



Minimum Evaporating Temp. With:

- 10 K Suction Superheat - - - Maximal Envelope (If greater than operating envelope)
- Maximum Evaporating Temperature

Drive Frequency Range 45 - 360 Hz

Suction Superheat 10.0K

Compressor Speed 100 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
15.0	3.48	4.25	5.21	6.35	7.68	9.23	11.00						
20.0	3.33	4.06	4.97	6.05	7.33	8.81	10.50	12.45	13.25	14.60			
25.0	3.18	3.88	4.74	5.77	6.98	8.40	10.00	11.85	12.65	13.95	15.10	16.25	
30.0	3.03	3.69	4.50	5.48	6.63	7.98	9.53	11.30	12.05	13.30	14.35	15.50	
35.0	2.88	3.50	4.26	5.18	6.28	7.56	9.03	10.70	11.45	12.60	13.65	14.75	
40.0	2.72	3.30	4.01	4.88	5.91	7.13	8.53	10.15	10.85	11.95	12.95	14.00	
45.0		3.09	3.75	4.57	5.54	6.68	8.00	9.52	10.20	11.25	12.20	13.20	
50.0			3.48	4.23	5.14	6.21	7.46	8.90	9.52	10.55	11.40	12.35	
55.0			3.18	3.88	4.72	5.72	6.89	8.23	8.82	9.77	10.60	11.50	
60.0				3.49	4.26	5.19	6.27	7.52	8.07	8.95	9.74	10.60	
65.0					3.75	4.58	5.57	6.72	7.22	8.03			
68.0													

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
15.0	1.53	1.56	1.57	1.57	1.56	1.52	1.48						
20.0	1.68	1.72	1.74	1.74	1.74	1.72	1.68	1.64	1.61	1.57			
25.0	1.83	1.88	1.91	1.93	1.93	1.92	1.89	1.85	1.83	1.80	1.76	1.72	
30.0	1.98	2.04	2.09	2.11	2.13	2.12	2.11	2.07	2.05	2.02	1.99	1.96	
35.0	2.13	2.21	2.26	2.30	2.33	2.33	2.32	2.30	2.29	2.26	2.23	2.20	
40.0	2.29	2.38	2.45	2.50	2.53	2.55	2.55	2.54	2.53	2.51	2.48	2.46	
45.0		2.55	2.63	2.70	2.75	2.78	2.79	2.79	2.78	2.76	2.74	2.72	
50.0			2.83	2.91	2.97	3.01	3.04	3.04	3.04	3.03	3.02	3.00	
55.0			3.03	3.13	3.20	3.26	3.30	3.32	3.32	3.32	3.31	3.30	
60.0				3.36	3.45	3.52	3.57	3.60	3.61	3.61	3.61	3.61	
65.0					3.70	3.79	3.86	3.90	3.92	3.93			
68.0													

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
15.0	2.59	2.63	2.65	2.63	2.59	2.53	2.43						
20.0	2.69	2.75	2.79	2.79	2.78	2.73	2.66	2.56	2.52	2.44			
25.0	2.81	2.89	2.95	2.98	2.98	2.96	2.91	2.83	2.79	2.73	2.67	2.60	
30.0	2.95	3.05	3.13	3.18	3.21	3.20	3.18	3.12	3.09	3.04	2.99	2.94	
35.0	3.11	3.24	3.34	3.41	3.45	3.48	3.47	3.44	3.42	3.38	3.34	3.29	
40.0	3.30	3.44	3.56	3.66	3.73	3.77	3.78	3.77	3.76	3.74	3.71	3.67	
45.0		3.68	3.82	3.93	4.02	4.09	4.12	4.13	4.13	4.12	4.10	4.08	
50.0			4.10	4.23	4.35	4.43	4.49	4.52	4.53	4.53	4.52	4.51	
55.0			4.40	4.56	4.69	4.80	4.88	4.93	4.95	4.96	4.96	4.96	
60.0				4.91	5.07	5.20	5.30	5.37	5.40	5.42	5.44	5.44	
65.0					5.47	5.62	5.74	5.84	5.87	5.91			
68.0													

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
15.0	17.85	21.60	26.10	31.40	37.60	44.70	52.80						
20.0	17.80	21.50	25.90	31.20	37.40	44.50	52.50	61.60	65.50	71.70			
25.0	17.80	21.40	25.80	31.00	37.20	44.20	52.20	61.20	65.10	71.30	76.80	82.60	
30.0	17.80	21.40	25.70	30.90	37.00	43.90	51.90	60.90	64.80	71.00	76.50	82.30	
35.0	17.85	21.30	25.60	30.70	36.80	43.70	51.70	60.70	64.60	70.80	76.30	82.10	
40.0	17.85	21.30	25.50	30.60	36.60	43.50	51.40	60.40	64.30	70.60	76.10	81.90	
45.0		21.20	25.40	30.40	36.30	43.30	51.20	60.20	64.10	70.40	75.90	81.70	
50.0			25.20	30.20	36.10	43.00	50.90	60.00	63.90	70.20	75.80	81.60	
55.0			25.00	29.90	35.80	42.70	50.70	59.80	63.80	70.10	75.70	81.70	
60.0				29.60	35.50	42.40	50.50	59.70	63.70	70.10	75.80	81.90	
65.0					35.10	42.20	50.30	59.70	63.80	70.40			
68.0													

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	3.24
Length/Width, mm	194/216
Height, mm	335
Net Weight, kg	14.7
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Drive Frequency Range, Hz	45 - 360
Compressor Speed Range, 1/min	900 - 7200
Oil Quantity, l	0.74
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF
Sound Pressure @ 1m (HT), dBA	60
Sound Power (HT), dBA	71
Sound Conditions (HT, Temperatures:	-7 / 50 / 3 °C at 75 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	I
Max. Internal Free Volume, l	2.90
High Side PS gauge, bar	52
Low Side PS gauge, bar	28
Refrigerant's GWP	2088
Refrigerant's classification	A1

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

Maximum Operating Current, A	9.5
Locked Rotor Current, A	19.1
Winding Resistance, ohm	1.14/1.14/1.14 (T1-T2/T2-T3/T3-T1)
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Inverter	Ruking ED3013B
Inverter	Ruking ED3015A

ACCESSORIES OPTIONAL**MOTOR OPTIONS**

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
9E9	380-420 V / 3~ / 50 Hz	400	Y		1.00