



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	2.37	2.97	3.69	4.55								
15.0	2.27	2.85	3.55	4.39	5.38							
20.0	2.15	2.72	3.41	4.22	5.18	6.30						
25.0	2.03	2.59	3.25	4.03	4.96	6.05	6.53	7.31				
30.0	1.90	2.44	3.08	3.83	4.73	5.78	6.24	7.00	7.68	8.41		
35.0	1.76	2.28	2.90	3.62	4.48	5.49	5.94	6.66	7.32	8.02		
40.0	1.62	2.12	2.71	3.41	4.23	5.19	5.62	6.32	6.95	7.62	9.13	
45.0	1.48	1.96	2.51	3.18	3.96	4.88	5.29	5.96	6.56	7.21	8.65	10.30
50.0		1.78	2.31	2.94	3.69	4.56	4.95	5.59	6.16	6.78	8.16	9.75
55.0			2.11	2.70	3.40	4.23	4.60	5.21	5.75	6.34	7.66	9.17
60.0			1.90	2.45	3.11	3.89	4.24	4.81	5.33	5.89	7.14	8.59
65.0				2.20	2.81	3.55	3.87	4.41	4.90	5.43	6.61	7.99
70.0					2.51	3.19	3.50	4.00	4.46	4.95	6.07	
75.0					2.21	2.83	3.12	3.58	4.01	4.47		

50 Hz

ZR36KRE-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	0.62	0.63	0.63	0.64								
15.0	0.69	0.70	0.70	0.70	0.71							
20.0	0.77	0.77	0.77	0.78	0.78	0.80						
25.0	0.86	0.85	0.85	0.85	0.86	0.87	0.88	0.89				
30.0	0.95	0.95	0.94	0.94	0.95	0.95	0.96	0.97	0.98	0.99		
35.0	1.06	1.06	1.05	1.04	1.04	1.05	1.06	1.06	1.07	1.08		
40.0	1.18	1.18	1.17	1.16	1.16	1.16	1.16	1.17	1.18	1.18	1.21	
45.0	1.33	1.32	1.31	1.30	1.29	1.29	1.29	1.30	1.30	1.30	1.33	1.36
50.0		1.48	1.47	1.46	1.44	1.44	1.44	1.44	1.44	1.44	1.46	1.50
55.0			1.66	1.64	1.62	1.61	1.61	1.60	1.60	1.61	1.62	1.64
60.0			1.86	1.84	1.82	1.81	1.80	1.80	1.80	1.80	1.80	1.82
65.0				2.08	2.06	2.04	2.03	2.02	2.02	2.02	2.02	2.03
70.0					2.32	2.30	2.29	2.28	2.27	2.26	2.26	
75.0					2.62	2.59	2.58	2.56	2.55	2.55		

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	5.79	5.78	5.77	5.78								
15.0	6.29	6.27	6.27	6.28	6.31							
20.0	6.73	6.72	6.71	6.73	6.76	6.80						
25.0	7.14	7.12	7.12	7.13	7.15	7.20	7.22	7.27				
30.0	7.54	7.52	7.51	7.51	7.53	7.57	7.59	7.63	7.67	7.72		
35.0	7.94	7.91	7.89	7.89	7.90	7.93	7.95	7.98	8.02	8.06		
40.0	8.37	8.33	8.30	8.28	8.28	8.30	8.32	8.34	8.37	8.41	8.51	
45.0	8.85	8.80	8.75	8.72	8.70	8.71	8.72	8.73	8.76	8.79	8.87	8.98
50.0		9.33	9.26	9.21	9.18	9.17	9.17	9.17	9.19	9.21	9.27	9.37
55.0			9.85	9.78	9.73	9.70	9.69	9.68	9.69	9.70	9.74	9.82
60.0			10.55	10.45	10.38	10.32	10.30	10.28	10.27	10.27	10.29	10.34
65.0				11.24	11.13	11.05	11.02	10.99	10.97	10.95	10.95	10.97
70.0					12.03	11.91	11.87	11.82	11.79	11.76	11.72	
75.0					13.07	12.93	12.88	12.80	12.75	12.71		

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	13.85	17.00	20.70	25.00								
15.0	13.80	17.00	20.70	25.10	30.20							
20.0	13.65	16.90	20.70	25.10	30.20	36.10						
25.0	13.50	16.80	20.60	25.10	30.20	36.10	38.70	42.80				
30.0	13.25	16.60	20.50	24.90	30.10	36.00	38.60	42.70	46.40	50.30		
35.0	12.95	16.35	20.20	24.70	29.90	35.80	38.40	42.60	46.30	50.20		
40.0	12.60	16.00	19.95	24.40	29.60	35.60	38.20	42.30	46.00	50.00	58.60	
45.0	12.15	15.60	19.55	24.10	29.30	35.20	37.80	42.00	45.70	49.70	58.30	68.00
50.0		15.15	19.10	23.60	28.80	34.80	37.40	41.60	45.30	49.30	58.00	67.70
55.0			18.60	23.10	28.30	34.30	36.90	41.10	44.80	48.80	57.50	67.30
60.0			17.95	22.50	27.70	33.60	36.20	40.40	44.20	48.20	56.90	66.80
65.0				21.80	27.00	32.90	35.50	39.70	43.50	47.50	56.30	66.20
70.0					26.10	32.00	34.70	38.90	42.60	46.70	55.50	
75.0					25.10	31.10	33.70	37.90	41.70	45.80		

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	8.61
Length/Width, mm	239/245
Height, mm	387
Net Weight, kg	27.3
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	1.24
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	59
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

ZR36KRE-PFJ

R450A Dew Point

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

Maximum Operating Current, A	16.4
Locked Rotor Current, A	82
Winding Resistance, ohm	0.89/1.84 (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
Mounting Grommets	Standard
Single Phase Equipment	Start Relay and Capacitor

### **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