



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	3.12	4.03	5.13	6.46	8.03	9.87							
25.0	2.93	3.80	4.86	6.13	7.64	9.42	11.50						
30.0	2.74	3.58	4.59	5.81	7.26	8.97	10.95	11.85	13.25				
35.0	2.55	3.36	4.33	5.49	6.88	8.51	10.40	11.25	12.60	13.85	15.15		
40.0	2.37	3.14	4.07	5.18	6.50	8.06	9.87	10.70	12.00	13.15	14.40	17.15	
45.0	2.20	2.93	3.81	4.86	6.12	7.60	9.34	10.10	11.35	12.45	13.65	16.35	19.35
50.0	2.02	2.72	3.55	4.55	5.74	7.14	8.79	9.53	10.70	11.80	12.95	15.45	18.35
55.0	1.86	2.51	3.30	4.24	5.36	6.69	8.25	8.95	10.05	11.10	12.20	14.60	17.35
60.0		2.31	3.04	3.92	4.98	6.23	7.70	8.36	9.43	10.40	11.45	13.75	16.40
65.0			2.79	3.61	4.60	5.77	7.15	7.77	8.78	9.69	10.70	12.85	15.40
70.0				3.30	4.21	5.30	6.60	7.18	8.13	8.99	9.91	12.00	
75.0				2.99	3.83	4.84	6.04	6.58	7.47	8.27	9.14		

50 Hz

ZH38K4E-PFZ

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	1.46	1.52	1.57	1.62	1.68	1.74							
25.0	1.57	1.63	1.69	1.75	1.80	1.86	1.92						
30.0	1.68	1.75	1.82	1.88	1.94	2.01	2.07	2.10	2.14				
35.0	1.82	1.88	1.96	2.02	2.09	2.16	2.23	2.26	2.30	2.34	2.38		
40.0	1.96	2.03	2.11	2.19	2.26	2.34	2.41	2.44	2.49	2.53	2.57	2.65	
45.0	2.11	2.20	2.28	2.37	2.45	2.53	2.61	2.65	2.70	2.74	2.78	2.87	2.96
50.0	2.29	2.38	2.47	2.56	2.66	2.75	2.84	2.87	2.93	2.98	3.02	3.12	3.21
55.0	2.48	2.59	2.69	2.79	2.89	2.99	3.09	3.13	3.19	3.24	3.29	3.39	3.49
60.0		2.82	2.93	3.04	3.15	3.26	3.36	3.41	3.47	3.53	3.58	3.70	3.81
65.0			3.19	3.31	3.43	3.55	3.67	3.72	3.79	3.85	3.91	4.03	4.16
70.0				3.62	3.75	3.88	4.01	4.07	4.15	4.21	4.28	4.41	
75.0				3.96	4.10	4.25	4.39	4.45	4.53	4.61	4.68		

Cond °C	Current at 230 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	9.71	9.91	10.11	10.30	10.50	10.70							
25.0	10.12	10.33	10.53	10.74	10.95	11.16	11.38						
30.0	10.54	10.76	10.99	11.21	11.44	11.67	11.90	12.00	12.14				
35.0	10.99	11.24	11.48	11.73	11.98	12.23	12.49	12.59	12.75	12.89	13.03		
40.0	11.49	11.76	12.04	12.31	12.59	12.87	13.16	13.28	13.46	13.60	13.76	14.07	
45.0	12.05	12.36	12.67	12.98	13.29	13.61	13.93	14.06	14.26	14.43	14.60	14.95	15.30
50.0	12.70	13.04	13.39	13.74	14.10	14.45	14.82	14.97	15.19	15.38	15.57	15.96	16.36
55.0	13.44	13.83	14.22	14.62	15.02	15.42	15.84	16.00	16.25	16.47	16.68	17.12	17.56
60.0		14.73	15.18	15.63	16.08	16.54	17.00	17.19	17.47	17.71	17.95	18.44	18.94
65.0			16.28	16.78	17.29	17.81	18.33	18.54	18.86	19.13	19.40	19.95	20.51
70.0				18.10	18.67	19.25	19.84	20.08	20.43	20.74	21.04	21.65	
75.0				19.60	20.24	20.89	21.55	21.81	22.21	22.55	22.89		

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	19.10	24.20	30.20	37.30	45.50	54.90								
25.0	18.75	23.80	29.90	36.90	45.10	54.60	65.40							
30.0	18.40	23.50	29.50	36.60	44.80	54.20	65.00	69.70	77.20					
35.0	18.05	23.20	29.20	36.30	44.50	53.90	64.70	69.30	76.80	83.50	90.50			
40.0	17.70	22.90	28.90	36.00	44.10	53.60	64.30	69.00	76.50	83.10	90.20	105.50		
45.0	17.35	22.60	28.60	35.70	43.80	53.20	63.90	68.60	76.10	82.80	89.80	105.00	122.50	
50.0	17.05	22.30	28.30	35.40	43.50	52.90	63.60	68.30	75.80	82.40	89.50	105.00	122.00	
55.0	16.75	22.00	28.10	35.10	43.20	52.60	63.30	68.00	75.50	82.10	89.20	104.50	122.00	
60.0		21.80	27.80	34.80	42.90	52.30	63.00	67.70	75.20	81.90	89.00	104.50	122.00	
65.0			27.60	34.60	42.70	52.00	62.70	67.40	75.00	81.70	88.80	104.50	122.00	
70.0				34.50	42.50	51.90	62.60	67.30	74.80	81.60	88.80	104.50		
75.0				34.40	42.50	51.80	62.60	67.30	74.90	81.70	89.00			

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	14.4
Length/Width, mm	247/241
Height, mm	438
Net Weight, kg	38
Gross Weight, kg	41
Stub Suction, inch	7/8
Stub Discharge, inch	1/2
Oil Quantity, l	1.89
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	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. Low Side Internal Free Volume, l	6.0
Max. High Side Internal Free Volume, l	0.6
Max. Internal Free Volume, l	6.60
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

50 Hz

ZH38K4E-PFZ

R134a

COMPRESSOR ELECTRICAL DATA (220-240 V / 1~ / 50 Hz)

Maximum Operating Current, A	31.1
Locked Rotor Current, A	150
Winding Resistance, ohm	0.42/1.92 (R/S)
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>
PFZ	220-240 V / 1~ / 50 Hz	230		PSC	1.00