



Minimum Evaporating Temp. With:

- 10 K Suction Superheat
- Maximum Evaporating Temperature

Drive Frequency Range 30 - 80 Hz

Suction Superheat 5.0K

Drive Frequency 40 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
20.0	8.43	10.40	12.75	13.75	15.45			
25.0	8.24	10.15	12.40	13.40	15.05			
30.0	7.92	9.76	11.95	12.90	14.45	15.85		
35.0	7.51	9.28	11.35	12.30	13.80	15.15	16.55	
40.0	7.03	8.72	10.70	11.60	13.00	14.30	15.65	
45.0	6.51	8.12	10.00	10.85	12.20	13.40	14.65	17.50
50.0	5.98	7.48	9.25	10.05	11.30	12.45	13.65	16.30
55.0	5.45	6.85	8.50	9.23	10.40	11.45	12.60	15.05
60.0	4.95	6.24	7.76	8.44	9.52	10.50	11.55	13.80
65.0	4.50	5.68	7.06	7.68	8.67	9.56	10.50	12.60
70.0		5.18	6.42	6.97	7.86	8.67	9.53	11.40
75.0			5.84	6.33	7.12	7.83	8.60	10.30

Cond °C	Power, kW							
	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0
20.0	1.66	1.68	1.70	1.70	1.70			
25.0	1.90	1.94	1.96	1.96	1.96			
30.0	2.14	2.18	2.20	2.20	2.21	2.21		
35.0	2.37	2.41	2.43	2.44	2.44	2.45	2.45	
40.0	2.60	2.64	2.66	2.67	2.68	2.68	2.69	
45.0	2.84	2.88	2.91	2.91	2.92	2.93	2.93	2.94
50.0	3.09	3.14	3.17	3.17	3.18	3.19	3.20	3.20
55.0	3.37	3.42	3.45	3.46	3.47	3.48	3.48	3.49
60.0	3.68	3.73	3.77	3.78	3.79	3.79	3.80	3.81
65.0	4.03	4.09	4.12	4.13	4.15	4.15	4.16	4.17
70.0		4.49	4.53	4.54	4.55	4.56	4.57	4.58
75.0			4.99	5.00	5.02	5.03	5.03	5.04

Cond °C	Inverter Current at 380 V, A							
	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0
20.0	9.96	9.98	9.98	9.99	10.02			
25.0	10.78	10.77	10.72	10.71	10.69			
30.0	11.43	11.41	11.34	11.30	11.26	11.23		
35.0	11.96	11.94	11.86	11.81	11.75	11.69	11.65	
40.0	12.39	12.39	12.31	12.27	12.19	12.13	12.07	
45.0	12.76	12.80	12.75	12.70	12.63	12.56	12.49	12.38
50.0	13.09	13.20	13.18	13.15	13.09	13.03	12.96	12.83
55.0	13.43	13.62	13.66	13.65	13.61	13.56	13.50	13.37
60.0	13.81	14.09	14.21	14.22	14.21	14.18	14.14	14.04
65.0	14.26	14.65	14.86	14.91	14.94	14.95	14.93	14.87
70.0		15.33	15.65	15.74	15.83	15.87	15.89	15.89
75.0			16.61	16.75	16.90	16.99	17.06	17.13

40 Hz

ZRHV81KTR-TX7

R513A

Cond °C	Suction Mass Flow, g/s							
	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0
20.0	55.60	67.20	80.60	86.50	96.00			
25.0	57.00	68.60	82.20	88.10	97.60			
30.0	57.60	69.40	83.00	89.00	98.50	107.00		
35.0	57.70	69.50	83.20	89.20	98.70	107.00	116.00	
40.0	57.20	69.20	82.90	88.80	98.30	106.50	115.50	
45.0	56.40	68.40	82.10	88.10	97.50	106.00	114.50	133.50
50.0	55.40	67.40	81.00	87.00	96.40	104.50	113.50	132.00
55.0	54.50	66.40	79.90	85.80	95.10	103.50	112.00	130.50
60.0	53.80	65.50	78.90	84.70	93.90	102.00	110.50	128.50
65.0	53.80	65.30	78.40	84.00	93.00	101.00	109.00	127.00
70.0		66.00	78.70	84.20	92.90	100.50	108.50	126.00
75.0			80.50	85.80	94.10	101.50	109.50	126.00

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 60 Hz, m <sup>3</sup> /h	22.5
Length/Width, mm	567/291
Height, mm	191
Net Weight, kg	49.4
Stub Suction, inch	7/8
Stub Discharge, inch	3/4
Drive Frequency Range, Hz	30 - 80
Oil Quantity, l	2.69
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF
Sound Pressure @ 1m (MT), dBA	73
Sound Power (MT), dBA	84
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-15 / 36 / -12 °C at 90 Hz
PED Category	I
Max. Internal Free Volume, l	7.10
High Side PS gauge, bar	32
Low Side PS gauge, bar	20
Low Side TS Max., °C	50
Low Side TS Min., °C	-35
Refrigerant's GWP	631
Refrigerant's classification	A1

40 Hz

ZRHV81KTR-TX7

R513A

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

Maximum Operating Current, A	24
Winding Resistance, ohm	0.7/0.7/0.7 (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>
TX7	380 V / 3~ / 60 Hz	380	Y		1.00