



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

Suction Superheat 5.0K

Drive Frequency 80 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	15.95	19.75	24.10	26.00	29.10			
25.0	15.35	19.00	23.20	25.00	27.90			
30.0	14.70	18.15	22.10	23.90	26.70	29.20		
35.0	13.90	17.20	21.00	22.70	25.40	27.80	30.30	
40.0	13.10	16.20	19.80	21.40	24.00	26.20	28.70	
45.0	12.20	15.15	18.55	20.10	22.50	24.70	27.00	32.00
50.0	11.25	14.00	17.25	18.70	21.00	23.00	25.20	30.00
55.0	10.25	12.85	15.90	17.25	19.40	21.30	23.40	27.90
60.0	9.23	11.65	14.50	15.75	17.80	19.60	21.50	25.80
65.0	8.17	10.40	13.05	14.25	16.10	17.80	19.65	23.60
70.0		9.16	11.60	12.70	14.45	16.00	17.70	21.40
75.0			10.10	11.10	12.70	14.15	15.70	19.15

Cond °C	Power, kW							
	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0
20.0	3.34	3.40	3.44	3.45	3.46			
25.0	3.67	3.74	3.79	3.80	3.82			
30.0	4.02	4.10	4.15	4.17	4.19	4.21		
35.0	4.39	4.48	4.54	4.56	4.59	4.60	4.62	
40.0	4.79	4.88	4.95	4.98	5.01	5.03	5.05	
45.0	5.22	5.32	5.40	5.43	5.46	5.49	5.51	5.56
50.0	5.69	5.80	5.88	5.91	5.95	5.98	6.01	6.06
55.0	6.20	6.32	6.41	6.44	6.48	6.51	6.54	6.60
60.0	6.76	6.88	6.98	7.01	7.06	7.10	7.13	7.19
65.0	7.37	7.50	7.61	7.64	7.69	7.73	7.76	7.83
70.0		8.18	8.29	8.32	8.38	8.42	8.45	8.53
75.0			9.03	9.07	9.12	9.17	9.21	9.28

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	8.02	8.34	8.72	8.88	9.15			
25.0	8.75	9.00	9.29	9.41	9.61			
30.0	9.42	9.61	9.82	9.91	10.06	10.19		
35.0	10.04	10.19	10.34	10.41	10.51	10.60	10.70	
40.0	10.64	10.76	10.87	10.92	10.98	11.04	11.10	
45.0	11.24	11.35	11.44	11.47	11.51	11.54	11.57	11.64
50.0	11.86	11.98	12.06	12.08	12.10	12.11	12.12	12.14
55.0	12.52	12.67	12.75	12.77	12.79	12.79	12.78	12.76
60.0	13.25	13.44	13.54	13.57	13.59	13.59	13.58	13.53
65.0	14.07	14.31	14.46	14.50	14.53	14.53	14.53	14.47
70.0		15.32	15.52	15.57	15.63	15.65	15.65	15.61
75.0			16.75	16.82	16.91	16.95	16.98	16.96

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	105.50	127.50	152.50	163.50	180.50			
25.0	106.50	128.50	153.50	164.00	181.50			
30.0	107.00	129.00	154.00	164.50	181.50	196.50		
35.0	107.00	129.00	153.50	164.50	181.50	196.50	212.00	
40.0	106.50	128.50	153.00	164.00	181.00	196.00	212.00	
45.0	105.50	127.50	152.50	163.00	180.00	195.00	211.00	245.00
50.0	104.00	126.00	151.00	162.00	179.00	194.00	210.00	243.00
55.0	102.50	124.50	149.50	160.00	177.00	192.00	208.00	242.00
60.0	100.50	122.50	147.50	158.00	175.00	190.50	206.00	240.00
65.0	97.60	120.00	145.00	156.00	173.00	188.00	204.00	238.00
70.0		117.00	142.00	153.00	170.50	186.00	202.00	236.00
75.0			139.50	150.50	168.00	183.50	199.50	235.00

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 60 Hz, m <sup>3</sup> /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

80 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**

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