

**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**

Liquid Injection

**ZF09K4E-TF5**

HFC-404A  
 COPELAND SCROLL®  
 TF5 200/230-3-60

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) | -7.0 (26) |
|----------------|---|-----------|-----------|------------|------------|------------|------------|------------|-----------|
| 140.0<br>(402) | C |           |           |            |            |            |            |            |           |
|                | P |           |           |            |            |            |            |            |           |
|                | A |           |           |            |            |            |            |            |           |
|                | M |           |           |            |            |            |            |            |           |
|                | E |           |           |            |            |            |            |            |           |
| 125.0<br>(331) | C | 5,260     | 6,040     | 6,850      | 7,710      | 8,640      | 9,650      | 10,700     | 11,400    |
|                | P | 2,430     | 2,440     | 2,450      | 2,480      | 2,510      | 2,540      | 2,590      | 2,610     |
|                | A | 7.8       | 7.9       | 7.9        | 7.9        | 8.0        | 8.1        | 8.2        | 8.2       |
|                | M | 109       | 126       | 143        | 162        | 182        | 204        | 228        | 243       |
|                | E | 2.2       | 2.5       | 2.8        | 3.1        | 3.4        | 3.8        | 4.2        | 4.4       |
| 115.0<br>(290) | C | 5,820     | 6,660     | 7,550      | 8,510      | 9,550      | 10,700     | 11,900     | 12,700    |
|                | P | 2,180     | 2,190     | 2,210      | 2,230      | 2,270      | 2,310      | 2,350      | 2,380     |
|                | A | 7.3       | 7.3       | 7.4        | 7.4        | 7.5        | 7.6        | 7.7        | 7.7       |
|                | M | 111       | 127       | 145        | 163        | 184        | 206        | 231        | 247       |
|                | E | 2.7       | 3.0       | 3.4        | 3.8        | 4.2        | 4.6        | 5.1        | 5.3       |
| 100.0<br>(235) | C | 6,570     | 7,510     | 8,520      | 9,620      | 10,800     | 12,100     | 13,500     | 14,400    |
|                | P | 1,850     | 1,860     | 1,890      | 1,920      | 1,960      | 2,000      | 2,050      | 2,090     |
|                | A | 6.7       | 6.7       | 6.7        | 6.8        | 6.9        | 7.0        | 7.1        | 7.1       |
|                | M | 112       | 129       | 146        | 165        | 186        | 209        | 235        | 251       |
|                | E | 3.6       | 4.0       | 4.5        | 5.0        | 5.5        | 6.0        | 6.6        | 6.9       |
| 90.0<br>(202)  | C | 7,030     | 8,030     | 9,120      | 10,300     | 11,600     | 13,000     | 14,500     | 15,500    |
|                | P | 1,660     | 1,680     | 1,710      | 1,740      | 1,780      | 1,830      | 1,880      | 1,920     |
|                | A | 6.3       | 6.4       | 6.4        | 6.5        | 6.6        | 6.6        | 6.7        | 6.8       |
|                | M | 113       | 129       | 147        | 166        | 187        | 211        | 236        | 253       |
|                | E | 4.2       | 4.8       | 5.3        | 5.9        | 6.5        | 7.1        | 7.7        | 8.1       |
| 75.0<br>(160)  | C | 7,680     | 8,770     | 9,960      | 11,300     | 12,700     | 14,300     | 16,000     | 17,100    |
|                | P | 1,420     | 1,450     | 1,480      | 1,520      | 1,560      | 1,610      | 1,670      | 1,710     |
|                | A | 5.9       | 6.0       | 6.0        | 6.1        | 6.2        | 6.3        | 6.4        | 6.4       |
|                | M | 113       | 129       | 147        | 167        | 188        | 212        | 238        | 255       |
|                | E | 5.4       | 6.1       | 6.7        | 7.4        | 8.1        | 8.8        | 9.6        | 10.0      |
| 65.0<br>(136)  | C | 8,090     | 9,230     | 10,500     | 11,900     | 13,400     | 15,100     | 16,900     | 18,000    |
|                | P | 1,290     | 1,320     | 1,350      | 1,390      | 1,440      | 1,490      | 1,550      | 1,590     |
|                | A | 5.7       | 5.8       | 5.8        | 5.9        | 6.0        | 6.1        | 6.2        | 6.2       |
|                | M | 113       | 129       | 147        | 167        | 189        | 213        | 239        | 256       |
|                | E | 6.3       | 7.0       | 7.8        | 8.5        | 9.3        | 10.1       | 10.9       | 11.4      |
| 50.0<br>(104)  | C | 8,690     | 9,910     | 11,300     | 12,800     | 14,400     | 16,200     | 18,200     | 19,500    |
|                | P | 1,120     | 1,150     | 1,190      | 1,230      | 1,280      | 1,340      | 1,400      | 1,440     |
|                | A | 5.5       | 5.5       | 5.6        | 5.7        | 5.7        | 5.8        | 5.9        | 6.0       |
|                | M | 113       | 129       | 147        | 167        | 189        | 213        | 240        | 257       |
|                | E | 7.8       | 8.6       | 9.5        | 10.3       | 11.2       | 12.1       | 13.0       | 13.5      |
| 40.0<br>(85)   | C | 9,080     | 10,400    | 11,800     | 13,300     | 15,100     | 17,000     | 19,000     | 20,400    |
|                | P | 1,020     | 1,050     | 1,100      | 1,140      | 1,190      | 1,250      | 1,320      | 1,360     |
|                | A | 5.4       | 5.4       | 5.5        | 5.5        | 5.6        | 5.7        | 5.8        | 5.8       |
|                | M | 113       | 129       | 147        | 167        | 189        | 213        | 240        | 258       |
|                | E | 8.9       | 9.8       | 10.7       | 11.7       | 12.6       | 13.5       | 14.5       | 15.0      |
|                | % | 60.3      | 60.9      | 60.8       | 60.1       | 58.6       | 56.6       | 53.9       | 52.0      |

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