



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

Suction Superheat 5.0K

Drive Frequency 70 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	14.05	17.35	21.20	22.90	25.60			
25.0	13.50	16.70	20.40	22.00	24.60			
30.0	12.90	15.95	19.45	21.00	23.50	25.70		
35.0	12.25	15.10	18.45	19.95	22.30	24.40	26.70	
40.0	11.50	14.25	17.40	18.80	21.10	23.10	25.20	
45.0	10.70	13.30	16.30	17.65	19.80	21.70	23.70	28.20
50.0	9.88	12.30	15.15	16.40	18.45	20.20	22.20	26.40
55.0	9.02	11.30	13.95	15.15	17.05	18.75	20.60	24.60
60.0	8.13	10.25	12.75	13.85	15.65	17.25	18.95	22.70
65.0	7.22	9.19	11.50	12.55	14.20	15.70	17.30	20.80
70.0		8.12	10.25	11.20	12.75	14.10	15.60	18.85
75.0			8.98	9.85	11.25	12.50	13.90	16.90

Cond °C	Power, kW							
	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0
20.0	2.83	2.88	2.91	2.92	2.93			
25.0	3.13	3.19	3.22	3.23	3.25			
30.0	3.44	3.50	3.54	3.56	3.57	3.59		
35.0	3.76	3.83	3.88	3.90	3.92	3.94	3.95	
40.0	4.12	4.19	4.25	4.27	4.29	4.31	4.32	
45.0	4.50	4.58	4.64	4.66	4.69	4.71	4.73	4.76
50.0	4.91	5.00	5.06	5.08	5.11	5.14	5.16	5.20
55.0	5.36	5.45	5.52	5.55	5.58	5.61	5.63	5.68
60.0	5.86	5.95	6.03	6.05	6.09	6.12	6.14	6.19
65.0	6.41	6.50	6.58	6.61	6.65	6.68	6.70	6.76
70.0		7.11	7.19	7.22	7.26	7.29	7.31	7.37
75.0			7.85	7.88	7.92	7.95	7.98	8.04

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	8.37	8.62	8.92	9.05	9.27			
25.0	9.05	9.24	9.46	9.55	9.71			
30.0	9.66	9.80	9.95	10.02	10.13	10.23		
35.0	10.22	10.32	10.43	10.47	10.54	10.60	10.68	
40.0	10.74	10.83	10.90	10.93	10.97	11.00	11.04	
45.0	11.26	11.35	11.41	11.42	11.44	11.45	11.46	11.50
50.0	11.80	11.90	11.95	11.97	11.97	11.97	11.97	11.95
55.0	12.37	12.50	12.57	12.59	12.59	12.59	12.57	12.53
60.0	13.00	13.18	13.28	13.31	13.32	13.32	13.30	13.24
65.0	13.71	13.96	14.11	14.15	14.18	14.19	14.18	14.12
70.0		14.86	15.07	15.13	15.19	15.22	15.22	15.19
75.0			16.19	16.28	16.38	16.43	16.46	16.46

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	92.70	112.00	134.00	144.00	159.00			
25.0	93.50	113.00	135.00	144.50	159.50			
30.0	93.80	113.00	135.00	144.50	160.00	173.00		
35.0	93.80	113.00	135.00	144.50	159.50	173.00	187.00	
40.0	93.50	113.00	134.50	144.00	159.00	172.50	186.50	
45.0	92.70	112.00	134.00	143.50	158.50	171.50	185.50	215.00
50.0	91.60	111.00	132.50	142.00	157.00	170.50	184.50	214.00
55.0	90.10	109.50	131.50	141.00	156.00	169.00	183.00	213.00
60.0	88.30	107.50	129.50	139.00	154.00	167.50	181.50	211.00
65.0	86.20	105.50	128.00	137.50	152.50	165.50	179.50	210.00
70.0		103.50	125.50	135.50	150.50	164.00	178.00	208.00
75.0			123.50	133.50	148.50	162.00	176.50	207.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 60 Hz, m ³ /h	20.5
Length/Width, mm	567/291
Height, mm	191
Net Weight, kg	49
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, 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

70 Hz

ZRHV72KTR-TX7

R513A

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

Maximum Operating Current, A	22
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