



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

Suction Superheat 5.0K

Drive Frequency 60 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	13.10	16.15	19.70	21.30	23.80			
25.0	12.75	15.70	19.15	20.60	23.10			
30.0	12.25	15.05	18.40	19.85	22.20	24.20		
35.0	11.60	14.35	17.50	18.90	21.10	23.10	25.20	
40.0	10.90	13.50	16.50	17.85	20.00	21.90	23.90	
45.0	10.10	12.55	15.45	16.70	18.75	20.60	22.50	26.70
50.0	9.27	11.60	14.30	15.50	17.45	19.15	21.00	25.00
55.0	8.43	10.60	13.15	14.30	16.10	17.70	19.45	23.20
60.0	7.60	9.62	12.00	13.05	14.75	16.25	17.85	21.40
65.0	6.80	8.66	10.85	11.85	13.40	14.80	16.30	19.55
70.0		7.74	9.74	10.65	12.05	13.35	14.75	17.75
75.0			8.68	9.49	10.80	11.95	13.20	16.00

Cond °C	Power, kW							
	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0
20.0	2.53	2.58	2.60	2.61	2.62			
25.0	2.86	2.91	2.95	2.96	2.96			
30.0	3.19	3.25	3.28	3.29	3.31	3.31		
35.0	3.52	3.58	3.62	3.64	3.65	3.66	3.66	
40.0	3.86	3.93	3.97	3.99	4.00	4.01	4.02	
45.0	4.22	4.29	4.34	4.36	4.38	4.39	4.40	4.41
50.0	4.61	4.69	4.74	4.76	4.78	4.79	4.80	4.82
55.0	5.04	5.12	5.17	5.19	5.22	5.23	5.24	5.26
60.0	5.50	5.59	5.65	5.67	5.70	5.71	5.73	5.75
65.0	6.03	6.11	6.18	6.20	6.23	6.25	6.26	6.28
70.0		6.70	6.77	6.79	6.82	6.84	6.85	6.88
75.0			7.43	7.45	7.48	7.50	7.52	7.54

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	8.63	8.77	8.92	9.00	9.13			
25.0	9.54	9.63	9.72	9.76	9.84			
30.0	10.31	10.37	10.40	10.41	10.45	10.49		
35.0	10.97	11.01	11.01	11.00	11.00	11.01	11.04	
40.0	11.55	11.59	11.57	11.55	11.53	11.52	11.52	
45.0	12.08	12.14	12.12	12.10	12.07	12.04	12.02	12.02
50.0	12.60	12.70	12.70	12.68	12.64	12.61	12.58	12.54
55.0	13.15	13.29	13.33	13.32	13.29	13.26	13.23	13.18
60.0	13.74	13.96	14.05	14.06	14.05	14.03	14.00	13.95
65.0	14.42	14.73	14.89	14.92	14.95	14.95	14.93	14.90
70.0		15.64	15.89	15.95	16.02	16.04	16.06	16.06
75.0			17.08	17.18	17.29	17.36	17.41	17.46

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	86.60	104.50	125.00	133.50	147.50			
25.0	88.20	106.00	126.50	135.50	149.50			
30.0	89.00	107.00	128.00	136.50	151.00	163.50		
35.0	89.10	107.50	128.00	137.00	151.00	163.50	177.00	
40.0	88.50	107.00	127.50	136.50	151.00	163.50	176.50	
45.0	87.40	106.00	126.50	136.00	150.00	162.50	175.50	204.00
50.0	85.90	104.50	125.50	134.50	148.50	161.00	174.50	202.00
55.0	84.20	103.00	123.50	132.50	147.00	159.50	172.50	201.00
60.0	82.60	101.00	122.00	131.00	145.50	158.00	171.00	199.00
65.0	81.20	99.60	120.50	129.50	143.50	156.00	169.50	197.50
70.0		98.80	119.50	128.50	142.50	155.00	168.00	196.00
75.0			119.50	128.50	142.50	155.00	168.00	195.50

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

60 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