



Minimum Evaporating Temp. With:

- 10 K Suction Superheat
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	6.69	8.33	10.30	12.60						
15.0	6.33	7.93	9.81	12.00	14.60					
20.0	5.97	7.52	9.33	11.45	13.90	16.75				
25.0	5.60	7.10	8.85	10.90	13.25	15.95	17.15	19.05		
30.0	5.21	6.66	8.34	10.30	12.55	15.10	16.25	18.05	19.70	21.40
35.0	4.78	6.20	7.81	9.67	11.80	14.25	15.35	17.05	18.60	20.30
40.0	4.32	5.70	7.25	9.03	11.05	13.40	14.40	16.05	17.50	19.05
45.0		5.15	6.65	8.34	10.25	12.45	13.45	14.95	16.35	17.80
50.0			5.99	7.60	9.42	11.50	12.40	13.85	15.15	16.55
55.0				6.80	8.52	10.45	11.30	12.65	13.90	15.15
60.0					7.53	9.34	10.10	11.40	12.50	13.70
65.0						8.08	8.80	9.95	11.00	12.05

50 Hz

ZP54K5E-PFJ

R410A Dew Point

Cond °C	Power, kW									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	1.51	1.47	1.42	1.36						
15.0	1.74	1.70	1.67	1.62	1.58					
20.0	1.96	1.94	1.92	1.88	1.85	1.82				
25.0	2.20	2.19	2.17	2.15	2.12	2.10	2.09	2.08		
30.0	2.47	2.46	2.44	2.42	2.40	2.38	2.38	2.37	2.37	2.37
35.0	2.78	2.77	2.75	2.73	2.71	2.69	2.69	2.68	2.68	2.69
40.0	3.15	3.13	3.10	3.08	3.05	3.03	3.03	3.02	3.02	3.02
45.0		3.55	3.51	3.48	3.44	3.42	3.41	3.40	3.40	3.40
50.0			4.00	3.95	3.90	3.86	3.85	3.83	3.82	3.82
55.0				4.49	4.43	4.38	4.36	4.33	4.32	4.31
60.0					5.05	4.97	4.95	4.91	4.89	4.87
65.0						5.67	5.63	5.58	5.55	5.52

Cond °C	Current at 230 V, A									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	8.37	8.20	7.98	7.72						
15.0	9.15	9.04	8.89	8.70	8.49					
20.0	9.98	9.92	9.81	9.68	9.53	9.37				
25.0	10.91	10.88	10.80	10.70	10.59	10.48	10.44	10.39		
30.0	12.00	11.97	11.90	11.82	11.72	11.64	11.62	11.58	11.57	11.57
35.0	13.29	13.25	13.17	13.08	12.99	12.92	12.89	12.87	12.86	12.87
40.0	14.84	14.76	14.66	14.55	14.44	14.35	14.33	14.30	14.29	14.30
45.0		16.57	16.42	16.27	16.12	16.00	15.97	15.92	15.90	15.90
50.0			18.50	18.28	18.09	17.92	17.86	17.79	17.75	17.73
55.0				20.66	20.38	20.15	20.07	19.96	19.89	19.84
60.0					23.07	22.74	22.63	22.47	22.36	22.27
65.0						25.76	25.61	25.39	25.23	25.09

Cond °C	Suction Mass Flow, g/s									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	32.20	39.70	48.50	58.80						
15.0	31.70	39.20	48.00	58.30	70.10					
20.0	31.20	38.80	47.60	57.80	69.50	83.00				
25.0	30.50	38.20	47.10	57.20	68.90	82.30	88.10	97.50		
30.0	29.70	37.60	46.50	56.70	68.30	81.50	87.30	96.60	105.00	113.50
35.0	28.80	36.70	45.70	56.00	67.60	80.70	86.50	95.70	104.00	112.50
40.0	27.50	35.70	44.80	55.10	66.70	79.80	85.60	94.70	103.00	111.50
45.0		34.30	43.60	54.00	65.60	78.80	84.50	93.60	102.00	110.50
50.0			42.10	52.60	64.30	77.50	83.20	92.40	100.50	109.00
55.0				50.80	62.70	76.00	81.70	90.90	99.00	107.50
60.0					60.60	74.10	79.90	89.10	97.30	106.00
65.0						71.80	77.80	87.10	95.50	104.50

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	8.90
Length/Width, mm	246/246
Height, mm	418
Net Weight, kg	34
Stub Suction, inch	7/8
Stub Discharge, inch	1/2
Oil Quantity, l	1.24
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF
Base mounting (hole dia), mm	190 x 190 (19)
Sound Pressure @ 1m (HT), dBA	59
Sound Power (HT), dBA	70
Sound Conditions (HT, Temperatures:	7 / 54 / 18 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	1
Max. Internal Free Volume, l	3.10
High Side PS gauge, bar	45
Low Side PS gauge, bar	29.5
Low Side TS Min., °C	-35
Refrigerant's GWP	2088
Refrigerant's classification	A1

50 Hz

ZP54K5E-PFJ

R410A Dew Point

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

Maximum Operating Current, A	31
Locked Rotor Current, A	128
Winding Resistance, ohm	0.5/0.9 (R/S)
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Mounting Grommets	Rubber Grommet For Single
-------------------	---------------------------

ACCESSORIES OPTIONAL

Crankcase Heater	40 W External
------------------	---------------

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