



Minimum Evaporating Temp. With:

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

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	6.65	8.29	10.30	12.75	15.60	18.85	22.60						
20.0	6.44	8.01	9.94	12.25	15.00	18.15	21.80	25.90	27.70	30.60			
25.0	6.22	7.71	9.54	11.75	14.35	17.40	20.90	24.90	26.60	29.40	31.80	34.40	
30.0	5.99	7.38	9.12	11.25	13.70	16.65	20.00	23.80	25.50	28.10	30.50	32.90	
35.0	5.73	7.04	8.68	10.65	13.05	15.80	19.00	22.70	24.30	26.80	29.10	31.50	
40.0	5.45	6.67	8.21	10.10	12.35	14.95	18.00	21.50	23.00	25.50	27.60	29.90	
45.0		6.28	7.71	9.47	11.60	14.10	17.00	20.30	21.80	24.10	26.20	28.30	
50.0			7.19	8.83	10.80	13.15	15.90	19.05	20.40	22.60	24.60	26.70	
55.0				8.14	9.97	12.15	14.75	17.70	19.00	21.10	22.90	24.90	
60.0					9.08	11.10	13.50	16.25	17.45	19.40	21.20	23.00	
65.0													
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	2.82	2.89	2.95	3.01	3.06	3.11	3.15						
20.0	3.11	3.20	3.27	3.34	3.41	3.47	3.52	3.56	3.58	3.60			
25.0	3.41	3.51	3.60	3.69	3.77	3.84	3.90	3.95	3.97	4.00	4.02	4.03	
30.0	3.71	3.83	3.95	4.05	4.14	4.22	4.30	4.36	4.38	4.42	4.44	4.46	
35.0	4.02	4.17	4.30	4.42	4.53	4.63	4.72	4.79	4.82	4.86	4.89	4.91	
40.0	4.35	4.52	4.67	4.82	4.94	5.06	5.17	5.26	5.29	5.33	5.37	5.40	
45.0		4.89	5.07	5.23	5.38	5.52	5.64	5.75	5.79	5.84	5.88	5.92	
50.0			5.49	5.68	5.85	6.01	6.15	6.28	6.32	6.39	6.44	6.48	
55.0				6.15	6.35	6.53	6.70	6.85	6.90	6.97	7.03	7.09	
60.0					6.89	7.10	7.29	7.46	7.52	7.61	7.67	7.74	
65.0													
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	5.08	5.20	5.33	5.47	5.63	5.82	6.05						
20.0	5.29	5.42	5.56	5.70	5.86	6.04	6.26	6.52	6.63	6.82			
25.0	5.56	5.71	5.85	6.00	6.16	6.33	6.54	6.78	6.89	7.06	7.22	7.39	
30.0	5.89	6.05	6.20	6.36	6.52	6.69	6.89	7.12	7.22	7.39	7.53	7.70	
35.0	6.27	6.45	6.62	6.78	6.95	7.12	7.32	7.54	7.63	7.79	7.93	8.08	
40.0	6.71	6.91	7.10	7.27	7.44	7.62	7.81	8.03	8.12	8.27	8.40	8.54	
45.0		7.43	7.63	7.82	8.01	8.19	8.39	8.59	8.68	8.83	8.95	9.09	
50.0			8.23	8.44	8.64	8.83	9.03	9.24	9.33	9.46	9.59	9.72	
55.0				9.12	9.34	9.54	9.75	9.96	10.04	10.18	10.30	10.43	
60.0					10.10	10.32	10.54	10.75	10.84	10.98	11.10	11.22	
65.0													
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	34.10	42.00	51.60	63.00	76.30	91.50	108.50						
20.0	34.50	42.30	51.80	63.20	76.40	91.60	109.00	128.50	136.50	150.00			
25.0	34.80	42.60	52.00	63.30	76.40	91.60	109.00	128.50	137.00	150.00	162.00	174.50	
30.0	35.20	42.80	52.10	63.30	76.40	91.60	109.00	128.50	137.00	150.50	162.00	174.50	
35.0	35.50	42.90	52.20	63.30	76.40	91.50	109.00	128.50	137.00	150.50	162.50	175.00	
40.0	35.80	43.10	52.20	63.20	76.20	91.40	108.50	128.50	137.00	150.50	162.50	175.00	
45.0		43.20	52.20	63.10	76.10	91.20	108.50	128.50	137.00	150.50	163.00	175.50	
50.0			52.10	62.90	75.90	91.00	108.50	128.50	137.00	151.00	163.00	176.00	
55.0				62.80	75.60	90.80	108.50	128.50	137.50	151.50	163.50	177.00	
60.0					75.50	90.80	108.50	129.00	138.00	152.00	164.50	178.00	
65.0													
68.0													

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	6.90
Length/Width, mm	216/194
Height, mm	385
Net Weight, kg	19.5
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	1.18
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF
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
Max. Internal Free Volume, l	3.20
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	16
Locked Rotor Current, A	18.6
Winding Resistance, ohm	1/1/1 (T1-T2/T2-T3/T3-T1)
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Inverter	Ruking ED3022B
----------	----------------

ACCESSORIES OPTIONAL**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>
4E9	380-420 V / 3~ / 50 Hz	400	Y		1.00