

Rating Conditions

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

50 Hz Operation

LOW TEMPERATURE

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

ZF54K5E-TFC

HFC-407C - Dew Pt.
 COPELAND SCROLL®
 TFC 200-3-50

Liquid Injection

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

	-40.0 (-2)	-35.0 (0)	-30.0 (2)	-25.0 (4)	-20.0 (7)	-15.0 (9)	-10.0 (12)	-5.0 (16)	0.0 (19)
140.0 (352)									
C									53,700
P									14,100
A									40.3
M									868
E									3.8
%									54.8
130.0 (307)	19,950	23,200	26,900	31,000	35,500	40,400	45,900	51,800	58,200
C	9,330	9,730	10,100	10,450	10,800	11,150	11,550	11,900	12,300
P	30.8	31.5	32.2	32.8	33.5	34.1	34.9	35.6	36.5
A	296	345	400	461	530	605	688	779	878
M	2.2	2.4	2.7	3.0	3.3	3.6	4.0	4.4	4.8
E	42.3	44.8	47.3	49.8	52.2	54.5	56.5	58.3	59.9
%									
115.0 (247)	22,400	26,000	29,900	34,400	39,300	44,800	50,800	57,400	64,500
C	7,830	8,180	8,510	8,830	9,140	9,450	9,770	10,100	10,450
P	27.8	28.4	28.9	29.5	30.1	30.7	31.4	32.1	32.9
A	304	352	407	468	537	613	696	788	889
M	2.9	3.2	3.5	3.9	4.3	4.8	5.2	5.7	6.2
E	48.1	50.4	52.8	55.1	57.4	59.6	61.5	63.0	64.2
%									
105.0 (212)	23,900	27,600	31,700	36,500	41,700	47,500	53,900	60,900	68,500
C	7,140	7,460	7,770	8,070	8,370	8,660	8,960	9,280	9,620
P	26.7	27.2	27.7	28.2	28.7	29.3	29.9	30.6	31.4
A	307	355	409	471	539	616	700	793	894
M	3.4	3.7	4.1	4.5	5.0	5.5	6.0	6.6	7.1
E	50.5	52.6	54.8	57.0	59.2	61.1	62.8	64.1	65.0
%									
90.0 (167)	25,900	29,800	34,300	39,500	45,200	51,500	58,500	66,200	74,500
C	6,200	6,510	6,810	7,090	7,370	7,660	7,960	8,270	8,610
P	25.5	25.8	26.2	26.6	27.0	27.5	28.0	28.6	29.4
A	309	357	412	474	543	620	706	801	904
M	4.2	4.6	5.1	5.6	6.2	6.7	7.4	8.0	8.7
E	53.5	55.2	57.1	58.9	60.6	62.1	63.3	64.0	64.2
%									
80.0 (141)	27,200	31,400	36,100	41,500	47,500	54,300	61,600	69,800	78,600
C	5,450	5,760	6,050	6,340	6,630	6,920	7,220	7,550	7,900
P	24.4	24.6	24.9	25.2	25.5	25.9	26.4	26.9	27.6
A	312	360	414	477	547	625	712	808	913
M	5.0	5.5	6.0	6.6	7.2	7.9	8.6	9.3	10.0
E	57.4	58.6	60.0	61.4	62.6	63.6	64.2	64.2	63.7
%									
65.0 (107)	29,500	33,900	39,100	44,900	51,400	58,700	66,700	75,500	85,100
C	3,780	4,100	4,410	4,720	5,030	5,350	5,680	6,030	6,410
P	21.3	21.4	21.5	21.6	21.8	22.1	22.4	22.9	23.5
A	319	367	423	486	558	638	727	825	932
M	7.8	8.3	8.9	9.5	10.2	11.0	11.8	12.5	13.3
E	75.7	74.6	74.0	73.6	73.0	72.2	70.9	69.0	66.5
%									
55.0 (88)	31,300	36,000	41,300	47,400	54,300	61,900	70,400	79,600	89,700
C	2,100	2,440	2,780	3,110	3,440	3,790	4,150	4,530	4,940
P	17.7	17.7	17.7	17.7	17.8	18.0	18.2	18.6	19.1
A	328	377	433	498	570	652	742	842	951
M	15.0	14.8	14.9	15.3	15.8	16.4	17.0	17.6	18.2
E	128.5	117.3	109.3	103.0	97.6	92.4	87.1	81.5	75.5
%									
40.0 (63)	34,700	39,600	45,400	51,900	59,300	67,500	76,600	86,600	97,500
C	-1613.7	-1221.9	-837.5	-454	-64.9	336	756	1,200	1,680
P	9.2	8.9	8.7	8.5	8.4	8.5	8.6	8.8	9.2
A	351	401	459	525	599	683	776	879	992
M	-21.5	-32.5	-54.2	-114.3	-913.6	200.7	101.3	72.1	58.1
E	-153.5	-211.9	-322.3	-616.7	-4442.8	874.1	392.1	245.7	172.2
%									

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 @ 220 V