



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	5.21	6.22	7.41	8.81	10.45									
20.0	5.15	6.17	7.37	8.76	10.35	12.20								
25.0	5.05	6.07	7.27	8.65	10.25	12.05	14.05							
30.0	4.93	5.96	7.14	8.51	10.05	11.80	13.80	16.00	16.95	18.45				
35.0	4.79	5.81	6.99	8.33	9.85	11.55	13.45	15.60	16.55	18.00	19.25	20.60	23.50	
40.0	4.63	5.65	6.81	8.12	9.60	11.25	13.10	15.20	16.05	17.45	18.70	20.00	22.80	25.90
45.0		5.47	6.61	7.88	9.30	10.90	12.70	14.65	15.50	16.85	18.05	19.30	22.00	24.90
50.0		5.26	6.37	7.61	8.98	10.50	12.25	14.15	14.95	16.25	17.35	18.55	21.10	23.90
55.0			6.11	7.30	8.62	10.10	11.70	13.50	14.30	15.50	16.60	17.70	20.10	22.80
60.0				6.96	8.22	9.61	11.15	12.85	13.60	14.75	15.75	16.80	19.10	21.60
65.0					7.77	9.08	10.50	12.10	12.80	13.85	14.80	15.80		
68.0					7.51	8.77	10.15	11.70	12.35	13.35				

50 Hz

ZHI14K1P-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	1.86	1.89	1.89	1.87	1.84									
20.0	2.01	2.04	2.05	2.03	2.00	1.96								
25.0	2.25	2.30	2.32	2.31	2.29	2.25	2.20							
30.0	2.51	2.58	2.61	2.62	2.61	2.57	2.52	2.46	2.43	2.39				
35.0	2.79	2.88	2.94	2.96	2.96	2.93	2.88	2.82	2.80	2.75	2.72	2.68	2.60	
40.0	3.10	3.22	3.30	3.34	3.35	3.33	3.29	3.23	3.21	3.16	3.13	3.09	3.00	2.92
45.0		3.60	3.70	3.76	3.78	3.78	3.75	3.69	3.67	3.63	3.59	3.55	3.46	3.37
50.0		4.03	4.15	4.23	4.28	4.29	4.27	4.22	4.20	4.16	4.12	4.08	3.99	3.89
55.0			4.66	4.77	4.83	4.86	4.85	4.81	4.79	4.76	4.72	4.68	4.59	4.49
60.0				5.38	5.46	5.51	5.51	5.49	5.48	5.44	5.41	5.37	5.28	5.17
65.0					6.19	6.25	6.28	6.26	6.25	6.22	6.19	6.15		
68.0					6.62	6.69	6.72	6.71	6.70	6.67				

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	4.38	4.40	4.40	4.38	4.34									
20.0	4.53	4.57	4.57	4.55	4.51	4.47								
25.0	4.79	4.85	4.87	4.86	4.83	4.78	4.72							
30.0	5.07	5.16	5.20	5.20	5.18	5.14	5.08	5.01	4.98	4.94				
35.0	5.39	5.51	5.57	5.60	5.59	5.55	5.50	5.42	5.39	5.34	5.30	5.25	5.17	
40.0	5.77	5.91	6.01	6.06	6.07	6.04	5.99	5.91	5.88	5.83	5.78	5.73	5.62	5.52
45.0		6.39	6.52	6.59	6.62	6.61	6.56	6.49	6.46	6.40	6.35	6.30	6.18	6.07
50.0		6.94	7.10	7.21	7.27	7.28	7.25	7.18	7.15	7.09	7.04	6.98	6.86	6.73
55.0			7.79	7.93	8.02	8.05	8.04	7.99	7.95	7.90	7.85	7.80	7.67	7.53
60.0				8.78	8.90	8.96	8.97	8.94	8.91	8.86	8.81	8.75	8.62	8.47
65.0					9.95	10.04	10.07	10.04	10.02	9.98	9.93	9.87		
68.0					10.57	10.67	10.71	10.71	10.68	10.64				

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	22.60	27.40	33.10	40.00	48.20									
20.0	22.50	27.40	33.20	40.10	48.40	58.00								
25.0	22.40	27.30	33.20	40.20	48.40	58.10	69.30							
30.0	22.10	27.20	33.10	40.10	48.30	57.90	69.10	82.10	87.80	97.10				
35.0	21.80	26.90	32.90	39.90	48.10	57.60	68.70	81.50	87.20	96.40	105.00	113.50	134.00	
40.0	21.40	26.50	32.50	39.50	47.60	57.00	68.00	80.70	86.30	95.40	103.50	112.50	132.50	156.00
45.0		26.10	32.00	39.00	47.00	56.30	67.10	79.60	85.20	94.20	102.50	111.00	131.00	154.00
50.0		25.50	31.40	38.30	46.20	55.30	65.90	78.20	83.70	92.50	100.50	109.00	129.00	152.00
55.0			30.70	37.40	45.20	54.10	64.50	76.60	81.90	90.60	98.50	107.00	126.50	149.00
60.0				36.40	44.00	52.70	62.80	74.60	79.80	88.30	96.00	104.50	123.50	146.00
65.0					42.60	51.10	60.90	72.30	77.40	85.70	93.20	101.50		
68.0					41.90	50.20	59.80	71.00	76.00	84.10				

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