



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	13.10	15.25	17.95	19.20	21.30		
25.0	12.20	14.45	17.25	18.50	20.60	22.50	
30.0	11.35	13.65	16.50	17.80	19.95	21.90	24.00
35.0	10.50	12.90	15.75	17.05	19.20	21.10	23.20
40.0	9.70	12.05	14.90	16.20	18.30	20.20	22.30
45.0	8.86	11.20	14.00	15.30	17.35	19.20	21.20
50.0	7.99	10.25	13.00	14.20	16.20	18.05	20.00
55.0		9.23	11.85	13.00	14.95	16.70	18.55
60.0		8.08	10.55	11.65	13.45	15.10	16.90
65.0			9.06	10.10	11.80	13.35	15.00
70.0			7.41	8.35	9.89	11.30	12.85
75.0			5.56	6.39	7.77	9.05	10.45

50 Hz

ZRH87KTE-TFD

R134a

Cond °C	Power, kW						
	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
20.0	2.37	2.30	2.24	2.24	2.29		
25.0	2.55	2.52	2.48	2.48	2.53	2.63	
30.0	2.78	2.78	2.75	2.75	2.80	2.89	3.05
35.0	3.06	3.08	3.06	3.06	3.11	3.19	3.34
40.0	3.39	3.43	3.42	3.42	3.46	3.53	3.66
45.0	3.79	3.85	3.83	3.83	3.86	3.92	4.03
50.0	4.26	4.33	4.31	4.30	4.32	4.36	4.46
55.0		4.89	4.86	4.85	4.84	4.87	4.95
60.0		5.53	5.49	5.47	5.45	5.46	5.51
65.0			6.21	6.18	6.13	6.12	6.15
70.0			7.03	6.98	6.91	6.87	6.87
75.0			7.94	7.88	7.79	7.72	7.69

Cond °C	Current at 400 V, A						
	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
20.0	7.72	7.66	7.59	7.58	7.63		
25.0	7.90	7.88	7.83	7.83	7.88	7.98	
30.0	8.12	8.13	8.09	8.10	8.14	8.24	8.40
35.0	8.39	8.42	8.40	8.40	8.44	8.53	8.68
40.0	8.72	8.76	8.75	8.75	8.79	8.86	9.00
45.0	9.12	9.19	9.17	9.17	9.20	9.26	9.38
50.0	9.63	9.70	9.68	9.67	9.68	9.73	9.83
55.0		10.32	10.29	10.27	10.27	10.30	10.37
60.0		11.06	11.01	10.98	10.96	10.97	11.02
65.0			11.87	11.83	11.78	11.76	11.79
70.0			12.87	12.81	12.74	12.70	12.69
75.0			14.03	13.96	13.86	13.79	13.75

Cond °C	Suction Mass Flow, g/s						
	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
20.0	74.20	84.80	98.10	104.00	114.50		
25.0	72.00	83.70	98.10	104.50	115.50	125.00	
30.0	70.00	82.70	98.00	105.00	116.00	126.50	137.50
35.0	68.00	81.60	97.80	105.00	117.00	127.50	139.00
40.0	65.90	80.20	97.20	104.50	117.00	128.00	139.50
45.0	63.50	78.40	96.00	103.50	116.50	127.50	139.50
50.0	60.60	76.00	93.90	102.00	114.50	126.00	138.50
55.0		72.50	90.80	98.90	112.00	123.50	136.00
60.0		67.80	86.10	94.20	107.50	119.00	131.50
65.0			79.50	87.60	100.50	112.50	125.00
70.0			70.20	78.20	91.10	102.50	115.00
75.0			57.60	65.30	77.90	89.40	101.50

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	22.1
Length/Width, mm	586/314
Height, mm	245
Net Weight, kg	59.9
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	62
Sound Power (HT), dBA	73
Sound Conditions (HT, Temperatures:	7 / 54 / 18 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	2
Max. Internal Free Volume, l	12.0
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

50 Hz

ZRH87KTE-TFD

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

Maximum Operating Current, A	15.9
Locked Rotor Current, A	95
Winding Resistance, ohm	1.8
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**

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