



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	4.32	5.33	6.53						
15.0	4.15	5.12	6.26	7.60					
20.0	3.96	4.89	5.98	7.24	8.71				
25.0	3.76	4.64	5.67	6.87	8.25	9.84			
30.0	3.54	4.38	5.35	6.48	7.78	9.27	10.95	11.70	12.90
35.0	3.31	4.09	5.00	6.06	7.27	8.67	10.25	10.95	12.05
40.0	3.06	3.79	4.64	5.62	6.75	8.04	9.52	10.15	11.20
45.0	2.80	3.48	4.26	5.16	6.20	7.39	8.76	9.35	10.30
50.0		3.14	3.85	4.67	5.62	6.71	7.96	8.51	9.39
55.0			3.43	4.16	5.02	6.00	7.13	7.63	8.44
60.0				3.63	4.39	5.27	6.28	6.73	7.45

50 Hz

ZB21KCE-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	1.14	1.14	1.15						
15.0	1.28	1.29	1.29	1.30					
20.0	1.44	1.44	1.45	1.45	1.45				
25.0	1.62	1.62	1.62	1.62	1.62	1.62			
30.0	1.82	1.82	1.82	1.82	1.82	1.81	1.80	1.80	1.79
35.0	2.05	2.05	2.05	2.05	2.04	2.03	2.02	2.01	2.00
40.0	2.30	2.31	2.31	2.30	2.29	2.28	2.26	2.25	2.24
45.0	2.59	2.60	2.59	2.59	2.58	2.56	2.54	2.53	2.51
50.0		2.92	2.92	2.91	2.90	2.88	2.85	2.84	2.82
55.0			3.28	3.28	3.26	3.24	3.21	3.20	3.17
60.0				3.68	3.66	3.64	3.61	3.59	3.57

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	8.61	8.60	8.60						
15.0	8.93	8.93	8.93	8.93					
20.0	9.30	9.31	9.32	9.32	9.32				
25.0	9.75	9.76	9.77	9.77	9.77	9.77			
30.0	10.29	10.31	10.32	10.32	10.31	10.30	10.28	10.27	10.26
35.0	10.93	10.96	10.97	10.97	10.95	10.93	10.90	10.88	10.86
40.0	11.71	11.74	11.75	11.75	11.72	11.69	11.64	11.62	11.59
45.0	12.62	12.66	12.67	12.66	12.63	12.59	12.53	12.50	12.45
50.0		13.75	13.76	13.74	13.70	13.65	13.57	13.53	13.47
55.0			15.02	15.00	14.95	14.88	14.79	14.74	14.67
60.0				16.45	16.40	16.31	16.20	16.15	16.06

50 Hz

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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	24.30	30.10	37.10						
15.0	24.30	30.20	37.10	45.40					
20.0	24.30	30.10	37.10	45.30	54.90				
25.0	24.20	30.00	36.90	45.10	54.70	65.90			
30.0	24.00	29.80	36.60	44.70	54.30	65.40	78.50	84.40	93.90
35.0	23.70	29.40	36.30	44.30	53.70	64.80	77.90	83.70	93.30
40.0	23.20	29.00	35.70	43.70	53.10	64.10	77.10	82.90	92.50
45.0	22.70	28.40	35.10	42.90	52.20	63.20	76.10	82.00	91.50
50.0		27.70	34.30	42.00	51.20	62.10	75.00	80.90	90.50
55.0			33.30	40.90	50.00	60.80	73.80	79.70	89.40
60.0				39.70	48.70	59.60	72.70	78.70	88.60

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /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	3922
Refrigerant's classification	A1

50 Hz

ZB21KCE-PFJ

R404A Dew Point

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