



Minimum Evaporating Temp. With:

- 10 K Suction Superheat
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW														
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0	
17.0	2.88	3.42	4.02	4.71	5.48										
20.0	2.87	3.42	4.04	4.74	5.52	6.39									
25.0	2.82	3.39	4.04	4.75	5.55	6.44	7.41								
30.0	2.76	3.35	4.00	4.73	5.54	6.44	7.42	8.49	8.95	9.66					
35.0	2.68	3.27	3.94	4.68	5.49	6.39	7.38	8.46	8.91	9.63	10.25	10.90	12.25		
40.0	2.57	3.17	3.84	4.58	5.40	6.30	7.28	8.36	8.81	9.52	10.15	10.80	12.15	13.60	
45.0		3.05	3.71	4.45	5.27	6.16	7.14	8.20	8.65	9.36	9.97	10.60	11.95	13.40	
50.0		2.90	3.56	4.29	5.09	5.97	6.94	7.99	8.43	9.13	9.73	10.35	11.70	13.10	
55.0			3.37	4.09	4.87	5.74	6.69	7.72	8.15	8.83	9.43	10.05	11.35	12.75	
60.0				3.85	4.61	5.46	6.38	7.38	7.80	8.47	9.04	9.64	10.90	12.30	
65.0					4.31	5.12	6.01	6.98	7.39	8.03	8.58	9.16			
68.0					4.13	4.92	5.78	6.73	7.13	7.75					

50 Hz

ZHI08K1P-TFM

R410A Dew Point

Cond °C	Power, kW													
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
17.0	1.13	1.16	1.17	1.18	1.18									
20.0	1.21	1.24	1.26	1.27	1.28	1.27								
25.0	1.35	1.38	1.41	1.42	1.44	1.43	1.42							
30.0	1.51	1.54	1.58	1.60	1.61	1.62	1.60	1.59	1.58	1.56				
35.0	1.69	1.74	1.77	1.80	1.82	1.82	1.82	1.80	1.79	1.78	1.76	1.74	1.68	
40.0	1.90	1.95	1.99	2.02	2.04	2.05	2.05	2.04	2.03	2.01	2.00	1.98	1.92	1.86
45.0		2.20	2.24	2.28	2.30	2.31	2.32	2.31	2.30	2.29	2.27	2.25	2.20	2.14
50.0		2.48	2.53	2.57	2.60	2.62	2.62	2.61	2.61	2.59	2.58	2.56	2.51	2.45
55.0			2.86	2.91	2.94	2.96	2.97	2.97	2.96	2.95	2.94	2.92	2.87	2.81
60.0				3.29	3.33	3.35	3.37	3.37	3.36	3.35	3.34	3.32	3.28	3.22
65.0					3.78	3.81	3.83	3.83	3.83	3.82	3.80	3.79		
68.0					4.05	4.08	4.09	4.10	4.09	4.08				

Cond °C	Current at 400 V, A													
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
17.0	2.65	2.68	2.69	2.70	2.71									
20.0	2.78	2.81	2.83	2.84	2.84	2.84								
25.0	2.98	3.02	3.04	3.06	3.07	3.07	3.06							
30.0	3.19	3.23	3.26	3.29	3.30	3.31	3.30	3.28	3.27	3.24				
35.0	3.41	3.46	3.50	3.53	3.55	3.56	3.55	3.53	3.52	3.50	3.48	3.46	3.40	
40.0	3.65	3.72	3.76	3.80	3.83	3.84	3.84	3.82	3.81	3.79	3.77	3.75	3.68	3.61
45.0		4.02	4.07	4.11	4.14	4.16	4.16	4.15	4.14	4.12	4.10	4.08	4.02	3.94
50.0		4.36	4.43	4.48	4.52	4.53	4.54	4.53	4.52	4.51	4.49	4.46	4.40	4.32
55.0			4.85	4.91	4.95	4.98	4.99	4.99	4.98	4.96	4.95	4.92	4.86	4.78
60.0				5.43	5.48	5.51	5.53	5.52	5.52	5.50	5.48	5.46	5.40	5.33
65.0					6.12	6.15	6.17	6.17	6.17	6.15	6.13	6.11		
68.0					6.50	6.54	6.56	6.56	6.55	6.54				

Cond °C	Suction Mass Flow, g/s													
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
17.0	12.55	15.05	17.85	21.10	24.80									
20.0	12.60	15.15	18.10	21.50	25.30	29.60								
25.0	12.65	15.30	18.40	21.90	25.90	30.30	35.40							
30.0	12.55	15.35	18.55	22.20	26.30	30.90	36.10	41.90	44.40	48.40				
35.0	12.35	15.25	18.55	22.30	26.50	31.20	36.60	42.50	45.10	49.20	52.90	56.70	65.10	
40.0	12.10	15.05	18.40	22.20	26.50	31.40	36.80	42.90	45.50	49.70	53.50	57.40	66.00	75.60
45.0		14.70	18.15	22.00	26.40	31.30	36.80	43.00	45.70	50.00	53.80	57.80	66.50	76.40
50.0		14.25	17.70	21.60	26.00	31.00	36.60	42.90	45.60	49.90	53.80	57.80	66.70	76.80
55.0			17.15	21.10	25.50	30.50	36.10	42.40	45.20	49.50	53.40	57.50	66.60	76.80
60.0				20.30	24.70	29.70	35.30	41.70	44.40	48.80	52.80	56.90	66.00	76.40
65.0					23.70	28.70	34.30	40.60	43.40	47.80	51.70	55.90		
68.0					23.10	28.10	33.60	40.00	42.70	47.10				

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	5.13
Length/Width, mm	242/242
Height, mm	418
Net Weight, kg	31
Stub Suction, inch	7/8
Stub Discharge, inch	1/2
Oil Quantity, l	1.25
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF
Base mounting (hole dia), mm	190 x 190 (8.5)
Sound Pressure @ 1m (HT), dBA	63
Sound Power (HT), dBA	74
Sound Conditions (HT, Temperatures:	-7 / 50 / 3 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	1
Max. Internal Free Volume, l	3.90
High Side PS gauge, bar	46
Low Side PS gauge, bar	28
Low Side TS Max., °C	50
Refrigerant's GWP	2088
Refrigerant's classification	A1

50 Hz

ZHI08K1P-TFM

R410A Dew Point

COMPRESSOR ELECTRICAL DATA (380-420 V / 3~ / 50 Hz)

Maximum Operating Current, A	6.5
Locked Rotor Current, A	43
Winding Resistance, ohm	4.17
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

ACCESSORIES OPTIONAL

Crankcase Heater	40 W External
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MOTOR OPTIONS

<i>Motor Code</i>	<i>Power Supply</i>	<i>Nominal Voltage, V</i>	<i>Start Connection</i>	<i>DOL Connection</i>	<i>Amps Factor</i>
TFM	380-420 V / 3~ / 50 Hz	400		Y	1.00