



Minimum Evaporating Temp. With:

- 10 K Suction Superheat
- 5 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	7.68	8.66	9.97	11.65	13.70										
20.0	6.76	7.86	9.27	11.00	13.15	15.70	18.70								
25.0	5.96	7.15	8.63	10.45	12.65	15.20	18.25	21.70	23.30	25.70					
30.0	5.28	6.52	8.06	9.91	12.10	14.70	17.75	21.20	22.80	25.20	27.40	29.70			
35.0	4.70	5.98	7.54	9.40	11.60	14.20	17.20	20.70	22.20	24.60	26.80	29.00	34.10		
40.0	4.23	5.52	7.07	8.92	11.10	13.65	16.60	20.00	21.50	23.90	26.00	28.20	33.20	38.70	
45.0	3.87	5.13	6.65	8.46	10.60	13.10	15.95	19.25	20.70	23.00	25.10	27.30	32.10	37.50	43.40
50.0			6.27	8.01	10.05	12.45	15.25	18.40	19.85	22.10	24.10	26.20	30.90	36.10	41.90
55.0				7.57	9.50	11.80	14.45	17.50	18.85	21.00	22.90	25.00	29.50	34.50	40.10
60.0					8.92	11.05	13.55	16.45	17.70	19.75	21.60	23.50	27.80	32.70	38.10
65.0						10.25	12.55	15.25	16.45	18.35	20.10	22.00	26.00	30.70	
70.0							11.50	13.95	15.05	16.85	18.45	20.20	24.00		
75.0								12.55	13.55	15.15	16.65	18.25			

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	2.71	2.75	2.75	2.71	2.63										
20.0	2.76	2.81	2.84	2.83	2.78	2.69	2.56								
25.0	2.86	2.93	2.98	2.98	2.96	2.90	2.81	2.68	2.61	2.51					
30.0	3.03	3.11	3.17	3.19	3.19	3.16	3.09	2.99	2.94	2.86	2.78	2.69			
35.0	3.28	3.36	3.43	3.46	3.47	3.46	3.41	3.34	3.31	3.24	3.18	3.11	2.94		
40.0	3.61	3.69	3.76	3.80	3.82	3.82	3.79	3.74	3.71	3.66	3.62	3.56	3.43	3.27	
45.0	4.04	4.11	4.17	4.21	4.24	4.24	4.23	4.19	4.17	4.14	4.10	4.06	3.95	3.82	3.67
50.0			4.68	4.72	4.74	4.74	4.73	4.71	4.69	4.67	4.64	4.60	4.52	4.42	4.30
55.0				5.31	5.33	5.33	5.32	5.30	5.29	5.27	5.24	5.22	5.15	5.07	4.97
60.0					6.02	6.01	6.00	5.98	5.96	5.94	5.92	5.90	5.85	5.78	5.70
65.0						6.81	6.78	6.75	6.73	6.71	6.69	6.67	6.62	6.56	
70.0							7.68	7.63	7.61	7.58	7.56	7.54	7.48		
75.0								8.64	8.61	8.58	8.54	8.52			

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	9.97	9.88	9.69	9.38	8.96										
20.0	9.46	9.46	9.38	9.21	8.93	8.53	8.02								
25.0	9.23	9.30	9.30	9.23	9.07	8.81	8.45	7.96	7.73	7.35					
30.0	9.30	9.41	9.48	9.48	9.41	9.26	9.02	8.68	8.51	8.23	7.95	7.65			
35.0	9.70	9.83	9.93	9.98	9.98	9.91	9.77	9.54	9.43	9.22	9.02	8.79	8.24		
40.0	10.46	10.58	10.68	10.76	10.79	10.78	10.71	10.57	10.50	10.35	10.21	10.05	9.63	9.11	
45.0	11.61	11.69	11.77	11.84	11.89	11.90	11.88	11.80	11.75	11.66	11.56	11.44	11.14	10.75	10.25
50.0			13.21	13.25	13.28	13.30	13.29	13.25	13.22	13.16	13.09	13.01	12.79	12.50	12.12
55.0				15.03	15.01	15.00	14.98	14.95	14.92	14.88	14.83	14.77	14.61	14.39	14.10
60.0					17.11	17.04	16.98	16.93	16.90	16.85	16.81	16.76	16.63	16.45	16.22
65.0						19.45	19.33	19.22	19.17	19.11	19.06	19.00	18.87	18.72	
70.0							22.05	21.86	21.79	21.69	21.61	21.53	21.38		
75.0								24.90	24.79	24.64	24.52	24.41			

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	42.20	46.80	52.90	60.70	70.20											
20.0	38.70	44.10	51.10	59.70	70.00	82.20	96.30									
25.0	35.60	41.90	49.60	58.90	70.00	82.90	97.70	114.50	122.00	133.50						
30.0	33.00	40.00	48.40	58.40	70.10	83.60	99.10	116.50	124.00	136.00	147.00	158.00				
35.0	30.90	38.50	47.50	58.00	70.30	84.40	100.50	118.50	126.00	138.50	149.50	161.00	186.00			
40.0	29.30	37.40	46.80	57.90	70.60	85.10	101.50	120.00	128.00	141.00	152.00	164.00	189.00	217.00		
45.0	28.40	36.80	46.50	57.90	70.90	85.80	102.50	121.50	129.50	142.50	154.00	166.00	192.00	221.00	252.00	
50.0		46.60	58.10	71.30	86.40	103.50	122.50	131.00	144.00	155.50	168.00	194.50	223.00	255.00		
55.0			58.50	71.70	86.90	104.00	123.50	131.50	145.00	157.00	169.00	196.00	225.00	258.00		
60.0				72.20	87.20	104.50	123.50	132.00	145.50	157.50	170.00	197.00	227.00	260.00		
65.0					87.40	104.50	123.50	132.00	145.50	157.00	170.00	197.00	227.00			
70.0						104.00	123.00	131.00	144.50	156.50	169.00	196.50				
75.0							121.50	130.00	143.00	155.00	168.00					

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /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)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF, POE RL32-3MAF
Sound Pressure @ 1m (HT), dBA	69
Sound Power (HT), dBA	80
Sound Power with Sound Shell (HT), dBA	75
Sound Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed)	-7 / 50 / 3 °C at 75 Hz
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	60
Low Side TS Min., °C	-35
High Side TS Max., °C	150
High Side TS Min., °C	-35
Refrigerant's GWP	148
Refrigerant's classification	A2L

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

Default Enclosure Class	IP 54 (IEC 34)
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ACCESSORIES INCLUDED**ACCESSORIES OPTIONAL**

Sound Attenuation	Sound Shell
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50 1/s

YHV1191E-4X9

R454C Dew Point

MOTOR OPTIONS

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