



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	3.07	3.82	4.72	5.79					
15.0	2.92	3.65	4.52	5.55	6.76				
20.0	2.76	3.46	4.30	5.29	6.45	7.81			
25.0	2.59	3.27	4.07	5.02	6.14	7.44	8.94		
30.0	2.42	3.08	3.84	4.75	5.81	7.05	8.49	9.12	10.15
35.0		2.87	3.60	4.46	5.47	6.65	8.03	8.63	9.61
40.0			3.36	4.17	5.12	6.24	7.55	8.13	9.06
45.0				3.87	4.77	5.82	7.06	7.61	8.50
50.0					4.40	5.39	6.56	7.08	7.92
55.0						4.95	6.05	6.54	7.33

50 Hz

ZB19KCE-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	0.68	0.69	0.70	0.71					
15.0	0.81	0.82	0.83	0.84	0.84				
20.0	0.96	0.97	0.98	0.98	0.99	0.99			
25.0	1.12	1.14	1.14	1.14	1.14	1.14	1.14		
30.0	1.31	1.32	1.32	1.32	1.32	1.30	1.30	1.30	1.29
35.0		1.52	1.52	1.51	1.50	1.49	1.48	1.47	1.46
40.0			1.74	1.72	1.70	1.68	1.66	1.66	1.64
45.0				1.95	1.93	1.90	1.87	1.86	1.84
50.0					2.17	2.13	2.09	2.07	2.05
55.0						2.38	2.33	2.31	2.27

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	5.37	5.42	5.45	5.46					
15.0	6.06	6.12	6.16	6.18	6.19				
20.0	6.66	6.72	6.76	6.78	6.80	6.80			
25.0	7.22	7.26	7.29	7.31	7.32	7.32	7.32		
30.0	7.77	7.80	7.81	7.81	7.81	7.80	7.78	7.77	7.76
35.0		8.36	8.35	8.33	8.30	8.27	8.24	8.22	8.20
40.0			8.95	8.90	8.85	8.79	8.73	8.70	8.66
45.0				9.58	9.49	9.39	9.29	9.25	9.20
50.0					10.27	10.12	9.98	9.93	9.84
55.0						11.03	10.84	10.76	10.65

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	16.65	20.40	24.90	30.00					
15.0	16.50	20.30	24.70	29.90	35.90				
20.0	16.25	20.10	24.50	29.70	35.70	42.50			
25.0	16.00	19.85	24.30	29.40	35.40	42.20	50.00		
30.0	15.70	19.55	24.00	29.10	35.10	41.90	49.70	53.10	58.40
35.0		19.25	23.70	28.80	34.70	41.50	49.20	52.60	58.00
40.0			23.30	28.40	34.20	41.00	48.70	52.10	57.50
45.0				27.90	33.70	40.40	48.20	51.60	57.00
50.0					33.10	39.80	47.50	50.90	56.40
55.0						39.20	46.80	50.20	55.70

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	56
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	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

<i>Motor Code</i>	<i>Power Supply</i>	<i>Nominal Voltage, V</i>	<i>Start Connection</i>	<i>DOL Connection</i>	<i>Amps Factor</i>
PFJ	220-240 V / 1~ / 50 Hz	230		PSC	1.00
PFJ	265 V / 1~ / 60 Hz	265		PSC	0.75