



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	15.35	18.95	23.10	24.90	27.80			
25.0	14.90	18.35	22.40	24.10	26.90			
30.0	14.30	17.65	21.50	23.20	25.90	28.30		
35.0	13.55	16.75	20.50	22.10	24.70	27.00	29.40	
40.0	12.75	15.75	19.30	20.90	23.30	25.60	27.90	
45.0	11.85	14.70	18.05	19.55	21.90	24.00	26.30	31.10
50.0	10.85	13.60	16.75	18.15	20.40	22.40	24.50	29.20
55.0	9.88	12.45	15.40	16.75	18.85	20.70	22.80	27.10
60.0	8.89	11.25	14.05	15.30	17.30	19.05	20.90	25.10
65.0	7.93	10.10	12.70	13.85	15.70	17.35	19.10	23.00
70.0		9.00	11.35	12.40	14.10	15.65	17.30	20.90
75.0			10.05	11.05	12.60	13.95	15.45	18.75

Cond °C	Power, kW							
	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0
20.0	3.01	3.07	3.10	3.11	3.12			
25.0	3.38	3.44	3.48	3.50	3.51			
30.0	3.75	3.82	3.87	3.88	3.90	3.91		
35.0	4.12	4.20	4.26	4.27	4.29	4.30	4.31	
40.0	4.52	4.60	4.66	4.68	4.70	4.72	4.73	
45.0	4.94	5.03	5.09	5.11	5.14	5.16	5.17	5.19
50.0	5.39	5.49	5.56	5.58	5.61	5.63	5.64	5.67
55.0	5.89	5.99	6.06	6.09	6.12	6.14	6.16	6.18
60.0	6.44	6.54	6.62	6.64	6.68	6.70	6.72	6.75
65.0	7.04	7.15	7.23	7.26	7.29	7.32	7.34	7.37
70.0		7.82	7.91	7.94	7.98	8.00	8.02	8.06
75.0			8.66	8.69	8.73	8.76	8.78	8.82

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	8.08	8.29	8.53	8.64	8.84			
25.0	9.04	9.19	9.35	9.42	9.55			
30.0	9.87	9.97	10.06	10.11	10.19	10.27		
35.0	10.59	10.66	10.71	10.73	10.77	10.82	10.89	
40.0	11.24	11.30	11.32	11.32	11.34	11.35	11.39	
45.0	11.85	11.92	11.93	11.93	11.92	11.92	11.92	11.99
50.0	12.46	12.56	12.57	12.56	12.55	12.53	12.53	12.55
55.0	13.10	13.24	13.28	13.28	13.26	13.24	13.23	13.22
60.0	13.80	14.00	14.08	14.09	14.09	14.08	14.07	14.05
65.0	14.59	14.87	15.02	15.05	15.07	15.07	15.07	15.06
70.0		15.89	16.12	16.17	16.23	16.25	16.27	16.28
75.0			17.41	17.50	17.60	17.66	17.70	17.76

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	101.50	122.50	146.00	156.50	172.50			
25.0	103.00	124.00	148.00	158.50	175.00			
30.0	104.00	125.50	149.50	159.50	176.00	190.50		
35.0	104.00	125.50	149.50	160.00	176.50	191.00	206.00	
40.0	103.50	125.00	149.50	160.00	176.50	191.00	206.00	
45.0	102.50	124.00	148.50	159.00	175.50	190.00	205.00	238.00
50.0	100.50	122.50	147.00	157.50	174.00	188.50	204.00	237.00
55.0	98.80	120.50	145.00	155.50	172.00	187.00	202.00	235.00
60.0	96.60	118.50	143.00	153.50	170.50	185.00	200.00	233.00
65.0	94.70	116.50	141.00	151.50	168.50	183.00	198.50	231.00
70.0		115.00	139.50	150.00	167.00	181.50	197.00	230.00
75.0			139.00	149.50	166.00	181.00	196.50	230.00

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

70 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