



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	4.46	5.52	6.84	8.42	10.30	12.45	14.90							
20.0	4.27	5.30	6.56	8.08	9.87	11.95	14.35	17.05	18.20	20.10				
25.0	4.09	5.06	6.27	7.72	9.44	11.45	13.70	16.30	17.45	19.25	20.80	22.50		
30.0	3.89	4.82	5.97	7.35	8.99	10.90	13.10	15.60	16.70	18.40	19.95	21.60		
35.0	3.70	4.57	5.65	6.97	8.53	10.35	12.45	14.85	15.90	17.55	19.00	20.60		
40.0	3.50	4.31	5.33	6.58	8.06	9.79	11.80	14.05	15.05	16.65	18.05	19.55		
45.0		4.05	5.00	6.17	7.56	9.20	11.10	13.25	14.20	15.75	17.05	18.50		
50.0			4.66	5.75	7.05	8.59	10.40	12.45	13.35	14.75	16.05	17.40		
55.0			4.30	5.30	6.51	7.95	9.62	11.55	12.40	13.75	14.95	16.25		
60.0				4.82	5.94	7.26	8.81	10.60	11.40	12.65	13.80	15.00		
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	1.92	1.96	2.00	2.03	2.06	2.08	2.10						
20.0	2.11	2.16	2.21	2.25	2.29	2.32	2.34	2.36	2.36	2.37			
25.0	2.30	2.37	2.43	2.48	2.52	2.56	2.59	2.61	2.62	2.63	2.63	2.63	
30.0	2.49	2.58	2.65	2.71	2.77	2.82	2.85	2.88	2.89	2.90	2.91	2.91	
35.0	2.70	2.80	2.88	2.96	3.03	3.09	3.13	3.17	3.18	3.20	3.21	3.21	
40.0	2.91	3.03	3.13	3.22	3.31	3.38	3.43	3.48	3.49	3.51	3.53	3.54	
45.0		3.27	3.39	3.50	3.60	3.68	3.75	3.81	3.83	3.85	3.87	3.88	
50.0			3.67	3.80	3.91	4.01	4.09	4.16	4.18	4.22	4.24	4.26	
55.0			3.96	4.11	4.24	4.36	4.45	4.54	4.57	4.61	4.63	4.66	
60.0				4.44	4.59	4.73	4.84	4.94	4.98	5.02	5.06	5.09	
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	3.58	3.57	3.56	3.56	3.57	3.59	3.61						
20.0	3.66	3.67	3.68	3.70	3.72	3.75	3.78	3.81	3.83	3.85			
25.0	3.77	3.81	3.85	3.89	3.92	3.96	4.00	4.04	4.06	4.08	4.11	4.13	
30.0	3.93	4.00	4.06	4.12	4.18	4.24	4.29	4.34	4.36	4.39	4.41	4.43	
35.0	4.13	4.23	4.32	4.41	4.49	4.57	4.64	4.70	4.72	4.76	4.78	4.81	
40.0	4.38	4.51	4.63	4.75	4.86	4.95	5.04	5.12	5.15	5.19	5.22	5.25	
45.0		4.83	4.99	5.14	5.28	5.40	5.51	5.61	5.64	5.70	5.73	5.77	
50.0			5.40	5.58	5.75	5.90	6.04	6.16	6.20	6.27	6.31	6.36	
55.0			5.85	6.08	6.28	6.46	6.63	6.78	6.83	6.90	6.96	7.01	
60.0				6.62	6.86	7.08	7.28	7.46	7.52	7.61	7.68	7.74	
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	22.90	28.00	34.20	41.70	50.40	60.30	71.60						
20.0	22.90	28.00	34.20	41.60	50.30	60.20	71.60	84.30	89.80	98.50			
25.0	22.90	27.90	34.10	41.60	50.20	60.20	71.50	84.20	89.70	98.50	106.00	114.50	
30.0	22.90	27.90	34.10	41.50	50.10	60.00	71.40	84.10	89.70	98.40	106.00	114.50	
35.0	22.90	27.90	34.00	41.30	49.90	59.90	71.20	84.00	89.60	98.40	106.00	114.50	
40.0	22.90	27.80	33.90	41.20	49.80	59.70	71.10	83.90	89.50	98.40	106.00	114.50	
45.0		27.80	33.80	41.10	49.60	59.60	71.00	83.90	89.50	98.40	106.00	114.50	
50.0			33.80	41.00	49.50	59.40	70.90	83.80	89.50	98.40	106.50	115.00	
55.0			33.70	40.90	49.40	59.40	70.80	83.90	89.60	98.60	106.50	115.00	
60.0				40.90	49.40	59.40	71.00	84.20	89.90	99.10	107.50	116.00	
65.0													
68.0													

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	4.52
Length/Width, mm	194/216
Height, mm	335
Net Weight, kg	15.9
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	65
Sound Power (HT), dBA	76
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	2.80
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	12.3
Locked Rotor Current, A	20
Winding Resistance, ohm	0.84/0.84/0.84 (T1-T2/T2-T3/T3-T1)
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Inverter	Ruking ED3018B
Inverter	Ruking ED3020A

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