

**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**

**ZF24KVE-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)
<b>140.0</b> (402) C P A M E L									50,500 9,750 15.1 710 5.2 62.2
<b>130.0</b> (354) C P A M E L				31,200 7,700 12.7 389 4.0 38.1	34,900 7,900 12.9 444 4.4 42.6	38,800 8,100 13.0 504 4.8 46.8	43,000 8,300 13.2 570 5.2 50.7	47,500 8,500 13.4 643 5.6 54.3	52,500 8,650 13.6 722 6.0 57.6
<b>120.0</b> (310) C P A M E L			28,800 6,750 11.5 345 4.3 28.6	32,400 6,950 11.6 396 4.7 33.1	36,300 7,100 11.8 452 5.1 37.4	40,400 7,300 11.9 513 5.5 41.5	44,700 7,450 12.1 579 6.0 45.4	49,400 7,600 12.3 652 6.5 49.1	54,500 7,750 12.5 732 7.0 52.5
<b>110.0</b> (270) C P A M E L	22,800 5,850 10.5 258 3.9 14.6	26,300 6,000 10.6 303 4.4 19.2	29,900 6,150 10.7 352 4.9 23.6	33,700 6,300 10.8 403 5.3 27.9	37,700 6,450 11.0 459 5.8 32.1	41,900 6,600 11.1 520 6.3 36.2	46,300 6,750 11.3 587 6.9 40.1	51,000 6,900 11.4 660 7.4 43.8	56,500 7,050 11.6 741 8.0 47.4
<b>105.0</b> (252) C P A M E L	23,200 5,550 10.2 261 4.2 12.4	26,800 5,750 10.3 306 4.7 16.8	30,500 5,900 10.4 355 5.2 21.2	34,300 6,000 10.5 406 5.7 25.4	38,300 6,150 10.6 462 6.2 29.6	42,600 6,300 10.8 523 6.8 33.6	47,100 6,450 10.9 590 7.3 37.5	52,000 6,600 11.1 664 7.9 41.3	57,000 6,700 11.3 745 8.5 45.0
<b>100.0</b> (235) C P A M E L	23,700 5,350 9.9 264 4.4 10.4	27,300 5,500 10.0 309 5.0 14.6	31,000 5,600 10.1 358 5.5 18.9	34,800 5,750 10.2 409 6.1 23.0	38,900 5,900 10.3 465 6.6 27.2	43,200 6,000 10.5 526 7.2 31.2	47,800 6,150 10.6 593 7.8 35.2	52,500 6,300 10.8 667 8.4 39.0	58,000 6,400 11.0 748 9.1 42.8
<b>80.0</b> (173) C P A M E L	25,300 4,370 8.9 276 5.8 4.6	28,900 4,500 9.0 321 6.4 8.4	32,700 4,620 9.1 368 7.1 12.3	36,600 4,740 9.2 419 7.7 16.3	40,800 4,860 9.3 475 8.4 20.4	45,200 4,980 9.5 536 9.1 24.5	49,900 5,100 9.6 603 9.8 28.7	55,000 5,200 9.7 677 10.5 32.9	60,500 5,350 9.9 758 11.3 37.2
<b>70.0</b> (147) C P A M E L	25,900 3,820 8.4 282 6.8 4.1	29,500 3,940 8.5 326 7.5 7.8	33,200 4,060 8.6 373 8.2 11.6	37,100 4,190 8.7 423 8.9 15.5	41,200 4,310 8.8 479 9.6 19.6	45,600 4,430 8.9 540 10.3 23.9	50,500 4,560 9.0 607 11.0 28.2	55,500 4,680 9.2 680 11.8 32.7	60,500 4,810 9.3 762 12.6 37.3
<b>40.0</b> (85) C P A M E L	26,400 1,360 5.4 303 19.3 18.4	29,500 1,520 5.5 344 19.4 21.8	32,800 1,690 5.6 388 19.5 25.5	36,300 1,850 5.7 437 19.6 29.6	39,900 2,020 5.8 491 19.7 34.1	43,800 2,190 5.9 550 19.9 38.8	47,800 2,370 6.0 616 20.2 43.9	52,000 2,560 6.1 689 20.4 49.3	56,500 2,750 6.2 770 20.6 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