



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	4.43	5.49	6.72										
20.0	4.44	5.50	6.74	8.18									
25.0	4.42	5.50	6.76	8.19	9.82	11.70							
30.0	4.37	5.47	6.73	8.16	9.78	11.60	13.65	14.55	15.95				
35.0	4.30	5.41	6.66	8.08	9.68	11.45	13.50	14.35	15.75	16.95	18.25		
40.0	4.20	5.31	6.56	7.95	9.53	11.30	13.25	14.10	15.45	16.65	17.90	20.60	23.60
45.0	4.07	5.18	6.41	7.79	9.32	11.05	12.95	13.80	15.10	16.25	17.45	20.10	23.00
50.0	3.92	5.01	6.22	7.57	9.07	10.75	12.60	13.40	14.65	15.80	16.95	19.50	22.30
55.0	3.73	4.81	6.00	7.30	8.76	10.35	12.15	12.95	14.15	15.25	16.35	18.80	21.50
60.0		4.57	5.73	6.99	8.40	9.95	11.65	12.40	13.60	14.60	15.70	18.05	
65.0			5.42	6.64	7.98	9.46	11.10	11.80	12.95	13.90	14.95		
67.0			5.28	6.48	7.80	9.25	10.85	11.55	12.65	13.60	14.65		

50 Hz

ZH13KVE-PFJ

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	1.86	1.90	1.94										
20.0	1.96	2.00	2.04	2.08									
25.0	2.12	2.18	2.22	2.25	2.29	2.34							
30.0	2.30	2.37	2.42	2.46	2.49	2.53	2.58	2.61	2.65				
35.0	2.50	2.58	2.65	2.69	2.73	2.77	2.81	2.84	2.87	2.91	2.96		
40.0	2.73	2.83	2.91	2.97	3.01	3.05	3.10	3.12	3.15	3.18	3.22	3.31	3.44
45.0	3.00	3.13	3.23	3.30	3.35	3.40	3.44	3.46	3.49	3.52	3.55	3.63	3.74
50.0	3.32	3.47	3.59	3.68	3.75	3.80	3.85	3.86	3.89	3.92	3.95	4.02	4.12
55.0	3.69	3.88	4.02	4.13	4.21	4.28	4.33	4.35	4.38	4.41	4.44	4.50	4.59
60.0		4.35	4.52	4.66	4.76	4.84	4.90	4.93	4.96	4.99	5.02	5.08	
65.0			5.11	5.27	5.40	5.49	5.57	5.60	5.64	5.67	5.69		
67.0			5.37	5.54	5.68	5.78	5.87	5.89	5.93	5.97	6.00		

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	12.98	13.28	13.57										
20.0	13.96	14.22	14.46	14.70									
25.0	15.25	15.47	15.66	15.84	16.03	16.24							
30.0	16.24	16.45	16.61	16.75	16.89	17.04	17.22	17.31	17.47				
35.0	17.03	17.25	17.42	17.55	17.66	17.78	17.91	17.98	18.10	18.21	18.35		
40.0	17.75	18.01	18.21	18.35	18.47	18.58	18.69	18.75	18.84	18.94	19.04	19.32	19.70
45.0	18.52	18.85	19.10	19.28	19.43	19.55	19.68	19.73	19.82	19.90	20.00	20.25	20.58
50.0	19.45	19.88	20.21	20.44	20.64	20.81	20.97	21.03	21.13	21.22	21.32	21.56	21.87
55.0	20.65	21.20	21.64	21.96	22.25	22.49	22.70	22.79	22.91	23.02	23.14	23.39	23.71
60.0		22.93	23.51	23.98	24.38	24.72	25.01	25.13	25.30	25.44	25.58	25.89	
65.0			25.98	26.60	27.13	27.59	28.00	28.16	28.38	28.56	28.75		
67.0			27.19	27.85	28.44	28.96	29.42	29.59	29.84	30.05	30.25		

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	19.40	24.40	30.40											
20.0	19.45	24.60	30.70	37.80										
25.0	19.55	24.80	30.90	38.10	46.50	56.20								
30.0	19.50	24.80	31.00	38.30	46.60	56.30	67.30	72.10	79.90					
35.0	19.30	24.70	31.00	38.20	46.50	56.10	67.00	71.80	79.40	86.30	93.50			
40.0	19.05	24.50	30.80	38.00	46.20	55.70	66.50	71.20	78.70	85.40	92.60	108.00	126.00	
45.0	18.65	24.10	30.40	37.50	45.70	55.00	65.60	70.30	77.70	84.20	91.30	106.50	124.00	
50.0	18.15	23.60	29.90	36.90	45.00	54.10	64.50	69.10	76.30	82.80	89.60	104.50	121.50	
55.0	17.55	23.00	29.10	36.10	44.00	53.00	63.20	67.60	74.70	81.00	87.70	102.50	118.50	
60.0		22.20	28.20	35.10	42.80	51.60	61.50	65.80	72.70	78.80	85.30	99.60		
65.0			27.10	33.80	41.40	49.90	59.50	63.70	70.40	76.30	82.60			
67.0			26.60	33.30	40.70	49.10	58.60	62.70	69.30	75.20	81.40			

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	11.7
Length/Width, mm	244/241
Height, mm	438
Net Weight, kg	38
Gross Weight, kg	41
Stub Suction, inch	7/8
Stub Discharge, inch	1/2
Stub Injection, 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	65
Sound Power (HT), dBA	76
Sound Power with Sound Shell (HT), dBA	69
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	4.30
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

50 Hz

ZH13KVE-PFJ

R407C Dew Point

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

Maximum Operating Current, A	30
Locked Rotor Current, A	160
Winding Resistance, ohm	0.41/1.2 (R/S)
Default Enclosure Class	Not Available

ACCESSORIES INCLUDED

ACCESSORIES OPTIONAL

MOTOR OPTIONS

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