



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	4.11	4.94	5.91	7.03	8.30									
20.0	4.05	4.89	5.86	6.97	8.24	9.66								
25.0	3.94	4.78	5.75	6.86	8.11	9.51	11.05							
30.0	3.81	4.65	5.62	6.71	7.94	9.31	10.85	12.55	13.25	14.40				
35.0	3.67	4.51	5.46	6.53	7.73	9.08	10.55	12.20	12.90	14.00	15.00	16.00	18.15	
40.0	3.52	4.34	5.27	6.32	7.49	8.80	10.25	11.85	12.50	13.60	14.55	15.50	17.60	19.85
45.0		4.17	5.07	6.08	7.22	8.47	9.87	11.40	12.05	13.10	14.00	14.95	16.95	19.10
50.0		3.97	4.84	5.82	6.90	8.11	9.44	10.90	11.55	12.50	13.40	14.30	16.20	18.30
55.0			4.60	5.53	6.56	7.71	8.98	10.40	10.95	11.90	12.70	13.60	15.40	17.40
60.0				5.21	6.19	7.27	8.46	9.77	10.35	11.25	12.00	12.80	14.55	16.40
65.0					5.78	6.78	7.89	9.11	9.64	10.45	11.20	11.95		
68.0					5.55	6.50	7.57	8.74	9.23	10.05				

50 Hz

ZHI11K1P-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	1.46	1.47	1.47	1.45	1.40									
20.0	1.58	1.59	1.60	1.58	1.54	1.49								
25.0	1.78	1.80	1.81	1.80	1.78	1.74	1.67							
30.0	2.01	2.03	2.04	2.05	2.04	2.01	1.96	1.86	1.82	1.74				
35.0	2.27	2.29	2.30	2.31	2.31	2.29	2.25	2.18	2.15	2.08	2.01	1.94	1.74	
40.0	2.58	2.59	2.60	2.62	2.62	2.61	2.58	2.53	2.50	2.44	2.38	2.31	2.15	1.92
45.0		2.94	2.95	2.96	2.97	2.97	2.95	2.90	2.88	2.83	2.78	2.73	2.58	2.39
50.0		3.35	3.35	3.36	3.37	3.37	3.36	3.32	3.30	3.26	3.22	3.17	3.05	2.88
55.0			3.83	3.83	3.84	3.84	3.83	3.80	3.78	3.75	3.72	3.67	3.56	3.41
60.0				4.38	4.38	4.37	4.36	4.34	4.33	4.30	4.27	4.23	4.14	4.00
65.0					5.01	5.00	4.99	4.97	4.96	4.93	4.90	4.87		
68.0					5.39	5.37	5.36	5.33	5.32	5.29				

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	3.29	3.29	3.29	3.26	3.21									
20.0	3.43	3.43	3.43	3.42	3.38	3.31								
25.0	3.67	3.68	3.69	3.68	3.66	3.61	3.53							
30.0	3.93	3.95	3.96	3.96	3.95	3.92	3.85	3.75	3.69	3.60				
35.0	4.24	4.26	4.27	4.28	4.28	4.26	4.21	4.12	4.08	3.99	3.91	3.82	3.58	
40.0	4.61	4.63	4.64	4.66	4.66	4.65	4.61	4.54	4.50	4.43	4.36	4.27	4.06	3.79
45.0		5.07	5.08	5.10	5.10	5.10	5.07	5.01	4.98	4.92	4.86	4.78	4.60	4.35
50.0		5.61	5.61	5.62	5.63	5.63	5.61	5.56	5.53	5.48	5.43	5.36	5.20	4.97
55.0			6.25	6.26	6.27	6.27	6.25	6.21	6.19	6.14	6.09	6.03	5.88	5.68
60.0				7.02	7.03	7.02	7.01	6.97	6.95	6.91	6.87	6.81	6.68	6.49
65.0					7.95	7.93	7.91	7.87	7.86	7.82	7.77	7.73		
68.0					8.49	8.47	8.46	8.41	8.39	8.35				

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	18.00	21.90	26.60	32.20	38.60										
20.0	17.90	21.90	26.70	32.20	38.70	46.30									
25.0	17.65	21.80	26.60	32.20	38.80	46.30	55.10								
30.0	17.35	21.50	26.40	32.00	38.60	46.20	54.90	64.90	69.30	76.40					
35.0	17.00	21.20	26.00	31.70	38.30	45.80	54.50	64.50	68.90	76.00	82.40	89.20	104.50		
40.0	16.55	20.80	25.60	31.30	37.80	45.30	54.00	63.90	68.30	75.30	81.70	88.50	103.50	121.50	
45.0		20.30	25.10	30.70	37.10	44.60	53.10	63.00	67.30	74.40	80.70	87.50	102.50	120.50	
50.0		19.70	24.50	30.00	36.30	43.70	52.10	61.80	66.10	73.10	79.40	86.10	101.50	119.00	
55.0			23.80	29.10	35.40	42.50	50.80	60.40	64.70	71.50	77.70	84.40	99.50	117.50	
60.0				28.20	34.30	41.30	49.40	58.70	62.90	69.70	75.80	82.40	97.40	115.00	
65.0					33.00	39.80	47.60	56.80	60.90	67.50	73.50	80.10			
68.0					32.30	38.90	46.70	55.70	59.70	66.30					

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	6.93
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	3.60
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

ZHI11K1P-TFM

R410A Dew Point

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

Maximum Operating Current, A	9.2
Locked Rotor Current, A	51.5
Winding Resistance, ohm	3.2
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