



## FlexPack

### Multiple Compressor Condensing Units

#### Technical Guide



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## **FlexPack™ was designed for energy savings, reduced installation time and expense, and a better return on your investment.**

### **Cabinet & Construction**

The industrial grade cabinet is constructed of heavy gauge painted steel. The top and sides of the unit can be easily removed for convenient access to electrical and mechanical components. The unit also has a rooftop AC- style appearance to simply blend into the existing environment along with flush mounted fans for a sleek look. In addition, the unit has a clean and intuitive electrical and piping layout.

The units are also Beacon II™ capable and were designed with state-of-the-art energy efficient motors.

- Single unit to place on roof reduces installation cost
- Small footprint requires less room on the roof or in the back of the store
- Single-point wiring and piping lowers installation cost and provides a single penetration point through the roof
- Significantly reduces air conditioning energy costs by reducing the heat load in the space through the use of remote condenser circuits
- Quieter sound with fewer condenser fans and the reduced noise level of vertical fans

### **System Features**

- Up to 3 compressors, 1/2 - 6 HP Hermetic or Scroll
- RST, CF, CS, ZF, ZS standard compressors
- 230 volt/1-phase/60 hertz and 230 volt/3-phase/60 hertz units available
- 1, 2 or 3 condenser fan configurations
- R-404A, R-407A, R-407C, R-407F, R-448A and R-449A for medium or low temperature applications
- Remote condenser circuits for ice machine, drink dispenser, display cases and more
- Capacity range
  - 1 Fan = 6 HP (up to 2.5 to 3 HP per side)
  - 2 Fan = 12 HP (up to 5 to 6 HP per side)
  - 3 Fan = 18 HP (up to 6 to 7.5 HP per side)
- Electrical component layout lines up with compressor module
- Beacon II™ or conventional mechanical controls available
- Energy efficient, flush mounted 18" fans with 1100 RPM motors
- Painted steel cabinet
- Aluminum fin coils are standard; copper fin coils and polyester coated coils are optional
- Convenient hinged access panels for easy access
- UL listed for US and Canada

## Compressor Module Components

### Standard

- Fixed high pressure switch
- Fixed low pressure switch on medium and high temperature compressor modules
- Adjustable low pressure switch on low temperatures modules
- Suction service ports on all modules
- Suction accumulator (CS & CF extended temperature compressors)
- Vertical receiver in 6" x 12" or 6" x 27" sizes
- Sealed type liquid line drier
- Sealed type suction filter
- Head pressure control valve
- Crank case heater
- Sight glass

### Optional

- Remote condenser circuit
- Remote condenser circuit, pre-charged R-404A
- Polyester coated fins
- Copper finned coil
- Individual compressor fusing, 230V
- Individual compressor circuit breakers, 230V
- Adjustable low pressure switch on medium and high temperature compressor modules
- Fused disconnect - 30, 60 or 100 amps
- Beacon II™ refrigeration controller
- Air or electric defrost timer
- Liquid line solenoid valve & pump down switch



# PERFORMANCE DATA: SCROLL HERMETIC MODELS

## Capacity (BTUH) Data

Scroll Hermetic, R-404A, Medium Temperature

### 90°F Ambient

| HP    | Compressor | Saturated Suction Temperature |        |        |        |        |        |        |
|-------|------------|-------------------------------|--------|--------|--------|--------|--------|--------|
|       |            | 35°F                          | 30°F   | 25°F   | 20°F   | 10°F   | 0°F    | -5°F   |
| 1     | ZS09KAE    | 14200                         | 12830  | 11560  | 10410  | 8400   | 6730   | 6020   |
| 1 1/2 | ZS13KAE    | 20,300                        | 18,280 | 16,470 | 14,840 | 12,040 | 9,720  | 8,680  |
| 2     | ZS15KAE    | 23,290                        | 21,030 | 18,960 | 17,070 | 13,770 | 11,040 | 9,870  |
| 2 1/2 | ZS19KAE    | 26,110                        | 23,580 | 21,260 | 19,140 | 15,440 | 12,380 | 11,060 |
| 3     | ZS21KAE    | 35,060                        | 31,670 | 28,550 | 25,700 | 20,730 | 16,620 | 14,850 |
| 3 1/2 | ZS26KAE    | 39,010                        | 35,230 | 31,770 | 28,600 | 23,070 | 18,500 | 16,530 |
| 4 1/2 | ZS30KAE    | 44,360                        | 40,060 | 36,120 | 32,520 | 26,230 | 21,030 | 18,790 |
| 5     | ZS33KAE    | 49,790                        | 45,340 | 41,210 | 37,380 | 30,470 | 24,300 | 21,400 |
| 5 1/2 | ZS38KAE    | 56,850                        | 51,780 | 47,080 | 42,730 | 35,010 | 28,470 | 25,600 |
| 6     | ZS45K4E    | 68,140                        | 62,010 | 56,340 | 51,130 | 41,930 | 34,200 | 30,810 |

### 95°F Ambient

| HP    | Compressor | Saturated Suction Temperature |        |        |        |        |        |        |
|-------|------------|-------------------------------|--------|--------|--------|--------|--------|--------|
|       |            | 35°F                          | 30°F   | 25°F   | 20°F   | 10°F   | 0°F    | -5°F   |
| 1     | ZS09KAE    | 13510                         | 12190  | 10990  | 9900   | 7990   | 6410   | 5740   |
| 1 1/2 | ZS13KAE    | 19,410                        | 17,480 | 15,740 | 14,190 | 11,520 | 9,310  | 8,310  |
| 2     | ZS15KAE    | 22,150                        | 20,000 | 18,030 | 16,230 | 13,100 | 10,520 | 9,410  |
| 2 1/2 | ZS19KAE    | 24,830                        | 22,420 | 20,220 | 18,200 | 14,690 | 11,790 | 10,550 |
| 3     | ZS21KAE    | 33,340                        | 30,110 | 27,140 | 24,430 | 19,720 | 15,830 | 14,160 |
| 3 1/2 | ZS26KAE    | 37,100                        | 33,500 | 30,200 | 27,190 | 21,940 | 17,620 | 15,760 |
| 4 1/2 | ZS30KAE    | 42,190                        | 38,090 | 34,340 | 30,910 | 24,950 | 20,030 | 17,920 |
| 5     | ZS33KAE    | 47,360                        | 43,200 | 39,350 | 35,750 | 29,210 | 23,280 | 20,460 |
| 5 1/2 | ZS38KAE    | 54,200                        | 49,350 | 44,860 | 40,710 | 33,350 | 27,120 | 24,390 |
| 6     | ZS45K4E    | 64,990                        | 59,120 | 53,710 | 48,740 | 39,980 | 32,640 | 29,430 |

### 100°F Ambient

| HP    | Compressor | Saturated Suction Temperature |        |        |        |        |        |        |
|-------|------------|-------------------------------|--------|--------|--------|--------|--------|--------|
|       |            | 35°F                          | 30°F   | 25°F   | 20°F   | 10°F   | 0°F    | -5°F   |
| 1     | ZS09KAE    | 12790                         | 11550  | 10410  | 9370   | 7560   | 6080   | 5440   |
| 1 1/2 | ZS13KAE    | 18,510                        | 16,660 | 15,000 | 13,520 | 10,980 | 8,870  | 7,930  |
| 2     | ZS15KAE    | 20,980                        | 18,940 | 17,070 | 15,360 | 12,400 | 9,970  | 8,920  |
| 2 1/2 | ZS19KAE    | 23,520                        | 21,230 | 19,140 | 17,230 | 13,910 | 11,180 | 10,010 |
| 3     | ZS21KAE    | 31,590                        | 28,510 | 25,700 | 23,130 | 18,670 | 15,010 | 13,430 |
| 3 1/2 | ZS26KAE    | 35,140                        | 31,720 | 28,590 | 25,730 | 20,770 | 16,700 | 14,950 |
| 4 1/2 | ZS30KAE    | 39,960                        | 36,070 | 32,510 | 29,260 | 23,620 | 18,990 | 17,000 |
| 5     | ZS33KAE    | 45,050                        | 41,190 | 37,590 | 34,230 | 28,060 | 22,390 | 19,640 |
| 5 1/2 | ZS38KAE    | 51,500                        | 46,870 | 42,590 | 38,640 | 31,640 | 25,740 | 23,160 |
| 6     | ZS45K4E    | 61,790                        | 56,190 | 51,040 | 46,310 | 38,000 | 31,050 | 28,020 |

# PERFORMANCE DATA: SCROLL HERMETIC MODELS

## Capacity (BTUH) Data

Scroll Hermetic, R-404A, Medium Temperature

110°F Ambient

| HP    | Compressor | Saturated Suction Temperature |        |        |        |        |        |        |
|-------|------------|-------------------------------|--------|--------|--------|--------|--------|--------|
|       |            | 35°F                          | 30°F   | 25°F   | 20°F   | 10°F   | 0°F    | -5°F   |
| 1     | ZS09KAE    | 11310                         | 10190  | 9180   | 8250   | 6660   | 5360   | 4800   |
| 1 1/2 | ZS13KAE    | 16,640                        | 14,950 | 13,440 | 12,100 | 9,820  | 7,930  | 7,080  |
| 2     | ZS15KAE    | 18,540                        | 16,710 | 15,050 | 13,530 | 10,920 | 8,780  | 7,870  |
| 2 1/2 | ZS19KAE    | 20,790                        | 18,740 | 16,870 | 15,170 | 12,240 | 9,850  | 8,830  |
| 3     | ZS21KAE    | 27,920                        | 25,160 | 22,650 | 20,370 | 16,440 | 13,230 | 11,850 |
| 3 1/2 | ZS26KAE    | 31,060                        | 28,000 | 25,210 | 22,670 | 18,290 | 14,720 | 13,190 |
| 4 1/2 | ZS30KAE    | 35,320                        | 31,840 | 28,660 | 25,780 | 20,800 | 16,730 | 15,000 |
| 5     | ZS33KAE    | 40,890                        | 37,630 | 34,570 | 31,680 | 26,270 | 21,090 | 18,500 |
| 5 1/2 | ZS38K4E    | 45,930                        | 41,750 | 37,900 | 34,350 | 28,110 | 22,870 | 20,580 |
| 6     | ZS45K4E    | 55,220                        | 50,170 | 45,540 | 41,300 | 33,900 | 27,760 | 25,090 |

Note: All capacity values based on fixed 20°F TD.

40°F Maximum Return Gas

20°F Maximum Superheat

# PERFORMANCE DATA: SCROLL HERMETIC MODELS

## Capacity (BTUH) Data

Scroll Hermetic, R-407A, Medium Temperature

90°F Ambient

| HP    | Compressor | Saturated Suction Temperature |        |        |        |        |        |        |
|-------|------------|-------------------------------|--------|--------|--------|--------|--------|--------|
|       |            | 35°F                          | 30°F   | 25°F   | 20°F   | 10°F   | 0°F    | -5°F   |
| 1     | ZS09KAE    | 14100                         | 12710  | 11460  | 10330  | 8370   | 6730   | 6000   |
| 1 1/2 | ZS13KAE    | 19,220                        | 17,330 | 15,630 | 14,090 | 11,420 | 9,180  | 8,180  |
| 2     | ZS15KAE    | 23,170                        | 20,900 | 18,840 | 16,980 | 13,760 | 11,070 | 9,860  |
| 2 1/2 | ZS19KAE    | 26,140                        | 23,580 | 21,260 | 19,160 | 15,530 | 12,490 | 11,130 |
| 3     | ZS21KAE    | 34,840                        | 31,410 | 28,260 | 25,360 | 20,230 | 15,830 | 13,860 |
| 3 1/2 | ZS26KAE    | 38,670                        | 34,870 | 31,370 | 28,150 | 22,450 | 17,570 | 15,380 |
| 4 1/2 | ZS29KAE    | 43,320                        | 39,060 | 35,140 | 31,540 | 25,150 | 19,690 | 17,230 |
| 5     | ZS33KAE    | 48,810                        | 44,030 | 39,700 | 35,780 | 29,000 | 23,320 | 20,790 |

95°F Ambient

| HP    | Compressor | Saturated Suction Temperature |        |        |        |        |        |        |
|-------|------------|-------------------------------|--------|--------|--------|--------|--------|--------|
|       |            | 35°F                          | 30°F   | 25°F   | 20°F   | 10°F   | 0°F    | -5°F   |
| 1     | ZS09KAE    | 13580                         | 12250  | 11040  | 9950   | 8060   | 6490   | 5780   |
| 1 1/2 | ZS13KAE    | 18,520                        | 16,700 | 15,050 | 13,570 | 10,990 | 8,840  | 7,880  |
| 2     | ZS15KAE    | 22,330                        | 20,130 | 18,150 | 16,350 | 13,250 | 10,660 | 9,500  |
| 2 1/2 | ZS19KAE    | 25,190                        | 22,720 | 20,480 | 18,450 | 14,960 | 12,030 | 10,720 |
| 3     | ZS21KAE    | 33,570                        | 30,280 | 27,250 | 24,460 | 19,500 | 15,220 | 13,290 |
| 3 1/2 | ZS26KAE    | 37,260                        | 33,610 | 30,250 | 27,150 | 21,640 | 16,900 | 14,750 |
| 4 1/2 | ZS29KAE    | 41,740                        | 37,650 | 33,880 | 30,410 | 24,250 | 18,930 | 16,530 |
| 5     | ZS33KAE    | 47,040                        | 42,420 | 38,240 | 34,460 | 27,920 | 22,460 | 20,010 |

100°F Ambient

| HP    | Compressor | Saturated Suction Temperature |        |        |        |        |        |        |
|-------|------------|-------------------------------|--------|--------|--------|--------|--------|--------|
|       |            | 35°F                          | 30°F   | 25°F   | 20°F   | 10°F   | 0°F    | -5°F   |
| 1     | ZS09KAE    | 13060                         | 11780  | 10610  | 9560   | 7750   | 6240   | 5560   |
| 1 1/2 | ZS13KAE    | 17,810                        | 16,060 | 14,470 | 13,040 | 10,570 | 8,500  | 7,580  |
| 2     | ZS15KAE    | 21,470                        | 19,350 | 17,440 | 15,720 | 12,740 | 10,250 | 9,130  |
| 2 1/2 | ZS19KAE    | 24,230                        | 21,840 | 19,680 | 17,740 | 14,380 | 11,570 | 10,310 |
| 3     | ZS21KAE    | 32,280                        | 29,140 | 26,240 | 23,570 | 18,800 | 14,670 | 12,780 |
| 3 1/2 | ZS26KAE    | 35,830                        | 32,340 | 29,130 | 26,160 | 20,870 | 16,280 | 14,190 |
| 4 1/2 | ZS29KAE    | 40,150                        | 36,240 | 32,630 | 29,300 | 23,380 | 18,240 | 15,890 |
| 5     | ZS33KAE    | 45,240                        | 40,780 | 36,750 | 33,120 | 26,840 | 21,600 | 19,250 |

110°F Ambient

| HP    | Compressor | Saturated Suction Temperature |        |        |        |        |        |      |
|-------|------------|-------------------------------|--------|--------|--------|--------|--------|------|
|       |            | 35°F                          | 30°F   | 25°F   | 20°F   | 10°F   | 0°F    | -5°F |
| 1     | ZS09KAE    | 12010                         | 10820  | 9750   | 8780   | 7130   | 5740   | -    |
| 1 1/2 | ZS13KAE    | 16,370                        | 14,750 | 13,290 | 11,980 | 9,720  | 7,830  | -    |
| 2     | ZS15KAE    | 19,730                        | 17,780 | 16,020 | 14,440 | 11,710 | 9,440  | -    |
| 2 1/2 | ZS19KAE    | 22,270                        | 20,060 | 18,080 | 16,290 | 13,220 | 10,650 | -    |
| 3     | ZS21KAE    | 29,810                        | 26,980 | 24,360 | 21,950 | 17,620 | 13,810 | -    |
| 3 1/2 | ZS26KAE    | 33,090                        | 29,940 | 27,040 | 24,360 | 19,560 | 15,330 | -    |
| 4 1/2 | ZS29KAE    | 37,070                        | 33,550 | 30,300 | 27,290 | 21,910 | 17,180 | -    |
| 5     | ZS33KAE    | 41,580                        | 37,460 | 33,750 | 30,420 | 24,680 | 19,890 | -    |

Note: All capacity values based on fixed 20°F TD.

20°F Maximum Superheat

# PERFORMANCE DATA: SCROLL HERMETIC MODELS

## Capacity (BTUH) Data

Scroll Hermetic, R-407C, Medium Temperature

90°F Ambient

| HP    | Compressor | Saturated Suction Temperature |        |        |        |        |        |        |
|-------|------------|-------------------------------|--------|--------|--------|--------|--------|--------|
|       |            | 35°F                          | 30°F   | 25°F   | 20°F   | 10°F   | 0°F    | -5°F   |
| 1     | ZS09KAE    | 13550                         | 12260  | 11040  | 9900   | 7780   | 5840   | 4920   |
| 1 1/2 | ZS13KAE    | 18,470                        | 16,710 | 15,060 | 13,500 | 10,610 | 7,970  | 6,710  |
| 2     | ZS15KAE    | 22,260                        | 20,150 | 18,150 | 16,270 | 12,790 | 9,600  | 8,090  |
| 2 1/2 | ZS19KAE    | 25,120                        | 22,730 | 20,480 | 18,360 | 14,430 | 10,840 | 9,130  |
| 3     | ZS21KAE    | 33,740                        | 30,530 | 27,510 | 24,650 | 19,380 | 14,550 | 12,260 |
| 3 1/2 | ZS26KAE    | 37,430                        | 33,870 | 30,520 | 27,350 | 21,500 | 16,150 | 13,600 |
| 4 1/2 | ZS29KAE    | 41,950                        | 37,960 | 34,210 | 30,660 | 24,100 | 18,100 | 15,250 |
| 5     | ZS33KAE    | 46,500                        | 42,080 | 37,910 | 33,980 | 26,710 | 20,060 | 16,900 |

95°F Ambient

| HP    | Compressor | Saturated Suction Temperature |        |        |        |        |        |        |
|-------|------------|-------------------------------|--------|--------|--------|--------|--------|--------|
|       |            | 35°F                          | 30°F   | 25°F   | 20°F   | 10°F   | 0°F    | -5°F   |
| 1     | ZS09KAE    | 13150                         | 11900  | 10730  | 9620   | 7550   | 5630   | 4710   |
| 1 1/2 | ZS13KAE    | 17,920                        | 16,230 | 14,630 | 13,110 | 10,290 | 7,670  | 6,420  |
| 2     | ZS15KAE    | 21,610                        | 19,560 | 17,630 | 15,810 | 12,400 | 9,250  | 7,740  |
| 2 1/2 | ZS19KAE    | 24,380                        | 22,080 | 19,900 | 17,840 | 13,990 | 10,440 | 8,740  |
| 3     | ZS21KAE    | 32,740                        | 29,650 | 26,720 | 23,950 | 18,790 | 14,020 | 11,730 |
| 3 1/2 | ZS26KAE    | 36,330                        | 32,890 | 29,650 | 26,570 | 20,850 | 15,550 | 13,020 |
| 4 1/2 | ZS29KAE    | 40,710                        | 36,870 | 33,230 | 29,790 | 23,370 | 17,430 | 14,590 |
| 5     | ZS33KAE    | 45,130                        | 40,860 | 36,830 | 33,010 | 25,900 | 19,320 | 16,170 |

100°F Ambient

| HP    | Compressor | Saturated Suction Temperature |        |        |        |        |        |        |
|-------|------------|-------------------------------|--------|--------|--------|--------|--------|--------|
|       |            | 35°F                          | 30°F   | 25°F   | 20°F   | 10°F   | 0°F    | -5°F   |
| 1     | ZS09KAE    | 12750                         | 11550  | 10410  | 9330   | 7300   | 5400   | —      |
| 1 1/2 | ZS13KAE    | 17,380                        | 15,740 | 14,190 | 12,720 | 9,950  | 7,360  | 6,100  |
| 2     | ZS15KAE    | 20,950                        | 18,980 | 17,110 | 15,330 | 11,990 | 8,870  | 7,360  |
| 2 1/2 | ZS19KAE    | 23,640                        | 21,410 | 19,310 | 17,300 | 13,530 | 10,010 | 8,300  |
| 3     | ZS21KAE    | 31,750                        | 28,760 | 25,930 | 23,230 | 18,180 | 13,440 | 11,150 |
| 3 1/2 | ZS26KAE    | 35,220                        | 31,910 | 28,760 | 25,770 | 20,160 | 14,910 | 12,370 |
| 4 1/2 | ZS29KAE    | 39,480                        | 35,760 | 32,240 | 28,890 | 22,600 | 16,720 | 13,870 |
| 5     | ZS33KAE    | 43,750                        | 39,640 | 35,730 | 32,020 | 25,050 | 18,530 | 15,370 |

110°F Ambient

| HP    | Compressor | Saturated Suction Temperature |        |        |        |        |        |      |
|-------|------------|-------------------------------|--------|--------|--------|--------|--------|------|
|       |            | 35°F                          | 30°F   | 25°F   | 20°F   | 10°F   | 0°F    | -5°F |
| 1     | ZS09KAE    | 11940                         | 10820  | 9750   | 8720   | 6760   | —      | —    |
| 1 1/2 | ZS13KAE    | 16,280                        | 14,750 | 13,290 | 11,880 | 9,210  | 6,640  | -    |
| 2     | ZS15KAE    | 19,620                        | 17,780 | 16,020 | 14,330 | 11,100 | 8,010  | -    |
| 2 1/2 | ZS19KAE    | 22,140                        | 20,060 | 18,070 | 16,170 | 12,530 | 9,040  | -    |
| 3     | ZS21KAE    | 29,730                        | 26,940 | 24,270 | 21,710 | 16,830 | 12,140 | -    |
| 3 1/2 | ZS26KAE    | 32,990                        | 29,890 | 26,930 | 24,090 | 18,670 | 13,460 | -    |
| 4 1/2 | ZS29KAE    | 36,970                        | 33,500 | 30,180 | 27,000 | 20,920 | 15,090 | -    |
| 5     | ZS33KAE    | 40,980                        | 37,130 | 33,450 | 29,920 | 23,190 | 16,730 | -    |

Note: All capacity values based on fixed 20°F TD.

20°F Maximum Superheat



# PERFORMANCE DATA: SCROLL HERMETIC MODELS

## Capacity (BTUH) Data

Scroll Hermetic, R-448A/R-449A, Medium Temperature

### 90°F Ambient

| HP    | Compressor | Saturated Suction Temperature |        |        |        |        |        |        |
|-------|------------|-------------------------------|--------|--------|--------|--------|--------|--------|
|       |            | 35°F                          | 30°F   | 25°F   | 20°F   | 10°F   | 0°F    | -5°F   |
| 1     | ZS09KAE    | 13590                         | 12130  | 10840  | 9700   | 7800   | 6280   | 5630   |
| 1 1/2 | ZS13KAE    | 18,550                        | 16,590 | 14,870 | 13,350 | 10,810 | 8,740  | 7,810  |
| 2     | ZS15KAE    | 22,370                        | 20,010 | 17,930 | 16,100 | 13,040 | 10,540 | 9,420  |
| 2 1/2 | ZS19KAE    | 25,140                        | 22,480 | 20,150 | 18,090 | 14,660 | 11,850 | 10,580 |
| 3     | ZS21KAE    | 35,950                        | 32,540 | 29,370 | 26,410 | 21,090 | 16,470 | 14,380 |
| 3 1/2 | ZS26KAE    | 39,340                        | 35,340 | 31,640 | 28,250 | 22,340 | 17,560 | 15,570 |
| 4 1/2 | ZS29KAE    | 45,620                        | 41,300 | 37,270 | 33,520 | 26,770 | 20,900 | 18,250 |
| 5     | ZS33KAE    | 50,330                        | 45,560 | 41,110 | 36,980 | 29,530 | 23,060 | 20,130 |

### 95°F Ambient

| HP    | Compressor | Saturated Suction Temperature |        |        |        |        |        |        |
|-------|------------|-------------------------------|--------|--------|--------|--------|--------|--------|
|       |            | 35°F                          | 30°F   | 25°F   | 20°F   | 10°F   | 0°F    | -5°F   |
| 1     | ZS09KAE    | 13140                         | 11730  | 10480  | 9380   | 7560   | 6120   | 5500   |
| 1 1/2 | ZS13KAE    | 17,870                        | 15,960 | 14,290 | 12,830 | 10,410 | 8,470  | 7,600  |
| 2     | ZS15KAE    | 21,550                        | 19,240 | 17,230 | 15,470 | 12,550 | 10,210 | 9,160  |
| 2 1/2 | ZS19KAE    | 24,220                        | 21,630 | 19,370 | 17,390 | 14,110 | 11,470 | 10,300 |
| 3     | ZS21KAE    | 34,710                        | 31,400 | 28,310 | 25,430 | 20,230 | 15,690 | 13,620 |
| 3 1/2 | ZS26KAE    | 37,950                        | 34,010 | 30,380 | 27,050 | 21,280 | 16,650 | 14,750 |
| 4 1/2 | ZS29KAE    | 44,050                        | 39,850 | 35,930 | 32,270 | 25,670 | 19,910 | 17,280 |
| 5     | ZS33KAE    | 48,600                        | 43,960 | 39,640 | 35,600 | 28,320 | 21,960 | 19,070 |

### 100°F Ambient

| HP    | Compressor | Saturated Suction Temperature |        |        |        |        |        |        |
|-------|------------|-------------------------------|--------|--------|--------|--------|--------|--------|
|       |            | 35°F                          | 30°F   | 25°F   | 20°F   | 10°F   | 0°F    | -5°F   |
| 1     | ZS09KAE    | 12650                         | 11290  | 10080  | 9020   | 7280   | 5910   | 5330   |
| 1 1/2 | ZS13KAE    | 17,130                        | 15,280 | 13,660 | 12,260 | 9,960  | 8,150  | 7,350  |
| 2     | ZS15KAE    | 20,660                        | 18,420 | 16,480 | 14,780 | 12,010 | 9,820  | 8,860  |
| 2 1/2 | ZS19KAE    | 23,220                        | 20,710 | 18,520 | 16,610 | 13,500 | 11,040 | 9,960  |
| 3     | ZS21KAE    | 33,430                        | 30,220 | 27,210 | 24,400 | 19,320 | 14,840 | 12,800 |
| 3 1/2 | ZS26KAE    | 36,400                        | 32,510 | 28,940 | 25,680 | 20,050 | 15,580 | 13,760 |
| 4 1/2 | ZS29KAE    | 42,430                        | 38,340 | 34,530 | 30,970 | 24,510 | 18,840 | 16,240 |
| 5     | ZS33KAE    | 46,810                        | 42,300 | 38,090 | 34,160 | 27,040 | 20,780 | 17,920 |

### 110°F Ambient

| HP    | Compressor | Saturated Suction Temperature |        |        |        |        |        |        |
|-------|------------|-------------------------------|--------|--------|--------|--------|--------|--------|
|       |            | 35°F                          | 30°F   | 25°F   | 20°F   | 10°F   | 0°F    | -5°F   |
| 1     | ZS09KAE    | 11470                         | 10200  | 9080   | 8110   | 6540   | 5330   | —      |
| 1 1/2 | ZS13KAE    | 15,480                        | 13,730 | 12,220 | 10,930 | 8,880  | 7,340  | 6,680  |
| 2     | ZS15KAE    | 18,670                        | 16,560 | 14,740 | 13,180 | 10,710 | 8,850  | 8,050  |
| 2 1/2 | ZS19KAE    | 20,980                        | 18,610 | 16,570 | 14,820 | 12,040 | 9,940  | 9,050  |
| 3     | ZS21KAE    | 30,730                        | 27,700 | 24,850 | 22,180 | 17,310 | 12,960 | 10,950 |
| 3 1/2 | ZS26KAE    | 32,650                        | 28,880 | 25,430 | 22,290 | 16,940 | 12,780 | 11,120 |
| 4 1/2 | ZS29KAE    | 39,000                        | 35,140 | 31,530 | 28,140 | 21,960 | 16,450 | 13,890 |
| 5     | ZS33KAE    | 43,030                        | 38,770 | 34,790 | 31,050 | 24,230 | 18,140 | 15,330 |

Note: All capacity values based on fixed 20°F TD.

20°F Maximum Superheat

# PERFORMANCE DATA: SCROLL HERMETIC MODELS

## Capacity (BTUH) Data

Scroll Hermetic, R-404A, Low Temperature

### 90°F Ambient

| HP    | Compressor | Saturated Suction Temperature |        |        |        |        |        |        |
|-------|------------|-------------------------------|--------|--------|--------|--------|--------|--------|
|       |            | 35°F                          | 30°F   | 25°F   | 20°F   | 10°F   | 0°F    | -5°F   |
| 2     | ZF06K4E    | 11,970                        | 9,920  | 8,940  | 8,010  | 7,130  | 6,310  | 4,900  |
| 2-1/2 | ZF08K4E    | 14,880                        | 12,320 | 11,120 | 9,960  | 8,890  | 7,900  | 6,230  |
| 3     | ZF09K4E    | 16,540                        | 13,730 | 12,400 | 11,130 | 9,930  | 8,840  | 6,980  |
| 3-1/2 | ZF11K4E    | 19,800                        | 16,490 | 14,910 | 13,420 | 12,000 | 10,710 | 8,530  |
| 4-1/2 | ZF13K4E    | 25,950                        | 21,230 | 19,020 | 16,940 | 14,990 | 13,170 | 10,070 |
| 5-1/2 | ZF15K4E    | 31,030                        | 25,640 | 23,070 | 20,650 | 18,390 | 16,280 | 12,740 |
| 6     | ZF18K4E    | 36,360                        | 30,140 | 27,160 | 24,330 | 21,680 | 19,240 | 15,100 |

### 95°F Ambient

| HP    | Compressor | Saturated Suction Temperature |        |        |        |        |        |        |
|-------|------------|-------------------------------|--------|--------|--------|--------|--------|--------|
|       |            | 35°F                          | 30°F   | 25°F   | 20°F   | 10°F   | 0°F    | -5°F   |
| 2     | ZF06K4E    | 11,510                        | 9,540  | 8,600  | 7,700  | 6,860  | 6,070  | 4,710  |
| 2-1/2 | ZF08K4E    | 14,310                        | 11,850 | 10,690 | 9,580  | 8,550  | 7,600  | 5,990  |
| 3     | ZF09K4E    | 15,900                        | 13,200 | 11,920 | 10,700 | 9,550  | 8,500  | 6,710  |
| 3-1/2 | ZF11K4E    | 19,040                        | 15,860 | 14,340 | 12,900 | 11,540 | 10,300 | 8,200  |
| 4-1/2 | ZF13K4E    | 24,950                        | 20,410 | 18,290 | 16,290 | 14,410 | 12,670 | 9,680  |
| 5-1/2 | ZF15K4E    | 29,840                        | 24,650 | 22,190 | 19,860 | 17,670 | 15,660 | 12,250 |
| 6     | ZF18K4E    | 34,960                        | 28,970 | 26,120 | 23,390 | 20,850 | 18,500 | 14,520 |

### 100°F Ambient

| HP    | Compressor | Saturated Suction Temperature |        |        |        |        |        |        |
|-------|------------|-------------------------------|--------|--------|--------|--------|--------|--------|
|       |            | 35°F                          | 30°F   | 25°F   | 20°F   | 10°F   | 0°F    | -5°F   |
| 2     | ZF06K4E    | 11,050                        | 9,160  | 8,260  | 7,390  | 6,590  | 5,830  | 4,520  |
| 2-1/2 | ZF08K4E    | 13,740                        | 11,380 | 10,260 | 9,200  | 8,210  | 7,300  | 5,750  |
| 3     | ZF09K4E    | 15,260                        | 12,670 | 11,440 | 10,270 | 9,170  | 8,160  | 6,440  |
| 3-1/2 | ZF11K4E    | 18,280                        | 15,230 | 13,770 | 12,380 | 11,080 | 9,890  | 7,870  |
| 4-1/2 | ZF13K4E    | 23,950                        | 19,600 | 17,560 | 15,650 | 13,830 | 12,160 | 9,290  |
| 5-1/2 | ZF15K4E    | 28,640                        | 23,660 | 21,300 | 19,070 | 16,960 | 15,030 | 11,750 |
| 6     | ZF18K4E    | 33,560                        | 27,810 | 25,080 | 22,450 | 20,010 | 17,760 | 13,950 |

### 110°F Ambient

| HP    | Compressor | Saturated Suction Temperature |        |        |        |        |        |        |
|-------|------------|-------------------------------|--------|--------|--------|--------|--------|--------|
|       |            | 35°F                          | 30°F   | 25°F   | 20°F   | 10°F   | 0°F    | -5°F   |
| 2     | ZF06K4E    | 10,130                        | 8,400  | 7,570  | 6,780  | 6,040  | 5,340  | 4,140  |
| 2 1/2 | ZF08K4E    | 12,590                        | 10,430 | 9,410  | 8,430  | 7,520  | 6,690  | 5,270  |
| 3     | ZF09K4E    | 13,990                        | 11,620 | 10,490 | 9,420  | 8,400  | 7,480  | 5,900  |
| 3 1/2 | ZF11K4E    | 16,760                        | 13,960 | 12,620 | 11,350 | 10,160 | 9,060  | 7,200  |
| 4 1/2 | ZF13K4E    | 21,950                        | 17,960 | 16,100 | 14,340 | 12,680 | 11,140 | 8,520  |
| 5 1/2 | ZF15K4E    | 26,250                        | 21,690 | 19,530 | 17,480 | 15,550 | 13,780 | 10,770 |
| 6     | ZF18K4E    | 30,770                        | 25,490 | 22,990 | 20,580 | 18,340 | 16,270 | 12,780 |

Note: Liquid injection is required for operation at Low Temperature Applications.

Note: All capacity values based on fixed 15°F TD.

# PERFORMANCE DATA: SCROLL HERMETIC MODELS

## Capacity (BTUH) Data

Scroll Hermetic, R-407A/R-407F, Low Temperature

### 90°F Ambient

| HP    | Compressor | Saturated Suction Temperature |        |        |        |        |        |        |
|-------|------------|-------------------------------|--------|--------|--------|--------|--------|--------|
|       |            | 35°F                          | 30°F   | 25°F   | 20°F   | 10°F   | 0°F    | -5°F   |
| 2     | ZF06K4E    | 11,060                        | 8,750  | 7,730  | 6,800  | 5,950  | 5,180  | 3,860  |
| 2 1/2 | ZF08K4E    | 13,650                        | 10,810 | 9,550  | 8,390  | 7,340  | 6,390  | 4,770  |
| 3     | ZF09K4E    | 15,050                        | 12,140 | 10,730 | 9,400  | 8,170  | 7,090  | 5,520  |
| 3 1/2 | ZF11K4E    | 18,840                        | 15,170 | 13,380 | 11,700 | 10,150 | 8,800  | 6,850  |
| 4 1/2 | ZF13K4E    | 21,990                        | 17,270 | 15,130 | 13,180 | 11,460 | 9,980  | 7,880  |
| 5 1/2 | ZF15K4E    | 27,040                        | 21,210 | 18,630 | 16,310 | 14,270 | 12,530 | 10,020 |
| 6     | ZF18K4E    | 32,440                        | 25,580 | 22,520 | 19,740 | 17,280 | 15,150 | 12,020 |

### 95°F Ambient

| HP    | Compressor | Saturated Suction Temperature |        |        |        |        |        |        |
|-------|------------|-------------------------------|--------|--------|--------|--------|--------|--------|
|       |            | 35°F                          | 30°F   | 25°F   | 20°F   | 10°F   | 0°F    | -5°F   |
| 2     | ZF06K4E    | 10,700                        | 8,470  | 7,490  | 6,580  | 5,750  | 5,010  | 3,730  |
| 2 1/2 | ZF08K4E    | 13,210                        | 10,460 | 9,240  | 8,120  | 7,100  | 6,180  | 4,600  |
| 3     | ZF09K4E    | 14,560                        | 11,780 | 10,420 | 9,120  | 7,930  | 6,880  | 5,330  |
| 3 1/2 | ZF11K4E    | 18,220                        | 14,700 | 12,980 | 11,350 | 9,850  | 8,530  | 6,620  |
| 4 1/2 | ZF13K4E    | 21,300                        | 16,660 | 14,580 | 12,680 | 11,020 | 9,610  | 7,670  |
| 5 1/2 | ZF15K4E    | 26,200                        | 20,500 | 17,990 | 15,740 | 13,750 | 12,070 | 9,670  |
| 6     | ZF18K4E    | 31,480                        | 24,790 | 21,810 | 19,110 | 16,720 | 14,660 | 11,660 |

### 100°F Ambient

| HP    | Compressor | Saturated Suction Temperature |        |        |        |        |        |        |
|-------|------------|-------------------------------|--------|--------|--------|--------|--------|--------|
|       |            | 35°F                          | 30°F   | 25°F   | 20°F   | 10°F   | 0°F    | -5°F   |
| 2     | ZF06K4E    | 10,330                        | 8,180  | 7,220  | 6,350  | 5,550  | 4,830  | 3,590  |
| 2 1/2 | ZF08K4E    | 12,750                        | 10,100 | 8,920  | 7,840  | 6,850  | 5,960  | 4,430  |
| 3     | ZF09K4E    | 14,070                        | 11,410 | 10,100 | 8,850  | 7,690  | 6,660  | 5,140  |
| 3 1/2 | ZF11K4E    | 17,590                        | 14,230 | 12,580 | 11,000 | 9,540  | 8,260  | 6,400  |
| 4 1/2 | ZF13K4E    | 20,590                        | 16,040 | 14,010 | 12,170 | 10,570 | 9,230  | 7,440  |
| 5 1/2 | ZF15K4E    | 25,350                        | 19,780 | 17,330 | 15,130 | 13,210 | 11,580 | 9,290  |
| 6     | ZF18K4E    | 30,510                        | 23,980 | 21,080 | 18,460 | 16,130 | 14,150 | 11,280 |

### 110°F Ambient

| HP    | Compressor | Saturated Suction Temperature |        |        |        |        |        |        |
|-------|------------|-------------------------------|--------|--------|--------|--------|--------|--------|
|       |            | 35°F                          | 30°F   | 25°F   | 20°F   | 10°F   | 0°F    | -5°F   |
| 2     | ZF06K4E    | 9,550                         | 7,560  | 6,670  | 5,870  | 5,130  | 4,460  | 3,300  |
| 2 1/2 | ZF08K4E    | 11,780                        | 9,330  | 8,240  | 7,240  | 6,330  | 5,500  | 4,080  |
| 3     | ZF09K4E    | 13,100                        | 10,690 | 9,480  | 8,320  | 7,230  | 6,260  | 4,800  |
| 3 1/2 | ZF11K4E    | 16,330                        | 13,290 | 11,770 | 10,300 | 8,950  | 7,740  | 5,980  |
| 4 1/2 | ZF13K4E    | 19,110                        | 14,740 | 12,810 | 11,090 | 9,610  | 8,410  | 6,930  |
| 5 1/2 | ZF15K4E    | 23,570                        | 18,250 | 15,920 | 13,830 | 12,020 | 10,490 | 8,410  |
| 6     | ZF18K4E    | 28,520                        | 22,310 | 19,560 | 17,070 | 14,890 | 13,020 | 10,390 |

Note: Liquid injection is required for operation at Low Temperature Applications.

Note: All capacity values based on fixed 15°F TD.

# PERFORMANCE DATA: SCROLL HERMETIC MODELS

## Capacity (BTUH) Data

Scroll Hermetic, R-407C, Low Temperature

### 90°F Ambient

| HP    | Compressor | Saturated Suction Temperature |        |        |        |        |        |        |
|-------|------------|-------------------------------|--------|--------|--------|--------|--------|--------|
|       |            | 35°F                          | 30°F   | 25°F   | 20°F   | 10°F   | 0°F    | -5°F   |
| 2     | ZF06K4E    | 10,450                        | 8,170  | 7,210  | 6,340  | 5,550  | 4,840  | 3,580  |
| 3     | ZF09K4E    | 14,340                        | 11,480 | 10,130 | 8,880  | 7,730  | 6,710  | 5,140  |
| 3 1/2 | ZF11K4E    | 17,850                        | 14,320 | 12,610 | 11,000 | 9,540  | 8,260  | 6,450  |
| 4 1/2 | ZF13K4E    | 20,570                        | 16,110 | 14,080 | 12,230 | 10,590 | 9,200  | 7,300  |
| 5 1/2 | ZF15K4E    | 25,230                        | 19,820 | 17,390 | 15,170 | 13,210 | 11,550 | 9,260  |
| 6     | ZF18K4E    | 30,270                        | 23,880 | 20,990 | 18,360 | 16,020 | 14,020 | 11,180 |

### 95°F Ambient

| HP    | Compressor | Saturated Suction Temperature |        |        |        |        |        |        |
|-------|------------|-------------------------------|--------|--------|--------|--------|--------|--------|
|       |            | 35°F                          | 30°F   | 25°F   | 20°F   | 10°F   | 0°F    | -5°F   |
| 2     | ZF06K4E    | 10,160                        | 7,950  | 7,010  | 6,170  | 5,410  | 4,720  | 3,480  |
| 3     | ZF09K4E    | 13,900                        | 11,150 | 9,850  | 8,630  | 7,510  | 6,520  | 4,980  |
| 3 1/2 | ZF11K4E    | 17,310                        | 13,910 | 12,250 | 10,690 | 9,260  | 8,010  | 6,250  |
| 4 1/2 | ZF13K4E    | 19,960                        | 15,570 | 13,580 | 11,780 | 10,200 | 8,870  | 7,100  |
| 5 1/2 | ZF15K4E    | 24,510                        | 19,210 | 16,820 | 14,660 | 12,750 | 11,150 | 8,970  |
| 6     | ZF18K4E    | 29,450                        | 23,190 | 20,370 | 17,800 | 15,530 | 13,590 | 10,890 |

### 100°F Ambient

| HP    | Compressor | Saturated Suction Temperature |        |        |        |        |        |        |
|-------|------------|-------------------------------|--------|--------|--------|--------|--------|--------|
|       |            | 35°F                          | 30°F   | 25°F   | 20°F   | 10°F   | 0°F    | -5°F   |
| 2     | ZF06K4E    | 9,850                         | 7,720  | 6,810  | 5,990  | 5,250  | 4,580  | 3,360  |
| 3     | ZF09K4E    | 13,460                        | 10,820 | 9,570  | 8,390  | 7,310  | 6,340  | 4,830  |
| 3 1/2 | ZF11K4E    | 16,760                        | 13,490 | 11,890 | 10,370 | 8,990  | 7,770  | 6,050  |
| 4 1/2 | ZF13K4E    | 19,330                        | 15,010 | 13,070 | 11,320 | 9,800  | 8,530  | 6,910  |
| 5 1/2 | ZF15K4E    | 23,770                        | 18,570 | 16,240 | 14,120 | 12,270 | 10,720 | 8,650  |
| 6     | ZF18K4E    | 28,620                        | 22,490 | 19,730 | 17,230 | 15,020 | 13,140 | 10,560 |

### 110°F Ambient

| HP    | Compressor | Saturated Suction Temperature |        |        |        |        |        |       |
|-------|------------|-------------------------------|--------|--------|--------|--------|--------|-------|
|       |            | 35°F                          | 30°F   | 25°F   | 20°F   | 10°F   | 0°F    | -5°F  |
| 2     | ZF06K4E    | 9,180                         | 7,200  | 6,360  | 5,600  | 4,900  | 4,270  | 3,100 |
| 3     | ZF09K4E    | 12,580                        | 10,180 | 9,020  | 7,930  | 6,910  | 6,000  | 4,560 |
| 3 1/2 | ZF11K4E    | 15,650                        | 12,650 | 11,160 | 9,740  | 8,440  | 7,290  | 5,660 |
| 4 1/2 | ZF13K4E    | 18,030                        | 13,870 | 12,020 | 10,380 | 8,970  | 7,830  | 6,490 |
| 5 1/2 | ZF15K4E    | 22,240                        | 17,230 | 14,990 | 12,980 | 11,230 | 9,770  | 7,890 |
| 6     | ZF18K4E    | 26,900                        | 21,020 | 18,380 | 16,000 | 13,910 | 12,150 | 9,810 |

Note: Liquid injection is required for operation at Low Temperature Applications.

Note: All capacity values based on fixed 15°F TD.

# PERFORMANCE DATA: SCROLL HERMETIC MODELS

## Capacity (BTUH) Data

Scroll Hermetic, R-448A/R-449A, Low Temperature

### 90°F Ambient

| HP    | Compressor | Saturated Suction Temperature |        |        |        |        |        |        |
|-------|------------|-------------------------------|--------|--------|--------|--------|--------|--------|
|       |            | 0°F                           | -10°F  | -15°F  | -20°F  | -25°F  | -30°F  | -40°F  |
| 2     | ZF06K4E    | 11,210                        | 8,900  | 7,900  | 6,970  | 6,120  | 5,340  | 3,950  |
| 2 1/2 | ZF08K4E    | 14,280                        | 11,300 | 10,010 | 8,830  | 7,760  | 6,790  | 5,130  |
| 3     | ZF09K4E    | 15,790                        | 12,540 | 11,120 | 9,840  | 8,670  | 7,610  | 5,760  |
| 3 1/2 | ZF11K4E    | 19,740                        | 15,650 | 13,860 | 12,240 | 10,770 | 9,450  | 7,180  |
| 4 1/2 | ZF13K4E    | 23,460                        | 18,460 | 16,250 | 14,250 | 12,440 | 10,840 | 8,230  |
| 5 1/2 | ZF15K4E    | 28,790                        | 22,720 | 20,080 | 17,680 | 15,520 | 13,610 | 10,440 |
| 6     | ZF18K4E    | 34,530                        | 27,360 | 24,230 | 21,380 | 18,810 | 16,500 | 12,610 |

### 95°F Ambient

| HP    | Compressor | Saturated Suction Temperature |        |        |        |        |        |        |
|-------|------------|-------------------------------|--------|--------|--------|--------|--------|--------|
|       |            | 0°F                           | -10°F  | -15°F  | -20°F  | -25°F  | -30°F  | -40°F  |
| 2     | ZF06K4E    | 10,880                        | 8,660  | 7,680  | 6,780  | 5,960  | 5,190  | 3,830  |
| 2 1/2 | ZF08K4E    | 13,860                        | 10,980 | 9,720  | 8,580  | 7,540  | 6,590  | 4,970  |
| 3     | ZF09K4E    | 15,320                        | 12,180 | 10,810 | 9,560  | 8,430  | 7,400  | 5,610  |
| 3 1/2 | ZF11K4E    | 19,160                        | 15,190 | 13,470 | 11,900 | 10,480 | 9,190  | 7,000  |
| 4 1/2 | ZF13K4E    | 22,570                        | 17,740 | 15,620 | 13,710 | 12,000 | 10,490 | 8,080  |
| 5 1/2 | ZF15K4E    | 27,720                        | 21,890 | 19,360 | 17,070 | 15,020 | 13,200 | 10,210 |
| 6     | ZF18K4E    | 33,280                        | 26,410 | 23,420 | 20,710 | 18,270 | 16,080 | 12,410 |

### 100°F Ambient

| HP    | Compressor | Saturated Suction Temperature |        |        |        |        |        |        |
|-------|------------|-------------------------------|--------|--------|--------|--------|--------|--------|
|       |            | 0°F                           | -10°F  | -15°F  | -20°F  | -25°F  | -30°F  | -40°F  |
| 2     | ZF06K4E    | 10,550                        | 8,410  | 7,470  | 6,600  | 5,800  | 5,060  | 3,720  |
| 2 1/2 | ZF08K4E    | 13,430                        | 10,640 | 9,430  | 8,320  | 7,310  | 6,400  | 4,810  |
| 3     | ZF09K4E    | 14,840                        | 11,810 | 10,490 | 9,280  | 8,190  | 7,190  | 5,450  |
| 3 1/2 | ZF11K4E    | 18,560                        | 14,730 | 13,060 | 11,550 | 10,170 | 8,930  | 6,800  |
| 4 1/2 | ZF13K4E    | 21,630                        | 17,000 | 14,980 | 13,170 | 11,570 | 10,170 | 7,970  |
| 5 1/2 | ZF15K4E    | 26,600                        | 21,030 | 18,620 | 16,440 | 14,500 | 12,790 | 10,000 |
| 6     | ZF18K4E    | 32,000                        | 25,440 | 22,600 | 20,030 | 17,720 | 15,670 | 12,230 |

### 110°F Ambient

| HP    | Compressor | Saturated Suction Temperature |        |        |        |        |        |        |
|-------|------------|-------------------------------|--------|--------|--------|--------|--------|--------|
|       |            | 0°F                           | -10°F  | -15°F  | -20°F  | -25°F  | -30°F  | -40°F  |
| 2     | ZF06K4E    | 9,920                         | 7,960  | 7,090  | 6,290  | 5,540  | 4,850  | 3,570  |
| 2 1/2 | ZF08K4E    | 12,520                        | 9,940  | 8,810  | 7,780  | 6,840  | 5,990  | 4,490  |
| 3     | ZF09K4E    | 13,860                        | 11,050 | 9,830  | 8,720  | 7,700  | 6,770  | 5,130  |
| 3 1/2 | ZF11K4E    | 17,290                        | 13,750 | 12,200 | 10,800 | 9,530  | 8,380  | 6,400  |
| 4 1/2 | ZF13K4E    | 19,680                        | 15,480 | 13,690 | 12,100 | 10,730 | 9,560  | 7,850  |
| 5 1/2 | ZF15K4E    | 24,270                        | 19,250 | 17,090 | 15,170 | 13,470 | 11,980 | 9,620  |
| 6     | ZF18K4E    | 29,350                        | 23,460 | 20,930 | 18,670 | 16,660 | 14,880 | 11,970 |

Note: Liquid injection is required for operation at Low Temperature Applications.

Note: All capacity values based on fixed 15°F TD.

## Scroll Compressors

| HP                        | Compressor | Connections<br>ID (in.) |         | Receiver<br>90% Full (lbs.) |
|---------------------------|------------|-------------------------|---------|-----------------------------|
|                           |            | Liquid                  | Suction | R-404A                      |
| Scroll Medium Temperature |            |                         |         |                             |
| 1                         | ZS09KAE    | 1/2                     | 7/8     | 22                          |
| 1-1/2                     | ZS13KAE    | 1/2                     | 7/8     | 22                          |
| 2                         | ZS15KAE    | 1/2                     | 7/8     | 22                          |
| 2-1/2                     | ZS19KAE    | 1/2                     | 7/8     | 22                          |
| 3                         | ZS21KAE    | 1/2                     | 7/8     | 22                          |
| 3-1/2                     | ZS26KAE    | 1/2                     | 7/8     | 22                          |
| 4-1/2                     | ZS29K4E    | 1/2                     | 7/8     | 22                          |
| 5                         | ZS33K4E    | 1/2                     | 7/8     | 22                          |
| 5-1/2                     | ZS38K4E    | 1/2                     | 7/8     | 22                          |
| 6                         | ZS45K4E    | 1/2                     | 7/8     | 22                          |
| Scroll Low Temperature    |            |                         |         |                             |
| 2                         | ZF06K4E    | 1/2                     | 7/8     | 22                          |
| 2-1/2                     | ZF08K4E    | 1/2                     | 7/8     | 22                          |
| 3                         | ZF09K4E    | 1/2                     | 7/8     | 22                          |
| 3-1/2                     | ZF11K4E    | 1/2                     | 7/8     | 22                          |
| 4-1/2                     | ZF13K4E    | 1/2                     | 7/8     | 22                          |
| 5-1/2                     | ZF15K4E    | 1/2                     | 7/8     | 22                          |
| 6                         | ZF18K4E    | 1/2                     | 7/8     | 22                          |

## Scroll Compressor

| HP                        | Compressor  |         |       |    |      |      | Evap. Fan Amps | Defrost Heater Amps |
|---------------------------|-------------|---------|-------|----|------|------|----------------|---------------------|
|                           | Model       | Voltage | Phase | Hz | RLA  | LRA  |                |                     |
| Scroll Medium Temperature |             |         |       |    |      |      |                |                     |
| 1                         | ZS09KAE-PFV | 208-230 | 1     | 60 | 9    | 40.3 | 12             | 30                  |
| 1                         | ZS09KAE-TF5 | 208-230 | 3     | 60 | 7.2  | 55.4 | 9              | 19                  |
| 1-1/2                     | ZS13KAE-PFV | 208-230 | 1     | 60 | 10.8 | 56   | 12             | 30                  |
| 1-1/2                     | ZS13KAE-TF5 | 208-230 | 3     | 60 | 8.7  | 58   | 9              | 19                  |
| 2                         | ZS15KAE-PFV | 208-230 | 1     | 60 | 14.1 | 68   | 12             | 30                  |
| 2                         | ZS15KAE-TF5 | 208-230 | 3     | 60 | 9.6  | 58   | 9              | 19                  |
| 2-1/2                     | ZS19KAE-PFV | 208-230 | 1     | 60 | 16.2 | 75   | 12             | 30                  |
| 2-1/2                     | ZS19KAE-TF5 | 208-230 | 3     | 60 | 12.3 | 73   | 11             | 23                  |
| 3                         | ZS21KAE-PFV | 208-230 | 1     | 60 | 20.8 | 112  | 12             | 30                  |
| 3                         | ZS21KAE-TF5 | 208-230 | 3     | 60 | 13.7 | 93   | 12             | 30                  |
| 3-1/2                     | ZS26KAE-PFV | 208-230 | 1     | 60 | 21.2 | 104  | 12             | 30                  |
| 3-1/2                     | ZS26KAE-TF5 | 208-230 | 3     | 60 | 13.9 | 93   | 12             | 30                  |
| 4-1/2                     | ZS29KAE-PFV | 208-230 | 1     | 60 | 23.4 | 137  | 11             | 47                  |
| 4-1/2                     | ZS29KAE-TF5 | 208-230 | 3     | 60 | 18.4 | 114  | 12             | 35                  |
| 5                         | ZS33KAE-PFV | 208-230 | 1     | 60 | 23   | 146  | 12             | 47                  |
| 5                         | ZS33KAE-TF5 | 208-230 | 3     | 60 | 20   | 114  | 12             | 30                  |
| 5-1/2                     | ZS38K4E-PFV | 208-230 | 1     | 60 | 28.8 | 169  | 12             | 47                  |
| 5-1/2                     | ZS38K4E-TF5 | 208-230 | 3     | 60 | 19.2 | 123  | 12             | 35                  |
| 6                         | ZS45K4E-TF5 | 208-230 | 3     | 60 | 21.5 | 156  | 12             | 30                  |
| Scroll Low Temperature    |             |         |       |    |      |      |                |                     |
| 2                         | ZF06K4E-PFV | 208-230 | 1     | 60 | 12.2 | 61   | 12             | 30                  |
| 2                         | ZF06K4E-TF5 | 208-230 | 3     | 60 | 8.3  | 55   | 9              | 19                  |
| 2-1/2                     | ZF08K4E-PFV | 208-230 | 1     | 60 | 14.7 | 73   | 12             | 30                  |
| 2-1/2                     | ZF08K4E-TF5 | 208-230 | 3     | 60 | 8.7  | 63   | 11             | 23                  |
| 3                         | ZF09K4E-PFV | 208-230 | 1     | 60 | 12.8 | 88   | 12             | 30                  |
| 3                         | ZF09K4E-TF5 | 208-230 | 3     | 60 | 8.7  | 77   | 6              | 19                  |
| 3-1/2                     | ZF11K4E-PFV | 208-230 | 1     | 60 | 16   | 109  | 12             | 30                  |
| 3-1/2                     | ZF11K4E-TF5 | 208-230 | 3     | 60 | 10.9 | 88   | 6              | 23                  |
| 4-1/2                     | ZF13K4E-PFV | 208-230 | 1     | 60 | 22.4 | 129  | 11             | 30                  |
| 4-1/2                     | ZF13K4E-TF5 | 208-230 | 3     | 60 | 11.9 | 99   | 11             | 30                  |
| 5-1/2                     | ZF15K4E-PFV | 208-230 | 1     | 60 | 25   | 169  | 10             | 30                  |
| 5-1/2                     | ZF15K4E-TF5 | 208-230 | 3     | 60 | 17   | 123  | 10             | 30                  |
| 6                         | ZF18K4E-TF5 | 208-230 | 3     | 60 | 19.6 | 156  | 12             | 35                  |

# PERFORMANCE DATA

## Capacity (BTUH) Data

Hermetic, R-404A, Extended Temperature

90°F Ambient

| HP    | Compressor | Saturated Suction Temperature |        |        |        |        |       |       |
|-------|------------|-------------------------------|--------|--------|--------|--------|-------|-------|
|       |            | 30°F                          | 25°F   | 20°F   | 0°F    | -10°F  | -20°F | -25°F |
| 1/2   | RST45C1E   | 5,890                         | 5,410  | 4,850  | 3,260  | 2,130  | 1,810 | 1,380 |
| 1/2   | RST55C1E   | 8,490                         | 8,050  | 7,480  | 4,260  | 2,350  | 1,750 | 1,130 |
| 3/4   | RST64C1E   | 9,710                         | 9,090  | 8,310  | 5,220  | 4,130  | 3,240 | 2,400 |
| 1     | RST70C1E   | 10,360                        | 9,660  | 9,160  | 5,640  | 4,160  | 2,970 | 1,870 |
| 1-1/2 | CS10K6E    | 15,940                        | 14,660 | 13,330 | 7,700  | 4,900  | 3,610 | 2,330 |
| 2     | CS12K6E    | 18,050                        | 16,680 | 15,150 | 8,940  | 6,170  | 4,410 | 2,640 |
| 2-1/2 | CS14K6E    | 19,830                        | 18,220 | 16,770 | 10,810 | 7,840  | 6,360 | 4,470 |
| 3     | CS18K6E    | 31,240                        | 28,630 | 25,980 | 15,400 | 10,260 | 8,110 | 5,950 |
| 3-1/4 | CS20K6E    | 34,200                        | 31,310 | 28,580 | 16,910 | 11,960 | 9,440 | 6,930 |

95°F Ambient

| HP    | Compressor | Saturated Suction Temperature |        |        |        |        |       |       |
|-------|------------|-------------------------------|--------|--------|--------|--------|-------|-------|
|       |            | 30°F                          | 25°F   | 20°F   | 0°F    | -10°F  | -20°F | -25°F |
| 1/2   | RST45C1E   | 5,560                         | 5,100  | 4,580  | 3,080  | 2,010  | 1,710 | 1,300 |
| 1/2   | RST55C1E   | 8,010                         | 7,590  | 7,060  | 4,020  | 2,220  | 1,650 | 1,070 |
| 3/4   | RST64C1E   | 9,170                         | 8,580  | 7,850  | 4,920  | 3,900  | 3,060 | 2,260 |
| 1     | RST70C1E   | 9,770                         | 9,110  | 8,640  | 5,320  | 3,920  | 2,800 | 1,760 |
| 1-1/2 | CS10K6E    | 15,040                        | 13,830 | 12,580 | 7,260  | 4,620  | 3,410 | 2,200 |
| 2     | CS12K6E    | 17,030                        | 15,740 | 14,290 | 8,430  | 5,820  | 4,160 | 2,490 |
| 2-1/2 | CS14K6E    | 18,710                        | 17,190 | 15,820 | 10,200 | 7,400  | 6,000 | 4,220 |
| 3     | CS18K6E    | 29,470                        | 27,010 | 24,510 | 14,530 | 9,680  | 7,650 | 5,610 |
| 3-1/4 | CS20K6E    | 32,260                        | 29,540 | 26,960 | 15,950 | 11,280 | 8,910 | 6,540 |

100°F Ambient

| HP    | Compressor | Saturated Suction Temperature |        |        |        |        |       |       |
|-------|------------|-------------------------------|--------|--------|--------|--------|-------|-------|
|       |            | 30°F                          | 25°F   | 20°F   | 0°F    | -10°F  | -20°F | -25°F |
| 1/2   | RST45C1E   | 5,230                         | 4,790  | 4,310  | 2,900  | 1,890  | 1,610 | 1,220 |
| 1/2   | RST55C1E   | 7,530                         | 7,130  | 6,640  | 3,780  | 2,090  | 1,550 | 1,010 |
| 3/4   | RST64C1E   | 8,620                         | 8,060  | 7,380  | 4,630  | 3,660  | 2,870 | 2,130 |
| 1     | RST70C1E   | 9,180                         | 8,560  | 8,120  | 5,000  | 3,680  | 2,630 | 1,650 |
| 1-1/2 | CS10K6E    | 14,140                        | 13,000 | 11,830 | 6,820  | 4,340  | 3,210 | 2,070 |
| 2     | CS12K6E    | 16,010                        | 14,800 | 13,430 | 7,920  | 5,470  | 3,910 | 2,340 |
| 2-1/2 | CS14K6E    | 17,590                        | 16,160 | 14,870 | 9,590  | 6,960  | 5,640 | 3,970 |
| 3     | CS18K6E    | 27,700                        | 25,390 | 23,040 | 13,660 | 9,100  | 7,190 | 5,270 |
| 3-1/4 | CS20K6E    | 30,320                        | 27,770 | 25,340 | 14,990 | 10,600 | 8,380 | 6,150 |

110°F Ambient

| HP    | Compressor | Saturated Suction Temperature |        |        |        |       |       |       |
|-------|------------|-------------------------------|--------|--------|--------|-------|-------|-------|
|       |            | 30°F                          | 25°F   | 20°F   | 0°F    | -10°F | -20°F | -25°F |
| 1/2   | RST45C1E   | 5,380                         | 4,830  | 4,300  | 2,480  | 1,860 | 1,470 | 1,080 |
| 1/2   | RST55C1E   | 6,150                         | 5,900  | 5,520  | 2,730  | 2,050 | 1,620 | 1,190 |
| 3/4   | RST64C1E   | 7,370                         | 6,840  | 6,300  | 4,070  | 3,000 | 2,380 | 1,750 |
| 1     | RST70C1E   | 7,610                         | 7,130  | 6,600  | 4,080  | 2,710 | 2,140 | 1,570 |
| 1-1/2 | CS10K6E    | 12,780                        | 11,700 | 7,110  | 5,690  | 3,220 | 2,540 | 1,870 |
| 2     | CS12K6E    | 14,870                        | 13,540 | 12,180 | 6,820  | 4,400 | 3,480 | 2,550 |
| 2-1/2 | CS14K6E    | 16,280                        | 15,050 | 13,780 | 8,600  | 6,170 | 4,870 | 3,580 |
| 3     | CS18K6E    | 24,270                        | 22,160 | 20,020 | 11,590 | 7,660 | 6,050 | 4,440 |
| 3-1/4 | CS20K6E    | 26,320                        | 24,040 | 21,690 | 12,250 | 8,020 | 6,340 | 4,650 |



# PERFORMANCE DATA: HERMETIC MODELS

## Capacity (BTUH) Data

Hermetic, R-407C, Extended Temperature

### 90°F Ambient

| HP  | Compressor | Saturated Suction Temperature |       |       |       |       |       |       |
|-----|------------|-------------------------------|-------|-------|-------|-------|-------|-------|
|     |            | 30°F                          | 25°F  | 20°F  | 0°F   | -10°F | -20°F | -25°F |
| 1/2 | RST45C1E   | 6,340                         | 5,580 | 4,890 | 4,270 | 3,700 | 3,210 | 2,770 |
| 3/4 | RST55C1E   | 7,670                         | 6,780 | 5,970 | 5,230 | 4,560 | 3,960 | 3,400 |
| 1   | RST64C1E   | 10,040                        | 8,880 | 7,820 | 6,850 | 5,980 | 5,180 | 4,460 |
| 1   | RST70C1E   | 10,160                        | 9,030 | 8,000 | 7,060 | 6,190 | 5,380 | 4,620 |

### 95°F Ambient

| HP  | Compressor | Saturated Suction Temperature |       |       |       |       |       |       |
|-----|------------|-------------------------------|-------|-------|-------|-------|-------|-------|
|     |            | 30°F                          | 25°F  | 20°F  | 0°F   | -10°F | -20°F | -25°F |
| 1/2 | RST45C1E   | 6,050                         | 5,330 | 4,660 | 4,060 | 3,520 | 3,040 | 2,620 |
| 3/4 | RST55C1E   | 7,320                         | 6,470 | 5,690 | 4,990 | 4,350 | 3,770 | 3,230 |
| 1   | RST64C1E   | 9,590                         | 8,470 | 7,460 | 6,540 | 5,700 | 4,930 | 4,240 |
| 1   | RST70C1E   | 9,720                         | 8,640 | 7,650 | 6,750 | 5,910 | 5,120 | 4,390 |

### 100°F Ambient

| HP  | Compressor | Saturated Suction Temperature |       |       |       |       |       |       |
|-----|------------|-------------------------------|-------|-------|-------|-------|-------|-------|
|     |            | 30°F                          | 25°F  | 20°F  | 0°F   | -10°F | -20°F | -25°F |
| 1/2 | RST45C1E   | 5,770                         | 5,070 | 4,430 | 3,860 | 3,340 | 2,880 | -     |
| 3/4 | RST55C1E   | 6,970                         | 6,160 | 5,420 | 4,740 | 4,130 | 3,580 | -     |
| 1   | RST64C1E   | 9,130                         | 8,070 | 7,100 | 6,210 | 5,410 | 4,680 | -     |
| 1   | RST70C1E   | 9,280                         | 8,250 | 7,300 | 6,430 | 5,620 | 4,870 | -     |

### 110°F Ambient

| HP  | Compressor | Saturated Suction Temperature |       |       |       |       |       |       |
|-----|------------|-------------------------------|-------|-------|-------|-------|-------|-------|
|     |            | 30°F                          | 25°F  | 20°F  | 0°F   | -10°F | -20°F | -25°F |
| 1/2 | RST45C1E   | 5,200                         | 4,570 | 3,990 | 3,460 | 2,980 | -     | -     |
| 3/4 | RST55C1E   | 6,260                         | 5,520 | 4,850 | 4,250 | 3,690 | -     | -     |
| 1   | RST64C1E   | 8,200                         | 7,240 | 6,360 | 5,560 | 4,840 | -     | -     |
| 1   | RST70C1E   | 8,370                         | 7,430 | 6,570 | 5,770 | 5,030 | -     | -     |

Note: All capacity values based on fixed 20°F TD.

# PERFORMANCE DATA: HERMETIC MODELS

## Capacity (BTUH) Data

Hermetic, R-448A/R-449A, Extended Temperature

### 90°F Ambient

| HP  | Compressor | Saturated Suction Temperature |       |       |       |       |       |   |
|-----|------------|-------------------------------|-------|-------|-------|-------|-------|---|
|     |            | 30°F                          | 25°F  | 20°F  | 0°F   | -10°F | -20°F |   |
| 1/2 | RST45C1E   | 6,510                         | 5,720 | 5,000 | 2,810 | 2,050 | -     | - |
| 3/4 | RST55C1E   | 8,230                         | 7,230 | 6,310 | 3,500 | 2,640 | -     | - |
| 1   | RST64C1E   | 10,330                        | 9,140 | 8,040 | 4,560 | 3,390 | -     | - |
| 1   | RST70C1E   | 9,970                         | 8,970 | 8,030 | 4,820 | 3,490 | -     | - |

### 95°F Ambient

| HP  | Compressor | Saturated Suction Temperature |       |       |       |       |       |   |
|-----|------------|-------------------------------|-------|-------|-------|-------|-------|---|
|     |            | 30°F                          | 25°F  | 20°F  | 0°F   | -10°F | -20°F |   |
| 1/2 | RST45C1E   | 6,170                         | 5,410 | 4,730 | 2,650 | -     | -     | - |
| 3/4 | RST55C1E   | 7,780                         | 6,820 | 5,940 | 3,270 | -     | -     | - |
| 1   | RST64C1E   | 9,830                         | 8,680 | 7,630 | 4,310 | -     | -     | - |
| 1   | RST70C1E   | 9,540                         | 8,580 | 7,680 | 4,560 | -     | -     | - |

### 100°F Ambient

| HP  | Compressor | Saturated Suction Temperature |       |       |       |       |       |   |
|-----|------------|-------------------------------|-------|-------|-------|-------|-------|---|
|     |            | 30°F                          | 25°F  | 20°F  | 0°F   | -10°F | -20°F |   |
| 1/2 | RST45C1E   | 5,830                         | 5,110 | 4,470 | 2,490 | -     | -     | - |
| 3/4 | RST55C1E   | 7,330                         | 6,420 | 5,580 | 3,050 | -     | -     | - |
| 1   | RST64C1E   | 9,330                         | 8,240 | 7,230 | 4,060 | -     | -     | - |
| 1   | RST70C1E   | 9,110                         | 8,190 | 7,320 | 4,300 | -     | -     | - |

### 110°F Ambient

| HP  | Compressor | Saturated Suction Temperature |       |       |     |       |       |   |
|-----|------------|-------------------------------|-------|-------|-----|-------|-------|---|
|     |            | 30°F                          | 25°F  | 20°F  | 0°F | -10°F | -20°F |   |
| 1/2 | RST45C1E   | 5,160                         | 4,510 | 3,930 | -   | -     | -     | - |
| 3/4 | RST55C1E   | 6,500                         | 5,660 | 4,910 | -   | -     | -     | - |
| 1   | RST64C1E   | 8,350                         | 7,350 | 6,430 | -   | -     | -     | - |
| 1   | RST70C1E   | 8,240                         | 7,400 | 6,590 | -   | -     | -     | - |

Note: All capacity values based on fixed 20°F TD.

# PERFORMANCE DATA: HERMETIC MODELS

## Capacity (BTUH) Data

Hermetic, R-404A, Low Temperature

### 90°F Ambient

| HP    | Compressor | Saturated Suction Temperature |        |        |        |        |       |
|-------|------------|-------------------------------|--------|--------|--------|--------|-------|
|       |            | 0°F                           | -5°F   | -10°F  | -20°F  | -25°F  | -30°F |
| 1     | CF04K6E    | 7,484                         | 6,624  | 5,765  | 4,090  | 3,293  | 2,536 |
| 1-1/2 | CF06K6E    | 10,610                        | 9,460  | 8,340  | 6,220  | 5,250  | 4,340 |
| 2-1/2 | CF09K6E    | 17,940                        | 15,970 | 14,050 | 10,400 | 8,700  | 7,130 |
| 3     | CF12K6E    | 20,793                        | 18,889 | 16,931 | 12,938 | 10,952 | 9,009 |

### 95°F Ambient

| HP    | Compressor | Saturated Suction Temperature |        |        |        |        |       |
|-------|------------|-------------------------------|--------|--------|--------|--------|-------|
|       |            | 0°F                           | -5°F   | -10°F  | -20°F  | -25°F  | -30°F |
| 1     | CF04K6E    | 6,930                         | 6,109  | 5,289  | 3,684  | 2,919  | 2,196 |
| 1-1/2 | CF06K6E    | 9,980                         | 8,870  | 7,790  | 5,740  | 4,810  | 3,940 |
| 2-1/2 | CF09K6E    | 16,870                        | 14,990 | 13,150 | 9,650  | 8,040  | 6,560 |
| 3     | CF12K6E    | 19,598                        | 17,782 | 15,909 | 12,070 | 10,152 | 8,268 |

### 100°F Ambient

| HP    | Compressor | Saturated Suction Temperature |        |        |        |       |       |
|-------|------------|-------------------------------|--------|--------|--------|-------|-------|
|       |            | 0°F                           | -5°F   | -10°F  | -20°F  | -25°F | -30°F |
| 1     | CF04K6E    | 6,379                         | 5,597  | 4,814  | 3,281  | 2,549 | 1,856 |
| 1-1/2 | CF06K6E    | 9,360                         | 8,280  | 7,230  | 5,270  | 4,370 | 3,550 |
| 2-1/2 | CF09K6E    | 15,810                        | 14,000 | 12,240 | 8,910  | 7,390 | 6,000 |
| 3     | CF12K6E    | 18,410                        | 16,681 | 14,892 | 11,206 | 9,354 | 7,530 |

### 110°F Ambient

| HP    | Compressor | Saturated Suction Temperature |        |        |       |       |       |
|-------|------------|-------------------------------|--------|--------|-------|-------|-------|
|       |            | 0°F                           | -5°F   | -10°F  | -20°F | -25°F | -30°F |
| 1     | CF04K6E    | 5,288                         | 4,581  | 3,872  | 2,477 | 1,809 | N/A   |
| 1-1/2 | CF06K6E    | 8,130                         | 7,110  | 6,130  | 4,310 | 3,500 | 2,770 |
| 2-1/2 | CF09K6E    | 13,680                        | 12,050 | 10,440 | 7,440 | 6,080 | 4,850 |
| 3     | CF12K6E    | 16,056                        | 14,500 | 12,875 | 9,490 | 7,770 | 6,061 |

## Hermetic Compressors

| HP                            | Compressor | Connections<br>ID (in.) |         | Receiver<br>90% Full (lbs.) |
|-------------------------------|------------|-------------------------|---------|-----------------------------|
|                               |            | Liquid                  | Suction | R-404A                      |
| Hermetic Extended Temperature |            |                         |         |                             |
| 1/2                           | RST45C1E   | 3/8                     | 1/2     | 9                           |
| 3/4                           | RST55C1E   | 3/8                     | 1/2     | 9                           |
| 1                             | RST64C1E   | 3/8                     | 1/2     | 9                           |
| 1                             | RST70C1E   | 3/8                     | 1/2     | 9                           |
| 1-1/2                         | CS10K6E    | 3/8                     | 7/8     | 9                           |
| 2                             | CS12K6E    | 3/8                     | 7/8     | 9                           |
| 2-1/2                         | CS14K6E    | 3/8                     | 7/8     | 9                           |
| 3                             | CS18K6E    | 1/2                     | 7/8     | 22                          |
| 3-1/4                         | CS20K6E    | 1/2                     | 7/8     | 22                          |
| Hermetic Low Temperature      |            |                         |         |                             |
| 1                             | CF04K6E    | 3/8                     | 7/8     | 9                           |
| 1-1/2                         | CF06K6E    | 3/8                     | 7/8     | 9                           |
| 2-1/2                         | CF09K6E    | 3/8                     | 7/8     | 9                           |
| 3                             | CF12K6E    | 3/8                     | 7/8     | 9                           |

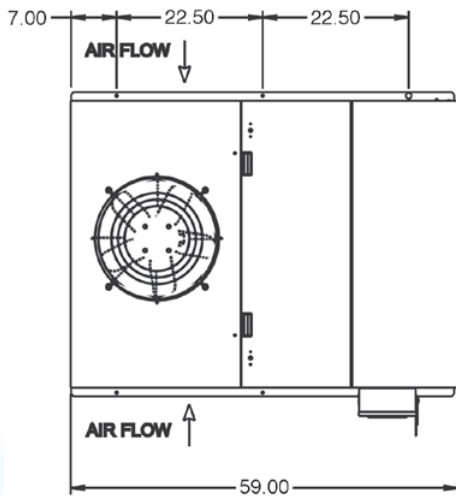
## Hermetic Compressor

| HP                                                         | Compressor   |         |       |    |      |      | Evap. Fan<br>Amps | Defrost<br>Heater Amps |
|------------------------------------------------------------|--------------|---------|-------|----|------|------|-------------------|------------------------|
|                                                            | Model        | Voltage | Phase | Hz | RLA  | LRA  |                   |                        |
| Hermetic Medium, High Temperature and Extended Temperature |              |         |       |    |      |      |                   |                        |
| 1/2                                                        | RST45C1E-CAV | 208-230 | 1     | 60 | 4.6  | 26.5 | 8                 | 15                     |
| 1/2                                                        | RST55C1E-CAV | 208-230 | 1     | 60 | 6.1  | 33.7 | 8                 | 15                     |
| 3/4                                                        | RST64C1E-CAV | 208-230 | 1     | 60 | 8.1  | 43   | 7                 | 15                     |
| 1                                                          | RST70C1E-PFV | 208-230 | 1     | 60 | 6.9  | 46   | 7                 | 15                     |
| 1                                                          | RST70C1E-TF5 | 208-230 | 3     | 60 | 4.9  | 36   | 8.6               | 15                     |
| 1-1/2                                                      | CS10K6E-PFV  | 208-230 | 1     | 60 | 9.8  | 56   | 6                 | 19                     |
| 1-1/2                                                      | CS10K6E-TF5  | 208-230 | 3     | 60 | 6.7  | 51   | 7                 | 15                     |
| 2                                                          | CS12K6E-PFV  | 208-230 | 1     | 60 | 9.8  | 56   | 6                 | 19                     |
| 2                                                          | CS12K6E-TF5  | 208-230 | 3     | 60 | 6.7  | 51   | 9                 | 19                     |
| 2-1/2                                                      | CS14K6E-PFV  | 208-230 | 1     | 60 | 11.2 | 61   | 6                 | 23                     |
| 2-1/2                                                      | CS14K6E-TF5  | 208-230 | 3     | 60 | 8.2  | 55   | 9                 | 19                     |
| 3                                                          | CS18K6E-PFV  | 208-230 | 1     | 60 | 14.4 | 82   | 12                | 30                     |
| 3                                                          | CS18K6E-TF5  | 208-230 | 3     | 60 | 9.4  | 65.5 | 7                 | 23                     |
| 3-1/4                                                      | CS20K6E-PFV  | 208-230 | 1     | 60 | 16.7 | 96   | 12                | 30                     |
| 3-1/4                                                      | CS20K6E-TF5  | 208-230 | 3     | 60 | 10.3 | 75   | 7                 | 23                     |
| Hermetic Low Temperature                                   |              |         |       |    |      |      |                   |                        |
| 1                                                          | CF04K6E-PFV  | 208-230 | 1     | 60 | 8.6  | 59.2 | 7                 | 15                     |
| 1                                                          | CF04K6E-TF5  | 200-230 | 3     | 60 | 5.7  | 52   | 8                 | 15                     |
| 1-1/2                                                      | CF06K6E-PFV  | 208-230 | 1     | 60 | 10.3 | 59.2 | 4                 | 15                     |
| 1-1/2                                                      | CF06K6E-TF5  | 200-230 | 3     | 60 | 6.3  | 52   | 9                 | 19                     |
| 2-1/2                                                      | CF09K6E-PFV  | 208-230 | 1     | 60 | 15   | 87   | 6                 | 23                     |
| 2-1/2                                                      | CF09K6E-TF5  | 200-230 | 3     | 60 | 9.2  | 72.2 | 7                 | 15                     |
| 3                                                          | CF12K6E-PFV  | 208-230 | 1     | 60 | 18.4 | 105  | 12                | 30                     |
| 3                                                          | CF12K6E-TF5  | 200-230 | 3     | 60 | 11   | 85   | 7                 | 23                     |

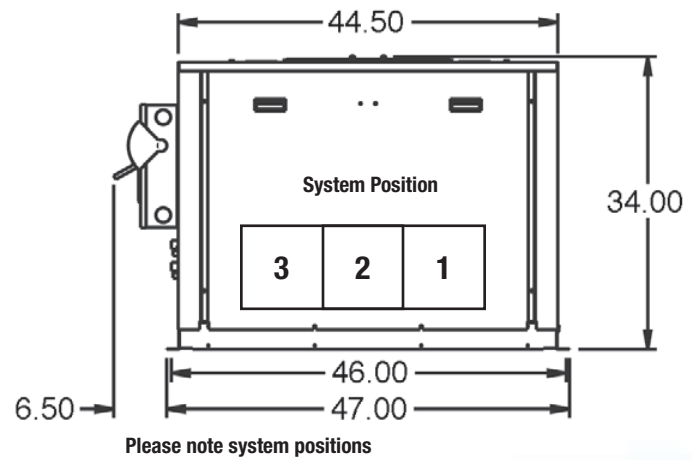
# DIMENSIONS

## Dimensional Drawings

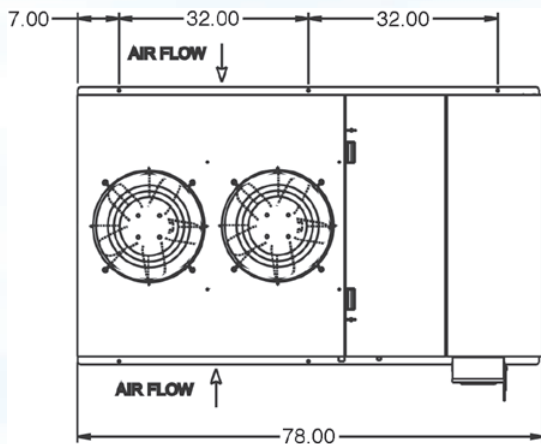
### Single Fan Top View



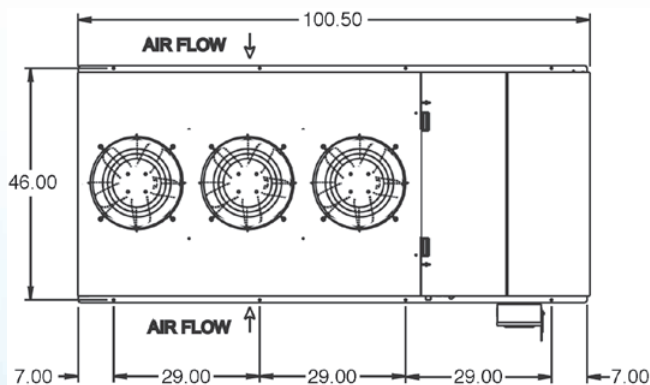
### End View



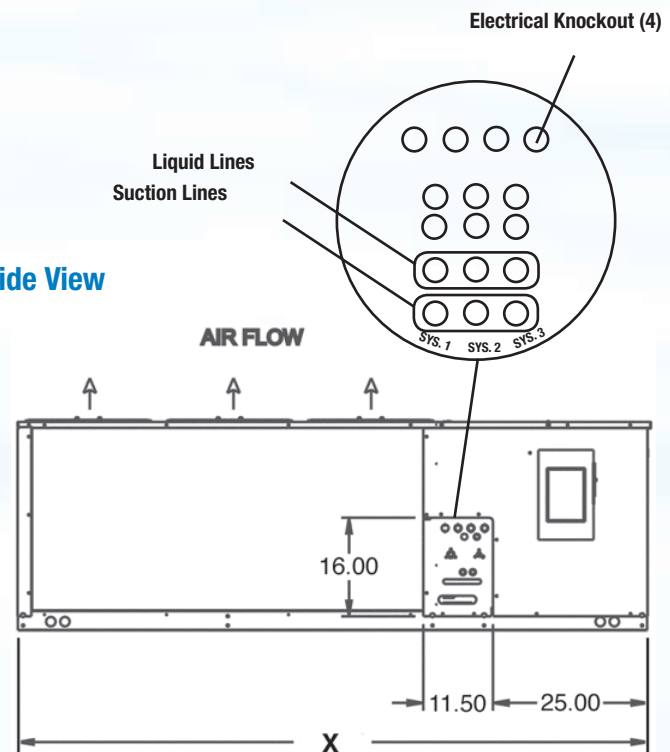
### Two Fan Top View



### Three Fan Top View



### Side View



X = 100.50 (Three Fan Length)

X = 78.00 (Two Fan Length)

X = 59.00 (Single Fan Length)

**Notes:**



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For more information on Larkin refrigeration products, contact  
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Since product improvement is a continuing effort, we reserve the right to make  
changes in specifications without notice.

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