



Minimum Evaporating Temp. With:

- 10 K Suction Superheat
- 5 K Suction Superheat
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW											
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0
17.0	1.84	2.37	3.01									
20.0	1.80	2.32	2.95	3.71								
25.0	1.71	2.22	2.83	3.56	4.43	5.44						
30.0	1.62	2.11	2.70	3.40	4.24	5.21	6.35	6.85				
35.0	1.53	2.00	2.56	3.24	4.03	4.97	6.06	6.54	7.32	8.01	8.76	
40.0	1.44	1.88	2.42	3.06	3.82	4.71	5.75	6.21	6.96	7.62	8.34	9.92
45.0	1.34	1.76	2.26	2.87	3.59	4.44	5.43	5.87	6.58	7.22	7.90	9.41
50.0		1.64	2.11	2.68	3.35	4.15	5.09	5.51	6.18	6.79	7.44	8.88
55.0			1.94	2.47	3.11	3.85	4.74	5.13	5.77	6.34	6.96	8.33
60.0				2.27	2.85	3.55	4.37	4.74	5.34	5.88	6.46	7.75
65.0					2.59	3.23	3.99	4.34	4.89	5.40	5.94	
67.0						3.10	3.84	4.17	4.71	5.20	5.73	

50 Hz

ZH15K4E-TFD

R407C Dew Point

Cond °C	Power, kW											
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0
17.0	0.72	0.75	0.78									
20.0	0.76	0.79	0.82	0.85								
25.0	0.83	0.86	0.90	0.93	0.96	0.99						
30.0	0.91	0.95	0.98	1.02	1.04	1.08	1.11	1.12				
35.0	1.00	1.04	1.08	1.12	1.14	1.17	1.20	1.22	1.24	1.26	1.28	
40.0	1.10	1.16	1.20	1.23	1.26	1.28	1.32	1.32	1.34	1.36	1.38	1.43
45.0	1.22	1.28	1.32	1.36	1.40	1.42	1.44	1.46	1.47	1.48	1.50	1.54
50.0		1.42	1.47	1.52	1.54	1.58	1.60	1.60	1.62	1.63	1.64	1.68
55.0			1.64	1.68	1.72	1.75	1.77	1.78	1.79	1.80	1.82	1.84
60.0				1.87	1.92	1.94	1.97	1.98	1.99	2.00	2.01	2.03
65.0					2.13	2.17	2.19	2.20	2.21	2.22	2.23	
67.0						2.26	2.29	2.30	2.31	2.32	2.32	

Cond °C	Current at 400 V, A											
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0
17.0	2.20	2.22	2.23									
20.0	2.22	2.24	2.26	2.28								
25.0	2.26	2.29	2.31	2.33	2.35	2.38						
30.0	2.32	2.35	2.38	2.40	2.43	2.45	2.49	2.51				
35.0	2.39	2.43	2.46	2.49	2.52	2.55	2.58	2.59	2.62	2.64	2.66	
40.0	2.48	2.53	2.57	2.61	2.64	2.66	2.69	2.71	2.73	2.75	2.77	2.82
45.0	2.59	2.66	2.71	2.75	2.78	2.81	2.84	2.85	2.87	2.89	2.90	2.95
50.0		2.81	2.87	2.92	2.96	2.99	3.02	3.03	3.05	3.06	3.08	3.11
55.0			3.06	3.12	3.17	3.20	3.23	3.24	3.26	3.27	3.29	3.31
60.0				3.36	3.41	3.45	3.48	3.50	3.51	3.52	3.54	3.56
65.0					3.70	3.74	3.78	3.79	3.81	3.82	3.83	
67.0						3.87	3.91	3.92	3.94	3.95	3.96	

Cond °C	Suction Mass Flow, g/s											
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0
17.0	9.80	12.40	15.55									
20.0	9.78	12.45	15.60	19.30								
25.0	9.73	12.40	15.60	19.30	23.60	28.60						
30.0	9.65	12.35	15.55	19.25	23.60	28.60	34.40	36.90				
35.0	9.55	12.25	15.45	19.15	23.50	28.50	34.30	36.80	40.80	44.40	48.20	
40.0	9.43	12.15	15.30	19.05	23.40	28.40	34.10	36.60	40.60	44.20	48.00	56.30
45.0	9.30	12.00	15.15	18.85	23.20	28.10	33.90	36.40	40.40	44.00	47.80	56.10
50.0		11.85	14.95	18.65	22.90	27.80	33.60	36.10	40.10	43.70	47.50	55.80
55.0			14.75	18.35	22.60	27.50	33.20	35.70	39.70	43.30	47.10	55.50
60.0				18.10	22.30	27.10	32.80	35.30	39.30	42.80	46.70	55.10
65.0					21.90	26.70	32.30	34.80	38.80	42.40	46.20	
67.0						26.50	32.10	34.60	38.60	42.20	46.00	

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	5.76
Length/Width, mm	243/243
Height, mm	364
Net Weight, kg	23
Gross Weight, kg	26
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	1.3
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF, POE MOBIL EAL Arctic 22 CC
Base mounting (hole dia), mm	190 x 190 (8.5)
Sound Pressure @ 1m (HT), dBA	60
Sound Power (HT), dBA	71
Sound Power with Sound Shell (HT), dBA	62
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	3.40
High Side PS gauge, bar	32
Low Side PS gauge, bar	22.6
Low Side TS Max., °C	50
Refrigerant's GWP	1774
Refrigerant's classification	A1

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

Maximum Operating Current, A	4.1
Locked Rotor Current, A	26
Winding Resistance, ohm	7.1
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
TFD	380-420 V / 3~ / 50 Hz	400		Y	1.00
TFD	460 V / 3~ / 60 Hz	460		Y	1.04