



Minimum Evaporating Temp. With:

- 10 K Suction Superheat
- 20 °C Suction Gas Return
- 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	5.24	6.28	7.55	9.05					
15.0	5.01	6.10	7.42	8.97	10.75				
20.0	4.72	5.84	7.19	8.77	10.60	12.65			
25.0	4.41	5.54	6.89	8.48	10.30	12.35	14.65		
30.0	4.08	5.19	6.53	8.10	9.91	11.95	14.25	15.20	16.75
35.0	3.74	4.82	6.13	7.66	9.43	11.45	13.70	14.65	16.20
40.0		4.44	5.69	7.16	8.88	10.85	13.05	14.00	15.45
45.0			5.24	6.64	8.27	10.15	12.25	13.20	14.65
50.0				6.08	7.62	9.40	11.45	12.30	13.70
55.0					6.94	8.60	10.50	11.35	12.70

50 Hz

ZB30KCE-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	1.25	1.25	1.25	1.23					
15.0	1.42	1.44	1.44	1.42	1.41				
20.0	1.61	1.63	1.64	1.64	1.63	1.61			
25.0	1.80	1.84	1.86	1.86	1.87	1.86	1.84		
30.0	2.02	2.06	2.09	2.11	2.13	2.13	2.12	2.11	2.09
35.0	2.25	2.30	2.35	2.38	2.40	2.42	2.42	2.42	2.41
40.0		2.56	2.62	2.67	2.71	2.73	2.75	2.75	2.75
45.0			2.92	2.98	3.04	3.08	3.11	3.11	3.12
50.0				3.33	3.39	3.45	3.49	3.51	3.52
55.0					3.78	3.85	3.91	3.93	3.96

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	7.21	7.22	7.19	7.10					
15.0	8.14	8.19	8.20	8.15	8.06				
20.0	9.08	9.18	9.23	9.23	9.18	9.08			
25.0	10.05	10.21	10.31	10.36	10.36	10.31	10.21		
30.0	11.08	11.29	11.45	11.56	11.62	11.62	11.57	11.53	11.46
35.0	12.17	12.45	12.68	12.85	12.97	13.03	13.03	13.02	12.98
40.0		13.71	14.00	14.24	14.43	14.55	14.62	14.64	14.64
45.0			15.45	15.77	16.02	16.22	16.36	16.40	16.44
50.0				17.43	17.77	18.04	18.26	18.33	18.41
55.0					19.69	20.04	20.34	20.44	20.58

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	28.40	33.60	39.70	47.00					
15.0	28.30	33.90	40.60	48.40	57.10				
20.0	27.90	33.90	41.00	49.30	58.50	68.80			
25.0	27.20	33.60	41.10	49.70	59.40	70.20	82.00		
30.0	26.50	33.00	40.80	49.70	59.80	71.00	83.30	88.50	96.50
35.0	25.60	32.30	40.20	49.40	59.80	71.30	84.00	89.30	97.70
40.0		31.50	39.50	48.80	59.30	71.10	84.10	89.60	98.30
45.0			38.60	47.90	58.50	70.50	83.70	89.40	98.20
50.0				46.80	57.40	69.40	82.80	88.60	97.60
55.0					56.10	68.00	81.50	87.30	96.40

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/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	2107
Refrigerant's classification	A1

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

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

<i>Motor Code</i>	<i>Power Supply</i>	<i>Nominal Voltage, V</i>	<i>Start Connection</i>	<i>DOL Connection</i>	<i>Amps Factor</i>
PFJ	220-240 V / 1~ / 50 Hz	230		PSC	1.00
PFJ	265 V / 1~ / 60 Hz	265		PSC	0.75