



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	8.42	10.15	12.10	14.35	16.95									
20.0	8.36	10.05	12.05	14.30	16.85	19.80								
25.0	8.24	9.95	11.90	14.15	16.70	19.55	22.80							
30.0	8.09	9.79	11.75	13.95	16.45	19.30	22.40	26.00	27.50	29.90				
35.0	7.91	9.60	11.55	13.70	16.15	18.95	22.00	25.50	27.00	29.30	31.40	33.60	38.30	
40.0	7.71	9.38	11.25	13.40	15.80	18.50	21.50	24.90	26.40	28.70	30.70	32.80	37.40	42.40
45.0		9.13	10.95	13.05	15.40	18.05	21.00	24.30	25.70	27.90	29.90	31.90	36.40	41.30
50.0		8.84	10.65	12.65	14.95	17.50	20.30	23.50	24.90	27.00	28.90	30.90	35.20	40.00
55.0			10.25	12.20	14.40	16.90	19.65	22.70	24.00	26.10	27.90	29.90	34.00	38.60
60.0				11.75	13.85	16.20	18.85	21.80	23.00	25.00	26.80	28.70	32.70	37.00
65.0					13.15	15.40	17.90	20.70	21.90	23.80	25.50	27.30		
68.0					12.80	14.95	17.40	20.10	21.30	23.10				

50 Hz

ZHI23K1P-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	3.33	3.42	3.50	3.57	3.64									
20.0	3.53	3.63	3.72	3.79	3.86	3.92								
25.0	3.88	4.00	4.10	4.18	4.26	4.33	4.39							
30.0	4.27	4.40	4.52	4.62	4.71	4.78	4.85	4.91	4.93	4.97				
35.0	4.70	4.85	4.99	5.10	5.20	5.29	5.37	5.44	5.46	5.50	5.53	5.55	5.61	
40.0	5.19	5.36	5.52	5.65	5.76	5.86	5.95	6.03	6.06	6.10	6.13	6.16	6.21	6.26
45.0		5.94	6.11	6.26	6.39	6.51	6.61	6.70	6.73	6.78	6.81	6.84	6.91	6.96
50.0		6.60	6.79	6.95	7.10	7.24	7.35	7.46	7.49	7.54	7.58	7.62	7.69	7.76
55.0			7.56	7.75	7.92	8.08	8.21	8.32	8.37	8.42	8.47	8.51	8.59	8.66
60.0				8.66	8.86	9.03	9.18	9.31	9.35	9.42	9.47	9.52	9.61	9.68
65.0					9.93	10.10	10.30	10.45	10.50	10.55	10.60	10.65		
68.0					10.55	10.75	10.95	11.10	11.15	11.25				

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	10.47	10.51	10.54	10.57	10.61									
20.0	10.57	10.62	10.66	10.70	10.74	10.77								
25.0	10.77	10.84	10.90	10.95	11.00	11.04	11.08							
30.0	11.02	11.12	11.20	11.27	11.33	11.38	11.43	11.48	11.50	11.52				
35.0	11.35	11.47	11.57	11.66	11.74	11.82	11.88	11.94	11.96	11.99	12.01	12.03	12.08	
40.0	11.76	11.91	12.04	12.16	12.25	12.35	12.43	12.50	12.52	12.56	12.59	12.61	12.66	12.71
45.0		12.46	12.62	12.76	12.89	13.01	13.11	13.20	13.23	13.27	13.31	13.34	13.40	13.45
50.0		13.14	13.34	13.51	13.67	13.81	13.93	14.04	14.08	14.14	14.18	14.22	14.29	14.36
55.0			14.22	14.43	14.62	14.79	14.94	15.07	15.12	15.19	15.24	15.29	15.38	15.45
60.0				15.54	15.76	15.96	16.14	16.30	16.36	16.44	16.50	16.56	16.68	16.76
65.0					17.15	17.38	17.59	17.77	17.83	17.95	18.02	18.08		
68.0					18.00	18.25	18.46	18.68	18.75	18.84				

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	36.00	43.80	53.00	63.80	76.40										
20.0	36.00	43.90	53.20	64.10	76.80	91.50									
25.0	36.00	44.00	53.40	64.40	77.10	91.90	109.00								
30.0	35.80	43.90	53.40	64.40	77.20	92.00	109.00	129.00	137.50	151.50					
35.0	35.50	43.70	53.20	64.30	77.10	91.90	109.00	128.50	137.50	151.50	164.00	177.50	208.00		
40.0	35.20	43.40	52.90	63.90	76.70	91.40	108.50	128.00	137.00	151.00	163.50	177.00	207.00	242.00	
45.0		42.90	52.40	63.30	76.00	90.70	107.50	127.50	136.00	150.00	162.50	176.00	206.00	242.00	
50.0		42.20	51.70	62.50	75.10	89.70	106.50	126.00	134.50	148.50	161.00	175.00	205.00	240.00	
55.0			50.80	61.50	74.00	88.40	105.00	124.50	133.00	147.00	159.50	173.00	203.00	239.00	
60.0				60.30	72.50	86.70	103.00	122.50	131.00	144.50	157.00	170.50	201.00	236.00	
65.0					70.80	84.80	101.00	120.00	128.00	142.00	154.00	167.50			
68.0					69.90	83.60	99.70	118.50	126.50	140.00					

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	14.7
Length/Width, mm	239/244
Height, mm	443
Net Weight, kg	40.5
Stub Suction, inch	7/8
Stub Discharge, inch	3/4
Oil Quantity, l	1.77
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	5.20
High Side PS gauge, bar	46
Low Side PS gauge, bar	28
Low Side TS Max., °C	25
Low Side TS Min., °C	-25
Refrigerant's GWP	2088
Refrigerant's classification	A1

50 Hz

ZHI23K1P-TFM

R410A Dew Point

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

Maximum Operating Current, A	18.6
Locked Rotor Current, A	128
Winding Resistance, ohm	1.38
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

ACCESSORIES OPTIONAL

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