



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	3.63	4.56	5.67	6.99					
15.0	3.45	4.34	5.41	6.68	8.17				
20.0	3.26	4.12	5.15	6.37	7.80	9.46			
25.0	3.06	3.90	4.88	6.04	7.41	9.00	10.85		
30.0	2.87	3.66	4.60	5.71	7.01	8.52	10.30	11.05	12.30
35.0		3.43	4.32	5.37	6.60	8.04	9.71	10.45	11.65
40.0			4.03	5.02	6.18	7.54	9.12	9.83	10.95
45.0				4.66	5.75	7.03	8.53	9.19	10.25
50.0					5.32	6.52	7.92	8.55	9.56
55.0						5.99	7.31	7.89	8.85

50 Hz

ZB21KCE-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	0.83	0.83	0.83	0.83					
15.0	0.97	0.98	0.98	0.98	0.99				
20.0	1.14	1.14	1.16	1.16	1.16	1.17			
25.0	1.32	1.34	1.35	1.36	1.36	1.36	1.36		
30.0	1.52	1.55	1.56	1.57	1.57	1.56	1.56	1.55	1.54
35.0		1.78	1.80	1.80	1.80	1.79	1.77	1.76	1.74
40.0			2.05	2.06	2.05	2.03	2.00	1.98	1.96
45.0				2.33	2.32	2.30	2.25	2.23	2.20
50.0					2.61	2.58	2.52	2.50	2.46
55.0						2.87	2.81	2.78	2.73

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	6.86	6.84	6.82	6.81					
15.0	7.69	7.71	7.72	7.72	7.74				
20.0	8.38	8.44	8.47	8.49	8.51	8.53			
25.0	9.01	9.09	9.14	9.17	9.18	9.19	9.20		
30.0	9.60	9.71	9.78	9.81	9.81	9.80	9.78	9.78	9.77
35.0		10.36	10.43	10.46	10.45	10.41	10.36	10.34	10.30
40.0			11.15	11.17	11.14	11.08	10.98	10.94	10.88
45.0				11.99	11.94	11.84	11.71	11.64	11.54
50.0					12.90	12.76	12.58	12.49	12.35
55.0						13.89	13.65	13.53	13.35

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	19.75	24.40	29.80	36.20					
15.0	19.50	24.20	29.60	36.00	43.40				
20.0	19.20	23.90	29.40	35.70	43.10	51.50			
25.0	18.90	23.60	29.10	35.40	42.70	51.10	60.70		
30.0	18.60	23.30	28.80	35.00	42.30	50.60	60.10	64.30	70.90
35.0		23.00	28.40	34.60	41.80	50.10	59.60	63.70	70.30
40.0			28.00	34.20	41.30	49.50	58.90	63.00	69.60
45.0				33.60	40.70	48.80	58.20	62.30	68.80
50.0					40.10	48.10	57.40	61.50	68.00
55.0						47.40	56.60	60.70	67.20

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	8.61
Length/Width, mm	243/244
Height, mm	391
Net Weight, kg	27.3
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
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 (8.5)
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	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	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
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