	5.09	5.14
50.0	5.56	5.63	5.64	5.64	5.65	5.67	5.70
55.0		6.32	6.34	6.33	6.33	6.33	6.34
60.0		7.12	7.13	7.12	7.10	7.08	7.07
65.0			8.03	8.01	7.97	7.94	7.91
70.0			9.05	9.03	8.97	8.92	8.87
75.0			10.20	10.20	10.10	10.05	9.96

Cond °C	Current at 400 V, A						
	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
20.0	8.63	8.57	8.55	8.56	8.63		
25.0	8.97	8.94	8.93	8.95	9.01	9.09	
30.0	9.34	9.33	9.34	9.36	9.41	9.48	9.60
35.0	9.76	9.78	9.79	9.81	9.85	9.92	10.01
40.0	10.25	10.30	10.32	10.33	10.37	10.42	10.49
45.0	10.86	10.92	10.94	10.95	10.97	11.01	11.07
50.0	11.59	11.67	11.69	11.69	11.70	11.72	11.75
55.0		12.57	12.58	12.58	12.57	12.57	12.58
60.0		13.63	13.64	13.63	13.60	13.58	13.57
65.0			14.90	14.87	14.83	14.78	14.74
70.0			16.37	16.34	16.27	16.20	16.13
75.0			18.09	18.04	17.95	17.86	17.76

Cond °C	Suction Mass Flow, g/s						
	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
20.0	90.80	107.00	127.00	136.00	150.50		
25.0	90.80	107.00	127.50	136.50	151.00	164.00	
30.0	90.30	107.00	127.50	137.00	151.50	164.50	178.00
35.0	89.30	106.50	127.50	136.50	151.50	164.50	178.00
40.0	87.70	105.00	126.50	135.50	150.50	163.50	177.00
45.0	85.30	103.00	124.50	134.00	149.00	162.00	175.50
50.0	82.30	100.50	122.00	131.50	146.50	159.50	173.00
55.0		97.00	119.00	128.50	143.50	156.50	170.00
60.0		92.50	115.00	124.50	139.50	152.50	166.00
65.0			109.50	119.00	134.50	147.50	161.00
70.0			103.00	113.00	128.00	141.00	154.50
75.0			94.80	105.00	120.00	133.00	146.50

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	29.1
Length/Width, mm	586/314
Height, mm	245
Net Weight, kg	64
Stub Suction, inch	1 3/8
Stub Discharge, inch	7/8
Oil Quantity, l	1.63
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF
Base mounting (hole dia), mm	NA (0)
Sound Pressure @ 1m (HT), dBA	63
Sound Power (HT), dBA	74
Sound Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed)	7 / 54 / 18 °C at 50 Hz
PED Category	2
Max. Internal Free Volume, l	14.3
High Side PS gauge, bar	32
Low Side PS gauge, bar	20
Low Side TS Max., °C	50
Refrigerant's GWP	1430
Refrigerant's classification	A1

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

Maximum Operating Current, A	19.6
Locked Rotor Current, A	118
Winding Resistance, ohm	1.24
Default Enclosure Class	IP 56

**ACCESSORIES INCLUDED**

Mounting Grommets	Standard
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**ACCESSORIES OPTIONAL**

Crankcase Heater	90 W External
Enclosure Class	Acc7607

**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