



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	
17.0	3.16	3.88	4.72											
20.0	3.15	3.87	4.72	5.70										
25.0	3.11	3.84	4.69	5.66	6.79	8.07								
30.0	3.07	3.80	4.64	5.61	6.72	7.99	9.43	10.05	11.05					
35.0	3.02	3.74	4.58	5.54	6.64	7.88	9.30	9.91	10.90	11.75	12.65			
40.0	2.97	3.68	4.50	5.45	6.53	7.75	9.14	9.74	10.70	11.55	12.45	14.40	16.55	
45.0	2.90	3.61	4.42	5.34	6.39	7.59	8.95	9.53	10.45	11.30	12.15	14.10	16.20	
50.0	2.84	3.53	4.32	5.22	6.24	7.40	8.72	9.29	10.20	11.00	11.85	13.70	15.75	
55.0	2.77	3.44	4.20	5.07	6.07	7.19	8.47	9.02	9.91	10.70	11.50	13.30	15.30	
60.0		3.34	4.08	4.92	5.88	6.96	8.19	8.73	9.58	10.35	11.15	12.85		
65.0			3.94	4.75	5.66	6.71	7.89	8.40	9.22	9.95	10.70			
67.0			3.88	4.67	5.57	6.60	7.76	8.26	9.07	9.78	10.55			

50 Hz

ZH09KVE-PFZ

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	25.0
17.0	1.25	1.28	1.30										
20.0	1.32	1.36	1.38	1.40									
25.0	1.44	1.48	1.52	1.55	1.56	1.56							
30.0	1.57	1.62	1.67	1.70	1.73	1.74	1.73	1.72	1.70				
35.0	1.72	1.78	1.83	1.88	1.91	1.94	1.94	1.94	1.92	1.92	1.90		
40.0	1.88	1.95	2.01	2.07	2.11	2.15	2.16	2.17	2.16	2.16	2.15	2.11	2.05
45.0	2.07	2.15	2.22	2.28	2.34	2.38	2.41	2.42	2.43	2.43	2.42	2.40	2.36
50.0	2.29	2.37	2.45	2.53	2.59	2.64	2.69	2.70	2.71	2.72	2.72	2.72	2.69
55.0	2.54	2.63	2.72	2.80	2.87	2.94	2.99	3.01	3.03	3.05	3.06	3.07	3.05
60.0		2.92	3.02	3.11	3.19	3.27	3.33	3.36	3.39	3.41	3.42	3.45	
65.0			3.36	3.46	3.55	3.64	3.72	3.75	3.78	3.81	3.84		
67.0			3.51	3.61	3.71	3.80	3.88	3.91	3.95	3.99	4.01		

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
17.0	8.83	8.90	8.95										
20.0	8.99	9.07	9.14	9.17									
25.0	9.29	9.39	9.48	9.55	9.58	9.57							
30.0	9.62	9.76	9.88	9.97	10.04	10.07	10.05	10.02	9.97				
35.0	10.03	10.20	10.35	10.48	10.58	10.65	10.67	10.66	10.63	10.60	10.54		
40.0	10.53	10.73	10.92	11.09	11.23	11.34	11.40	11.41	11.41	11.39	11.36	11.25	11.07
45.0	11.13	11.37	11.60	11.82	12.00	12.15	12.26	12.29	12.32	12.33	12.32	12.26	12.13
50.0	11.87	12.16	12.43	12.69	12.92	13.10	13.26	13.31	13.37	13.41	13.43	13.42	13.34
55.0	12.76	13.09	13.41	13.70	13.98	14.23	14.44	14.51	14.60	14.66	14.71	14.76	14.74
60.0		14.19	14.56	14.91	15.24	15.55	15.81	15.91	16.03	16.13	16.19	16.30	
65.0			15.92	16.33	16.71	17.07	17.40	17.51	17.68	17.80	17.91		
67.0			16.53	16.96	17.37	17.75	18.09	18.22	18.40	18.54	18.66		

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
17.0	14.25	17.80	21.90										
20.0	14.25	17.80	22.00	26.90									
25.0	14.20	17.80	22.00	27.00	32.70	39.30							
30.0	14.10	17.75	22.00	27.00	32.70	39.40	47.00	50.40	55.70				
35.0	14.00	17.70	22.00	26.90	32.70	39.30	47.00	50.30	55.70	60.50	65.50		
40.0	13.90	17.55	21.80	26.80	32.50	39.20	46.80	50.10	55.50	60.30	65.30	76.40	88.90
45.0	13.75	17.40	21.70	26.60	32.30	38.90	46.50	49.80	55.20	59.90	65.00	76.10	88.50
50.0	13.65	17.25	21.40	26.30	32.00	38.60	46.10	49.40	54.70	59.50	64.50	75.50	87.90
55.0	13.45	17.05	21.20	26.00	31.70	38.20	45.60	48.90	54.20	58.90	63.90	74.80	87.10
60.0		16.80	20.90	25.70	31.20	37.70	45.10	48.30	53.50	58.20	63.10	74.00	
65.0			20.60	25.20	30.70	37.10	44.40	47.60	52.70	57.40	62.30		
67.0			20.40	25.10	30.50	36.80	44.10	47.30	52.40	57.00	61.90		

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	8.00
Length/Width, mm	243/243
Height, mm	386
Net Weight, kg	29.9
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	62
Sound Power (HT), dBA	73
Sound Power with Sound Shell (HT), dBA	63
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	3.90
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 (220-240 V / 1~ / 50 Hz)

Maximum Operating Current, A	20.8
Locked Rotor Current, A	97
Winding Resistance, ohm	0.69/1.65 (R/S)
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
Discharge Temperature Protection	Discharge line thermostat

MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
PFZ	220-240 V / 1~ / 50 Hz	230		PSC	1.00