Rating Conditions

20 °F Superheat

15 F Subcooling

95 °F Ambient Air Over

AIR CONDITIONING

Compressor Capacity

Compressor: CP25K8E-PFV

COPELAWELD® HFC-410A

COMPRESSOR

PFV 208/230-1-60

60 Hz Operation

In this chart, you will find the expected performance of the CP25K8E-PFV compressor at a given condition (evaporating temperature and condensing temperature).

Evaporating Temperature °F (Sat. Dew Pt. Pressure, psig)

Condensing Temperature °F (Sat. Dew Pt. Pressure, psig)		-10.0 (36)	0.0 (48)	10.0 (62)	20.0 (78)	30.0 (97)	40.0 (118)	45.0 (130)	50.0 (143)	55.0 (156)
150.0 (613)	C				6,900	10,900	15,700	18,300	21,200	24,300
	P				1,710	2,160	2,550	2,730	2,890	3,030
	A				6.9	9.1	11.1	11.9	12.7	13.4
	M				124	194	273	317	364	415
	E				4.0	5.1	6.1	6.7	7.3	8.0
	%				53.1	58.7	62.2	63.5	64.6	65.6
140.0 (541)	C				8,970	13,500	18,700	21,700	24,900	28,400
	P				1,810	2,190	2,520	2,660	2,780	2,890
	A				7.7	9.6	11.1	11.8	12.4	12.8
	M				147	218	299	344	392	444
	E				4.9	6.1	7.4	8.2	9.0	9.8
	%				55.5	60.2	63.4	64.6	65.7	66.6
130.0 (477)	C			6,980	11,200	16,200	22,000	25,300	28,800	32,700
	P			1,500	1,870	2,190	2,440	2,550	2,640	2,710
	A			6.4	8.2	9.7	10.9	11.4	11.7	12.1
	M			108	171	242	326	372	422	476
	E			4.6	6.0	7.4	9.0	9.9	10.9	12.0
	%			51.2	57.8	61.9	64.8	65.9	66.9	67.8
120.0 (418)	C			8,970	13,600	19,000	25,400	29,000	32,900	37,200
	P			1,580	1,880	2,140	2,330	2,410	2,470	2,500
	A			6.9	8.4	9.5	10.4	10.7	10.9	11.1
	M			130	193	267	352	400	452	507
	E			5.7	7.2	8.9	10.9	12.1	13.4	14.8
	%			54.3	59.6	63.3	66.0	67.1	68.0	68.7
110.0 (365)	C		6,850	11,000	16,000	21,900	28,900	32,900	37,200	41,800
	P		1,320	1,610	1,860	2,060	2,190	2,230	2,260	2,270
	A		5.8	7.2	8.3	9.2	9.7	9.9	10.0	10.0
	M		95	150	214	290	378	428	481	538
	E		5.2	6.8	8.6	10.7	13.2	14.7	16.5	18.4
	%		49.6	56.5	61.1	64.5	66.9	67.9	68.5	69.0
100.0 (318)	C		8,640	13,100	18,500	24,900	32,500	36,800	41,500	46,500
	P		1,370	1,610	1,800	1,940	2,020	2,030	2,030	2,000
	A		6.1	7.2	8.0	8.6	8.9	8.9	8.9	8.8
	M		113	169	235	312	403	454	509	568
	E		6.3	8.1	10.2	12.8	16.1	18.1	20.5	23.2
	%		52.3	58.0	62.1	65.1	67.2	67.9	68.3	68.3
90.0 (274)	C	6,490	10,400	15,200	21,000	27,900	36,200	40,800	45,900	51,500
	P	1,150	1,380	1,580	1,720	1,800	1,820	1,800	1,770	1,720
	A	5.2	6.2	7.0	7.6	8.0	8.0	7.9	7.8	7.5
	M	82	129	186	253	333	427	479	536	597
	E	5.7	7.5	9.6	12.2	15.5	19.9	22.6	25.9	29.8
	%	47.2	53.8	58.7	62.4	65.0	66.6	66.9	66.7	65.9
80.0 (236)	C	7,970	12,100	17,200	23,400	30,900	39,800	44,800	50,000	56,000
	P	1,180	1,370	1,510	1,600	1,630	1,600	1,560	1,500	1,420
	A	5.3	6.1	6.7	7.1	7.2	7.1	6.9	6.7	6.3
	M	95	143	201	270	352	449	503	561	624
	E	6.8	8.8	11.4	14.6	18.9	24.9	28.8	33.6	39.6
	%	48.9	54.4	58.6	61.9	64.0	64.6	64.1	62.8	60.6

C: Capacity (Btu/hr), P: Power (W), A: Current (Amps), M: Mass Flow (lb/hr), E: EER (Btu/Wh), %: Isentropic Efficiency (%)

Nominal Performance Values (±5%) based on 72 hours run-in. Subject to change without notice. Current @ 230 V