



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	12.05	14.90	18.20	19.65	22.00			
25.0	11.60	14.30	17.45	18.85	21.10			
30.0	11.05	13.65	16.70	18.00	20.20	22.10		
35.0	10.50	12.95	15.85	17.10	19.15	21.00	22.90	
40.0	9.84	12.20	14.90	16.15	18.05	19.80	21.70	
45.0	9.16	11.40	13.95	15.10	16.95	18.60	20.40	24.20
50.0	8.46	10.55	13.00	14.05	15.80	17.35	19.00	22.70
55.0	7.72	9.68	11.95	13.00	14.60	16.10	17.65	21.10
60.0	6.98	8.80	10.95	11.90	13.40	14.80	16.25	19.45
65.0	6.22	7.91	9.89	10.75	12.20	13.45	14.85	17.85
70.0		7.01	8.84	9.65	10.95	12.15	13.40	16.15
75.0			7.77	8.51	9.71	10.80	11.95	14.50

Cond °C	Power, kW							
	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0
20.0	2.39	2.43	2.46	2.46	2.47			
25.0	2.65	2.69	2.72	2.73	2.74			
30.0	2.91	2.96	3.00	3.01	3.03	3.04		
35.0	3.20	3.25	3.29	3.30	3.32	3.33	3.35	
40.0	3.50	3.56	3.60	3.62	3.64	3.65	3.67	
45.0	3.83	3.89	3.94	3.95	3.97	3.99	4.01	4.04
50.0	4.18	4.25	4.30	4.32	4.34	4.36	4.38	4.42
55.0	4.58	4.64	4.70	4.72	4.74	4.76	4.78	4.82
60.0	5.01	5.08	5.13	5.15	5.18	5.20	5.22	5.26
65.0	5.49	5.56	5.62	5.64	5.66	5.68	5.71	5.75
70.0		6.09	6.15	6.17	6.19	6.22	6.24	6.28
75.0			6.73	6.75	6.78	6.80	6.82	6.87

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	9.00	9.20	9.45	9.56	9.74			
25.0	9.62	9.77	9.94	10.02	10.15			
30.0	10.16	10.27	10.39	10.44	10.52	10.61		
35.0	10.65	10.73	10.80	10.84	10.89	10.94	10.99	
40.0	11.09	11.16	11.22	11.23	11.26	11.29	11.31	
45.0	11.52	11.60	11.65	11.66	11.67	11.68	11.68	11.70
50.0	11.96	12.06	12.12	12.13	12.13	12.13	12.12	12.10
55.0	12.43	12.57	12.65	12.67	12.67	12.67	12.66	12.62
60.0	12.95	13.15	13.27	13.30	13.32	13.32	13.31	13.27
65.0	13.54	13.82	13.99	14.04	14.09	14.10	14.11	14.07
70.0		14.60	14.85	14.92	15.00	15.04	15.06	15.05
75.0			15.86	15.96	16.08	16.15	16.20	16.24

60 Hz

ZRHV72KTR-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	79.60	96.20	115.00	123.50	136.50			
25.0	80.20	96.80	116.00	124.00	137.00			
30.0	80.50	97.10	116.00	124.00	137.00	148.50		
35.0	80.40	97.00	116.00	124.00	137.00	148.50	160.50	
40.0	80.00	96.60	115.50	123.50	136.50	148.00	160.00	
45.0	79.30	95.90	114.50	123.00	136.00	147.00	159.00	185.00
50.0	78.40	95.00	113.50	122.00	134.50	146.00	158.00	184.00
55.0	77.20	93.80	112.50	120.50	133.50	145.00	157.00	182.50
60.0	75.80	92.40	111.00	119.50	132.00	143.50	155.50	181.00
65.0	74.30	91.00	110.00	118.00	131.00	142.00	154.00	179.50
70.0		89.50	108.50	116.50	129.50	141.00	152.50	178.50
75.0			107.00	115.50	128.50	139.50	151.50	177.50

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

60 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