



Minimum Evaporating Temp. With:

- 10 K Suction Superheat
- Maximum Evaporating Temperature

Drive Frequency Range 45 - 351 Hz

Suction Superheat 10.0K

Compressor Speed 50 1/s

Liquid Subcooling 0.0K

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	
17.0	3.21	3.81	4.51	5.31	6.22										
20.0	3.08	3.70	4.40	5.21	6.13	7.17									
25.0	2.89	3.53	4.26	5.08	6.00	7.04	8.19								
30.0	2.74	3.39	4.13	4.96	5.88	6.92	8.06	9.33	9.88	10.75					
35.0	2.61	3.28	4.03	4.86	5.78	6.80	7.94	9.19	9.71	10.55	11.30	12.05	13.70		
40.0	2.51	3.19	3.94	4.77	5.68	6.69	7.80	9.02	9.54	10.35	11.10	11.85	13.45	15.20	
45.0		3.12	3.87	4.68	5.58	6.57	7.65	8.85	9.36	10.15	10.85	11.60	13.15	14.85	
50.0		3.05	3.79	4.59	5.47	6.44	7.50	8.65	9.14	9.91	10.60	11.30	12.80	14.45	
55.0			3.71	4.50	5.35	6.29	7.31	8.43	8.91	9.66	10.30	11.00	12.45	14.00	
60.0				4.38	5.22	6.12	7.10	8.18	8.64	9.34	9.97	10.60	12.00	13.50	
65.0					5.05	5.91	6.85	7.87	8.31	8.98	9.58	10.20			
68.0					4.92	5.76	6.67	7.65	8.07	8.73					

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
17.0	1.27	1.25	1.22	1.18	1.12									
20.0	1.40	1.38	1.36	1.32	1.28	1.21								
25.0	1.60	1.58	1.56	1.54	1.51	1.46	1.38							
30.0	1.78	1.76	1.75	1.74	1.72	1.69	1.64	1.55	1.50	1.42				
35.0	1.95	1.94	1.94	1.94	1.93	1.92	1.88	1.82	1.78	1.72	1.66	1.58	1.38	
40.0	2.13	2.12	2.13	2.14	2.15	2.14	2.13	2.09	2.06	2.02	1.96	1.90	1.74	1.52
45.0		2.33	2.34	2.36	2.38	2.39	2.39	2.38	2.36	2.33	2.29	2.25	2.12	1.94
50.0		2.58	2.59	2.61	2.64	2.67	2.69	2.70	2.69	2.67	2.65	2.62	2.52	2.38
55.0			2.88	2.91	2.95	3.00	3.03	3.06	3.06	3.06	3.05	3.03	2.97	2.86
60.0				3.27	3.32	3.38	3.44	3.48	3.50	3.51	3.51	3.51	3.48	3.40
65.0					3.78	3.85	3.93	4.00	4.02	4.04	4.06	4.07		
68.0					4.11	4.20	4.28	4.36	4.39	4.43				

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
17.0	1.93	1.84	1.74	1.64	1.53									
20.0	2.17	2.08	2.00	1.92	1.81	1.69								
25.0	2.50	2.43	2.36	2.30	2.23	2.13	1.99							
30.0	2.78	2.71	2.67	2.63	2.58	2.51	2.41	2.26	2.19	2.05				
35.0	3.02	2.97	2.94	2.92	2.90	2.86	2.79	2.69	2.62	2.52	2.41	2.29	1.98	
40.0	3.26	3.23	3.22	3.22	3.23	3.22	3.18	3.11	3.06	2.98	2.90	2.80	2.53	2.18
45.0		3.52	3.53	3.55	3.58	3.60	3.60	3.56	3.54	3.48	3.41	3.34	3.12	2.82
50.0		3.87	3.90	3.94	3.99	4.04	4.08	4.08	4.06	4.03	3.99	3.94	3.77	3.53
55.0			4.36	4.42	4.50	4.58	4.65	4.69	4.70	4.69	4.67	4.64	4.52	4.33
60.0				5.03	5.14	5.25	5.35	5.44	5.46	5.47	5.48	5.47	5.40	5.26
65.0					5.96	6.10	6.24	6.36	6.41	6.44	6.47	6.49		
68.0					6.57	6.73	6.90	7.03	7.09	7.15				

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
17.0	16.50	19.35	22.70	26.50	30.80									
20.0	15.80	18.80	22.20	26.00	30.40	35.20								
25.0	14.85	18.00	21.50	25.40	29.70	34.60	40.00							
30.0	14.10	17.30	20.90	24.80	29.20	34.10	39.50	45.40	48.00	52.00				
35.0	13.45	16.75	20.40	24.30	28.70	33.60	38.90	44.80	47.30	51.30	54.80	58.40	66.30	
40.0	12.95	16.30	19.95	23.90	28.30	33.10	38.30	44.10	46.60	50.50	53.90	57.50	65.20	73.70
45.0		15.90	19.55	23.50	27.80	32.50	37.70	43.40	45.80	49.60	53.00	56.50	64.00	72.30
50.0		15.60	19.20	23.10	27.40	32.00	37.10	42.60	45.00	48.70	51.90	55.30	62.70	70.70
55.0			18.85	22.70	26.90	31.40	36.30	41.70	44.00	47.60	50.80	54.10	61.20	69.10
60.0				22.30	26.30	30.70	35.50	40.70	42.90	46.40	49.50	52.70	59.60	67.20
65.0					25.70	29.90	34.50	39.60	41.70	45.10	48.00	51.10		
68.0					25.30	29.40	33.90	38.80	40.90	44.20				

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	5.30
Length/Width, mm	245/249
Height, mm	390
Net Weight, kg	19.5
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Stub Injection, inch	3/8
Drive Frequency Range, Hz	45 - 351
Compressor Speed Range, 1/min	900 - 7020
Oil Quantity, l	1.39
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF
Base mounting (hole dia), mm	190 x 190 (0)
Sound Pressure @ 1m (HT), dBA	64
Sound Power (HT), dBA	75
Sound Conditions (HT, Temperatures:	-7 / 50 / 3 °C at 75 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	I
High Side PS gauge, bar	46
Low Side PS gauge, bar	28
Low Side TS Max., °C	50
Refrigerant's GWP	2088
Refrigerant's classification	A1

**COMPRESSOR ELECTRICAL DATA (380-420 V / 3~ / 50 Hz)**

Winding Resistance, ohm	0.2/0.2/0.2 (T1-T2/T2-T3/T3-T1)
Default Enclosure Class	Not Available

**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>
2E9	380-420 V / 3~ / 50 Hz	400	Y		1.00