



Minimum Evaporating Temp. With:	
— 20 K Suction Superheat	— 20 °C Suction Gas Return
— 10 K Suction Superheat OEM envelope	
— Maximum Evaporating Temperature	

Suction Return Temperature 18.3°C

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
10.0		2.36	2.91	3.58	4.37					
15.0		2.26	2.78	3.42	4.17	5.06				
20.0		2.15	2.65	3.26	3.97	4.82	5.80			
25.0		2.04	2.52	3.09	3.77	4.56	5.50	6.57		
30.0		1.92	2.37	2.91	3.55	4.30	5.18	6.20	6.65	7.37
35.0		1.80	2.23	2.73	3.33	4.03	4.85	5.81	6.23	6.91
40.0		1.68	2.07	2.54	3.09	3.74	4.51	5.40	5.79	6.43
45.0		1.55	1.92	2.34	2.85	3.45	4.15	4.98	5.34	5.94
50.0			1.74	2.13	2.59	3.14	3.79	4.54	4.88	5.42
55.0				1.92	2.33	2.82	3.40	4.09	4.40	4.90
60.0					2.05	2.48	3.00	3.62	3.90	4.35

Cond °C	Power, kW									
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0		0.72	0.74	0.75	0.76					
15.0		0.78	0.80	0.82	0.83	0.82				
20.0		0.84	0.88	0.90	0.92	0.92	0.90			
25.0		0.92	0.96	0.99	1.01	1.02	1.00	0.96		
30.0		1.01	1.06	1.10	1.12	1.12	1.12	1.08	1.06	1.02
35.0		1.10	1.16	1.20	1.24	1.25	1.24	1.22	1.20	1.16
40.0		1.20	1.27	1.32	1.36	1.38	1.38	1.36	1.34	1.30
45.0		1.32	1.40	1.46	1.50	1.52	1.52	1.50	1.49	1.46
50.0			1.52	1.60	1.64	1.68	1.68	1.67	1.66	1.62
55.0				1.74	1.80	1.84	1.86	1.84	1.83	1.80
60.0					1.97	2.01	2.04	2.03	2.02	2.00

Cond °C	Current at 230 V, A									
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0		3.40	3.49	3.54	3.54					
15.0		3.62	3.73	3.81	3.84	3.81				
20.0		3.89	4.03	4.14	4.20	4.19	4.10			
25.0		4.21	4.39	4.53	4.61	4.62	4.56	4.40		
30.0		4.58	4.80	4.96	5.07	5.11	5.06	4.92	4.84	4.68
35.0		5.00	5.25	5.45	5.59	5.65	5.62	5.50	5.42	5.26
40.0		5.46	5.75	5.99	6.16	6.24	6.24	6.13	6.05	5.90
45.0		5.97	6.30	6.57	6.77	6.88	6.90	6.81	6.74	6.60
50.0			6.89	7.20	7.42	7.56	7.60	7.53	7.47	7.34
55.0				7.86	8.12	8.29	8.36	8.30	8.25	8.13
60.0					8.86	9.06	9.15	9.12	9.07	8.96

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
10.0		13.40	16.60	20.50	25.20					
15.0		13.35	16.55	20.50	25.20	30.80				
20.0		13.30	16.50	20.40	25.10	30.70	37.40			
25.0		13.20	16.40	20.30	25.00	30.50	37.20	45.10		
30.0		13.15	16.30	20.20	24.80	30.40	37.00	44.90	48.50	54.30
35.0		13.05	16.20	20.00	24.60	30.10	36.70	44.60	48.20	54.10
40.0		12.90	16.05	19.80	24.30	29.80	36.40	44.30	47.90	53.80
45.0		12.75	15.85	19.55	24.00	29.50	36.00	43.90	47.50	53.50
50.0			15.60	19.25	23.70	29.00	35.60	43.50	47.10	53.20
55.0				18.90	23.20	28.50	35.10	43.10	46.70	52.90
60.0					22.80	28.10	34.60	42.70	46.50	52.80

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	5.04
Length/Width, mm	246/246
Height, mm	387
Net Weight, kg	22.2
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	0.74
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF, POE MOBIL EAL Arctic 22 CC
Base mounting (hole dia), mm	190 x 190 (19)
Sound Pressure @ 1m (MT), dBA	58
Sound Power (MT), dBA	69
Sound Power with Sound Shell (MT), dBA	61
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
Max. Internal Free Volume, l	2.00
High Side PS gauge, bar	31.9
Low Side PS gauge, bar	21.6
Refrigerant's GWP	3922
Refrigerant's classification	A1

COMPRESSOR ELECTRICAL DATA (220-240 V / 1~ / 50 Hz)

Maximum Operating Current, A	9.9
Locked Rotor Current, A	54
Winding Resistance, ohm	1.62/3.26 (R/S)
Default Enclosure Class	IP 66

ACCESSORIES INCLUDED

Mounting Grommets	Standard
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ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
Crankcase Heater	40 W External
Discharge Temperature Protection	Discharge line thermostat
Enclosure Class	IP66 With Molded Plug
Rotalock valves	suction and discharge

MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
PFJ	220-240 V / 1~ / 50 Hz	230		PSC	1.00
PFV	208-230 V / 1~ / 60 Hz	220		CSCR/PSC	1.04