

Rating Conditions

65 °F Return Gas
0 F Subcooling
95 °F Ambient Air Over

60 Hz Operation

**LOW
TEMPERATURE**

**HFCs Require Use of Polyol Ester
Lubricant Approved on Form 93-11**

ZF09K4E-PFV

HFC-404A

COPELAND SCROLL®

PFV 208/230-1-60

Liquid Injection

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

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

		-40.0 (4)	-35.0 (7)	-30.0 (10)	-25.0 (13)	-20.0 (16)	-15.0 (20)	-10.0 (24)	-5.0 (28)	0.0 (33)
140.0 (402)	C									10,850
	P									3,340
	A									15.0
	M									274
	E									3.3
	%									54.5
130.0 (354)	C	4,650	5,400	6,190	7,020	7,920	8,880	9,920	11,050	12,300
	P	2,140	2,260	2,390	2,510	2,630	2,750	2,860	2,960	3,060
	A	9.7	10.3	10.9	11.4	11.9	12.4	12.9	13.4	13.8
	M	101	118	136	154	175	197	221	247	276
	E	2.2	2.4	2.6	2.8	3.0	3.3	3.5	3.8	4.0
	%	47.4	49.4	50.9	52.2	53.2	54.1	55.0	55.8	56.7
115.0 (290)	C	5,450	6,290	7,180	8,140	9,170	10,300	11,550	12,900	14,350
	P	1,905	2,010	2,120	2,220	2,320	2,420	2,510	2,600	2,690
	A	8.8	9.3	9.8	10.2	10.7	11.1	11.5	11.9	12.2
	M	104	120	137	156	177	199	224	251	281
	E	2.9	3.1	3.4	3.7	4.0	4.3	4.6	5.0	5.4
	%	50.8	52.6	54.0	55.2	56.2	57.1	58.0	58.8	59.6
105.0 (252)	C	5,940	6,830	7,790	8,830	9,960	11,200	12,550	14,050	15,650
	P	1,770	1,865	1,960	2,050	2,140	2,220	2,310	2,390	2,460
	A	8.3	8.7	9.1	9.5	9.9	10.3	10.7	11.0	11.3
	M	105	121	138	157	178	200	226	253	284
	E	3.4	3.7	4.0	4.3	4.7	5.1	5.5	5.9	6.4
	%	52.6	54.2	55.5	56.7	57.7	58.7	59.5	60.3	61.0
90.0 (202)	C	6,640	7,600	8,650	9,800	11,050	12,450	14,000	15,650	17,500
	P	1,590	1,665	1,740	1,815	1,885	1,960	2,030	2,090	2,150
	A	7.6	8.0	8.3	8.6	9.0	9.3	9.6	9.8	10.1
	M	106	122	139	158	179	202	228	256	287
	E	4.2	4.6	5.0	5.4	5.9	6.4	6.9	7.5	8.2
	%	54.4	55.9	57.2	58.3	59.3	60.2	61.0	61.6	62.1
80.0 (173)	C	7,090	8,090	9,190	10,400	11,750	13,250	14,900	16,750	18,700
	P	1,480	1,545	1,610	1,670	1,735	1,795	1,850	1,905	1,960
	A	7.2	7.5	7.8	8.1	8.4	8.6	8.9	9.1	9.3
	M	107	122	139	158	179	203	229	257	289
	E	4.8	5.3	5.7	6.3	6.8	7.4	8.1	8.8	9.6
	%	55.1	56.6	57.8	58.9	59.9	60.7	61.3	61.8	62.1
65.0 (136)	C	7,740	8,800	9,990	11,300	12,800	14,450	16,250	18,250	20,500
	P	1,325	1,370	1,420	1,465	1,515	1,560	1,605	1,645	1,685
	A	6.6	6.8	7.0	7.3	7.5	7.7	7.9	8.1	8.2
	M	108	123	140	159	180	204	230	259	291
	E	5.9	6.4	7.1	7.7	8.5	9.3	10.2	11.1	12.2
	%	55.8	57.1	58.2	59.2	60.0	60.5	60.8	60.9	60.6
55.0 (114)	C	8,180	9,280	10,500	11,900	13,450	15,200	17,150	19,250	21,600
	P	1,220	1,255	1,295	1,335	1,370	1,410	1,445	1,480	1,510
	A	6.1	6.3	6.5	6.7	6.9	7.1	7.2	7.4	7.5
	M	109	124	140	159	181	204	231	260	293
	E	6.7	7.4	8.1	9.0	9.8	10.8	11.9	13.0	14.3
	%	56.1	57.2	58.2	59.0	59.5	59.8	59.8	59.4	58.6
40.0 (85)	C	8,850	10,000	11,300	12,800	14,450	16,350	18,400	20,700	23,300
	P	1,060	1,080	1,105	1,130	1,155	1,180	1,205	1,230	1,250
	A	5.4	5.5	5.7	5.8	5.9	6.1	6.2	6.3	6.4
	M	110	125	141	160	182	206	232	262	295
	E	8.4	9.3	10.3	11.3	12.5	13.9	15.3	16.9	18.7
	%	56.5	57.3	58.0	58.3	58.3	57.8	56.9	55.4	53.3

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