



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return
- 10 K Suction Superheat
- 25 °C Suction Gas Return with Voltage limit ± 0 %
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

50 Hz

ZB21KCE-PFJ

R134a

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
10.0	2.43	3.12	3.90	4.81						
15.0	2.32	3.00	3.77	4.66						
20.0	2.20	2.87	3.62	4.49	5.49					
25.0	2.07	2.73	3.47	4.30	5.27	6.41	6.92			
30.0	1.94	2.58	3.30	4.11	5.05	6.14	6.63	7.43	8.15	
35.0	1.79	2.43	3.12	3.91	4.81	5.86	6.33	7.09	7.78	8.53
40.0	1.64	2.26	2.94	3.69	4.56	5.56	6.01	6.74	7.40	8.12
45.0		2.09	2.75	3.47	4.30	5.26	5.68	6.38	7.01	7.70
50.0		1.92	2.54	3.24	4.03	4.94	5.35	6.01	6.61	7.26
55.0			2.34	3.00	3.75	4.62	5.00	5.63	6.20	6.82
60.0				2.76	3.46	4.28	4.64	5.23	5.77	6.36
65.0				2.50	3.17	3.94	4.28	4.83	5.34	5.89
70.0					2.87	3.59	3.90	4.42	4.89	5.41
75.0					2.56	3.22	3.52	4.00	4.44	4.91

Cond °C	Power, kW									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	0.78	0.78	0.77	0.74						
15.0	0.83	0.85	0.84	0.82						
20.0	0.89	0.92	0.92	0.90	0.88					
25.0	0.97	0.99	1.00	0.99	0.97	0.95	0.94			
30.0	1.06	1.08	1.10	1.09	1.08	1.06	1.06	1.04	1.03	
35.0	1.16	1.20	1.20	1.20	1.20	1.18	1.18	1.17	1.16	1.16
40.0	1.29	1.32	1.33	1.33	1.32	1.31	1.30	1.30	1.30	1.30
45.0		1.46	1.48	1.48	1.46	1.46	1.46	1.45	1.45	1.46
50.0		1.64	1.64	1.64	1.64	1.62	1.62	1.62	1.62	1.62
55.0			1.84	1.84	1.82	1.81	1.80	1.80	1.80	1.80
60.0				2.06	2.04	2.02	2.01	2.01	2.01	2.01
65.0				2.31	2.28	2.26	2.25	2.24	2.24	2.24
70.0					2.56	2.53	2.52	2.51	2.50	2.50
75.0					2.87	2.83	2.82	2.80	2.79	2.78

50 Hz

ZB21KCE-PFJ

R134a

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
10.0	4.76	4.80	4.78	4.70						
15.0	4.91	4.98	4.98	4.93						
20.0	5.12	5.20	5.22	5.19	5.13					
25.0	5.40	5.48	5.51	5.50	5.46	5.39	5.36			
30.0	5.74	5.83	5.87	5.87	5.84	5.79	5.77	5.74	5.71	
35.0	6.18	6.26	6.30	6.30	6.28	6.25	6.23	6.21	6.19	6.18
40.0	6.71	6.79	6.82	6.82	6.80	6.77	6.76	6.74	6.73	6.73
45.0		7.42	7.44	7.43	7.41	7.38	7.37	7.36	7.35	7.35
50.0		8.17	8.17	8.15	8.12	8.08	8.07	8.05	8.05	8.05
55.0			9.03	8.99	8.94	8.89	8.87	8.85	8.84	8.84
60.0				9.96	9.88	9.81	9.79	9.77	9.75	9.74
65.0				11.07	10.97	10.87	10.84	10.80	10.78	10.77
70.0					12.20	12.08	12.03	11.98	11.94	11.92
75.0					13.60	13.44	13.38	13.31	13.25	13.22

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
10.0	13.45	16.95	20.80	25.30						
15.0	13.35	16.95	20.90	25.40						
20.0	13.20	16.90	20.90	25.40	30.60					
25.0	13.00	16.80	20.90	25.40	30.60	36.50	39.10			
30.0	12.70	16.60	20.80	25.40	30.50	36.50	39.10	43.30	47.10	
35.0	12.35	16.40	20.60	25.20	30.40	36.40	39.00	43.20	47.00	51.00
40.0	11.90	16.10	20.40	25.10	30.30	36.20	38.80	43.00	46.80	50.80
45.0		15.70	20.10	24.90	30.10	36.00	38.60	42.80	46.50	50.60
50.0		15.25	19.80	24.60	29.80	35.70	38.30	42.50	46.20	50.30
55.0			19.35	24.20	29.50	35.40	38.00	42.10	45.90	49.90
60.0				23.80	29.10	35.00	37.60	41.70	45.50	49.50
65.0				23.30	28.60	34.50	37.10	41.30	45.00	49.00
70.0					28.10	34.00	36.60	40.70	44.40	48.40
75.0					27.40	33.40	36.00	40.10	43.80	47.80

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	62
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	1430
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