

### Rating Conditions

11.1 K Superheat  
 8.3 K Subcooling  
 35 °C Ambient Air Over

50 Hz Operation

### AIR CONDITIONING

### ZP76KCE-TFD

HFC-410A  
 COPELAND SCROLL®  
 TFD 380/420-3-50

Condensing Temperature °C  
 (Sat. Dew Pt. Pressure, bar)

Evaporating Temperature °C (Sat. Dew Pt. Pressure, bar)

|                       | -23.3(3.5) | -6.6(6.4) | -1.1(7.7) | 1.6(8.4) | 4.4(9.2) | 7.2(10) | 10.0(10.8) | 12.7(11.7) | 15.5(12.7) | 18.3(13.8) | 21.1(14.9) | 25.0(16.5) |
|-----------------------|------------|-----------|-----------|----------|----------|---------|------------|------------|------------|------------|------------|------------|
| <b>65.5</b><br>(43.2) |            |           |           |          | 13,700   | 15,250  |            |            |            |            |            |            |
| <b>C</b>              |            |           |           |          | 7,520    | 7,510   |            |            |            |            |            |            |
| <b>P</b>              |            |           |           |          | 13.2     | 13.2    |            |            |            |            |            |            |
| <b>A</b>              |            |           |           |          | 103      | 113     |            |            |            |            |            |            |
| <b>M</b>              |            |           |           |          | 1.8      | 2.0     |            |            |            |            |            |            |
| <b>E</b>              |            |           |           |          | 63.0     | 65.3    |            |            |            |            |            |            |
| <b>%</b>              |            |           |           |          |          |         |            |            |            |            |            |            |
| <b>60.0</b><br>(38.3) |            |           | 12,250    | 13,600   | 15,150   | 16,750  | 18,550     | 20,400     | 22,500     | 24,800     | 27,200     | 30,900     |
| <b>C</b>              |            |           | 6,640     | 6,630    | 6,630    | 6,630   | 6,620      | 6,620      | 6,630      | 6,640      | 6,670      | 6,710      |
| <b>P</b>              |            |           | 12.0      | 12.0     | 12.0     | 12.0    | 12.0       | 12.0       | 12.0       | 12.0       | 12.0       | 12.0       |
| <b>A</b>              |            |           | 85        | 94       | 104      | 114     | 126        | 137        | 151        | 165        | 180        | 204        |
| <b>M</b>              |            |           | 1.9       | 2.1      | 2.3      | 2.5     | 2.8        | 3.1        | 3.4        | 3.7        | 4.1        | 4.6        |
| <b>E</b>              |            |           | 61.8      | 64.2     | 66.4     | 68.4    | 70.2       | 71.5       | 72.5       | 73.0       | 73.0       | 72.0       |
| <b>%</b>              |            |           |           |          |          |         |            |            |            |            |            |            |
| <b>54.4</b><br>(33.9) |            | 10,800    | 13,500    | 14,950   | 16,600   | 18,350  | 20,300     | 22,300     | 24,500     | 26,900     | 29,500     | 33,500     |
| <b>C</b>              |            | 5,840     | 5,850     | 5,850    | 5,840    | 5,840   | 5,850      | 5,850      | 5,870      | 5,890      | 5,920      | 5,990      |
| <b>P</b>              |            | 10.9      | 11.0      | 11.0     | 11.0     | 11.0    | 11.0       | 10.9       | 10.9       | 10.9       | 10.9       | 11.0       |
| <b>A</b>              |            | 71        | 87        | 96       | 106      | 116     | 128        | 139        | 153        | 167        | 182        | 205        |
| <b>M</b>              |            | 1.9       | 2.3       | 2.6      | 2.8      | 3.1     | 3.5        | 3.8        | 4.2        | 4.6        | 5.0        | 5.6        |
| <b>E</b>              |            | 60.7      | 65.8      | 67.9     | 69.8     | 71.3    | 72.5       | 73.1       | 73.3       | 72.9       | 71.8       | 69.1       |
| <b>%</b>              |            |           |           |          |          |         |            |            |            |            |            |            |
| <b>46.1</b><br>(28)   |            | 12,400    | 15,300    | 16,900   | 18,700   | 20,700  | 22,800     | 24,900     | 27,400     | 30,000     | 32,800     | 37,000     |
| <b>C</b>              |            | 4,860     | 4,870     | 4,870    | 4,870    | 4,880   | 4,890      | 4,910      | 4,930      | 4,970      | 5,020      | 5,100      |
| <b>P</b>              |            | 9.7       | 9.7       | 9.7      | 9.7      | 9.7     | 9.7        | 9.7        | 9.8        | 9.8        | 9.8        | 9.8        |
| <b>A</b>              |            | 73        | 90        | 98       | 108      | 119     | 130        | 142        | 155        | 169        | 184        | 207        |
| <b>M</b>              |            | 2.5       | 3.2       | 3.5      | 3.8      | 4.2     | 4.7        | 5.1        | 5.6        | 6.0        | 6.5        | 7.3        |
| <b>E</b>              |            | 66.5      | 70.5      | 71.9     | 72.9     | 73.4    | 73.3       | 72.5       | 71.0       | 68.8       | 65.6       | 59.8       |
| <b>%</b>              |            |           |           |          |          |         |            |            |            |            |            |            |
| <b>37.7</b><br>(22.9) |            | 13,850    | 17,000    | 18,700   | 20,600   | 22,700  | 25,000     | 27,300     | 29,900     | 32,600     | 35,600     |            |
| <b>C</b>              |            | 4,060     | 4,060     | 4,060    | 4,070    | 4,080   | 4,100      | 4,130      | 4,170      | 4,220      | 4,280      |            |
| <b>P</b>              |            | 8.8       | 8.8       | 8.8      | 8.8      | 8.8     | 8.8        | 8.8        | 8.9        | 8.9        | 8.9        |            |
| <b>A</b>              |            | 75        | 91        | 100      | 110      | 120     | 132        | 143        | 156        | 170        | 185        |            |
| <b>M</b>              |            | 3.4       | 4.2       | 4.6      | 5.1      | 5.6     | 6.1        | 6.6        | 7.2        | 7.7        | 8.3        |            |
| <b>E</b>              |            | 70.2      | 72.2      | 72.4     | 72.0     | 70.9    | 69.0       | 66.3       | 62.6       | 57.9       | 52.2       |            |
| <b>%</b>              |            |           |           |          |          |         |            |            |            |            |            |            |
| <b>32.2</b><br>(19.9) |            | 14,650    | 17,900    | 19,650   | 21,700   | 23,800  | 26,100     | 28,500     | 31,200     |            |            |            |
| <b>C</b>              |            | 3,600     | 3,610     | 3,610    | 3,620    | 3,640   | 3,660      | 3,700      | 3,740      |            |            |            |
| <b>P</b>              |            | 8.3       | 8.3       | 8.3      | 8.3      | 8.3     | 8.3        | 8.4        | 8.4        |            |            |            |
| <b>A</b>              |            | 76        | 92        | 100      | 110      | 120     | 131        | 143        | 155        |            |            |            |
| <b>M</b>              |            | 4.1       | 5.0       | 5.5      | 6.0      | 6.5     | 7.1        | 7.7        | 8.3        |            |            |            |
| <b>E</b>              |            | 70.5      | 70.8      | 70.0     | 68.5     | 66.0    | 62.6       | 58.3       | 52.9       |            |            |            |
| <b>%</b>              |            |           |           |          |          |         |            |            |            |            |            |            |
| <b>23.8</b><br>(16)   |            | 15,450    | 18,800    | 20,700   | 22,700   | 25,000  |            |            |            |            |            |            |
| <b>C</b>              |            | 2,980     | 2,980     | 2,990    | 3,010    | 3,030   |            |            |            |            |            |            |
| <b>P</b>              |            | 7.7       | 7.7       | 7.7      | 7.7      | 7.7     |            |            |            |            |            |            |
| <b>A</b>              |            | 75        | 90        | 98       | 108      | 118     |            |            |            |            |            |            |
| <b>M</b>              |            | 5.2       | 6.3       | 6.9      | 7.6      | 8.2     |            |            |            |            |            |            |
| <b>E</b>              |            | 67.2      | 64.2      | 61.4     | 57.6     | 52.6    |            |            |            |            |            |            |
| <b>%</b>              |            |           |           |          |          |         |            |            |            |            |            |            |
| <b>18.3</b><br>(13.8) |            | 15,650    | 19,050    | 20,900   |          |         |            |            |            |            |            |            |
| <b>C</b>              |            | 2,590     | 2,590     | 2,610    |          |         |            |            |            |            |            |            |
| <b>P</b>              |            | 7.3       | 7.3       | 7.3      |          |         |            |            |            |            |            |            |
| <b>A</b>              |            | 73        | 88        | 96       |          |         |            |            |            |            |            |            |
| <b>M</b>              |            | 6.1       | 7.3       | 8.0      |          |         |            |            |            |            |            |            |
| <b>E</b>              |            | 62.2      | 56.6      | 52.2     |          |         |            |            |            |            |            |            |
| <b>%</b>              |            |           |           |          |          |         |            |            |            |            |            |            |
| <b>10.0</b><br>(10.8) |            | 15,300    |           |          |          |         |            |            |            |            |            |            |
| <b>C</b>              |            | 1,995     |           |          |          |         |            |            |            |            |            |            |
| <b>P</b>              |            | 6.7       |           |          |          |         |            |            |            |            |            |            |
| <b>A</b>              |            | 67        |           |          |          |         |            |            |            |            |            |            |
| <b>M</b>              |            | 7.7       |           |          |          |         |            |            |            |            |            |            |
| <b>E</b>              |            | 50.6      |           |          |          |         |            |            |            |            |            |            |
| <b>%</b>              |            |           |           |          |          |         |            |            |            |            |            |            |

C: Capacity (W), P: Power (W), A: Current (Amps), M: Mass Flow (gm/s), E: COP, %: Isentropic Efficiency (%)

Nominal Performance Values (±5%) based on 72 hours run-in. Subject to change without notice. Current @ 380 V