



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	7.36	9.04	10.95	13.10					
15.0	7.00	8.66	10.55	12.65	15.00				
20.0	6.60	8.22	10.05	12.15	14.45	17.00			
25.0	6.18	7.73	9.52	11.55	13.75	16.25	18.95		
30.0	5.73	7.21	8.92	10.85	13.00	15.40	18.00	19.10	20.80
35.0	5.28	6.67	8.28	10.10	12.20	14.45	16.95	18.05	19.70
40.0	4.82	6.11	7.62	9.34	11.30	13.45	15.85	16.85	18.45
45.0	4.38	5.55	6.93	8.53	10.35	12.35	14.60	15.60	17.10
50.0		5.00	6.24	7.69	9.36	11.25	13.35	14.25	15.65
55.0			5.54	6.84	8.34	10.05	12.00	12.80	14.10
60.0				5.98	7.30	8.83	10.55	11.30	12.50

50 Hz

ZB38KCE-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	2.11	2.18	2.28					
15.0	2.26	2.30	2.35	2.43	2.55				
20.0	2.49	2.52	2.56	2.63	2.72	2.85			
25.0	2.74	2.77	2.81	2.86	2.93	3.04	3.19		
30.0	3.02	3.05	3.09	3.13	3.19	3.27	3.40	3.46	3.57
35.0	3.33	3.37	3.40	3.44	3.49	3.56	3.66	3.72	3.81
40.0	3.67	3.72	3.75	3.79	3.83	3.89	3.98	4.02	4.10
45.0	4.04	4.10	4.14	4.18	4.22	4.27	4.34	4.38	4.45
50.0		4.52	4.57	4.61	4.65	4.70	4.76	4.79	4.85
55.0			5.03	5.08	5.13	5.17	5.23	5.26	5.30
60.0				5.60	5.65	5.69	5.75	5.77	5.82

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	12.13	12.25	12.47	12.81					
15.0	12.76	12.86	13.02	13.30	13.72				
20.0	13.52	13.61	13.74	13.96	14.30	14.80			
25.0	14.41	14.50	14.62	14.79	15.07	15.49	16.09		
30.0	15.43	15.55	15.66	15.81	16.04	16.39	16.89	17.15	17.60
35.0	16.60	16.74	16.87	17.01	17.20	17.49	17.92	18.14	18.52
40.0	17.91	18.10	18.25	18.39	18.56	18.81	19.17	19.36	19.69
45.0	19.36	19.62	19.81	19.96	20.13	20.35	20.66	20.82	21.10
50.0		21.30	21.54	21.73	21.91	22.11	22.38	22.52	22.76
55.0			23.46	23.70	23.89	24.10	24.35	24.47	24.68
60.0				25.86	26.10	26.31	26.55	26.67	26.86

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	41.40	51.10	62.30	75.00					
15.0	41.10	51.00	62.50	75.60	90.50				
20.0	40.50	50.60	62.40	75.80	91.10	108.00			
25.0	39.70	50.00	61.90	75.60	91.20	108.50	128.50		
30.0	38.80	49.10	61.10	75.00	90.80	108.50	129.00	137.50	152.00
35.0	37.70	48.00	60.00	74.00	90.00	108.00	129.00	138.00	152.50
40.0	36.60	46.70	58.70	72.70	88.80	107.00	128.00	137.50	152.00
45.0	35.60	45.40	57.20	71.00	87.20	106.00	127.00	136.50	151.50
50.0		44.10	55.50	69.20	85.20	104.00	125.50	135.00	150.50
55.0			53.80	67.20	83.10	102.00	124.00	133.50	149.50
60.0				65.30	81.00	99.90	122.50	132.50	149.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	14.4
Length/Width, mm	242/242
Height, mm	438
Net Weight, kg	37.5
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	63
Sound Power (MT), dBA	74
Sound Power with Sound Shell (MT), dBA	64
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	4.20
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

ZB38KCE-PFJ

R404A Dew Point

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

Maximum Operating Current, A	32.3
Locked Rotor Current, A	142
Winding Resistance, ohm	0.4/0.96 (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