

Rating Conditions

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

60 Hz Operation

LOW TEMPERATURE

ZF24K4E-TWD

HCFC-22

COPELAND SCROLL®

TWD 460-3-60

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

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

		-40.0 (1)	-35.0 (3)	-30.0 (5)	-25.0 (7)	-20.0 (10)	-15.0 (13)	-10.0 (17)	-5.0 (20)	0.0 (24)
130.0 (297)	C	13,100	15,000	17,000	19,200	21,600	24,200	27,100	30,300	33,700
	P	5,550	5,800	6,100	6,300	6,550	6,750	6,950	7,150	7,350
	A	10.0	10.3	10.5	10.8	11.1	11.3	11.5	11.7	11.9
	M	197	225	255	289	325	366	410	459	513
	E	2.4	2.6	2.8	3.0	3.3	3.6	3.9	4.2	4.6
	%	45.3	46.7	48.0	49.3	50.7	52.0	53.3	54.6	55.9
120.0 (260)	C	13,800	15,800	17,900	20,200	22,800	25,600	28,700	32,100	35,800
	P	5,350	5,550	5,750	5,950	6,150	6,300	6,500	6,650	6,800
	A	9.8	10.0	10.2	10.4	10.6	10.8	11.0	11.2	11.3
	M	197	225	256	290	327	368	413	463	518
	E	2.6	2.8	3.1	3.4	3.7	4.1	4.4	4.8	5.3
	%	44.8	46.4	48.0	49.6	51.2	52.7	54.1	55.5	56.8
110.0 (226)	C	14,500	16,600	18,800	21,300	24,000	27,000	30,300	33,900	37,800
	P	5,100	5,250	5,450	5,600	5,750	5,900	6,000	6,150	6,300
	A	9.5	9.7	9.9	10.0	10.2	10.3	10.5	10.6	10.8
	M	198	226	257	291	329	371	417	467	523
	E	2.8	3.1	3.5	3.8	4.2	4.6	5.0	5.5	6.0
	%	44.7	46.5	48.3	50.1	51.8	53.4	54.9	56.2	57.4
105.0 (211)	C	14,900	17,000	19,300	21,800	24,600	27,700	31,100	34,800	38,800
	P	4,960	5,100	5,250	5,400	5,550	5,650	5,800	5,950	6,050
	A	9.4	9.6	9.7	9.8	10.0	10.1	10.3	10.4	10.5
	M	198	227	258	292	330	372	418	469	525
	E	3.0	3.3	3.7	4.0	4.4	4.9	5.4	5.9	6.4
	%	44.8	46.7	48.6	50.4	52.1	53.7	55.2	56.5	57.5
100.0 (196)	C	15,300	17,400	19,800	22,300	25,200	28,400	31,800	35,600	39,800
	P	4,820	4,950	5,100	5,200	5,300	5,450	5,550	5,700	5,850
	A	9.3	9.4	9.5	9.7	9.8	9.9	10.0	10.2	10.3
	M	199	227	259	293	331	373	420	471	527
	E	3.2	3.5	3.9	4.3	4.7	5.2	5.7	6.3	6.8
	%	45.0	46.9	48.8	50.7	52.4	54.0	55.4	56.6	57.6
90.0 (168)	C	16,000	18,200	20,700	23,400	26,400	29,700	33,300	37,300	41,700
	P	4,500	4,600	4,700	4,800	4,900	5,000	5,100	5,250	5,350
	A	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8
	M	201	229	260	295	333	375	422	474	531
	E	3.6	4.0	4.4	4.9	5.4	5.9	6.5	7.1	7.8
	%	45.6	47.6	49.5	51.3	53.0	54.5	55.7	56.7	57.3
70.0 (121)	C	17,500	19,800	22,400	25,300	28,500	32,100	36,000	40,400	45,200
	P	3,750	3,820	3,880	3,960	4,040	4,140	4,250	4,370	4,510
	A	8.4	8.4	8.5	8.5	8.6	8.7	8.8	8.9	9.0
	M	204	231	262	296	334	377	424	476	534
	E	4.7	5.2	5.8	6.4	7.1	7.8	8.5	9.2	10.0
	%	47.9	49.7	51.4	52.9	54.0	54.8	55.2	55.1	54.4
40.0 (69)	C	19,200	21,600	24,300	27,400	30,900	34,800	39,100	43,900	49,100
	P	2,360	2,410	2,490	2,580	2,690	2,830	2,990	3,180	3,400
	A	7.2	7.2	7.2	7.3	7.3	7.4	7.6	7.7	7.9
	M	204	229	258	291	329	371	417	469	527
	E	8.2	9.0	9.8	10.6	11.5	12.3	13.1	13.8	14.4
	%	57.2	57.5	57.3	56.4	54.9	52.7	49.8	46.2	42.1

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 @ 460 V