



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	1.88	2.36	2.94	3.63								
15.0	1.78	2.25	2.82	3.49	4.28							
20.0	1.69	2.14	2.69	3.34	4.10	5.01						
25.0	1.60	2.03	2.56	3.18	3.92	4.79	5.17	5.80				
30.0	1.50	1.92	2.42	3.02	3.73	4.56	4.93	5.53	6.07	6.65		
35.0	1.39	1.80	2.28	2.85	3.53	4.33	4.68	5.26	5.78	6.34		
40.0	1.28	1.68	2.13	2.68	3.33	4.09	4.43	4.98	5.48	6.01	7.21	
45.0	1.18	1.55	1.98	2.51	3.12	3.85	4.17	4.70	5.17	5.68	6.83	8.13
50.0		1.42	1.84	2.33	2.91	3.60	3.91	4.41	4.86	5.35	6.44	7.69
55.0			1.68	2.15	2.70	3.35	3.64	4.11	4.54	5.01	6.04	7.24
60.0			1.53	1.96	2.48	3.09	3.36	3.81	4.22	4.66	5.64	6.78
65.0				1.78		2.83	3.09	3.51	3.89	4.31	5.24	6.32
70.0					2.04	2.57	2.81	3.20	3.56	3.95	4.83	
75.0					1.82	2.30	2.52	2.89	3.22	3.59		

50 Hz

ZR28KRE-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	0.49	0.50	0.50	0.50								
15.0	0.55	0.55	0.55	0.56	0.56							
20.0	0.61	0.61	0.61	0.61	0.62	0.63						
25.0	0.67	0.67	0.67	0.67	0.68	0.69	0.69	0.70				
30.0	0.75	0.75	0.75	0.74	0.75	0.75	0.76	0.76	0.77	0.78		
35.0	0.84	0.83	0.83	0.82	0.82	0.83	0.83	0.84	0.84	0.85		
40.0	0.93	0.93	0.92	0.92	0.92	0.92	0.92	0.92	0.93	0.94	0.96	
45.0	1.05	1.04	1.03	1.02	1.02	1.02	1.02	1.02	1.02	1.03	1.05	1.08
50.0		1.17	1.16	1.15	1.14	1.14	1.14	1.14	1.14	1.14	1.16	1.18
55.0			1.30	1.29	1.28	1.27	1.27	1.27	1.27	1.27	1.28	1.30
60.0			1.47	1.46	1.44	1.43	1.42	1.42	1.42	1.42	1.42	1.44
65.0				1.64		1.61	1.60	1.60	1.60	1.59	1.59	1.60
70.0					1.83	1.81	1.80	1.80	1.79	1.78	1.78	
75.0					2.07	2.04	2.04	2.02	2.02	2.01		

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	4.49	4.48	4.48	4.48								
15.0	4.88	4.87	4.87	4.87	4.90							
20.0	5.22	5.21	5.21	5.22	5.24	5.27						
25.0	5.53	5.52	5.52	5.52	5.54	5.58	5.60	5.63				
30.0	5.83	5.82	5.81	5.81	5.83	5.86	5.88	5.91	5.94	5.98		
35.0	6.14	6.12	6.11	6.10	6.11	6.13	6.15	6.18	6.20	6.24		
40.0	6.47	6.44	6.42	6.40	6.40	6.42	6.43	6.45	6.47	6.50	6.58	
45.0	6.84	6.80	6.76	6.74	6.72	6.73	6.73	6.75	6.76	6.79	6.85	6.94
50.0		7.20	7.15	7.11	7.09	7.08	7.08	7.08	7.09	7.11	7.16	7.23
55.0			7.60	7.55	7.51	7.48	7.47	7.47	7.47	7.48	7.51	7.57
60.0			8.14	8.06	8.00	7.96	7.94	7.93	7.92	7.92	7.94	7.98
65.0				8.67		8.52	8.50	8.47	8.45	8.44	8.44	8.46
70.0					9.28	9.19	9.16	9.12	9.09	9.06	9.03	
75.0					10.09	9.97	9.93	9.88	9.83	9.80		

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	10.95	13.50	16.50	20.00									
15.0	10.85	13.40	16.45	19.95	24.00								
20.0	10.75	13.30	16.35	19.90	24.00	28.70							
25.0	10.60	13.20	16.25	19.75	23.90	28.60	30.60	33.90					
30.0	10.40	13.05	16.10	19.60	23.70	28.40	30.50	33.80	36.70	39.80			
35.0	10.20	12.85	15.90	19.45	23.50	28.20	30.30	33.60	36.50	39.60			
40.0	9.96	12.60	15.70	19.25	23.30	28.00	30.10	33.40	36.30	39.40	46.30		
45.0	9.69	12.35	15.45	19.00	23.10	27.70	29.80	33.10	36.00	39.20	46.00	53.70	
50.0		12.10	15.15	18.70	22.80	27.40	29.50	32.80	35.70	38.80	45.70	53.40	
55.0			14.85	18.40	22.40	27.10	29.10	32.40	35.40	38.50	45.40	53.10	
60.0			14.50	18.00	22.10	26.70	28.70	32.00	35.00	38.10	45.00	52.70	
65.0				17.60		26.30	28.30	31.60	34.50	37.70	44.60	52.40	
70.0					21.20	25.80	27.80	31.10	34.00	37.20	44.10		
75.0					20.60	25.20	27.30	30.60	33.50	36.70			

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	6.83
Length/Width, mm	239/245
Height, mm	364
Net Weight, kg	25.8
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	55
Sound Power (MT), dBA	66
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

50 Hz

ZR28KRE-PFJ

R450A Dew Point

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

Maximum Operating Current, A	12.8
Locked Rotor Current, A	61
Winding Resistance, ohm	1.2/2.23 (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)
Single Phase Equipment	Start Relay and Capacitor
Rotalock valves	suction and discharge
Mounting Grommets	Standard

### **MOTOR OPTIONS**

<b>Motor Code</b>	<b>Power Supply</b>	<b>Nominal Voltage, V</b>	<b>Start Connection</b>	<b>DOL Connection</b>	<b>Amps Factor</b>
PFJ	220-240 V / 1~ / 50 Hz	230		PSC	1.00
PFJ	265 V / 1~ / 60 Hz	265		PSC	0.75