



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								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	6.43	7.73	9.33	11.20					
15.0	6.15	7.50	9.15	11.10	13.35				
20.0	5.80	7.19	8.86	10.80	13.10	15.65			
25.0	5.42	6.81	8.48	10.45	12.70	15.25	18.10		
30.0	5.02	6.38	8.03	9.97	12.20	14.75	17.55	18.75	20.70
35.0	4.60	5.93	7.53	9.41	11.60	14.05	16.85	18.05	19.95
40.0		5.46	6.99	8.80	10.90	13.30	16.00	17.20	19.05
45.0			6.43	8.15	10.15	12.45	15.05	16.20	18.00
50.0				7.47	9.35	11.55	14.00	15.10	16.85
55.0					8.51	10.55	12.90	13.90	15.55

50 Hz

ZB38KCE-PFJ

R407A Dew Point

Cond °C	Power, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	1.52	1.53	1.53	1.52					
15.0	1.72	1.74	1.75	1.75	1.74				
20.0	1.94	1.96	1.98	2.00	2.00	1.98			
25.0	2.19	2.22	2.24	2.26	2.28	2.27	2.25		
30.0	2.46	2.49	2.53	2.56	2.58	2.59	2.58	2.57	2.56
35.0	2.76	2.80	2.84	2.88	2.91	2.93	2.94	2.94	2.93
40.0		3.15	3.19	3.23	3.27	3.31	3.33	3.33	3.34
45.0			3.58	3.63	3.68	3.72	3.75	3.76	3.77
50.0				4.07	4.12	4.17	4.22	4.23	4.25
55.0					4.62	4.68	4.73	4.75	4.78

Cond °C	Current at 230 V, A								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	9.22	9.28	9.29	9.25					
15.0	10.24	10.34	10.38	10.38	10.33				
20.0	11.22	11.34	11.43	11.46	11.45	11.39			
25.0	12.20	12.35	12.46	12.54	12.57	12.56	12.49		
30.0	13.23	13.40	13.54	13.65	13.73	13.76	13.74	13.72	13.67
35.0	14.34	14.53	14.70	14.85	14.96	15.04	15.07	15.07	15.06
40.0		15.79	15.99	16.17	16.32	16.44	16.52	16.55	16.57
45.0			17.45	17.65	17.84	18.01	18.14	18.18	18.23
50.0				19.35	19.58	19.78	19.96	20.02	20.11
55.0					21.57	21.81	22.03	22.11	22.23

Cond °C	Suction Mass Flow, g/s								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	34.90	41.30	49.10	58.20					
15.0	34.70	41.70	50.10	59.80	70.80				
20.0	34.20	41.70	50.50	60.70	72.30	85.20			
25.0	33.50	41.30	50.50	61.20	73.30	86.70	101.50		
30.0	32.50	40.60	50.20	61.20	73.60	87.50	102.50	109.00	119.00
35.0	31.40	39.70	49.50	60.70	73.50	87.70	103.50	110.00	120.50
40.0		38.60	48.50	59.90	72.90	87.40	103.50	110.00	121.00
45.0			47.30	58.80	71.80	86.50	103.00	109.50	120.50
50.0				57.40	70.40	85.20	101.50	108.50	119.50
55.0					68.80	83.40	99.90	107.00	118.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	14.4
Length/Width, mm	242/242
Height, mm	438
Net Weight, kg	37.5
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Oil Quantity, l	1.9
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 (8.5)
Sound Pressure @ 1m (MT), dBA	63
Sound Power (MT), dBA	74
Sound Power with Sound Shell (MT), dBA	64
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	4.20
High Side PS gauge, bar	32
Low Side PS gauge, bar	21
Low Side TS Max., °C	50
Low Side TS Min., °C	-35
Refrigerant's GWP	2107
Refrigerant's classification	A1

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

Maximum Operating Current, A	32.3
Locked Rotor Current, A	142
Winding Resistance, ohm	0.4/0.96 (R/S)
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermodisk
Mounting Grommets	Standard

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

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