



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
14.0	2.24											
15.0	2.22											
20.0	2.11	2.66	3.32									
25.0	1.99	2.52	3.16	3.93	4.83							
30.0	1.88	2.39	3.00	3.73	4.60	5.61	6.07					
35.0	1.76	2.25	2.83	3.53	4.36	5.34	5.77	6.47	7.11	7.79		
40.0	1.64	2.10	2.66	3.33	4.12	5.05	5.47	6.14	6.75	7.40	8.85	
45.0	1.51	1.96	2.49	3.12	3.87	4.76	5.16	5.80	6.38	7.00	8.40	9.99
50.0		1.81	2.31	2.91	3.62	4.46	4.84	5.45	6.00	6.60	7.93	9.46
55.0			2.14	2.70	3.37	4.16	4.52	5.10	5.62	6.19	7.46	8.92
60.0			1.96	2.48	3.11	3.86	4.19	4.74	5.24	5.78	6.98	8.37
65.0				2.27	2.85	3.55	3.87	4.38	4.85	5.36	6.49	7.81
70.0					2.59	3.24	3.54	4.02	4.45	4.93	6.00	
75.0					2.33	2.93	3.20	3.65	4.06	4.50		

50 Hz

ZRD36KRE-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
14.0	0.69											
15.0	0.70											
20.0	0.77	0.78	0.79									
25.0	0.84	0.85	0.86	0.87	0.88							
30.0	0.91	0.92	0.93	0.94	0.96	0.97	0.98					
35.0	0.98	1.00	1.02	1.02	1.04	1.06	1.06	1.07	1.08	1.09		
40.0	1.06	1.08	1.10	1.12	1.13	1.14	1.16	1.16	1.17	1.18	1.20	
45.0	1.16	1.18	1.20	1.22	1.24	1.26	1.26	1.27	1.28	1.29	1.31	1.34
50.0		1.28	1.32	1.34	1.36	1.38	1.38	1.40	1.40	1.42	1.44	1.46
55.0			1.44	1.47	1.50	1.52	1.52	1.54	1.54	1.56	1.58	1.60
60.0			1.59	1.62	1.65	1.68	1.68	1.70	1.72	1.72	1.74	1.77
65.0				1.80	1.83	1.86	1.88	1.89	1.90	1.92	1.94	1.96
70.0					2.04	2.07	2.08	2.10	2.12	2.13	2.16	
75.0					2.27	2.31	2.32	2.35	2.36	2.38		

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
14.0	4.93											
15.0	5.00											
20.0	5.32	5.36	5.40									
25.0	5.63	5.67	5.72	5.76	5.81							
30.0	5.92	5.98	6.03	6.08	6.13	6.19	6.21					
35.0	6.23	6.30	6.36	6.41	6.47	6.53	6.55	6.59	6.63	6.67		
40.0	6.56	6.64	6.72	6.78	6.84	6.90	6.93	6.97	7.00	7.04	7.13	
45.0	6.92	7.03	7.11	7.19	7.26	7.33	7.36	7.40	7.43	7.47	7.56	7.66
50.0		7.46	7.57	7.66	7.74	7.82	7.85	7.90	7.93	7.97	8.06	8.15
55.0			8.09	8.20	8.30	8.39	8.42	8.47	8.51	8.56	8.64	8.74
60.0			8.69	8.82	8.94	9.05	9.09	9.14	9.19	9.24	9.33	9.43
65.0				9.54	9.68	9.81	9.85	9.92	9.98	10.03	10.13	10.23
70.0					10.54	10.69	10.74	10.82	10.88	10.94	11.06	
75.0					11.52	11.70	11.76	11.85	11.92	11.99		

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
14.0	13.50											
15.0	13.50											
20.0	13.35	16.50	20.20									
25.0	13.20	16.40	20.10	24.40	29.40							
30.0	13.05	16.25	19.95	24.30	29.20	35.00	37.50					
35.0	12.85	16.05	19.80	24.10	29.10	34.80	37.30	41.30	44.90	48.70		
40.0	12.65	15.85	19.60	23.90	28.90	34.60	37.10	41.10	44.70	48.50	56.80	
45.0	12.40	15.65	19.35	23.70	28.60	34.30	36.80	40.80	44.40	48.20	56.60	65.90
50.0		15.40	19.10	23.40	28.30	34.00	36.50	40.50	44.10	47.90	56.30	65.70
55.0			18.85	23.10	28.00	33.70	36.20	40.20	43.80	47.60	56.00	65.40
60.0			18.55	22.80	27.70	33.40	35.80	39.80	43.40	47.20	55.60	65.10
65.0				22.40	27.30	33.00	35.40	39.40	43.00	46.90	55.30	64.80
70.0					26.90	32.50	35.00	39.00	42.60	46.50	54.90	
75.0					26.50	32.10	34.60	38.60	42.20	46.10		

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	8.34
Length/Width, mm	239/244
Height, mm	435
Net Weight, kg	30.2
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 (HT), dBA	62
Sound Power (HT), dBA	73
Sound Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed)	7 / 54 / 18 °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	16.5
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
Discharge Temperature Protection	Discharge line thermostat

ACCESSORIES OPTIONAL

Mounting Grommets	Standard
Digital Tubing Kit	24 V 0.3m Rotalock
Digital Driver	EC3-D13
Single Phase Equipment	Start Relay and Capacitor
Solenoid valve	Standard
Valve Coil	24V AC
Solenoid Valve Kit	24 V Ac 12" lead Length
Digital Control Kit	EC3-652
Crankcase Heater	70 W External
Single Phase Equipment	Run Capacitor
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (10dBA)
Valve Coil	220V
Solenoid Valve Kit	220 V Ac 12" lead Length
Digital Control Kit	EC2-552
Digital Superheat Controller	EC3-D72
Display Case	ECD-000
Digital Tubing Kit	220 V 0.3m Rotalock
Digital Superheat Controller	EC3-D73

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