



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	1.63	2.05	2.55	3.16								
15.0	1.54	1.96	2.44	3.02	3.71							
20.0	1.46	1.86	2.33	2.89	3.55	4.33						
25.0	1.38	1.76	2.21	2.75	3.39	4.14	4.47	5.01				
30.0	1.28	1.65	2.09	2.61	3.22	3.94	4.26	4.78	5.25	5.75		
35.0	1.20	1.54	1.96	2.46	3.05	3.74	4.05	4.55	5.00	5.48		
40.0	1.10	1.44	1.84	2.32	2.88	3.54	3.84	4.31	4.75	5.21	6.24	
45.0	1.01	1.33	1.72	2.17	2.70	3.33	3.61	4.07	4.49	4.93	5.92	7.06
50.0		1.22	1.58	2.01	2.52	3.12	3.39	3.83	4.22	4.65	5.60	6.69
55.0			1.46	1.86	2.34	2.91	3.16	3.58	3.95	4.36	5.27	6.31
60.0			1.32	1.70	2.16	2.69	2.93	3.33	3.68	4.07	4.93	5.93
65.0				1.54	1.97	2.47	2.70	3.07	3.41	3.77	4.59	5.54
70.0					1.78	2.25	2.47	2.81	3.13	3.48	4.25	
75.0					1.59	2.03	2.23	2.55	2.85	3.17		

50 Hz

ZR24KRE-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	0.41	0.41	0.41	0.42								
15.0	0.45	0.46	0.46	0.46	0.47							
20.0	0.50	0.50	0.51	0.51	0.52	0.52						
25.0	0.56	0.56	0.56	0.57	0.57	0.58	0.58	0.59				
30.0	0.62	0.62	0.62	0.63	0.63	0.64	0.64	0.65	0.66	0.66		
35.0	0.70	0.70	0.70	0.70	0.70	0.70	0.71	0.71	0.72	0.73		
40.0	0.78	0.78	0.78	0.77	0.78	0.78	0.78	0.79	0.79	0.80	0.82	
45.0	0.87	0.87	0.87	0.86	0.86	0.86	0.87	0.87	0.88	0.88	0.90	0.93
50.0		0.97	0.97	0.96	0.96	0.96	0.96	0.97	0.97	0.98	0.99	1.02
55.0			1.08	1.08	1.07	1.07	1.07	1.08	1.08	1.08	1.10	1.12
60.0			1.21	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.21	1.23
65.0				1.34	1.34	1.33	1.33	1.33	1.33	1.34	1.34	1.36
70.0					1.49	1.48	1.48	1.48	1.48	1.48	1.48	
75.0					1.66	1.66	1.65	1.64	1.64	1.64		

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	3.39	3.39	3.40	3.41								
15.0	3.71	3.71	3.72	3.73	3.76							
20.0	3.99	4.00	4.00	4.02	4.04	4.08						
25.0	4.26	4.26	4.27	4.28	4.30	4.34	4.36	4.39				
30.0	4.53	4.52	4.52	4.53	4.55	4.58	4.60	4.63	4.66	4.70		
35.0	4.80	4.79	4.79	4.79	4.80	4.83	4.85	4.87	4.90	4.93		
40.0	5.09	5.07	5.06	5.06	5.07	5.09	5.10	5.13	5.15	5.18	5.26	
45.0	5.41	5.39	5.37	5.36	5.36	5.37	5.38	5.40	5.42	5.45	5.52	5.61
50.0		5.74	5.72	5.70	5.69	5.70	5.70	5.72	5.74	5.76	5.82	5.90
55.0			6.12	6.09	6.08	6.07	6.07	6.08	6.09	6.11	6.16	6.23
60.0			6.59	6.55	6.53	6.51	6.51	6.51	6.51	6.53	6.56	6.63
65.0				7.09	7.05	7.02	7.02	7.01	7.01	7.01	7.04	7.09
70.0					7.67	7.62	7.61	7.60	7.59	7.59	7.60	
75.0					8.39	8.33	8.31	8.29	8.27	8.26		

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	9.52	11.75	14.35	17.40								
15.0	9.40	11.65	14.25	17.30	20.80							
20.0	9.27	11.50	14.15	17.20	20.70	24.80						
25.0	9.12	11.40	14.05	17.10	20.60	24.70	26.50	29.30				
30.0	8.95	11.25	13.90	16.95	20.50	24.60	26.40	29.20	31.70	34.40		
35.0	8.75	11.05	13.70	16.80	20.30	24.40	26.20	29.10	31.60	34.30		
40.0	8.54	10.85	13.55	16.60	20.20	24.20	26.00	28.90	31.40	34.10	40.10	
45.0	8.29	10.65	13.30	16.40	19.95	24.00	25.80	28.70	31.20	34.00	39.90	46.60
50.0		10.40	13.10	16.20	19.75	23.80	25.60	28.50	31.00	33.80	39.70	46.40
55.0			12.80	15.90	19.45	23.60	25.30	28.20	30.80	33.50	39.50	46.30
60.0			12.50	15.60	19.20	23.30	25.10	28.00	30.50	33.30	39.30	46.10
65.0				15.30	18.85	23.00	24.80	27.70	30.20	33.00	39.10	45.90
70.0					18.50	22.60	24.40	27.30	29.90	32.70	38.90	
75.0					18.10	22.20	24.10	27.00	29.60	32.50		

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	5.92
Length/Width, mm	239/245
Height, mm	364
Net Weight, kg	25.3
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	57
Sound Power (MT), dBA	68
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	2.50
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	12.8
Locked Rotor Current, A	58
Winding Resistance, ohm	1.26/3.34 (R/S)
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermodisk
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ACCESSORIES OPTIONAL

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

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