



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													
	-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	
20.0	1.70	2.20	2.81	3.54	4.42	5.46								
25.0	1.60	2.07	2.66	3.36	4.21	5.21	6.38							
30.0	1.49	1.95	2.51	3.19	4.00	4.96	6.08	6.58	7.39					
35.0	1.39	1.83	2.36	3.01	3.79	4.70	5.78	6.27	7.04	7.74	8.49			
40.0	1.29	1.70	2.22	2.83	3.57	4.45	5.48	5.94	6.69	7.36	8.08	9.68		
45.0	1.19	1.59	2.07	2.65	3.36	4.19	5.18	5.62	6.33	6.98	7.67	9.20	10.95	
50.0	1.10	1.47	1.92	2.48	3.14	3.93	4.87	5.29	5.97	6.58	7.25	8.72	10.40	
55.0	1.00	1.36	1.78	2.30	2.92	3.67	4.56	4.96	5.60	6.19	6.82	8.23	9.84	
60.0		1.24	1.64	2.12	2.70	3.41	4.24	4.62	5.23	5.79	6.39	7.73	9.27	
65.0			1.49	1.94	2.48	3.14	3.93	4.28	4.86	5.39	5.96	7.23	8.70	
70.0				1.76	2.26	2.87	3.61	3.94	4.48	4.98	5.51	6.72		
75.0				1.58	2.04	2.60	3.28	3.59	4.10	4.56	5.07			

50 Hz

ZH21K4E-TFD

R134a

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	25.0
20.0	0.74	0.77	0.79	0.81	0.82	0.84							
25.0	0.81	0.84	0.86	0.88	0.90	0.92	0.93						
30.0	0.87	0.91	0.94	0.96	0.99	1.01	1.02	1.03	1.04				
35.0	0.94	0.98	1.02	1.05	1.08	1.10	1.13	1.14	1.14	1.16	1.16		
40.0	1.02	1.06	1.10	1.14	1.18	1.21	1.24	1.25	1.26	1.27	1.28	1.30	
45.0	1.10	1.16	1.20	1.24	1.28	1.32	1.36	1.37	1.38	1.40	1.42	1.44	1.45
50.0	1.20	1.25	1.30	1.35	1.40	1.44	1.48	1.50	1.52	1.54	1.56	1.58	1.61
55.0	1.30	1.36	1.42	1.48	1.52	1.58	1.63	1.64	1.68	1.70	1.72	1.76	1.78
60.0		1.48	1.55	1.61	1.67	1.73	1.78	1.80	1.84	1.86	1.89	1.94	1.98
65.0			1.69	1.76	1.82	1.90	1.96	1.98	2.02	2.05	2.08	2.13	2.18
70.0				1.92	2.00	2.08	2.15	2.18	2.22	2.25	2.28	2.35	
75.0				2.11	2.19	2.28	2.36	2.39	2.43	2.47	2.51		

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	25.0
20.0	2.04	2.10	2.16	2.23	2.28	2.34							
25.0	2.06	2.11	2.16	2.20	2.25	2.29	2.32						
30.0	2.12	2.16	2.20	2.23	2.26	2.29	2.32	2.33	2.34				
35.0	2.20	2.24	2.27	2.30	2.33	2.35	2.37	2.38	2.39	2.40	2.40		
40.0	2.31	2.34	2.37	2.40	2.43	2.45	2.47	2.48	2.49	2.50	2.50	2.51	
45.0	2.42	2.46	2.49	2.53	2.56	2.59	2.61	2.62	2.63	2.64	2.65	2.67	2.67
50.0	2.53	2.58	2.63	2.67	2.71	2.75	2.78	2.80	2.81	2.83	2.84	2.87	2.89
55.0	2.64	2.70	2.76	2.82	2.88	2.93	2.98	3.00	3.03	3.05	3.07	3.11	3.14
60.0		2.82	2.90	2.97	3.05	3.12	3.19	3.22	3.26	3.29	3.32	3.38	3.43
65.0			3.02	3.12	3.22	3.32	3.41	3.45	3.50	3.55	3.59	3.67	3.75
70.0				3.25	3.38	3.51	3.63	3.68	3.75	3.81	3.87	3.99	
75.0				3.36	3.53	3.69	3.85	3.91	4.00	4.08	4.16		

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	25.0
20.0	10.40	13.20	16.50	20.40	25.00	30.40							
25.0	10.20	13.00	16.35	20.30	24.90	30.20	36.30						
30.0	10.00	12.80	16.15	20.10	24.70	30.00	36.10	38.80	43.10				
35.0	9.80	12.60	15.95	19.90	24.50	29.80	35.90	38.60	42.90	46.70	50.80		
40.0	9.60	12.45	15.75	19.70	24.30	29.60	35.70	38.40	42.70	46.50	50.60	59.50	
45.0	9.41	12.25	15.55	19.45	24.00	29.30	35.50	38.20	42.50	46.30	50.40	59.30	69.30
50.0	9.22	12.05	15.35	19.25	23.80	29.10	35.20	37.90	42.20	46.10	50.20	59.10	69.20
55.0	9.03	11.85	15.15	19.00	23.60	28.90	35.00	37.70	42.00	45.80	49.90	58.90	69.00
60.0		11.65	14.95	18.80	23.30	28.60	34.70	37.40	41.70	45.60	49.70	58.80	69.00
65.0			14.75	18.55	23.10	28.30	34.40	37.10	41.50	45.40	49.50	58.70	68.90
70.0				18.35	22.80	28.10	34.20	36.90	41.30	45.20	49.40	58.60	
75.0				18.20	22.60	27.90	34.00	36.70	41.10	45.10	49.30		

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	8.04
Length/Width, mm	243/242
Height, mm	387
Net Weight, kg	27
Gross Weight, kg	30
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	1.45
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	61
Sound Power (HT), dBA	72
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	32
Low Side PS gauge, bar	22.6
Low Side TS Max., °C	50
Refrigerant's GWP	1430
Refrigerant's classification	A1

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

Maximum Operating Current, A	5.2
Locked Rotor Current, A	32
Winding Resistance, ohm	5.48
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Mounting Grommets	Standard
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ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
Discharge Temperature Protection	Discharge line thermostat

MOTOR OPTIONS

<i>Motor Code</i>	<i>Power Supply</i>	<i>Nominal Voltage, V</i>	<i>Start Connection</i>	<i>DOL Connection</i>	<i>Amps Factor</i>
TFD	380-420 V / 3~ / 50 Hz	400		Y	1.00
TFR	220-240 V / 3~ / 50 Hz	230		Y	1.73
TFD	460 V / 3~ / 60 Hz	460		Y	1.04