



Minimum Evaporating Temp. With:

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

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

50 Hz

ZB19KCE-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	2.28	2.84	3.49	4.27						
15.0	2.09	2.64	3.28	4.03						
20.0	1.92	2.46	3.08	3.81	4.67					
25.0	1.76	2.29	2.90	3.61	4.43	5.41	5.85			
30.0	1.62	2.14	2.73	3.41	4.21	5.15	5.57	6.25	6.87	
35.0	1.48	1.99	2.56	3.22	3.99	4.89	5.29	5.95	6.54	7.19
40.0	1.34	1.85	2.40	3.04	3.77	4.63	5.02	5.65	6.22	6.83
45.0		1.71	2.25	2.85	3.56	4.38	4.75	5.34	5.89	6.48
50.0		1.56	2.08	2.67	3.34	4.12	4.47	5.04	5.56	6.12
55.0			1.92	2.47	3.11	3.85	4.18	4.72	5.21	5.75
60.0				2.27	2.88	3.58	3.89	4.40	4.86	5.36
65.0				2.06	2.63	3.28	3.58	4.06	4.49	4.97
70.0					2.36	2.98	3.25	3.70	4.10	4.55
75.0					2.08	2.65	2.90	3.31	3.69	4.11

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	0.35	0.33	0.31	0.29						
15.0	0.53	0.51	0.50	0.48						
20.0	0.67	0.66	0.66	0.65	0.64					
25.0	0.80	0.79	0.79	0.79	0.78	0.77	0.76			
30.0	0.91	0.90	0.90	0.90	0.90	0.90	0.90	0.89	0.89	
35.0	1.01	1.01	1.02	1.02	1.02	1.02	1.02	1.02	1.01	1.01
40.0	1.12	1.12	1.12	1.12	1.13	1.13	1.13	1.13	1.13	1.12
45.0		1.24	1.24	1.24	1.25	1.25	1.25	1.25	1.25	1.25
50.0		1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38
55.0			1.54	1.53	1.53	1.53	1.53	1.53	1.52	1.52
60.0				1.72	1.72	1.71	1.70	1.70	1.70	1.70
65.0				1.95	1.94	1.93	1.92	1.92	1.92	1.91
70.0					2.21	2.19	2.19	2.18	2.17	2.16
75.0					2.54	2.51	2.50	2.49	2.48	2.47

50 Hz

ZB19KCE-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	2.83	2.72	2.61	2.49						
15.0	3.52	3.45	3.38	3.30						
20.0	4.08	4.04	4.00	3.96	3.90					
25.0	4.55	4.52	4.51	4.50	4.47	4.42	4.39			
30.0	4.96	4.95	4.95	4.96	4.96	4.94	4.92	4.89	4.85	
35.0	5.36	5.35	5.36	5.38	5.40	5.40	5.39	5.38	5.35	5.32
40.0	5.78	5.77	5.78	5.81	5.83	5.85	5.85	5.84	5.83	5.80
45.0		6.24	6.25	6.27	6.30	6.32	6.32	6.32	6.32	6.30
50.0		6.81	6.81	6.82	6.84	6.86	6.86	6.86	6.86	6.85
55.0			7.49	7.48	7.49	7.50	7.50	7.50	7.49	7.48
60.0				8.30	8.29	8.28	8.28	8.27	8.25	8.24
65.0				9.32	9.28	9.24	9.23	9.21	9.19	9.16
70.0					10.50	10.43	10.40	10.37	10.33	10.29
75.0					11.98	11.87	11.83	11.77	11.72	11.67

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	12.65	15.45	18.65	22.40						
15.0	12.05	14.90	18.20	22.00						
20.0	11.50	14.45	17.80	21.60	26.00					
25.0	11.05	14.10	17.45	21.30	25.70	30.80	33.10			
30.0	10.60	13.75	17.15	21.00	25.50	30.60	32.80	36.40	39.70	
35.0	10.20	13.45	16.95	20.80	25.30	30.40	32.60	36.20	39.50	43.00
40.0	9.80	13.15	16.70	20.60	25.10	30.20	32.40	36.00	39.30	42.80
45.0		12.85	16.45	20.40	24.90	30.00	32.20	35.80	39.10	42.60
50.0		12.50	16.20	20.20	24.70	29.80	32.00	35.60	38.90	42.30
55.0			15.90	19.95	24.50	29.50	31.80	35.40	38.60	42.10
60.0				19.60	24.10	29.20	31.50	35.10	38.30	41.70
65.0				19.15	23.70	28.80	31.00	34.60	37.80	41.30
70.0					23.10	28.20	30.40	34.00	37.30	40.70
75.0					22.20	27.40	29.70	33.30	36.50	40.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	6.83
Length/Width, mm	242/242
Height, mm	389
Net Weight, kg	25.8
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Oil Quantity, l	1.12
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	55
Sound Power (MT), dBA	66
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	1430
Refrigerant's classification	A1

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

Maximum Operating Current, A	12.8
Locked Rotor Current, A	61
Winding Resistance, ohm	2.23/1.2 (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
Sound Attenuation	Sound Shell (10dBA)
Rotalock valves	suction and discharge
Single Phase Equipment	Start Relay and Capacitor
Single Phase Equipment	Run Capacitor
Oil Control System	ALCO Trax-Oil OM3

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