



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	13.80	17.30	21.10	22.70	25.20		
25.0	13.30	16.65	20.30	21.80	24.30	26.50	
30.0	12.65	15.85	19.35	20.90	23.30	25.40	27.60
35.0	12.00	15.00	18.35	19.80	22.10	24.20	26.40
40.0	11.25	14.10	17.30	18.70	20.90	22.90	25.00
45.0	10.45	13.10	16.15	17.50	19.60	21.50	23.60
50.0	9.62	12.10	14.95	16.20	18.25	20.10	22.10
55.0		11.05	13.70	14.90	16.85	18.65	20.60
60.0		9.95	12.45	13.60	15.45	17.10	18.95
65.0			11.15	12.20	13.95	15.55	17.30
70.0			9.87	10.85	12.50	14.00	15.65
75.0			8.58	9.47	11.00	12.40	13.95

50 Hz

ZRH100KTE-TFD

R134a

Cond °C	Power, kW						
	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
20.0	2.62	2.63	2.65	2.67	2.73		
25.0	2.81	2.82	2.84	2.85	2.90	2.97	
30.0	3.06	3.09	3.10	3.11	3.15	3.21	3.30
35.0	3.38	3.42	3.43	3.44	3.47	3.52	3.60
40.0	3.75	3.81	3.82	3.83	3.86	3.90	3.97
45.0	4.19	4.26	4.28	4.29	4.31	4.35	4.41
50.0	4.67	4.76	4.80	4.81	4.83	4.86	4.91
55.0		5.33	5.37	5.39	5.41	5.44	5.48
60.0		5.94	6.01	6.02	6.04	6.07	6.11
65.0			6.69	6.71	6.74	6.76	6.80
70.0			7.42	7.45	7.48	7.51	7.55
75.0			8.21	8.24	8.28	8.31	8.35

Cond °C	Current at 400 V, A						
	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
20.0	7.82	7.83	7.85	7.87	7.94		
25.0	8.03	8.05	8.06	8.08	8.14	8.21	
30.0	8.32	8.34	8.36	8.37	8.41	8.48	8.58
35.0	8.67	8.71	8.73	8.74	8.78	8.83	8.92
40.0	9.10	9.16	9.18	9.19	9.23	9.27	9.35
45.0	9.61	9.70	9.73	9.74	9.77	9.81	9.88
50.0	10.21	10.32	10.36	10.38	10.40	10.44	10.50
55.0		11.03	11.09	11.11	11.14	11.18	11.23
60.0		11.84	11.92	11.94	11.98	12.01	12.06
65.0			12.85	12.88	12.92	12.96	13.00
70.0			13.89	13.93	13.97	14.01	14.06
75.0			15.03	15.08	15.14	15.18	15.23

Cond °C	Suction Mass Flow, g/s						
	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
20.0	78.30	96.40	115.50	123.50	135.50		
25.0	78.50	96.40	115.50	123.50	136.00	147.00	
30.0	78.20	95.90	115.00	123.00	135.50	146.50	158.00
35.0	77.50	95.00	114.00	122.00	135.00	146.00	157.50
40.0	76.40	93.60	112.50	120.50	133.50	144.50	156.50
45.0	74.80	91.80	110.50	118.50	131.50	143.00	155.00
50.0	72.90	89.50	108.00	116.50	129.00	141.00	153.00
55.0		86.70	105.00	113.50	126.50	138.00	150.50
60.0		83.60	102.00	110.00	123.00	135.00	147.50
65.0			97.90	106.00	119.00	131.00	144.00
70.0			93.60	101.50	115.00	127.00	140.00
75.0			88.80	96.90	110.00	122.50	136.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	24.9
Length/Width, mm	586/314
Height, mm	245
Net Weight, kg	63.1
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:	7 / 54 / 18 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
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	17.7
Locked Rotor Current, A	111
Winding Resistance, ohm	1.37
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

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