



Minimum Evaporating Temp. With:
— 10 K Suction Superheat
— Maximum Evaporating Temperature
 Drive Frequency Range 55 - 275 Hz

Suction Superheat 11.1K

Compressor Speed 50 1/s

Liquid Subcooling 8.3K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW															
	-35.0	-30.0	-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	30.0
15.0	2.27	2.79	3.38	4.08	4.89	5.84										
20.0	2.09	2.62	3.21	3.90	4.70	5.63	6.71	7.94								
25.0	1.92	2.45	3.04	3.72	4.51	5.42	6.47	7.67	9.06	9.67	10.65	11.50	12.45			
30.0	1.75	2.28	2.87	3.54	4.31	5.20	6.22	7.39	8.73	9.32	10.25	11.10	12.00	13.95		
35.0	1.60	2.12	2.70	3.36	4.11	4.96	5.95	7.09	8.39	8.96	9.87	10.70	11.55	13.45	15.60	
40.0	1.44	1.96	2.54	3.17	3.90	4.73	5.68	6.77	8.03	8.58	9.46	10.25	11.10	12.95	15.00	17.35
45.0	1.30	1.82	2.37	2.99	3.69	4.48	5.40	6.45	7.65	8.18	9.03	9.79	10.60	12.40	14.40	16.65
50.0	1.18	1.68	2.22	2.81	3.48	4.24	5.11	6.11	7.26	7.77	8.58	9.31	10.10	11.80	13.75	15.90
55.0	1.06	1.55	2.07	2.63	3.26	3.99	4.81	5.77	6.86	7.34	8.12	8.82	9.56	11.20	13.05	15.15
60.0	0.97	1.44	1.92	2.46	3.06	3.73	4.51	5.41	6.45	6.91	7.64	8.31	9.01	10.60	12.35	14.35
65.0			1.80	2.29	2.85	3.48	4.21	5.05	6.03	6.46	7.15	7.78	8.45	9.94	11.65	13.55
70.0				2.14	2.65	3.23	3.91	4.69	5.60	6.00	6.66	7.25	7.88	9.29	10.90	12.75
75.0					2.46	2.99	3.61	4.33	5.17	5.55	6.16	6.71	7.30	8.63	10.15	
80.0							3.32	3.97	4.75	5.09	5.66	6.17	6.73	7.97		

Cond °C	Power, kW															
	-35.0	-30.0	-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	30.0
15.0	0.97	0.97	0.98	0.98	0.98	0.98										
20.0	1.06	1.07	1.08	1.08	1.09	1.10	1.10	1.10								
25.0	1.15	1.17	1.18	1.20	1.21	1.22	1.23	1.23	1.24	1.24	1.23	1.23	1.23			
30.0	1.24	1.27	1.30	1.32	1.34	1.35	1.36	1.37	1.37	1.37	1.37	1.36	1.36	1.36		
35.0	1.32	1.37	1.41	1.44	1.47	1.49	1.51	1.52	1.52	1.52	1.52	1.52	1.52	1.50	1.48	
40.0	1.42	1.48	1.52	1.57	1.61	1.64	1.66	1.68	1.69	1.69	1.69	1.68	1.68	1.67	1.65	1.62
45.0	1.50	1.58	1.65	1.71	1.76	1.80	1.83	1.85	1.86	1.87	1.87	1.87	1.87	1.86	1.84	1.80
50.0	1.60	1.69	1.78	1.85	1.91	1.96	2.01	2.04	2.06	2.06	2.07	2.07	2.07	2.06	2.04	2.01
55.0	1.69	1.80	1.90	2.00	2.07	2.14	2.19	2.23	2.26	2.27	2.28	2.29	2.29	2.28	2.26	2.23
60.0	1.78	1.92	2.04	2.15	2.24	2.32	2.39	2.44	2.48	2.50	2.51	2.52	2.52	2.52	2.51	2.48
65.0			2.18	2.31	2.42	2.52	2.60	2.66	2.72	2.73	2.75	2.76	2.77	2.78	2.77	2.75
70.0				2.47	2.60	2.72	2.81	2.90	2.96	2.98	3.01	3.03	3.04	3.06	3.06	3.04
75.0					2.79	2.93	3.04	3.14	3.22	3.25	3.28	3.31	3.33	3.35	3.36	
80.0							3.28	3.40	3.49	3.53	3.57	3.60	3.63	3.67		

Cond °C	Inverter Current at 230 V, A															
	-35.0	-30.0	-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	30.0
15.0	4.07	4.51	4.87	5.16	5.38	5.55										
20.0	4.48	4.90	5.24	5.51	5.71	5.86	5.95	6.01								
25.0	4.92	5.33	5.66	5.92	6.10	6.24	6.32	6.35	6.36	6.35	6.33	6.31	6.29			
30.0	5.39	5.80	6.13	6.38	6.56	6.68	6.76	6.78	6.77	6.76	6.74	6.71	6.68	6.60		
35.0	5.90	6.31	6.64	6.89	7.07	7.20	7.27	7.29	7.28	7.26	7.23	7.20	7.17	7.09	7.00	
40.0	6.43	6.85	7.19	7.45	7.64	7.77	7.85	7.87	7.86	7.85	7.82	7.79	7.76	7.67	7.58	7.49
45.0	6.98	7.42	7.78	8.05	8.26	8.40	8.49	8.53	8.53	8.52	8.49	8.47	8.43	8.36	8.27	8.19
50.0	7.55	8.01	8.39	8.70	8.92	9.09	9.19	9.25	9.27	9.26	9.25	9.23	9.20	9.14	9.07	8.99
55.0	8.13	8.63	9.04	9.37	9.63	9.82	9.95	10.04	10.08	10.08	10.08	10.07	10.06	10.01	9.96	9.90
60.0	8.72	9.26	9.71	10.08	10.37	10.60	10.77	10.88	10.95	10.97	10.99	10.99	10.99	10.98	10.95	10.91
65.0			10.41	10.82	11.15	11.42	11.63	11.78	11.89	11.92	11.96	11.99	12.00	12.02	12.03	12.02
70.0				11.58	11.97	12.28	12.54	12.74	12.89	12.94	13.00	13.05	13.09	13.15	13.19	13.23
75.0					12.80	13.18	13.49	13.74	13.94	14.02	14.11	14.18	14.24	14.35	14.44	
80.0							14.47	14.79	15.05	15.14	15.27	15.37	15.46	15.63		

Cond °C	Suction Mass Flow, g/s																
	-35.0	-30.0	-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	30.0	
15.0	6.79	8.19	9.76	11.55	13.60	16.00											
20.0	6.50	7.98	9.63	11.50	13.60	16.00	18.70	21.80									
25.0	6.22	7.78	9.48	11.40	13.55	15.95	18.75	21.80	25.40	26.90	29.30	31.40	33.70				
30.0	5.94	7.57	9.34	11.30	13.50	15.95	18.70	21.90	25.40	26.90	29.30	31.50	33.80	38.70			
35.0	5.66	7.37	9.19	11.20	13.40	15.90	18.70	21.80	25.40	26.90	29.40	31.50	33.80	38.70	44.20		
40.0	5.40	7.18	9.05	11.10	13.35	15.85	18.65	21.80	25.40	26.90	29.30	31.50	33.80	38.70	44.20	50.30	
45.0	5.16	7.00	8.92	11.00	13.25	15.75	18.60	21.70	25.30	26.80	29.30	31.50	33.70	38.70	44.20	50.30	
50.0	4.94	6.85	8.81	10.90	13.15	15.70	18.50	21.70	25.20	26.80	29.20	31.40	33.70	38.60	44.20	50.30	
55.0	4.76	6.73	8.73	10.85	13.10	15.60	18.40	21.60	25.10	26.60	29.10	31.30	33.50	38.50	44.10	50.20	
60.0	4.63	6.66	8.69	10.80	13.05	15.55	18.35	21.50	25.00	26.50	28.90	31.10	33.40	38.40	44.00	50.10	
65.0			8.71	10.80	13.05	15.50	18.25	21.30	24.80	26.40	28.80	31.00	33.20	38.20	43.80	50.00	
70.0				10.90	13.10	15.50	18.20	21.30	24.70	26.20	28.60	30.80	33.10	38.10	43.70	50.00	
75.0					13.25	15.60	18.25	21.20	24.60	26.10	28.50	30.70	33.00	38.00	43.60		
80.0							18.40	21.30	24.70	26.10	28.50	30.70	33.00	38.00			

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	8.40
Length/Width, mm	194/216
Height, mm	368
Net Weight, kg	17.5
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Drive Frequency Range, Hz	55 - 275
Compressor Speed Range, 1/min	1100 - 5500
Oil Quantity, l	0.74
Oil type (original charge)	Zerol RFL 68EP
Oil type (approved oils)	Zerol RFL 68EP
Base mounting (hole dia), mm	152 x 132 (0)
Sound Pressure @ 1m (HT), dBA	56
Sound Power (HT), dBA	67
Sound Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed)	-7 / 50 / 3 °C at 60 Hz
PED Category	1
Max. Low Side Internal Free Volume, l	2.0
Max. High Side Internal Free Volume, l	0.3
Max. Internal Free Volume, l	2.30
High Side PS gauge, bar	42
Low Side PS gauge, bar	21
Low Side TS Max., °C	50
Low Side TS Min., °C	-35
High Side TS Max., °C	150
High Side TS Min., °C	-35
Refrigerant's GWP	3
Refrigerant's classification	A3

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

Maximum Operating Current, A	23
Winding Resistance, ohm	0.58/0.58/0.58 (T1-T2/T2-T3/T3-T1)
Default Enclosure Class	Not Available

ACCESSORIES INCLUDED

ACCESSORIES OPTIONAL

MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
9E9	220-240 V / 1~ / 50 Hz	230	PSC		1.00