



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return
- 10 K Suction Superheat
- 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	6.86	8.63	10.75	13.20					
15.0	6.51	8.22	10.25	12.60	15.40				
20.0	6.17	7.80	9.74	12.00	14.70	17.80			
25.0	5.82	7.38	9.23	11.40	14.00	16.95	20.40		
30.0	5.47	6.95	8.72	10.80	13.25	16.10	19.40	20.90	23.30
35.0	5.11	6.52	8.19	10.15	12.50	15.20	18.40	19.80	22.00
40.0		6.07	7.65	9.53	11.75	14.30	17.30	18.65	20.80
45.0		5.60	7.09	8.86	10.95	13.35	16.20	17.45	19.50
50.0			6.49	8.15	10.10	12.40	15.05	16.20	18.10
55.0				7.39	9.20	11.35	13.80	14.90	16.70
60.0				6.56	8.24	10.20	12.50	13.50	15.15

50 Hz

ZB42KCE-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	1.54	1.55	1.55	1.57					
15.0	1.85	1.86	1.86	1.86	1.88				
20.0	2.18	2.20	2.19	2.19	2.19	2.21			
25.0	2.54	2.57	2.57	2.56	2.55	2.54	2.57		
30.0	2.93	2.97	2.98	2.97	2.95	2.93	2.93	2.94	2.96
35.0	3.35	3.40	3.43	3.43	3.41	3.37	3.34	3.34	3.33
40.0		3.86	3.90	3.91	3.89	3.86	3.81	3.80	3.77
45.0		4.34	4.40	4.42	4.42	4.38	4.33	4.31	4.27
50.0			4.92	4.96	4.97	4.94	4.89	4.86	4.81
55.0				5.52	5.54	5.53	5.48	5.45	5.40
60.0				6.07	6.12	6.12	6.08	6.06	6.01

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	15.47	15.47	15.47	15.50					
15.0	15.94	15.95	15.94	15.95	15.98				
20.0	16.54	16.56	16.56	16.55	16.55	16.60			
25.0	17.28	17.34	17.35	17.32	17.29	17.29	17.35		
30.0	18.19	18.28	18.31	18.29	18.25	18.19	18.18	18.20	18.26
35.0	19.26	19.41	19.48	19.47	19.42	19.33	19.25	19.23	19.23
40.0		20.72	20.85	20.88	20.83	20.72	20.59	20.54	20.47
45.0		22.24	22.43	22.51	22.48	22.37	22.20	22.12	22.00
50.0			24.21	24.36	24.38	24.28	24.09	23.99	23.83
55.0				26.41	26.50	26.44	26.25	26.14	25.95
60.0				28.58	28.79	28.81	28.65	28.54	28.34

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	37.20	46.10	56.50	68.50					
15.0	36.80	45.70	56.00	68.00	81.80				
20.0	36.40	45.20	55.50	67.50	81.30	97.10			
25.0	35.90	44.80	55.00	66.90	80.60	96.40	114.50		
30.0	35.40	44.20	54.50	66.30	80.00	95.70	113.50	121.50	134.00
35.0	34.90	43.70	53.80	65.60	79.20	94.80	112.50	120.50	133.00
40.0		43.00	53.10	64.90	78.40	93.90	111.50	119.50	132.00
45.0		42.10	52.20	63.90	77.40	92.80	110.50	118.00	130.50
50.0			51.10	62.70	76.10	91.40	109.00	116.50	129.00
55.0				61.00	74.30	89.60	107.00	114.50	127.00
60.0				58.70	72.00	87.10	104.50	112.00	124.00

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	63
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	2107
Refrigerant's classification	A1

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