



Minimum Evaporating Temp. With:  
— 10 K Suction Superheat  
— Maximum Evaporating Temperature  
 Drive Frequency Range 35 - 80 Hz

Suction Superheat 5.0K

Drive Frequency 80 Hz

Liquid Subcooling 1.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW						
	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
20.0	20.50	25.70	32.70	36.00	41.80		
25.0	19.45	24.20	30.50	33.60	38.90	43.90	
30.0	18.35	22.70	28.50	31.20	36.00	40.70	46.00
35.0	17.30	21.30	26.50	29.00	33.40	37.60	42.40
40.0	16.20	19.90	24.60	26.90	30.80	34.70	39.00
45.0	15.00	18.45	22.80	24.80	28.40	31.80	35.80
50.0	13.80	17.00	20.90	22.80	26.00	29.10	32.70
55.0		15.50	19.10	20.80	23.70	26.40	29.60
60.0		13.95	17.25	18.80	21.40	23.80	26.70
65.0			15.35	16.75	19.05	21.20	23.80
70.0			13.40	14.65	16.70	18.65	20.90
75.0			11.35	12.50	14.35	16.05	18.00

80 Hz

ZRHV94KTR-TF7

R513A

Cond °C	Power, kW						
	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
20.0	3.97	3.86	3.69	3.60	3.46		
25.0	4.45	4.40	4.29	4.23	4.13	4.03	
30.0	4.93	4.93	4.87	4.84	4.77	4.71	4.64
35.0	5.43	5.47	5.46	5.44	5.41	5.37	5.32
40.0	5.96	6.03	6.06	6.06	6.05	6.03	6.01
45.0	6.54	6.64	6.69	6.70	6.71	6.71	6.70
50.0	7.19	7.30	7.37	7.39	7.41	7.42	7.43
55.0		8.04	8.11	8.13	8.16	8.18	8.20
60.0		8.86	8.93	8.96	8.99	9.01	9.03
65.0			9.86	9.87	9.90	9.92	9.93
70.0			10.90	10.90	10.90	10.90	10.95
75.0			12.05	12.05	12.05	12.05	12.05

Cond °C	Inverter Current at 380 V, A						
	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
20.0	7.60	7.17	6.70	6.52	6.25		
25.0	8.58	8.29	7.95	7.81	7.61	7.46	
30.0	9.47	9.30	9.07	8.98	8.84	8.73	8.64
35.0	10.30	10.24	10.11	10.05	9.96	9.89	9.84
40.0	11.12	11.15	11.11	11.08	11.03	11.00	10.97
45.0	11.97	12.08	12.11	12.10	12.09	12.08	12.08
50.0	12.90	13.08	13.16	13.17	13.18	13.19	13.21
55.0		14.18	14.30	14.33	14.36	14.38	14.41
60.0		15.43	15.58	15.62	15.66	15.69	15.71
65.0			17.05	17.09	17.13	17.16	17.18
70.0			18.75	18.78	18.82	18.83	18.84
75.0			20.72	20.75	20.76	20.76	20.75

Cond °C	Suction Mass Flow, g/s						
	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
20.0	135.50	166.00	207.00	226.00	260.00		
25.0	134.50	163.50	202.00	221.00	252.00	283.00	
30.0	133.50	161.50	198.00	215.00	245.00	274.00	307.00
35.0	132.50	159.50	194.00	210.00	239.00	266.00	297.00
40.0	131.50	157.50	190.50	206.00	233.00	259.00	288.00
45.0	130.00	155.50	187.00	202.00	227.00	252.00	280.00
50.0	127.50	153.00	183.50	197.50	222.00	245.00	271.00
55.0		150.50	179.50	193.00	216.00	238.00	263.00
60.0		146.50	175.50	188.50	210.00	231.00	255.00
65.0			170.50	183.00	204.00	224.00	247.00
70.0			164.50	177.00	197.50	217.00	238.00
75.0			156.50	169.50	189.50	208.00	229.00

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 60 Hz, m <sup>3</sup> /h	26.5
Length/Width, mm	586/314
Height, mm	245
Net Weight, kg	59.9
Stub Suction, inch	1 3/8
Stub Discharge, inch	7/8
Drive Frequency Range, Hz	35 - 80
Oil Quantity, l	1.63
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF
Sound Pressure @ 1m (HT), dBA	77
Sound Power (HT), dBA	88
Sound Conditions (HT, Temperatures:	7 / 54 / 18 °C at 80 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	I
High Side PS gauge, bar	32
Low Side PS gauge, bar	20
Low Side TS Max., °C	50
Refrigerant's GWP	631
Refrigerant's classification	A1

**COMPRESSOR ELECTRICAL DATA (380 V / 3~ / 60 Hz)**

Maximum Operating Current, A	23.5
Locked Rotor Current, A	145
Winding Resistance, ohm	0.85/0.85/0.85 (T1-T2/T2-T3/T3-T1)
Default Enclosure Class	IP 56

**ACCESSORIES INCLUDED****ACCESSORIES OPTIONAL****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>
TF7	380 V / 3~ / 60 Hz	380		Y	1.00
TF5	200-230 V / 3~ / 60 Hz	230		Y	1.66