



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	5.24	6.26	7.46	8.87	10.50									
20.0	5.18	6.21	7.42	8.82	10.45	12.30								
25.0	5.08	6.12	7.32	8.71	10.30	12.10	14.15							
30.0	4.96	6.00	7.19	8.57	10.15	11.90	13.90	16.15	17.10	18.60				
35.0	4.82	5.86	7.04	8.39	9.92	11.65	13.60	15.75	16.70	18.15	19.45	20.80	23.80	
40.0	4.66	5.70	6.86	8.19	9.68	11.35	13.25	15.30	16.20	17.65	18.90	20.20	23.10	26.20
45.0		5.52	6.66	7.95	9.40	11.00	12.85	14.85	15.70	17.10	18.30	19.55	22.30	25.30
50.0		5.32	6.44	7.69	9.09	10.65	12.40	14.30	15.15	16.45	17.60	18.85	21.40	24.30
55.0			6.19	7.40	8.74	10.25	11.90	13.75	14.55	15.80	16.90	18.05	20.50	23.30
60.0				7.09	8.37	9.80	11.40	13.15	13.90	15.05	16.10	17.20	19.55	22.20
65.0					7.97	9.32	10.80	12.45	13.20	14.30	15.30	16.30		
68.0					7.72	9.02	10.45	12.05	12.75	13.80				

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	1.83	1.86	1.86	1.84	1.80									
20.0	1.96	2.00	2.01	2.00	1.96	1.92								
25.0	2.20	2.25	2.27	2.27	2.25	2.21	2.16							
30.0	2.45	2.52	2.56	2.57	2.56	2.52	2.48	2.42	2.40	2.36				
35.0	2.72	2.81	2.87	2.89	2.89	2.87	2.83	2.78	2.75	2.71	2.68	2.65	2.58	
40.0	3.02	3.14	3.21	3.26	3.27	3.26	3.22	3.17	3.15	3.11	3.08	3.04	2.97	2.89
45.0		3.50	3.60	3.66	3.69	3.69	3.67	3.62	3.60	3.56	3.53	3.49	3.41	3.33
50.0		3.90	4.03	4.11	4.16	4.17	4.16	4.13	4.11	4.07	4.04	4.00	3.92	3.84
55.0			4.51	4.62	4.69	4.72	4.72	4.70	4.68	4.65	4.62	4.59	4.51	4.42
60.0				5.19	5.28	5.33	5.35	5.34	5.33	5.30	5.28	5.24	5.17	5.08
65.0					5.94	6.02	6.06	6.06	6.05	6.03	6.01	5.98		
68.0					6.38	6.47	6.52	6.53	6.53	6.52				

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	4.30	4.32	4.32	4.30	4.27									
20.0	4.44	4.48	4.48	4.47	4.44	4.40								
25.0	4.69	4.75	4.77	4.77	4.74	4.70	4.65							
30.0	4.96	5.04	5.09	5.10	5.08	5.04	4.99	4.93	4.91	4.87				
35.0	5.26	5.37	5.44	5.47	5.47	5.44	5.39	5.33	5.30	5.26	5.22	5.19	5.12	
40.0	5.61	5.76	5.86	5.91	5.93	5.91	5.87	5.80	5.77	5.73	5.69	5.64	5.56	5.48
45.0		6.20	6.33	6.42	6.45	6.45	6.42	6.36	6.33	6.29	6.24	6.19	6.10	6.00
50.0		6.72	6.89	7.00	7.07	7.09	7.07	7.02	6.99	6.95	6.90	6.85	6.75	6.64
55.0			7.54	7.69	7.78	7.83	7.83	7.79	7.77	7.73	7.68	7.63	7.53	7.40
60.0				8.48	8.61	8.68	8.70	8.69	8.67	8.63	8.59	8.55	8.44	8.31
65.0					9.55	9.66	9.71	9.72	9.71	9.68	9.65	9.61		
68.0					10.19	10.32	10.39	10.41	10.40	10.38				

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	22.50	27.20	33.00	39.80	47.90										
20.0	22.40	27.20	33.00	39.90	48.10	57.60									
25.0	22.20	27.20	33.00	40.00	48.10	57.70	68.80								
30.0	22.00	27.00	32.90	39.90	48.10	57.60	68.60	81.50	87.20	96.40					
35.0	21.70	26.80	32.70	39.70	47.80	57.20	68.20	81.00	86.60	95.70	104.00	113.00	133.00		
40.0	21.30	26.40	32.30	39.30	47.30	56.70	67.60	80.10	85.70	94.80	103.00	111.50	131.50	154.50	
45.0		25.90	31.90	38.70	46.70	55.90	66.60	79.10	84.60	93.50	101.50	110.50	130.00	153.00	
50.0		25.40	31.30	38.10	45.90	55.00	65.50	77.70	83.10	91.90	99.80	108.50	128.00	150.50	
55.0			30.50	37.20	44.90	53.80	64.10	76.10	81.40	90.00	97.80	106.00	125.50	148.00	
60.0				36.30	43.80	52.40	62.50	74.10	79.30	87.70	95.30	103.50	122.50	144.50	
65.0					42.40	50.80	60.50	71.80	76.90	85.10	92.50	100.50			
68.0					41.50	49.70	59.30	70.30	75.30	83.30					

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	8.90
Length/Width, mm	242/242
Height, mm	418
Net Weight, kg	34
Stub Suction, inch	7/8
Stub Discharge, inch	1/2
Oil Quantity, l	1.24
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	64
Sound Power (HT), dBA	75
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	3.50
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

ZHI14K1P-TFM

R410A Dew Point

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

Maximum Operating Current, A	10.9
Locked Rotor Current, A	70
Winding Resistance, ohm	2.33
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