



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	2.43	2.45	2.41	2.33	2.19										
20.0	2.71	2.75	2.75	2.70	2.60	2.45	2.25								
25.0	3.00	3.05	3.07	3.05	2.99	2.88	2.72	2.51	2.41	2.24					
30.0	3.29	3.36	3.40	3.40	3.36	3.29	3.17	3.00	2.91	2.77	2.64	2.49	2.15		
35.0	3.61	3.68	3.73	3.75	3.74	3.69	3.60	3.47	3.40	3.29	3.18	3.05	2.76	2.42	
40.0	3.97	4.04	4.10	4.13	4.13	4.10	4.04	3.93	3.88	3.79	3.70	3.59	3.35	3.06	2.70
45.0	4.37	4.44	4.49	4.53	4.54	4.53	4.48	4.41	4.36	4.29	4.22	4.13	3.93	3.68	3.37
50.0	4.84	4.90	4.94	4.98	4.99	4.99	4.96	4.90	4.86	4.80	4.74	4.67	4.50	4.29	4.03
55.0	5.38	5.42	5.45	5.48	5.49	5.49	5.46	5.42	5.39	5.34	5.29	5.23	5.09	4.91	4.68
60.0			6.04	6.05	6.05	6.04	6.02	5.98	5.96	5.92	5.87	5.82	5.70	5.55	5.35
65.0				6.70	6.69	6.67	6.64	6.60	6.58	6.54	6.50	6.46	6.35	6.22	6.05
70.0					7.41	7.37	7.33	7.28	7.26	7.22	7.19	7.14	7.05	6.93	6.78
75.0						8.17	8.11	8.05	8.02	7.98	7.94	7.90	7.80	7.69	
80.0							8.98	8.90	8.87	8.82	8.78	8.73	8.63		
82.0								9.36	9.27	9.24	9.18	9.14	9.09		

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	7.48	7.63	7.63	7.47	7.12										
20.0	8.16	8.38	8.46	8.40	8.18	7.78	7.19								
25.0	8.86	9.12	9.26	9.28	9.16	8.88	8.43	7.80	7.49	6.96					
30.0	9.61	9.89	10.08	10.16	10.11	9.93	9.60	9.11	8.86	8.43	8.02	7.56	6.48		
35.0	10.46	10.74	10.95	11.06	11.08	10.97	10.74	10.36	10.16	9.82	9.49	9.11	8.20	7.10	
40.0	11.45	11.71	11.91	12.04	12.09	12.04	11.89	11.60	11.45	11.18	10.91	10.60	9.85	8.91	7.78
45.0	12.62	12.83	13.00	13.13	13.20	13.18	13.08	12.87	12.75	12.53	12.32	12.07	11.45	10.67	9.71
50.0	14.00	14.14	14.27	14.37	14.43	14.43	14.35	14.19	14.10	13.93	13.76	13.56	13.05	12.40	11.59
55.0	15.64	15.69	15.75	15.80	15.83	15.82	15.76	15.63	15.55	15.41	15.27	15.11	14.69	14.15	13.47
60.0			17.48	17.46	17.44	17.40	17.32	17.20	17.14	17.02	16.90	16.76	16.41	15.95	15.38
65.0				19.39	19.30	19.20	19.09	18.96	18.89	18.78	18.67	18.55	18.24	17.85	17.37
70.0					21.44	21.27	21.11	20.94	20.86	20.74	20.64	20.52	20.24	19.89	19.47
75.0						23.64	23.40	23.18	23.09	22.95	22.83	22.70	22.42	22.10	
80.0							26.02	25.72	25.60	25.43	25.29	25.15	24.85		
82.0								27.17	26.83	26.70	26.51	26.36	26.20		

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 <sup>3</sup> /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**

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