

Rating Conditions

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

60 Hz Operation

**LOW
 TEMPERATURE**

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

ZF33KVE-TWD

HFC-404A
 COPELAND SCROLL®
 TWD 460-3-60

WITH ECONOMIZER

**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 P A M E L									69,500 14,400 21.3 983 4.8 62.2
130.0 (354) C P A M E L				45,200 11,200 17.2 563 4.0 38.1	49,400 11,500 17.6 630 4.3 42.6	54,000 11,800 18.0 705 4.6 46.8	59,500 12,100 18.4 790 4.9 50.7	65,500 12,400 18.7 886 5.3 54.3	72,000 12,600 19.0 993 5.7 57.6
120.0 (310) C P A M E L			41,600 9,600 15.3 499 4.3 28.6	46,000 9,850 15.6 562 4.7 33.1	50,500 10,100 16.0 632 5.0 37.4	56,000 10,400 16.3 711 5.4 41.5	61,500 10,700 16.6 799 5.8 45.4	68,000 10,900 16.9 897 6.2 49.1	75,000 11,200 17.3 1,007 6.7 52.5
110.0 (270) C P A M E L	34,100 8,050 13.4 386 4.2 14.6	38,200 8,300 13.7 440 4.6 19.2	42,500 8,550 14.0 500 5.0 23.6	47,300 8,800 14.3 566 5.4 27.9	52,500 9,000 14.6 639 5.8 32.1	58,000 9,250 14.9 720 6.3 36.2	64,000 9,500 15.2 811 6.7 40.1	70,500 9,750 15.5 912 7.3 43.8	78,000 10,000 15.8 1,024 7.8 47.4
105.0 (252) C P A M E L	34,300 7,650 12.9 385 4.5 12.4	38,600 7,850 13.2 441 4.9 16.8	43,100 8,100 13.5 502 5.3 21.2	48,000 8,300 13.8 569 5.8 25.4	53,500 8,550 14.1 643 6.2 29.6	59,000 8,750 14.4 726 6.7 33.6	65,500 9,000 14.6 818 7.3 37.5	72,000 9,250 14.9 920 7.8 41.3	79,500 9,450 15.2 1,033 8.4 45.0
100.0 (235) C P A M E L	34,600 7,250 12.5 386 4.8 10.4	39,000 7,450 12.8 442 5.2 14.6	43,700 7,650 13.1 504 5.7 18.9	48,800 7,900 13.3 573 6.2 23.0	54,000 8,100 13.6 648 6.7 27.2	60,000 8,300 13.8 732 7.2 31.2	66,500 8,550 14.1 824 7.8 35.2	73,500 8,750 14.3 927 8.4 39.0	81,000 9,000 14.6 1,041 9.0 42.8
80.0 (173) C P A M E L	35,700 6,000 11.1 390 6.0 4.6	40,600 6,100 11.3 450 6.6 8.4	45,700 6,250 11.5 515 7.3 12.3	51,000 6,450 11.7 586 8.0 16.3	57,000 6,600 11.9 664 8.6 20.4	63,000 6,800 12.1 750 9.3 24.5	70,000 7,000 12.3 844 10.0 28.7	77,000 7,200 12.5 948 10.7 32.9	84,500 7,400 12.7 1,063 11.4 37.2
70.0 (147) C P A M E L	35,700 5,400 10.5 390 6.6 4.1	40,700 5,500 10.6 450 7.4 7.8	45,900 5,600 10.8 516 8.2 11.6	51,500 5,750 10.9 587 8.9 15.5	57,500 5,950 11.1 665 9.7 19.6	63,500 6,100 11.3 751 10.4 23.9	70,000 6,300 11.5 845 11.1 28.2	77,000 6,500 11.7 949 11.9 32.7	84,500 6,700 11.9 1,064 12.6 37.3
40.0 (85) C P A M E L	30,400 3,060 7.9 350 9.9 18.4	35,100 3,110 7.9 409 11.3 21.8	39,900 3,180 8.0 472 12.5 25.5	44,800 3,280 8.1 540 13.7 29.6	50,000 3,400 8.2 615 14.7 34.1	55,500 3,550 8.4 696 15.6 38.8	61,000 3,720 8.6 786 16.4 43.9	67,000 3,910 8.8 885 17.1 49.3	73,000 4,120 9.0 994 17.7 55.1

C: Capacity (Btu/hr), P: Power (W), A: Current (Amps), M: Mass Flow (lb/hr), E: EER (Btu/Wh), L: Liquid Temp. (°F)

Nominal Performance Values (±5%) based on 72 hours run-in. Subject to change without notice. Current @ 460 V