



Minimum Evaporating Temp. With:

- 10 K Suction Superheat
- Maximum Evaporating Temperature

Suction Superheat 11.1K

Liquid Subcooling 8.3K

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	1.99	2.46	3.01	3.65									
20.0	1.57	1.98	2.45	3.01	3.64	4.38								
25.0	1.54	1.96	2.43	2.98	3.61	4.33	5.16							
30.0	1.50	1.92	2.40	2.94	3.56	4.27	5.07	5.99	6.38	7.02				
35.0	1.46	1.88	2.35	2.89	3.50	4.19	4.97	5.86	6.24	6.86	7.40	7.98	9.24	
40.0	1.40	1.83	2.30	2.83	3.42	4.09	4.85	5.71	6.08	6.67	7.20	7.76	8.97	10.35
45.0		1.78	2.24	2.76	3.33	3.98	4.72	5.54	5.90	6.47	6.98	7.51	8.68	9.99
50.0		1.72	2.18	2.68	3.24	3.86	4.56	5.36	5.70	6.25	6.73	7.25	8.37	9.62
55.0			2.11	2.59	3.13	3.73	4.40	5.16	5.48	6.01	6.47	6.96	8.03	9.23
60.0				2.50	3.02	3.59	4.22	4.94	5.25	5.75	6.19	6.65	7.67	8.81
65.0					2.90	3.43	4.04	4.71	5.01	5.47	5.89	6.33		
68.0					2.82	3.34	3.92	4.57	4.85	5.30				

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	0.74	0.75	0.74	0.74	0.73									
20.0	0.80	0.81	0.81	0.80	0.79	0.78								
25.0	0.90	0.92	0.92	0.92	0.90	0.89	0.88							
30.0	1.01	1.03	1.04	1.04	1.03	1.02	1.01	1.00	1.00	1.00				
35.0	1.12	1.16	1.18	1.18	1.18	1.16	1.14	1.13	1.12	1.12	1.12	1.13	1.16	
40.0	1.24	1.30	1.32	1.34	1.34	1.32	1.31	1.29	1.28	1.28	1.27	1.27	1.28	1.30
45.0		1.44	1.49	1.52	1.52	1.51	1.50	1.47	1.46	1.45	1.44	1.44	1.43	1.44
50.0		1.60	1.66	1.70	1.72	1.72	1.70	1.68	1.68	1.66	1.64	1.64	1.62	1.62
55.0			1.86	1.92	1.94	1.95	1.94	1.92	1.92	1.90	1.88	1.88	1.85	1.84
60.0				2.15	2.19	2.21	2.21	2.20	2.19	2.17	2.16	2.14	2.12	2.09
65.0					2.47	2.50	2.51	2.50	2.50	2.48	2.47	2.45		
68.0					2.64	2.69	2.71	2.70	2.70	2.69				

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	2.90	2.91	2.91	2.91	2.91									
20.0	2.93	2.94	2.95	2.95	2.95	2.94								
25.0	2.98	3.00	3.01	3.01	3.01	3.01	3.00							
30.0	3.03	3.05	3.07	3.07	3.07	3.07	3.06	3.06	3.05	3.05				
35.0	3.09	3.12	3.13	3.14	3.15	3.15	3.14	3.13	3.13	3.12	3.11	3.11	3.10	
40.0	3.17	3.20	3.22	3.24	3.24	3.24	3.24	3.23	3.22	3.22	3.21	3.20	3.19	3.18
45.0		3.32	3.35	3.36	3.37	3.37	3.37	3.36	3.35	3.34	3.34	3.33	3.31	3.30
50.0		3.48	3.51	3.53	3.55	3.55	3.54	3.53	3.53	3.52	3.51	3.50	3.48	3.46
55.0			3.73	3.76	3.77	3.78	3.77	3.76	3.76	3.75	3.74	3.73	3.70	3.68
60.0				4.05	4.06	4.07	4.07	4.06	4.05	4.04	4.03	4.02	3.99	3.96
65.0					4.43	4.44	4.44	4.43	4.42	4.41	4.40	4.38		
68.0					4.69	4.70	4.70	4.69	4.68	4.67				

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	6.81	8.68	10.90	13.60	16.75									
20.0	6.78	8.69	10.95	13.65	16.85	20.60								
25.0	6.71	8.67	10.95	13.70	16.90	20.70	25.10							
30.0	6.61	8.61	10.95	13.65	16.85	20.60	25.10	30.30	32.60	36.40				
35.0	6.49	8.52	10.85	13.60	16.75	20.50	24.90	30.00	32.30	36.10	39.50	43.20	51.70	
40.0	6.35	8.40	10.75	13.45	16.60	20.30	24.60	29.70	32.00	35.70	39.00	42.70	51.00	60.90
45.0		8.26	10.60	13.30	16.40	20.00	24.30	29.20	31.50	35.10	38.40	42.00	50.20	60.00
50.0		8.10	10.40	13.05	16.10	19.65	23.80	28.70	30.90	34.40	37.70	41.20	49.30	58.90
55.0			10.20	12.80	15.80	19.25	23.30	28.00	30.20	33.60	36.80	40.30	48.20	57.60
60.0				12.55	15.45	18.80	22.70	27.30	29.40	32.70	35.80	39.20	46.90	56.20
65.0					15.00	18.25	22.00	26.50	28.50	31.70	34.70	38.00		
68.0					14.75	17.90	21.60	25.90	27.90	31.00				

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /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
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MOTOR OPTIONS

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