



Minimum Evaporating Temp. With:

- 5 K Suction Superheat OEM envelope
- 10 K Suction Superheat
- Maximum Evaporating Temperature

Drive Frequency Range 60 - 360 Hz

Suction Superheat 11.1K

Compressor Speed 50 1/s

Liquid Subcooling 8.3K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW														
	-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	7.65	9.35	11.40	13.85	16.75										
20.0	7.03	8.63	10.55	12.90	15.60	18.80	22.50								
25.0	6.52	8.04	9.88	12.05	14.65	17.65	21.10	25.10	26.80	29.60					
30.0	6.11	7.56	9.29	11.35	13.80	16.60	19.90	23.70	25.30	28.00	30.40	32.90	38.40		
35.0	5.76	7.14	8.79	10.75	13.05	15.70	18.85	22.40	24.00	26.50	28.70	31.10	36.30	42.20	
40.0	5.45	6.78	8.35	10.20	12.35	14.90	17.85	21.20	22.70	25.10	27.20	29.50	34.40	40.00	46.20
45.0	5.14	6.43	7.93	9.68	11.75	14.15	16.90	20.10	21.50	23.80	25.80	27.90	32.60	37.90	43.90
50.0	4.81	6.06	7.51	9.18	11.15	13.40	16.05	19.05	20.40	22.50	24.40	26.50	30.90	36.00	41.60
55.0	4.43	5.66	7.06	8.66	10.50	12.65	15.15	18.00	19.25	21.30	23.10	25.00	29.30	34.00	39.40
60.0			6.54	8.09	9.86	11.90	14.25	16.95	18.15	20.10	21.80	23.60	27.60	32.20	37.30
65.0				7.44	9.13	11.10	13.30	15.90	17.00	18.80	20.40	22.20	26.00	30.30	35.10
70.0					8.31	10.15	12.30	14.75	15.80	17.50	19.05	20.70	24.30	28.40	33.00
75.0						9.15	11.20	13.50	14.50	16.15	17.60	19.20	22.60	26.50	
80.0							9.94	12.15	13.15	14.70	16.10	17.60	20.90		
82.0								9.40	11.60	12.55	14.10	15.45	16.90		

Cond °C	Power, kW														
	-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	2.50	2.53	2.50	2.42	2.29										
20.0	2.79	2.84	2.84	2.80	2.70	2.56	2.35								
25.0	3.08	3.15	3.17	3.16	3.10	2.99	2.83	2.61	2.51	2.34					
30.0	3.38	3.46	3.50	3.51	3.48	3.40	3.28	3.10	3.02	2.88	2.74	2.59	2.25		
35.0	3.71	3.79	3.85	3.87	3.86	3.81	3.72	3.58	3.51	3.39	3.28	3.16	2.86	2.51	
40.0	4.08	4.16	4.22	4.25	4.26	4.23	4.16	4.05	4.00	3.90	3.81	3.70	3.45	3.15	2.79
45.0	4.49	4.57	4.63	4.67	4.68	4.66	4.62	4.53	4.49	4.41	4.34	4.25	4.04	3.78	3.47
50.0	4.97	5.04	5.09	5.13	5.14	5.14	5.10	5.04	5.00	4.94	4.88	4.80	4.63	4.41	4.14
55.0	5.53	5.58	5.62	5.64	5.66	5.65	5.62	5.57	5.54	5.49	5.44	5.38	5.23	5.04	4.81
60.0			6.22	6.23	6.23	6.23	6.20	6.15	6.13	6.08	6.04	5.99	5.86	5.70	5.50
65.0				6.90	6.89	6.87	6.84	6.79	6.77	6.73	6.69	6.64	6.53	6.39	6.22
70.0					7.63	7.60	7.56	7.51	7.48	7.44	7.40	7.36	7.26	7.13	6.98
75.0						8.42	8.36	8.30	8.27	8.23	8.19	8.15	8.05	7.93	
80.0							9.27	9.19	9.16	9.11	9.07	9.02	8.92		
82.0								9.67	9.58	9.54	9.49	9.44	9.39		

Cond °C	Inverter Current at 400 V, A														
	-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	4.29	4.24	4.11	3.91	3.63										
20.0	4.80	4.81	4.75	4.62	4.42	4.14	3.77								
25.0	5.27	5.32	5.32	5.25	5.12	4.92	4.63	4.27	4.10	3.81					
30.0	5.73	5.81	5.85	5.83	5.76	5.62	5.41	5.12	4.99	4.75	4.54	4.29	3.74		
35.0	6.19	6.30	6.36	6.39	6.36	6.28	6.13	5.91	5.80	5.62	5.44	5.24	4.77	4.21	
40.0	6.69	6.81	6.90	6.95	6.96	6.91	6.81	6.65	6.57	6.42	6.28	6.11	5.73	5.25	4.69
45.0	7.26	7.37	7.47	7.54	7.57	7.55	7.49	7.37	7.31	7.20	7.08	6.95	6.63	6.23	5.75
50.0	7.91	8.02	8.11	8.18	8.22	8.23	8.19	8.11	8.06	7.97	7.88	7.77	7.51	7.17	6.76
55.0	8.69	8.77	8.85	8.91	8.95	8.96	8.94	8.88	8.84	8.77	8.69	8.61	8.39	8.10	7.74
60.0			9.71	9.75	9.78	9.78	9.76	9.71	9.68	9.62	9.56	9.48	9.29	9.05	8.74
65.0				10.72	10.73	10.72	10.69	10.63	10.60	10.55	10.49	10.42	10.25	10.04	9.76
70.0					11.83	11.79	11.74	11.67	11.64	11.58	11.52	11.46	11.30	11.09	10.84
75.0						13.03	12.95	12.85	12.81	12.74	12.68	12.61	12.45	12.25	
80.0							14.34	14.21	14.15	14.07	13.99	13.91	13.73		
82.0							14.95	14.80	14.74	14.65	14.57	14.48			

Cond °C	Suction Mass Flow, g/s														
	-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	22.50	27.00	32.30	38.60	45.80										
20.0	21.40	25.90	31.10	37.20	44.30	52.40	61.60								
25.0	20.70	25.10	30.20	36.20	43.10	51.10	60.10	70.30	74.70	81.60					
30.0	20.30	24.60	29.60	35.50	42.30	50.10	58.90	68.90	73.20	80.00	86.10	92.40	106.00		
35.0	20.00	24.30	29.30	35.10	41.70	49.40	58.00	67.80	72.00	78.80	84.70	91.00	104.50	119.50	
40.0	19.90	24.20	29.20	34.90	41.40	48.90	57.40	67.00	71.20	77.80	83.70	89.80	103.00	118.00	134.00
45.0	19.80	24.20	29.10	34.80	41.30	48.70	57.00	66.50	70.60	77.10	82.90	88.90	102.00	116.50	132.50
50.0	19.60	24.10	29.10	34.80	41.20	48.50	56.80	66.10	70.20	76.60	82.30	88.30	101.50	115.50	131.50
55.0	19.25	23.90	29.00	34.80	41.20	48.50	56.70	65.90	69.90	76.30	81.90	87.80	100.50	115.00	130.50
60.0			28.70	34.60	41.10	48.30	56.50	65.70	69.70	76.00	81.60	87.50	100.50	114.50	130.00
65.0				34.00	40.70	48.00	56.30	65.50	69.40	75.70	81.30	87.20	100.00	114.00	129.50
70.0					39.90	47.40	55.80	65.10	69.10	75.40	81.00	86.90	99.70	114.00	129.50
75.0						46.20	54.90	64.40	68.40	74.90	80.60	86.60	99.50	114.00	
80.0							53.30	63.20	67.50	74.10	80.00	86.20	99.40		
82.0							52.40	62.60	66.90	73.70	79.70	86.00			

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	21.4
Length/Width, mm	267/246
Height, mm	559
Net Weight, kg	42
Gross Weight, kg	44.5
Drive Frequency Range, Hz	60 - 360
Compressor Speed Range, 1/min	1200 - 7200
Oil Quantity, l	2.51
Oil type (original charge)	Zerol RFL 68EP
Oil type (approved oils)	Zerol RFL 68EP
Sound Pressure @ 1m (HT), dBA	69
Sound Power (HT), dBA	80
Sound Power with Sound Shell (HT), dBA	75
Sound Conditions (HT, Temperatures:	-7 / 50 / 3 °C at 75 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	3
Max. Low Side Internal Free Volume, l	8.4
Max. High Side Internal Free Volume, l	0.99
Max. Internal Free Volume, l	9.40
High Side PS gauge, bar	42
Low Side PS gauge, bar	25
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)

Default Enclosure Class	IP 54 (IEC 34)
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ACCESSORIES INCLUDED

ACCESSORIES OPTIONAL

MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
4X9	380-420 V / 3~ / 50 Hz	400	Y		1.00