



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return ASERCOM certified
- 10 K Suction Superheat
- Maximum Evaporating Temperature
- 25 °C Suction Gas Return

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	8.11	10.00	12.25	14.85					
15.0	7.78	9.60	11.75	14.25	17.15				
20.0	7.43	9.17	11.20	13.60	16.35	19.50			
25.0	7.05	8.70	10.65	12.90	15.50	18.45	21.80		
30.0	6.64	8.20	10.05	12.15	14.60	17.40	20.60	22.00	24.20
35.0	6.21	7.67	9.38	11.35	13.65	16.25	19.25	20.50	22.60
40.0	5.74	7.11	8.70	10.55	12.65	15.10	17.85	19.05	21.00
45.0	5.25	6.52	7.98	9.67	11.60	13.85	16.40	17.55	19.35
50.0		5.89	7.22	8.76	10.55	12.60	14.95	15.95	17.60
55.0			6.43	7.81	9.41	11.25	13.40	14.30	15.80
60.0				6.82	8.23	9.88	11.80	12.60	13.95

50 Hz

ZB42KCE-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	2.07	2.07	2.08	2.08					
15.0	2.33	2.33	2.33	2.34	2.34				
20.0	2.61	2.62	2.62	2.62	2.62	2.61			
25.0	2.93	2.94	2.94	2.94	2.93	2.92	2.91		
30.0	3.29	3.30	3.30	3.30	3.29	3.27	3.25	3.25	3.23
35.0	3.70	3.71	3.71	3.70	3.69	3.67	3.65	3.63	3.61
40.0	4.16	4.17	4.17	4.16	4.15	4.12	4.09	4.07	4.05
45.0	4.69	4.69	4.69	4.68	4.66	4.63	4.59	4.58	4.55
50.0		5.28	5.28	5.27	5.24	5.21	5.16	5.14	5.11
55.0			5.94	5.92	5.89	5.85	5.80	5.78	5.74
60.0				6.66	6.62	6.58	6.52	6.49	6.45

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	16.01	16.00	15.98	15.98					
15.0	16.61	16.61	16.61	16.61	16.61				
20.0	17.30	17.32	17.33	17.33	17.33	17.33			
25.0	18.13	18.16	18.18	18.18	18.17	18.16	18.15		
30.0	19.13	19.17	19.19	19.19	19.17	19.14	19.11	19.10	19.07
35.0	20.33	20.38	20.41	20.40	20.37	20.33	20.27	20.24	20.20
40.0	21.76	21.83	21.85	21.84	21.80	21.74	21.65	21.61	21.55
45.0	23.47	23.54	23.56	23.55	23.49	23.41	23.29	23.24	23.16
50.0		25.55	25.58	25.55	25.48	25.37	25.23	25.16	25.05
55.0			27.93	27.89	27.80	27.67	27.49	27.41	27.28
60.0				30.60	30.49	30.33	30.12	30.02	29.87

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	45.60	56.50	69.60	85.10					
15.0	45.60	56.60	69.60	85.10	103.00				
20.0	45.50	56.50	69.50	84.90	103.00	124.00			
25.0	45.30	56.20	69.20	84.50	102.50	123.50	148.00		
30.0	44.90	55.80	68.70	83.90	102.00	122.50	147.50	158.00	176.00
35.0	44.40	55.20	68.00	83.00	101.00	121.50	146.00	157.00	175.00
40.0	43.60	54.40	67.00	81.90	99.50	120.00	144.50	155.50	173.50
45.0	42.60	53.30	65.80	80.50	97.90	118.50	143.00	153.50	171.50
50.0		51.90	64.30	78.80	96.00	116.50	140.50	151.50	169.50
55.0			62.40	76.80	93.80	114.00	138.50	149.50	167.50
60.0				74.50	91.40	111.50	136.50	147.50	166.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	16.2
Length/Width, mm	251/246
Height, mm	438
Net Weight, kg	43
Gross Weight, kg	45
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	62
Sound Power (MT), dBA	73
Sound Power with Sound Shell (MT), dBA	68
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
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

ZB42KCE-PFJ

R404A Dew Point

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

Maximum Operating Current, A	35.7
Locked Rotor Current, A	150
Winding Resistance, ohm	0.42/1.92 (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