

Rating Conditions

11.1 K Superheat
 8.3 K Subcooling
 35 °C Ambient Air Over

50 Hz Operation

AIR CONDITIONING

ZP31K5E-PFJ

HFC-410A
 COPELAND SCROLL®
 PFJ 220/240-1-50

Condensing Temperature °C
 (Sat. Dew Pt. Pressure, bar) Evaporating Temperature °C (Sat. Dew Pt. Pressure, bar)

	-20.0(4)	-15.0(4.8)	-10.0(5.7)	-5.0(6.8)	0.0(8)	5.0(9.3)	7.0(9.9)	10.0(10.8)	12.0(11.5)
62.0 (40.1) C P A M E %						5,700	6,250	7,100	7,700
						3,280	3,250	3,210	3,190
						14.8	14.7	14.5	14.4
						40	44	50	54
						1.7	1.9	2.2	2.4
						52.9	55.6	59.2	61.3
60.0 (38.3) C P A M E %					4,650	5,950	6,550	7,400	8,050
					3,190	3,100	3,070	3,040	3,020
					14.4	14.0	13.9	13.7	13.6
					32	41	44	50	54
					1.5	1.9	2.1	2.4	2.7
					47.8	55.1	57.7	61.1	63.0
55.0 (34.3) C P A M E %				4,050	5,250	6,600	7,200	8,100	8,750
				2,840	2,760	2,700	2,680	2,650	2,630
				12.8	12.5	12.2	12.1	12.0	11.9
				27	34	42	46	51	55
				1.4	1.9	2.5	2.7	3.1	3.3
				45.8	53.7	60.4	62.6	65.3	66.6
50.0 (30.6) C P A M E %			3,450	4,550	5,800	7,200	7,800	8,800	9,450
			2,530	2,460	2,400	2,350	2,330	2,320	2,310
			11.4	11.1	10.9	10.7	10.6	10.5	10.4
			22	28	35	44	47	52	56
			1.4	1.9	2.4	3.1	3.4	3.8	4.1
			43.5	51.9	59.1	64.8	66.5	68.4	69.1
45.0 (27.3) C P A M E %		2,900	3,900	5,050	6,350	7,800	8,400	9,400	10,100
		2,250	2,190	2,130	2,090	2,050	2,040	2,030	2,020
		10.2	9.9	9.7	9.5	9.3	9.3	9.2	9.2
		17	23	29	37	44	48	53	57
		1.3	1.8	2.4	3.0	3.8	4.1	4.6	5.0
		40.8	49.5	57.3	63.6	68.0	69.2	70.1	70.2
40.0 (24.2) C P A M E %	2,400	3,300	4,300	5,450	6,800	8,300	8,950	10,000	10,700
	1,990	1,940	1,900	1,860	1,820	1,790	1,790	1,770	1,770
	9.1	8.8	8.7	8.5	8.3	8.2	8.2	8.1	8.1
	14	19	24	30	37	45	48	54	57
	1.2	1.7	2.3	3.0	3.7	4.6	5.0	5.6	6.1
	38.1	46.9	54.9	61.8	67.0	70.0	70.4	70.2	69.4
35.0 (21.4) C P A M E %	2,720	3,600	4,650	5,850	7,250	8,800	9,450	10,550	11,300
	1,720	1,680	1,650	1,620	1,590	1,570	1,560	1,550	1,540
	7.9	7.7	7.6	7.4	7.3	7.2	7.2	7.1	7.1
	15	20	25	31	38	46	49	54	58
	1.6	2.2	2.8	3.6	4.6	5.6	6.1	6.8	7.3
	44.3	52.4	59.6	65.4	69.2	70.4	70.0	68.5	66.8
30.0 (18.8) C P A M E %	3,000	3,950	5,000	6,250	7,700	9,300	9,950	11,050	11,850
	1,480	1,460	1,430	1,410	1,380	1,360	1,350	1,340	1,330
	6.8	6.7	6.6	6.5	6.4	6.3	6.3	6.2	6.2
	16	20	26	32	39	46	49	55	58
	2.0	2.7	3.5	4.5	5.6	6.8	7.4	8.3	8.9
	50.1	57.3	63.5	67.9	70.0	69.2	67.9	64.7	61.8

C: Capacity (W), P: Power (W), A: Current (Amps), M: Mass Flow (gm/s), E: COP, %: Isentropic Efficiency (%)

Nominal Performance Values (±5%) based on 72 hours run-in. Subject to change without notice. Current @ 220 V