



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	3.43	4.24	5.18	6.29	7.57	9.06										
20.0	3.17	3.98	4.92	6.01	7.27	8.74	10.40	12.35								
25.0	2.94	3.74	4.66	5.73	6.97	8.40	10.05	11.95	14.10	15.00	16.50	17.85	19.25			
30.0	2.72	3.51	4.41	5.45	6.66	8.05	9.65	11.50	13.55	14.50	15.95	17.25	18.60	21.60		
35.0	2.51	3.29	4.17	5.18	6.35	7.70	9.25	11.00	13.05	13.95	15.35	16.60	17.95	20.90	24.10	
40.0	2.33	3.08	3.93	4.91	6.04	7.33	8.83	10.55	12.50	13.35	14.75	15.95	17.25	20.10	23.20	26.70
45.0	2.16	2.89	3.70	4.64	5.72	6.96	8.40	10.05	11.95	12.75	14.10	15.25	16.50	19.25	22.30	25.70
50.0	2.02	2.71	3.48	4.37	5.40	6.59	7.96	9.53	11.35	12.15	13.40	14.55	15.75	18.40	21.30	24.60
55.0	1.88	2.54	3.27	4.11	5.08	6.20	7.50	9.00	10.70	11.50	12.70	13.80	14.95	17.50	20.30	23.50
60.0	1.78	2.39	3.07	3.85	4.76	5.81	7.03	8.45	10.10	10.80	11.95	13.00	14.10	16.55	19.30	22.40
65.0			2.88	3.60	4.43	5.41	6.55	7.88	9.43	10.10	11.20	12.20	13.25	15.60	18.20	21.20
70.0				3.35	4.11	5.01	6.06	7.30	8.75	9.39	10.45	11.35	12.35	14.60	17.10	19.95
75.0					3.79	4.61	5.57	6.71	8.06	8.66	9.64	10.50	11.45	13.55	15.95	
80.0							5.08	6.12	7.37	7.93	8.83	9.66	10.55	12.55		

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	1.42	1.46	1.48	1.49	1.50	1.49										
20.0	1.54	1.59	1.62	1.64	1.66	1.66	1.66	1.64								
25.0	1.67	1.72	1.77	1.80	1.82	1.84	1.84	1.83	1.81	1.80	1.78	1.76	1.74			
30.0	1.80	1.86	1.92	1.97	2.01	2.03	2.04	2.04	2.02	2.02	2.00	1.98	1.96	1.92		
35.0	1.92	2.01	2.09	2.15	2.19	2.23	2.25	2.26	2.25	2.25	2.24	2.22	2.21	2.16	2.11	
40.0	2.06	2.17	2.26	2.33	2.39	2.44	2.47	2.49	2.50	2.50	2.49	2.48	2.47	2.44	2.39	2.32
45.0	2.20	2.33	2.43	2.53	2.60	2.67	2.71	2.75	2.76	2.77	2.77	2.76	2.76	2.73	2.69	2.63
50.0	2.35	2.49	2.62	2.73	2.83	2.91	2.97	3.02	3.05	3.06	3.06	3.06	3.06	3.05	3.01	2.97
55.0	2.51	2.67	2.82	2.95	3.06	3.16	3.24	3.30	3.35	3.36	3.38	3.39	3.39	3.39	3.36	3.33
60.0	2.67	2.86	3.03	3.18	3.32	3.43	3.53	3.61	3.67	3.69	3.72	3.73	3.74	3.75	3.74	3.71
65.0			3.25	3.43	3.58	3.72	3.84	3.94	4.02	4.04	4.08	4.10	4.12	4.14	4.15	4.13
70.0				3.69	3.87	4.03	4.16	4.28	4.38	4.42	4.46	4.49	4.52	4.56	4.58	4.58
75.0					4.17	4.35	4.51	4.65	4.77	4.82	4.87	4.91	4.95	5.01	5.04	
80.0							4.88	5.05	5.19	5.24	5.31	5.36	5.41	5.48		

Cond °C	Inverter Current at 400 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	3.89	3.71	3.55	3.40	3.27	3.15										
20.0	3.99	3.85	3.73	3.61	3.50	3.40	3.31	3.23								
25.0	4.10	4.01	3.92	3.84	3.76	3.68	3.61	3.54	3.47	3.44	3.40	3.37	3.34			
30.0	4.24	4.19	4.14	4.09	4.04	3.99	3.93	3.87	3.81	3.78	3.74	3.71	3.67	3.60		
35.0	4.39	4.39	4.39	4.37	4.35	4.32	4.28	4.23	4.18	4.15	4.11	4.08	4.04	3.96	3.87	
40.0	4.56	4.61	4.65	4.67	4.68	4.68	4.66	4.62	4.58	4.55	4.51	4.48	4.44	4.35	4.24	4.13
45.0	4.75	4.85	4.94	5.00	5.04	5.06	5.06	5.05	5.01	4.99	4.95	4.91	4.87	4.78	4.66	4.52
50.0	4.96	5.11	5.24	5.35	5.42	5.47	5.50	5.50	5.47	5.45	5.42	5.38	5.34	5.24	5.11	4.95
55.0	5.19	5.40	5.57	5.72	5.83	5.91	5.96	5.98	5.97	5.95	5.92	5.89	5.84	5.74	5.60	5.42
60.0	5.44	5.70	5.92	6.11	6.26	6.37	6.45	6.49	6.49	6.48	6.45	6.42	6.38	6.27	6.12	5.93
65.0			6.30	6.53	6.72	6.87	6.97	7.03	7.05	7.04	7.02	6.99	6.95	6.84	6.68	6.48
70.0				6.97	7.20	7.38	7.51	7.60	7.63	7.63	7.62	7.59	7.55	7.44	7.28	7.07
75.0					7.71	7.93	8.09	8.20	8.25	8.26	8.25	8.23	8.19	8.08	7.91	
80.0							8.69	8.82	8.90	8.91	8.91	8.89	8.86	8.75		

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	10.25	12.45	14.95	17.80	21.10	24.80										
20.0	9.87	12.15	14.75	17.65	21.00	24.80	29.10	33.90								
25.0	9.53	11.90	14.55	17.50	20.90	24.80	29.10	34.00	39.40	41.70	45.50	48.70	52.20			
30.0	9.21	11.65	14.35	17.40	20.80	24.70	29.10	34.00	39.50	41.80	45.60	48.90	52.30	59.80		
35.0	8.94	11.40	14.20	17.25	20.70	24.60	29.00	34.00	39.50	41.90	45.60	49.00	52.50	60.00	68.20	
40.0	8.71	11.25	14.05	17.15	20.60	24.60	29.00	33.90	39.50	41.90	45.70	49.00	52.50	60.10	68.40	77.50
45.0	8.54	11.10	13.90	17.05	20.50	24.50	28.90	33.90	39.40	41.80	45.70	49.00	52.50	60.20	68.50	77.70
50.0	8.43	11.05	13.85	16.95	20.50	24.40	28.80	33.80	39.40	41.80	45.60	49.00	52.50	60.20	68.60	77.90
55.0	8.41	11.00	13.80	16.90	20.40	24.30	28.70	33.70	39.20	41.60	45.50	48.90	52.40	60.10	68.60	78.00
60.0	8.50	11.10	13.85	16.90	20.30	24.20	28.60	33.50	39.10	41.50	45.30	48.70	52.30	60.00	68.60	78.10
65.0			13.95	16.95	20.30	24.10	28.40	33.30	38.90	41.30	45.10	48.50	52.10	59.90	68.60	78.20
70.0				17.10	20.30	24.00	28.30	33.10	38.60	41.00	44.90	48.30	51.90	59.80	68.60	78.30
75.0					20.40	24.00	28.20	32.90	38.40	40.80	44.70	48.10	51.80	59.70	68.60	
80.0							28.10	32.80	38.30	40.70	44.60	48.00	51.70	59.80		

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	12.8
Length/Width, mm	252/229
Height, mm	414
Net Weight, kg	28
Stub Suction, inch	7/8
Stub Discharge, inch	3/4
Drive Frequency Range, Hz	55 - 275
Compressor Speed Range, 1/min	1100 - 5500
Oil Quantity, l	1.18
Oil type (original charge)	Zerol RFL 68EP
Oil type (approved oils)	Zerol RFL 68EP
Sound Pressure @ 1m (HT), dBA	59
Sound Power (HT), dBA	70
Sound Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed)	-7 / 50 / 3 °C at 60 Hz
PED Category	2
Max. Low Side Internal Free Volume, l	3.8
Max. High Side Internal Free Volume, l	0.6
Max. Internal Free Volume, l	4.40
High Side PS gauge, bar	42
Low Side PS gauge, bar	30
Low Side TS Max., °C	70
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 (380-420 V / 3~ / 50 Hz)

Maximum Operating Current, A	25
Winding Resistance, ohm	0.5/0.5/0.5 (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
4E9	380-420 V / 3~ / 50 Hz	400	Y		1.00