



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	1.60	1.93	2.33	2.79	3.33	3.96										
20.0	1.37	1.70	2.09	2.54	3.07	3.68	4.38	5.20								
25.0	1.19	1.52	1.90	2.34	2.84	3.43	4.11	4.90	5.80	6.20	6.83	7.39	7.99			
30.0	1.04	1.38	1.74	2.17	2.66	3.23	3.88	4.63	5.50	5.88	6.49	7.03	7.61	8.88		
35.0	0.93	1.26	1.62	2.03	2.50	3.04	3.67	4.40	5.23	5.59	6.18	6.70	7.25	8.47	9.84	
40.0	0.83	1.15	1.50	1.90	2.36	2.88	3.49	4.18	4.98	5.32	5.88	6.39	6.92	8.09	9.41	10.90
45.0	0.74	1.06	1.41	1.80	2.23	2.73	3.31	3.97	4.73	5.07	5.60	6.08	6.60	7.72	8.98	10.40
50.0	0.66	0.97	1.32	1.68	2.11	2.59	3.14	3.77	4.50	4.82	5.33	5.79	6.28	7.35	8.57	9.93
55.0	0.57	0.88	1.22	1.58	1.98	2.44	2.96	3.57	4.26	4.56	5.05	5.49	5.96	6.98	8.15	9.46
60.0	0.46	0.77	1.10	1.45	1.84	2.28	2.78	3.35	4.01	4.30	4.76	5.18	5.62	6.60	7.72	8.97
65.0			0.96	1.30	1.68	2.09	2.57	3.11	3.73	4.01	4.45	4.85	5.27	6.21	7.27	8.47
70.0				1.12	1.48	1.88	2.33	2.84	3.43	3.69	4.11	4.49	4.89	5.78	6.80	7.95
75.0					1.24	1.62	2.05	2.54	3.10	3.34	3.74	4.10	4.48	5.33	6.30	
80.0							1.72	2.18	2.71	2.95	3.32	3.66	4.03	4.83		

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	0.51	0.52	0.53	0.53	0.53	0.52										
20.0	0.59	0.61	0.63	0.63	0.64	0.63	0.62	0.60								
25.0	0.66	0.69	0.71	0.72	0.73	0.73	0.72	0.71	0.69	0.68	0.66	0.64	0.63			
30.0	0.73	0.76	0.79	0.81	0.82	0.83	0.82	0.82	0.80	0.79	0.78	0.77	0.75	0.72		
35.0	0.79	0.83	0.86	0.89	0.91	0.92	0.92	0.92	0.91	0.90	0.89	0.88	0.87	0.84	0.80	
40.0	0.85	0.90	0.94	0.97	0.99	1.01	1.02	1.02	1.02	1.02	1.01	1.00	0.99	0.96	0.93	0.90
45.0	0.92	0.97	1.01	1.04	1.08	1.10	1.12	1.12	1.12	1.12	1.12	1.12	1.11	1.09	1.06	1.03
50.0	0.98	1.04	1.08	1.13	1.16	1.20	1.22	1.23	1.24	1.24	1.24	1.24	1.23	1.22	1.20	1.17
55.0	1.06	1.12	1.17	1.22	1.26	1.30	1.32	1.34	1.36	1.36	1.36	1.36	1.36	1.36	1.34	1.32
60.0	1.14	1.20	1.27	1.32	1.36	1.40	1.44	1.46	1.48	1.48	1.50	1.50	1.50	1.50	1.49	1.48
65.0			1.37	1.43	1.48	1.52	1.56	1.60	1.62	1.63	1.64	1.64	1.65	1.66	1.65	1.64
70.0				1.56	1.61	1.66	1.71	1.74	1.78	1.78	1.80	1.81	1.82	1.82	1.83	1.82
75.0					1.76	1.82	1.86	1.91	1.94	1.96	1.98	1.98	2.00	2.01	2.02	
80.0							2.05	2.10	2.14	2.15	2.17	2.19	2.20	2.22		

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	3.00	3.06	3.10	3.10	3.08	3.02										
20.0	3.14	3.21	3.25	3.26	3.25	3.20	3.12	3.01								
25.0	3.31	3.39	3.43	3.45	3.44	3.40	3.33	3.23	3.10	3.04	2.94	2.85	2.75			
30.0	3.49	3.58	3.64	3.67	3.66	3.63	3.57	3.48	3.36	3.30	3.21	3.12	3.03	2.82		
35.0	3.70	3.80	3.86	3.90	3.91	3.89	3.84	3.76	3.65	3.60	3.51	3.43	3.35	3.15	2.92	
40.0	3.92	4.03	4.11	4.17	4.19	4.18	4.14	4.08	3.98	3.93	3.85	3.78	3.70	3.51	3.30	3.05
45.0	4.17	4.29	4.39	4.45	4.49	4.50	4.47	4.42	4.34	4.30	4.23	4.16	4.08	3.91	3.71	3.48
50.0	4.43	4.57	4.68	4.77	4.82	4.84	4.83	4.80	4.73	4.69	4.63	4.57	4.51	4.35	4.17	3.95
55.0	4.72	4.87	5.00	5.10	5.17	5.21	5.22	5.20	5.15	5.13	5.08	5.02	4.97	4.83	4.66	4.47
60.0	5.02	5.20	5.34	5.46	5.55	5.61	5.64	5.64	5.61	5.59	5.55	5.51	5.46	5.35	5.20	5.02
65.0			5.71	5.85	5.96	6.04	6.09	6.11	6.10	6.09	6.06	6.03	6.00	5.90	5.77	5.62
70.0				6.26	6.39	6.50	6.57	6.61	6.63	6.62	6.61	6.59	6.57	6.49	6.39	6.25
75.0					6.85	6.98	7.08	7.15	7.18	7.19	7.19	7.19	7.17	7.12	7.04	
80.0							7.62	7.71	7.77	7.79	7.81	7.82	7.82	7.79		

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	4.77	5.68	6.71	7.91	9.28	10.85										
20.0	4.27	5.21	6.27	7.48	8.86	10.45	12.25	14.25								
25.0	3.87	4.84	5.93	7.15	8.54	10.10	11.90	13.95	16.25	17.25	18.80	20.20	21.70			
30.0	3.55	4.56	5.67	6.91	8.31	9.89	11.70	13.70	16.00	17.00	18.55	19.95	21.40	24.60		
35.0	3.30	4.36	5.50	6.75	8.16	9.75	11.55	13.55	15.80	16.80	18.35	19.75	21.20	24.40	27.90	
40.0	3.11	4.21	5.38	6.65	8.07	9.66	11.45	13.45	15.70	16.70	18.25	19.60	21.10	24.20	27.70	31.60
45.0	2.93	4.09	5.29	6.59	8.02	9.61	11.40	13.40	15.65	16.65	18.20	19.55	21.00	24.10	27.60	31.50
50.0	2.75	3.97	5.22	6.55	7.99	9.59	11.35	13.35	15.60	16.60	18.15	19.50	20.90	24.10	27.50	31.40
55.0	2.53	3.82	5.12	6.48	7.95	9.55	11.35	13.35	15.60	16.55	18.10	19.45	20.90	24.00	27.50	31.40
60.0	2.20	3.59	4.95	6.36	7.85	9.48	11.25	13.30	15.50	16.50	18.05	19.40	20.80	24.00	27.50	31.30
65.0			4.66	6.13	7.66	9.31	11.15	13.15	15.40	16.35	17.90	19.30	20.70	23.90	27.40	31.30
70.0				5.71	7.30	9.00	10.85	12.90	15.15	16.15	17.70	19.10	20.50	23.70	27.30	31.20
75.0					6.68	8.45	10.35	12.45	14.75	15.75	17.35	18.75	20.20	23.50	27.10	
80.0							9.52	11.70	14.10	15.15	16.75	18.20	19.75	23.00		

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	5.21
Length/Width, mm	194/216
Height, mm	368
Net Weight, kg	17
Gross 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
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	22
Winding Resistance, ohm	0.83/0.83/0.83 (T1-T2/T2-T3/T3-T1)
Default Enclosure Class	Not Available

ACCESSORIES INCLUDED**ACCESSORIES OPTIONAL**

50 1/s

YHV029RG-9X9

R290

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>
9X9	220-240 V / 1~ / 50 Hz	230			1.00