



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	5.82	7.20	8.82	10.70					
15.0	5.54	6.87	8.43	10.25	12.30				
20.0	5.25	6.52	8.01	9.74	11.70	13.95			
25.0	4.94	6.16	7.58	9.22	11.10	13.20	15.60		
30.0	4.61	5.78	7.13	8.67	10.45	12.45	14.70	15.65	17.25
35.0	4.27	5.38	6.65	8.10	9.76	11.65	13.75	14.65	16.10
40.0	3.91	4.96	6.15	7.51	9.05	10.80	12.75	13.60	14.95
45.0	3.52	4.51	5.63	6.89	8.31	9.93	11.75	12.55	13.80
50.0		4.04	5.08	6.24	7.55	9.02	10.70	11.40	12.55
55.0			4.49	5.55	6.75	8.09	9.60	10.25	11.30
60.0				4.84	5.91	7.12	8.48	9.07	10.00

50 Hz

ZB30KCE-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	1.73	1.76	1.80	1.84					
15.0	1.89	1.92	1.94	1.98	2.03				
20.0	2.07	2.09	2.12	2.15	2.19	2.25			
25.0	2.27	2.30	2.32	2.35	2.38	2.43	2.49		
30.0	2.50	2.52	2.55	2.57	2.60	2.64	2.69	2.71	2.75
35.0	2.76	2.78	2.80	2.82	2.85	2.88	2.92	2.94	2.98
40.0	3.04	3.06	3.09	3.11	3.13	3.16	3.19	3.21	3.24
45.0	3.35	3.38	3.40	3.42	3.44	3.47	3.50	3.51	3.54
50.0		3.73	3.75	3.77	3.79	3.82	3.84	3.86	3.88
55.0			4.14	4.16	4.18	4.20	4.23	4.24	4.26
60.0				4.59	4.61	4.63	4.65	4.66	4.68

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	9.77	9.90	10.06	10.28					
15.0	10.46	10.58	10.72	10.90	11.14				
20.0	11.26	11.37	11.50	11.66	11.86	12.12			
25.0	12.19	12.30	12.42	12.55	12.72	12.95	13.23		
30.0	13.26	13.37	13.48	13.60	13.75	13.94	14.18	14.30	14.50
35.0	14.46	14.58	14.69	14.80	14.93	15.09	15.30	15.41	15.58
40.0	15.82	15.95	16.06	16.17	16.29	16.43	16.61	16.70	16.85
45.0	17.34	17.49	17.61	17.72	17.83	17.96	18.11	18.19	18.32
50.0		19.21	19.34	19.46	19.56	19.68	19.82	19.88	19.99
55.0			21.26	21.39	21.50	21.61	21.74	21.79	21.89
60.0				23.53	23.65	23.76	23.88	23.93	24.01

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	32.70	40.70	50.20	61.40					
15.0	32.50	40.50	50.00	61.20	74.20				
20.0	32.20	40.20	49.70	60.90	73.90	89.00			
25.0	31.70	39.80	49.30	60.40	73.40	88.50	106.00		
30.0	31.20	39.30	48.80	59.90	72.80	87.80	105.00	113.00	125.50
35.0	30.50	38.70	48.20	59.20	72.10	87.00	104.50	112.00	124.50
40.0	29.70	37.90	47.40	58.40	71.20	86.00	103.50	111.00	123.50
45.0	28.60	36.90	46.40	57.40	70.10	84.80	102.00	110.00	122.50
50.0		35.60	45.20	56.10	68.70	83.50	101.00	108.50	121.00
55.0			43.60	54.60	67.20	82.00	99.40	107.00	120.00
60.0				52.90	65.60	80.50	98.10	106.00	119.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	11.7
Length/Width, mm	242/242
Height, mm	438
Net Weight, kg	35.4
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Oil Quantity, l	1.9
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	61
Sound Power (MT), dBA	72
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	4.30
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

ZB30KCE-PFJ

R404A Dew Point

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

Maximum Operating Current, A	26.4
Locked Rotor Current, A	142
Winding Resistance, ohm	0.4/0.96 (R/S)
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Mounting Grommets	Standard
Discharge Temperature Protection	Internal Thermodisk

ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
Single Phase Equipment	Run Capacitor
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (10dBA)
Rotalock valves	suction and discharge
Single Phase Equipment	Start Relay and Capacitor

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