



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	1.58	1.98	2.44	2.99	3.63									
20.0	1.56	1.96	2.44	2.98	3.62	4.34								
25.0	1.52	1.94	2.41	2.96	3.58	4.30	5.11							
30.0	1.48	1.90	2.38	2.92	3.53	4.23	5.03	5.93	6.33	6.95				
35.0	1.44	1.86	2.33	2.87	3.47	4.15	4.93	5.80	6.19	6.79	7.33	7.90	9.14	
40.0	1.40	1.82	2.28	2.80	3.39	4.06	4.81	5.66	6.02	6.61	7.13	7.68	8.88	10.20
45.0		1.76	2.22	2.73	3.30	3.94	4.66	5.48	5.83	6.39	6.89	7.42	8.56	9.85
50.0		1.70	2.15	2.65	3.20	3.81	4.50	5.28	5.62	6.16	6.64	7.14	8.24	9.46
55.0			2.08	2.56	3.08	3.67	4.33	5.07	5.39	5.90	6.36	6.83	7.88	9.04
60.0				2.46	2.96	3.52	4.14	4.84	5.14	5.62	6.05	6.50	7.49	8.59
65.0					2.82	3.35	3.93	4.58	4.86	5.31	5.71	6.13		
68.0					2.74	3.25	3.80	4.43	4.70	5.13				

50 Hz

ZHI05K1P-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	0.76	0.76	0.76	0.75	0.74									
20.0	0.82	0.83	0.82	0.82	0.80	0.79								
25.0	0.92	0.94	0.94	0.94	0.92	0.91	0.90							
30.0	1.03	1.06	1.07	1.06	1.06	1.04	1.02	1.02	1.01	1.02				
35.0	1.14	1.19	1.21	1.22	1.20	1.19	1.17	1.15	1.14	1.14	1.14	1.14	1.16	
40.0	1.27	1.33	1.36	1.38	1.38	1.36	1.34	1.32	1.30	1.30	1.29	1.28	1.29	1.32
45.0		1.48	1.54	1.56	1.56	1.55	1.53	1.50	1.50	1.48	1.47	1.46	1.46	1.46
50.0		1.66	1.72	1.76	1.77	1.76	1.75	1.72	1.71	1.70	1.68	1.67	1.65	1.64
55.0			1.93	1.98	2.01	2.01	2.00	1.98	1.96	1.94	1.93	1.92	1.89	1.87
60.0				2.23	2.27	2.29	2.28	2.26	2.25	2.23	2.22	2.20	2.17	2.14
65.0					2.58	2.61	2.61	2.60	2.59	2.57	2.55	2.53		
68.0					2.75	2.79	2.80	2.79	2.78	2.76				

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	2.95	2.96	2.96	2.96	2.95									
20.0	2.99	3.00	3.01	3.00	3.00	2.99								
25.0	3.04	3.06	3.07	3.07	3.07	3.06	3.05							
30.0	3.10	3.12	3.13	3.14	3.14	3.13	3.12	3.10	3.10	3.09				
35.0	3.17	3.19	3.21	3.22	3.22	3.21	3.20	3.19	3.18	3.17	3.16	3.15	3.13	
40.0	3.26	3.29	3.31	3.32	3.33	3.32	3.31	3.29	3.29	3.27	3.26	3.25	3.23	3.20
45.0		3.43	3.45	3.46	3.47	3.46	3.45	3.43	3.42	3.41	3.40	3.39	3.36	3.34
50.0		3.60	3.63	3.65	3.65	3.64	3.63	3.62	3.61	3.59	3.58	3.57	3.54	3.51
55.0			3.87	3.89	3.90	3.89	3.88	3.86	3.85	3.84	3.82	3.81	3.78	3.74
60.0				4.21	4.22	4.21	4.20	4.18	4.17	4.15	4.14	4.12	4.09	4.05
65.0					4.63	4.63	4.61	4.59	4.58	4.56	4.54	4.52		
68.0					4.89	4.89	4.87	4.85	4.83	4.81				

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	6.84	8.72	10.95	13.65	16.85									
20.0	6.81	8.73	11.00	13.70	16.95	20.80								
25.0	6.74	8.71	11.00	13.75	17.00	20.80	25.30							
30.0	6.64	8.65	11.00	13.75	16.95	20.70	25.20	30.50	32.80	36.70				
35.0	6.51	8.56	10.90	13.65	16.85	20.60	25.00	30.20	32.60	36.40	39.80	43.60	52.10	
40.0	6.37	8.44	10.80	13.50	16.70	20.40	24.80	29.90	32.20	35.90	39.30	43.00	51.40	61.40
45.0		8.29	10.65	13.35	16.50	20.10	24.40	29.40	31.70	35.40	38.70	42.40	50.60	60.50
50.0		8.13	10.45	13.15	16.20	19.80	24.00	28.90	31.10	34.70	38.00	41.50	49.70	59.40
55.0			10.25	12.85	15.90	19.35	23.40	28.20	30.40	33.90	37.10	40.60	48.60	58.10
60.0				12.60	15.50	18.90	22.80	27.50	29.60	33.00	36.10	39.50	47.30	56.70
65.0					15.10	18.35	22.20	26.60	28.60	31.90	34.90	38.20		
68.0					14.85	18.05	21.80	26.20	28.10	31.40				

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	3.36
Length/Width, mm	227/194
Height, mm	388
Net Weight, kg	21.3
Gross Weight, kg	22
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	0.74
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	59
Sound Power (HT), dBA	70
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	2.30
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

ZHI05K1P-TFM

R410A Dew Point

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

Maximum Operating Current, A	5
Locked Rotor Current, A	37
Winding Resistance, ohm	4.64/4.64/6.45 (T1-T2/T2-T3/T3-T1)
Default Enclosure Class	IP 21 (IEC 34)

### **ACCESSORIES INCLUDED**

### **ACCESSORIES OPTIONAL**

Crankcase Heater	40 W External
------------------	---------------

### **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>
TFM	380-420 V / 3~ / 50 Hz	400		Y	1.00