



Minimum Evaporating Temp. With:

- 10 K Suction Superheat
- 20 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW											
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
10.0	2.71	3.41	4.25	5.26								
15.0	2.57	3.25	4.07	5.05	6.21							
20.0	2.43	3.09	3.88	4.83	5.95	7.26						
25.0	2.28	2.92	3.68	4.60	5.67	6.94	7.51	8.42				
30.0	2.13	2.74	3.48	4.35	5.39	6.61	7.15	8.03	8.83	9.68		
35.0	1.97	2.56	3.26	4.10	5.10	6.27	6.79	7.64	8.40	9.22		
40.0	1.81	2.37	3.05	3.85	4.80	5.92	6.42	7.23	7.96	8.75	10.50	
45.0	1.64	2.18	2.82	3.58	4.49	5.56	6.03	6.81	7.51	8.26	9.95	11.85
50.0		2.00	2.60	3.32	4.17	5.19	5.64	6.38	7.05	7.77	9.38	11.25
55.0			2.37	3.04	3.85	4.81	5.24	5.94	6.58	7.26	8.80	10.55
60.0			2.14	2.77	3.53	4.43	4.83	5.50	6.10	6.75	8.21	9.90
65.0				2.49	3.20	4.04	4.42	5.04	5.61	6.23	7.61	9.22
70.0					2.86	3.65	4.00	4.59	5.12	5.70	7.00	
75.0					2.53	3.25	3.58	4.12	4.62	5.16		

50 Hz

ZR42KRE-PFJ

R450A Dew Point

Cond °C	Power, kW											
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
10.0	0.70	0.70	0.70	0.71								
15.0	0.78	0.78	0.78	0.79	0.80							
20.0	0.87	0.87	0.87	0.87	0.88	0.89						
25.0	0.97	0.97	0.97	0.97	0.97	0.98	0.99	1.01				
30.0	1.08	1.08	1.08	1.07	1.08	1.08	1.09	1.10	1.12	1.14		
35.0	1.21	1.20	1.20	1.19	1.19	1.20	1.20	1.21	1.23	1.24		
40.0	1.35	1.34	1.33	1.32	1.32	1.32	1.32	1.34	1.35	1.36	1.40	
45.0	1.52	1.50	1.48	1.48	1.47	1.47	1.47	1.48	1.49	1.50	1.54	1.60
50.0		1.68	1.66	1.65	1.64	1.64	1.64	1.64	1.64	1.66	1.69	1.74
55.0			1.86	1.84	1.83	1.82	1.82	1.82	1.83	1.84	1.86	1.92
60.0			2.10	2.07	2.05	2.04	2.04	2.03	2.04	2.04	2.07	2.11
65.0				2.32	2.30	2.28	2.28	2.27	2.27	2.28	2.29	2.33
70.0					2.58	2.55	2.55	2.54	2.54	2.54	2.55	
75.0					2.89	2.86	2.85	2.84	2.84	2.83		

Cond °C	Current at 230 V, A											
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
10.0	6.31	6.28	6.26	6.26								
15.0	6.88	6.86	6.84	6.85	6.88							
20.0	7.40	7.38	7.36	7.37	7.40	7.45						
25.0	7.88	7.85	7.84	7.84	7.86	7.92	7.95	8.01				
30.0	8.35	8.31	8.29	8.28	8.30	8.35	8.38	8.44	8.49	8.56		
35.0	8.81	8.77	8.74	8.73	8.74	8.78	8.80	8.85	8.90	8.96		
40.0	9.31	9.25	9.21	9.18	9.18	9.21	9.23	9.27	9.32	9.37	9.52	
45.0	9.85	9.78	9.72	9.68	9.66	9.68	9.69	9.72	9.76	9.81	9.94	10.12
50.0		10.37	10.30	10.24	10.20	10.20	10.20	10.22	10.25	10.29	10.41	10.57
55.0			10.96	10.88	10.82	10.79	10.79	10.80	10.82	10.85	10.94	11.08
60.0			11.72	11.62	11.54	11.48	11.47	11.47	11.47	11.49	11.56	11.68
65.0				12.48	12.37	12.29	12.27	12.25	12.24	12.24	12.28	12.38
70.0					13.36	13.24	13.21	13.17	13.15	13.13	13.14	
75.0					14.50	14.36	14.31	14.25	14.21	14.18		

Cond °C	Suction Mass Flow, g/s											
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
10.0	15.80	19.50	23.80	29.00								
15.0	15.60	19.35	23.70	28.90	34.80							
20.0	15.40	19.15	23.60	28.80	34.70	41.60						
25.0	15.15	18.95	23.40	28.60	34.50	41.40	44.40	49.30				
30.0	14.80	18.65	23.10	28.30	34.30	41.20	44.20	49.00	53.40	57.90		
35.0	14.45	18.30	22.80	28.00	34.00	40.90	43.90	48.80	53.10	57.70		
40.0	14.00	17.90	22.40	27.60	33.60	40.50	43.60	48.40	52.70	57.30	67.40	
45.0	13.55	17.45	22.00	27.20	33.20	40.10	43.10	48.00	52.30	56.90	67.00	78.40
50.0		16.95	21.40	26.60	32.70	39.60	42.60	47.50	51.80	56.40	66.60	78.00
55.0			20.90	26.10	32.10	39.00	42.00	46.90	51.20	55.90	66.00	77.50
60.0			20.20	25.40	31.40	38.30	41.30	46.20	50.50	55.20	65.40	77.00
65.0				24.70	30.60	37.50	40.50	45.40	49.80	54.50	64.80	76.40
70.0					29.80	36.60	39.70	44.60	49.00	53.70	64.00	
75.0					28.80	35.70	38.70	43.60	48.10	52.80		

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	9.94
Length/Width, mm	239/245
Height, mm	400
Net Weight, kg	28.4
Gross Weight, kg	31.4
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	1.12
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 Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
PED Category	1
Max. Internal Free Volume, l	2.60
High Side PS gauge, bar	29
Low Side PS gauge, bar	21
Low Side TS Max., °C	50
Low Side TS Min., °C	-35
Refrigerant's GWP	605
Refrigerant's classification	A1

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

Maximum Operating Current, A	20
Locked Rotor Current, A	97
Winding Resistance, ohm	0.69/1.65 (R/S)
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermodisk
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ACCESSORIES OPTIONAL

Oil Control System	ALCO Trax-Oil OM3
Mounting Grommets	Standard
Crankcase Heater	70 W External
Single Phase Equipment	Run Capacitor
Sound Attenuation	Sound Shell (10dBA)
Rotalock valves	suction and discharge
Single Phase Equipment	Start Relay and Capacitor

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
PFJ	265 V / 1~ / 60 Hz	265		PSC	0.75