



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return
- 10 K Suction Superheat
- Maximum Evaporating Temperature

Suction Return Temperature 20.0°C

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	3.38	4.17	5.11						
15.0	3.25	4.00	4.90	5.94					
20.0	3.10	3.82	4.67	5.67	6.81				
25.0	2.94	3.63	4.44	5.37	6.46	7.70			
30.0	2.77	3.42	4.18	5.06	6.08	7.25	8.58	9.16	10.10
35.0	2.59	3.20	3.91	4.74	5.69	6.78	8.02	8.57	9.43
40.0	2.40	2.97	3.63	4.39	5.28	6.29	7.45	7.95	8.76
45.0	2.19	2.72	3.33	4.03	4.85	5.78	6.85	7.32	8.07
50.0		2.46	3.01	3.65	4.39	5.25	6.23	6.66	7.34
55.0			2.68	3.26	3.92	4.69	5.58	5.97	6.60
60.0				2.84	3.43	4.12	4.91	5.26	5.83

50 Hz

ZB19KCE-PFJ

R404A 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	0.90	0.90	0.90						
15.0	1.01	1.01	1.02	1.02					
20.0	1.14	1.14	1.14	1.14	1.14				
25.0	1.28	1.28	1.28	1.28	1.28	1.27			
30.0	1.43	1.43	1.44	1.43	1.43	1.42	1.42	1.41	1.40
35.0	1.60	1.61	1.61	1.61	1.60	1.60	1.58	1.58	1.57
40.0	1.81	1.81	1.81	1.80	1.80	1.79	1.78	1.77	1.76
45.0	2.04	2.04	2.04	2.03	2.02	2.01	2.00	1.98	1.98
50.0		2.29	2.29	2.29	2.28	2.26	2.24	2.23	2.22
55.0			2.58	2.57	2.56	2.54	2.52	2.51	2.49
60.0				2.89	2.88	2.86	2.83	2.82	2.80

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	6.70	6.70	6.69						
15.0	6.95	6.95	6.95	6.95					
20.0	7.24	7.25	7.26	7.26	7.26				
25.0	7.59	7.60	7.61	7.61	7.61	7.60			
30.0	8.01	8.03	8.04	8.04	8.03	8.02	8.00	8.00	7.99
35.0	8.51	8.53	8.54	8.54	8.53	8.51	8.49	8.48	8.46
40.0	9.11	9.14	9.15	9.14	9.13	9.10	9.07	9.05	9.03
45.0	9.83	9.86	9.87	9.86	9.84	9.80	9.75	9.73	9.70
50.0		10.70	10.71	10.70	10.67	10.62	10.56	10.54	10.49
55.0			11.69	11.68	11.64	11.58	11.51	11.48	11.42
60.0				12.81	12.76	12.69	12.61	12.57	12.50

50 Hz

ZB19KCE-PFJ

R404A Dew Point

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	19.05	23.60	29.00						
15.0	19.05	23.60	29.00	35.50					
20.0	19.00	23.60	29.00	35.40	43.00				
25.0	18.90	23.50	28.90	35.20	42.70	51.50			
30.0	18.75	23.30	28.70	35.00	42.40	51.20	61.40	66.00	73.40
35.0	18.50	23.00	28.40	34.60	42.00	50.70	60.90	65.50	72.90
40.0	18.20	22.70	28.00	34.20	41.50	50.10	60.30	64.90	72.30
45.0	17.75	22.20	27.40	33.60	40.80	49.40	59.50	64.10	71.60
50.0		21.70	26.80	32.90	40.00	48.50	58.70	63.30	70.80
55.0			26.00	32.00	39.10	47.60	57.70	62.30	70.00
60.0				31.10	38.10	46.60	56.80	61.50	69.30

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /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	3922
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
Single Phase Equipment	Run Capacitor
Single Phase Equipment	Start Relay and Capacitor
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (10dBA)
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