



Minimum Evaporating Temp. With:
— 10 K Suction Superheat
— Maximum Evaporating Temperature
 Drive Frequency Range 30 - 80 Hz

Suction Superheat 5.0K

Drive Frequency 50 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	10.80	13.30	16.25	17.55	19.65			
25.0	10.50	12.95	15.80	17.05	19.10			
30.0	10.10	12.45	15.20	16.40	18.35	20.10		
35.0	9.58	11.85	14.45	15.65	17.50	19.15	20.90	
40.0	8.98	11.15	13.65	14.75	16.55	18.15	19.80	
45.0	8.32	10.35	12.75	13.80	15.50	17.00	18.60	22.10
50.0	7.64	9.56	11.80	12.80	14.40	15.85	17.35	20.70
55.0	6.95	8.74	10.85	11.80	13.30	14.60	16.05	19.15
60.0	6.28	7.94	9.90	10.75	12.15	13.40	14.75	17.65
65.0	5.66	7.18	8.97	9.77	11.05	12.20	13.45	16.10
70.0		6.46	8.09	8.81	9.98	11.05	12.15	14.60
75.0			7.27	7.92	8.97	9.91	10.90	13.15

Cond °C	Power, kW							
	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0
20.0	2.09	2.13	2.15	2.15	2.15			
25.0	2.38	2.42	2.45	2.45	2.46			
30.0	2.66	2.71	2.74	2.74	2.75	2.76		
35.0	2.94	2.99	3.02	3.03	3.04	3.05	3.05	
40.0	3.23	3.28	3.32	3.33	3.34	3.35	3.35	
45.0	3.53	3.59	3.62	3.64	3.65	3.66	3.66	3.67
50.0	3.85	3.91	3.95	3.97	3.98	3.99	4.00	4.01
55.0	4.20	4.27	4.31	4.33	4.34	4.35	4.36	4.37
60.0	4.60	4.66	4.71	4.72	4.74	4.75	4.76	4.78
65.0	5.03	5.10	5.15	5.17	5.19	5.20	5.21	5.23
70.0		5.60	5.65	5.67	5.69	5.70	5.71	5.73
75.0			6.21	6.23	6.25	6.27	6.28	6.29

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	9.31	9.38	9.46	9.50	9.57			
25.0	10.17	10.21	10.23	10.24	10.27			
30.0	10.89	10.90	10.88	10.86	10.86	10.86		
35.0	11.48	11.49	11.44	11.41	11.38	11.36	11.35	
40.0	11.99	12.00	11.95	11.92	11.87	11.83	11.80	
45.0	12.44	12.49	12.44	12.41	12.36	12.31	12.26	12.20
50.0	12.87	12.96	12.95	12.93	12.87	12.82	12.77	12.69
55.0	13.31	13.47	13.51	13.49	13.46	13.42	13.37	13.28
60.0	13.80	14.04	14.14	14.15	14.14	14.12	14.08	14.00
65.0	14.36	14.71	14.89	14.93	14.95	14.96	14.94	14.89
70.0		15.50	15.79	15.86	15.93	15.97	15.98	15.98
75.0			16.86	16.98	17.11	17.19	17.24	17.30

50 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	71.30	86.00	103.00	110.50	122.00			
25.0	72.80	87.70	104.50	112.00	124.00			
30.0	73.50	88.50	105.50	113.00	125.00	135.50		
35.0	73.50	88.60	106.00	113.50	125.00	135.50	146.50	
40.0	73.00	88.20	105.50	113.00	125.00	135.50	146.50	
45.0	72.00	87.30	104.50	112.00	124.00	134.50	145.50	169.00
50.0	70.80	86.10	103.50	111.00	123.00	133.00	144.00	167.50
55.0	69.40	84.70	102.00	109.50	121.50	131.50	142.50	166.00
60.0	68.20	83.40	100.50	108.00	120.00	130.00	141.00	164.00
65.0	67.50	82.50	99.60	107.00	118.50	129.00	139.50	162.50
70.0		82.50	99.20	106.50	118.00	128.00	138.50	161.50
75.0			100.00	107.50	118.50	128.50	139.00	161.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 60 Hz, m ³ /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

50 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**

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
TX7	380 V / 3~ / 60 Hz	380	Y		1.00