

**BN-TB-FP**  
April, 2004



# ***FLEXPACK***<sup>TM</sup>

## **Multiple Compressor Condensing Units**

### **Technical Bulletin**



**One simple solution, so many possibilities.**

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

## Construction

The industrial grade cabinet is constructed of heavy gauge G90 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 in to 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. All of the engineering for this unit was produced with a team approach by a worldwide leader in the refrigeration industry.

The unit was designed for 100°F. ambient operation. It can be configured for higher ambient applications. 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 Reduce air conditioning energy costs by reducing the heat load in the space through the use of remote condenser circuits
- Sounds Quieter with fewer condenser fans and the reduced noise level of vertical fans

## System Features

- Up to 3 compressors, 1/2 to 6 HP Hermetic or Scroll
- AR, CF, CR, CS, RS, ZF, ZS standard compressors
- 230 volt/1 phase/60 hertz and 230 volt/3 phase/60 hertz units available
- 95 pre-engineered compressor modules to choose
- 1, 2, or 3 condenser fan configurations
- R22 and R404A 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 G90 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 USA and Canada

## Standard Compressor Module Components

- 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

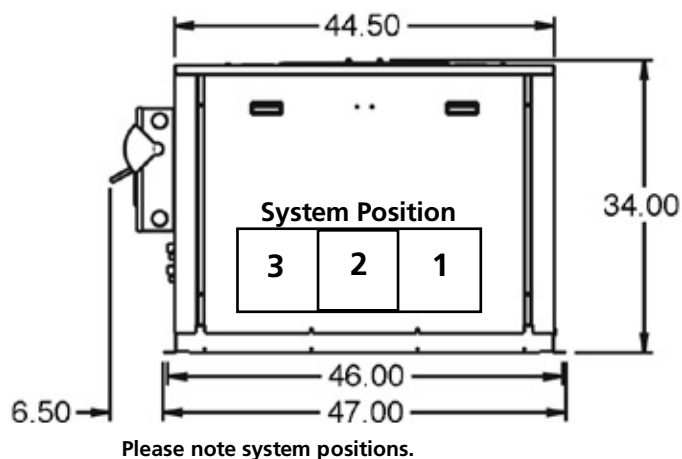
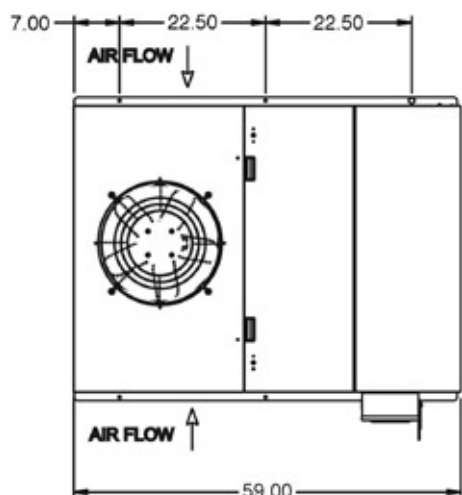
## Options

- Remote Condenser Circuit
- Remote Condenser Circuit, Pre-charged R-22
- 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 Amp
- Beacon II™ Refrigeration Controller
- Air or Electric Defrost Timer
- Liquid Line solenoid Valve & Pump Down Switch



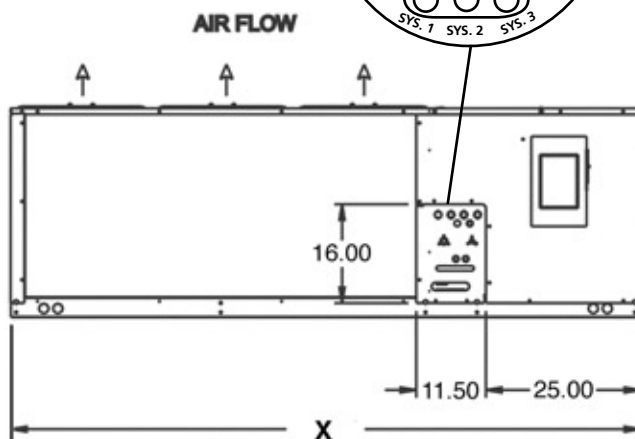
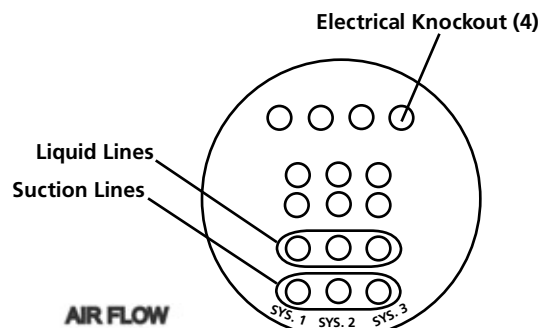
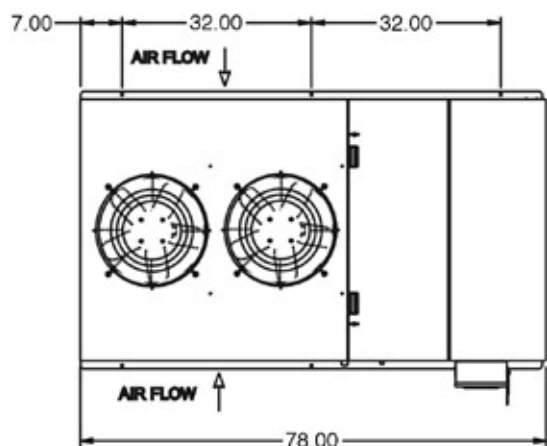
## Dimensions

### Single Fan Top View

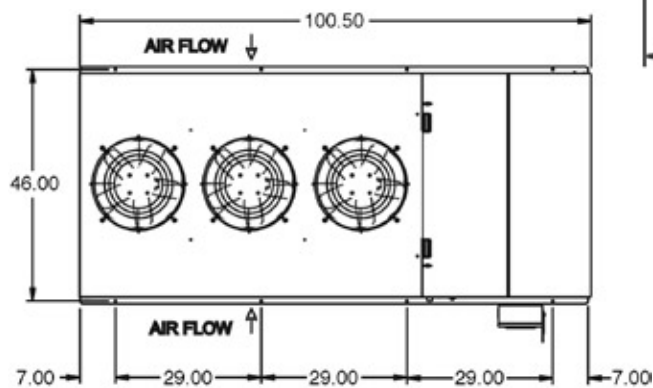


Please note system positions.

### Two Fan Top View



### Three Fan Top View



X = 100.50 (Three Fan Length)  
X = 78.00 (Two Fan Length)  
X = 59.00 (Single Fan Length)

### Side View

## Module Physical Specifications

| Compressor HP                                    | Compressor | Connections (ID) |         | Receiver<br>90% Full (lbs) |     |
|--------------------------------------------------|------------|------------------|---------|----------------------------|-----|
|                                                  |            | Liquid           | Suction | R404A                      | R22 |
| Medium and High Temperature Hermetic Compressors |            |                  |         |                            |     |
| 1/2                                              | ART82C1    | 3/8              | 1/2     | 9                          | 10  |
| 3/4                                              | RS64C2     | 3/8              | 1/2     | 9                          | 10  |
| 1                                                | RS70C1     | 3/8              | 5/8     | 9                          | 10  |
| 1 1/2                                            | CR18KQ     | 3/8              | 5/8     | 9                          | 10  |
| 2                                                | CR24KQ     | 3/8              | 5/8     | 9                          | 10  |
| 3                                                | CR37KQ     | 1/2              | 7/8     | 22                         | 25  |
| 4                                                | CR53KQ     | 1/2              | 7/8     | 22                         | 25  |
| 5                                                | CRN-0500   | 1/2              | 7/8     | 22                         | 25  |
| Extended Temperature Hermetic Compressors        |            |                  |         |                            |     |
| 1/2                                              | RS43C2E    | 3/8              | 1/2     | 9                          | 10  |
| 3/4                                              | RS55C2E    | 3/8              | 1/2     | 9                          | 10  |
| 1                                                | RS64C2E    | 3/8              | 1/2     | 9                          | 10  |
| 1                                                | RS70C1E    | 3/8              | 1/2     | 9                          | 10  |
| 1 1/2                                            | CS10K6E    | 3/8              | 7/8     | 9                          | 10  |
| 2                                                | CS12K6E    | 3/8              | 7/8     | 9                          | 10  |
| 2 1/2                                            | CS14K6E    | 3/8              | 7/8     | 9                          | 10  |
| 3                                                | CS18K6E    | 1/2              | 7/8     | 22                         | 25  |
| 3 1/4                                            | CS20K6E    | 1/2              | 7/8     | 22                         | 25  |
| 4                                                | CS27K6E    | 1/2              | 7/8     | 22                         | 25  |
| 5                                                | CS33K6E    | 1/2              | 7/8     | 22                         | 25  |
| Low Temperature Hermetic Compressors             |            |                  |         |                            |     |
| 1                                                | CF04K6E    | 3/8              | 7/8     | 9                          | 10  |
| 1 1/2                                            | CF06K6E    | 3/8              | 7/8     | 9                          | 10  |
| 2 1/2                                            | CF09K6E    | 3/8              | 7/8     | 9                          | 10  |
| 3                                                | CF12K6E    | 3/8              | 7/8     | 9                          | 10  |
| Medium Temperature Scroll Compressors            |            |                  |         |                            |     |
| 2                                                | ZS15K4E    | 1/2              | 7/8     | 22                         | 25  |
| 2 1/2                                            | ZS19K4E    | 1/2              | 7/8     | 22                         | 25  |
| 3                                                | ZS21K4E    | 1/2              | 7/8     | 22                         | 25  |
| 3 1/2                                            | ZS26K4E    | 1/2              | 7/8     | 22                         | 25  |
| 4 1/2                                            | ZS30K4E    | 1/2              | 7/8     | 22                         | 25  |
| 5 1/2                                            | ZS38K4E    | 1/2              | 7/8     | 22                         | 25  |
| 6                                                | ZS45K4E    | 1/2              | 7/8     | 22                         | 25  |
| Low Temperature Scroll Compressors               |            |                  |         |                            |     |
| 2                                                | ZF06K4E    | 1/2              | 7/8     | 22                         | 25  |
| 2 1/2                                            | ZF08K4E    | 1/2              | 7/8     | 22                         | 25  |
| 3                                                | ZF09K4E    | 1/2              | 7/8     | 22                         | 25  |
| 3 1/2                                            | ZF11K4E    | 1/2              | 7/8     | 22                         | 25  |
| 4 1/2                                            | ZF13K4E    | 1/2              | 7/8     | 22                         | 25  |
| 5 1/2                                            | ZF15K4E    | 1/2              | 7/8     | 22                         | 25  |
| 6                                                | ZF18K4E    | 1/2              | 7/8     | 22                         | 25  |

## Electrical Data, Scroll Compressors

| Compressor HP                   | Compressor  |         |       |    |      |     | Evap. Fan<br>Amps | Defrost<br>Heater Amps |
|---------------------------------|-------------|---------|-------|----|------|-----|-------------------|------------------------|
|                                 | Model       | Voltage | Phase | Hz | RLA  | LRA |                   |                        |
| Scroll Medium Temperature R404A |             |         |       |    |      |     |                   |                        |
| 2                               | ZS15K4E-PFV | 208-230 | 1     | 60 | 12.2 | 61  | 12                | 30                     |
| 2                               | ZS15K4E-TF5 | 208-230 | 3     | 60 | 8.3  | 55  | 9                 | 19                     |
| 2 1/2                           | ZS19K4E-PFV | 208-230 | 1     | 60 | 14.7 | 73  | 12                | 30                     |
| 2 1/2                           | ZS19K4E-TF5 | 208-230 | 3     | 60 | 8.7  | 63  | 11                | 23                     |
| 3                               | ZS21K4E-PFV | 208-230 | 1     | 60 | 14.7 | 88  | 12                | 30                     |
| 3                               | ZS21K4E-TF5 | 208-230 | 3     | 60 | 9.9  | 77  | 12                | 30                     |
| 3 1/2                           | ZS26K4E-PFV | 208-230 | 1     | 60 | 18.6 | 109 | 12                | 30                     |
| 3 1/2                           | ZS26K4E-TF5 | 208-230 | 3     | 60 | 12.2 | 88  | 12                | 30                     |
| 4 1/2                           | ZS30K4E-PFV | 208-230 | 1     | 60 | 24   | 129 | 11                | 47                     |
| 4 1/2                           | ZS30K4E-TF5 | 208-230 | 3     | 60 | 13.5 | 99  | 12                | 35                     |
| 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 R404A    |             |         |       |    |      |     |                   |                        |
| 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 | 14.7 | 88  | 12                | 30                     |
| 3                               | ZF09K4E-TF5 | 208-230 | 3     | 60 | 9.9  | 77  | 6                 | 19                     |
| 3 1/2                           | ZF11K4E-PFV | 208-230 | 1     | 60 | 18.6 | 109 | 12                | 30                     |
| 3 1/2                           | ZF11K4E-TF5 | 208-230 | 3     | 60 | 12.2 | 88  | 6                 | 23                     |
| 4 1/2                           | ZF13K4E-PFV | 208-230 | 1     | 60 | 24   | 129 | 11                | 30                     |
| 4 1/2                           | ZF13K4E-TF5 | 208-230 | 3     | 60 | 13.5 | 99  | 11                | 30                     |
| 5 1/2                           | ZF15K4E-PFV | 208-230 | 1     | 60 | 28.8 | 169 | 10                | 30                     |
| 5 1/2                           | ZF15K4E-TF5 | 208-230 | 3     | 60 | 19.2 | 123 | 10                | 30                     |
| 6                               | ZF18K4E-TF5 | 208-230 | 3     | 60 | 21.5 | 156 | 12                | 35                     |

## Electrical Data, Hermetic Compressors

| Compressor HP                                    | Compressor   |         |       |    |      |       | Evap. Fan<br>Amps | Defrost<br>Heater Amps |
|--------------------------------------------------|--------------|---------|-------|----|------|-------|-------------------|------------------------|
|                                                  | Model        | Voltage | Phase | Hz | RLA  | LRA   |                   |                        |
| Hermetic Medium and High Temperature Compressors |              |         |       |    |      |       |                   |                        |
| 1/2                                              | ART82C1-CAV  | 208-230 | 1     | 60 | 5.9  | 30    | 8                 | 15                     |
| 3/4                                              | RS64C2-CAV   | 208-230 | 1     | 60 | 6.9  | 37    | 8                 | 15                     |
| 1                                                | RS70C1-PFV   | 208-230 | 1     | 60 | 6.3  | 34.2  | 7                 | 15                     |
| 1                                                | RS70C1-TFC   | 208-230 | 3     | 60 | 4.2  | 31    | 8.6               | 15                     |
| 1 1/2                                            | CR18KQ-PFV   | 208-230 | 1     | 60 | 8.1  | 41    | 6                 | 19                     |
| 1 1/2                                            | CR18KQ-TF5   | 208-230 | 3     | 60 | 4.9  | 40    | 7                 | 19                     |
| 2                                                | CR24KQ-PFV   | 208-230 | 1     | 60 | 12.2 | 70.5  | 6                 | 23                     |
| 2                                                | CR24KQ-TF5   | 208-230 | 3     | 60 | 6.7  | 40    | 9                 | 19                     |
| 3                                                | CR37KQ-PFV   | 208-230 | 1     | 60 | 16.7 | 100.3 | 12                | 30                     |
| 3                                                | CR37KQ-TF5   | 208-230 | 3     | 60 | 9.9  | 85    | 12                | 30                     |
| 3                                                | CR37KQ-PFV   | 208-230 | 1     | 60 | 16.7 | 100.3 | 12                | 30                     |
| 3                                                | CR37KQ-TF5   | 208-230 | 3     | 60 | 9.9  | 85    | 12                | 30                     |
| 4                                                | CR53KQ-PFV   | 208-230 | 1     | 60 | 26   | 140   | 12                | 35                     |
| 4                                                | CR53KQ-PFV   | 208-230 | 3     | 60 | 16.3 | 107   | 12                | 30                     |
| 5                                                | CRN-0500-PFV | 208-230 | 1     | 60 | 30.8 | 142   | 12                | 47                     |
| 5                                                | CRN-0500-TF5 | 208-230 | 3     | 60 | 19.2 | 130   | 12                | 30                     |
| Hermetic Extended Temperature Compressors        |              |         |       |    |      |       |                   |                        |
| 1/2                                              | RS43C2E-CAV  | 208-230 | 1     | 60 | 4.8  | 24.1  | 8                 | 15                     |
| 3/4                                              | RS55C2E-CAV  | 208-230 | 1     | 60 | 5.4  | 40    | 8                 | 15                     |
| 1                                                | RS64C2E-CAV  | 208-230 | 1     | 60 | 6.9  | 37    | 7                 | 15                     |
| 1                                                | RS70C1E-PFV  | 208-230 | 1     | 60 | 6.3  | 34.2  | 7                 | 15                     |
| 1                                                | RS70C1E-TFC  | 208-230 | 3     | 60 | 4.2  | 31    | 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                     |
| 4                                                | CS27K6E-PFV  | 208-230 | 1     | 60 | 21.5 | 121   | 12                | 35                     |
| 4                                                | CS27K6E-TF5  | 208-230 | 3     | 60 | 13.7 | 105   | 12                | 30                     |
| 5                                                | CS33K6E-PFV  | 208-230 | 1     | 60 | 27.6 | 125   | 12                | 47                     |
| 5                                                | CS33K6E-TF5  | 208-230 | 3     | 60 | 16.8 | 102   | 12                | 30                     |
| Hermetic Low Temperature Compressors             |              |         |       |    |      |       |                   |                        |
| 1                                                | CF04K6E-PFV  | 208-230 | 1     | 60 | 8.6  | 59.2  | 7                 | 15                     |
| 1                                                | CF04K6E-TF5  | 200-230 | 3     | 60 | 3.9  | 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 | 17   | 105   | 12                | 30                     |
| 3                                                | CF12K6E-TF5  | 200-230 | 3     | 60 | 10.7 | 85    | 7                 | 23                     |

## Capacity (btuh) Data, Reciprocating Hermetic, R22, Medium and High Temperature

### 90°F. Ambient

| HP    | Compressor | Saturated Suction Temperature |       |       |       |       |       |       |
|-------|------------|-------------------------------|-------|-------|-------|-------|-------|-------|
|       |            | 40°F.                         | 30°F. | 25°F. | 20°F. | 15°F. | 10°F. | 0°F.  |
| 1/2   | ART82C1    | 8380                          | 6900  | 6230  | 5610  | 5060  | 4570  | 3830  |
| 3/4   | RS64C2     | –                             | 9860  | 8770  | 7720  | 6730  | 5740  | 4250  |
| 1     | RS70C1     | 13640                         | 11180 | 9980  | 8800  | 7690  | 6560  | 4590  |
| 1 1/2 | CR18KQ     | –                             | 15250 | 13550 | 11910 | 10350 | 8800  | 5930  |
| 2     | CR24KQ     | 24360                         | 19930 | 17760 | 15650 | 13650 | 11640 | 8560  |
| 3     | CR37KQ     | –                             | 28090 | 25120 | 22220 | 19410 | 16720 | 11880 |
| 3     | CR37KQ     | 41190                         | 33300 | 29500 | 25830 | 22330 | 19040 | 13210 |
| 4     | CR53KQ     | 57430                         | 46140 | 40790 | 35620 | 30740 | 26150 | 18100 |
| 5     | CRN-0500   | 64770                         | 52240 | 46250 | 40490 | 35010 | 29860 | 20740 |

### 95°F. Ambient

| HP    | Compressor | Saturated Suction Temperature |       |       |       |       |       |       |
|-------|------------|-------------------------------|-------|-------|-------|-------|-------|-------|
|       |            | 40°F.                         | 30°F. | 25°F. | 20°F. | 15°F. | 10°F. | 0°F.  |
| 1/2   | ART82C1    | 8050                          | 6610  | 5960  | 5360  | 4820  | 4350  | 3630  |
| 3/4   | RS64C2     | 11550                         | 9390  | 8350  | 7350  | 6420  | 5470  | 4050  |
| 1     | RS70C1     | 12990                         | 10650 | 9500  | 8380  | 7320  | 6250  | 4370  |
| 1 1/2 | CR18KQ     | –                             | 14520 | 12910 | 11340 | 9860  | 8380  | 5640  |
| 2     | CR24KQ     | 23190                         | 18980 | 16910 | 14900 | 12990 | 11090 | 8150  |
| 3     | CR37KQ     | –                             | 26750 | 23930 | 21160 | 18480 | 15920 | 11310 |
| 3     | CR37KQ     | 38230                         | 31710 | 28090 | 24610 | 21260 | 18140 | 12580 |
| 4     | CR53KQ     | 54690                         | 43950 | 38840 | 33930 | 29270 | 24920 | 17240 |
| 5     | CRN-0500   | 61680                         | 49760 | 44050 | 38560 | 33340 | 28440 | 19750 |

### 100°F. Ambient

| HP    | Compressor | Saturated Suction Temperature |       |       |       |       |       |       |
|-------|------------|-------------------------------|-------|-------|-------|-------|-------|-------|
|       |            | 40°F.                         | 30°F. | 25°F. | 20°F. | 15°F. | 10°F. | 0°F.  |
| 1/2   | ART82C1    | 7710                          | 6320  | 5690  | 5110  | 4590  | 4130  | 3440  |
| 3/4   | RS64C2     | 10970                         | 8930  | 7940  | 6990  | 6100  | 5190  | 3850  |
| 1     | RS70C1     | 12340                         | 10120 | 9030  | 7960  | 6950  | 5940  | 4150  |
| 1 1/2 | CR18KQ     | –                             | 13800 | 12260 | 10770 | 9370  | 7960  | 5360  |
| 2     | CR24KQ     | 22030                         | 18030 | 16070 | 14160 | 12340 | 10540 | 7740  |
| 3     | CR37KQ     | –                             | 25410 | 22730 | 20100 | 17550 | 15130 | 10740 |
| 3     | CR37KQ     | 37270                         | 30130 | 26690 | 23380 | 20200 | 17220 | 11950 |
| 4     | CR53KQ     | 51960                         | 41760 | 36890 | 32240 | 27820 | 23670 | 16390 |
| 5     | CRN-0500   | 58600                         | 47270 | 41850 | 36630 | 31680 | 27020 | 18760 |

### 110°F. Ambient

| HP    | Compressor | Saturated Suction Temperature |       |       |       |       |       |       |
|-------|------------|-------------------------------|-------|-------|-------|-------|-------|-------|
|       |            | 40°F.                         | 30°F. | 25°F. | 20°F. | 15°F. | 10°F. | 0°F.  |
| 1/2   | ART82C1    | 7040                          | 5740  | 5150  | 4600  | 4110  | 3690  | 3050  |
| 3/4   | RS64C2     | 9570                          | 7680  | 6790  | 5970  | 5180  | 4480  | 3320  |
| 1     | RS70C1     | 10600                         | 8540  | 7530  | 6560  | 5630  | 4760  | 3200  |
| 1 1/2 | CR18KQ     | –                             | 12360 | 10980 | 9610  | 8320  | 7090  | 4860  |
| 2     | CR24KQ     | 19770                         | 16180 | 14410 | 12680 | 11000 | 9400  | 6490  |
| 3     | CR37KQ     | –                             | 22690 | 20190 | 17760 | 15420 | 13200 | 9290  |
| 3     | CR37KQ     | 33900                         | 27120 | 23870 | 20760 | 17820 | 15080 | 10350 |
| 4     | CR53KQ     | 48390                         | 38470 | 33780 | 29320 | 25120 | 21230 | 14550 |
| 5     | CRN-0500   | 54770                         | 43730 | 38490 | 33470 | 28740 | 24340 | 16760 |

## Capacity (btuh) Data, Reciprocating Hermetic, R404A, 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   | RS43C2E    | 5890                          | 5410  | 4850  | 3260  | 2130   | 1810   | 1380   |
| 3/4   | RS55C2E    | 8490                          | 8050  | 7480  | 4260  | 2350   | 1750   | 1130   |
| 1     | RS64C2E    | 9710                          | 9090  | 8310  | 5220  | 4130   | 3240   | 2400   |
| 1     | RS70C1E    | 10360                         | 9660  | 9160  | 5640  | 4160   | 2970   | 1870   |
| 1 1/2 | CS10K6E    | 15940                         | 14660 | 13330 | 7700  | 4900   | 3610   | 2330   |
| 2     | CS12K6E    | 18050                         | 16680 | 15150 | 8940  | 6170   | 4410   | 2640   |
| 2 1/2 | CS14K6E    | 19830                         | 18220 | 16770 | 10810 | 7840   | 6360   | 4470   |
| 3     | CS18K6E    | 31240                         | 28630 | 25980 | 15400 | 10260  | 8110   | 5950   |
| 3 1/4 | CS20K6E    | 34200                         | 31310 | 28580 | 16910 | 11960  | 9440   | 6930   |
| 4     | CS27K6E    | 43970                         | 39510 | 35150 | 20560 | 14980  | 11830  | 8690   |
| 5     | CS33K6E    | 49470                         | 45010 | 40420 | 24860 | 18110  | 14300  | 10500  |

### 95°F. Ambient

| HP    | Compressor | Saturated Suction Temperature |       |       |       |        |        |        |
|-------|------------|-------------------------------|-------|-------|-------|--------|--------|--------|
|       |            | 30°F.                         | 25°F. | 20°F. | 0°F.  | -10°F. | -20°F. | -25°F. |
| 1/2   | RS43C2E    | 5560                          | 5100  | 4580  | 3080  | 2010   | 1710   | 1300   |
| 3/4   | RS55C2E    | 8010                          | 7590  | 7060  | 4020  | 2220   | 1650   | 1070   |
| 1     | RS64C2E    | 9170                          | 8580  | 7850  | 4920  | 3900   | 3060   | 2260   |
| 1     | RS70C1E    | 9770                          | 9110  | 8640  | 5320  | 3920   | 2800   | 1760   |
| 1 1/2 | CS10K6E    | 15040                         | 13830 | 12580 | 7260  | 4620   | 3410   | 2200   |
| 2     | CS12K6E    | 17030                         | 15740 | 14290 | 8430  | 5820   | 4160   | 2490   |
| 2 1/2 | CS14K6E    | 18710                         | 17190 | 15820 | 10200 | 7400   | 6000   | 4220   |
| 3     | CS18K6E    | 29470                         | 27010 | 24510 | 14530 | 9680   | 7650   | 5610   |
| 3 1/4 | CS20K6E    | 32260                         | 29540 | 26960 | 15950 | 11280  | 8910   | 6540   |
| 4     | CS27K6E    | 41480                         | 37270 | 33160 | 19400 | 14130  | 11160  | 8200   |
| 5     | CS33K6E    | 46670                         | 42460 | 38130 | 23450 | 17080  | 13490  | 9900   |

### 100°F. Ambient

| HP    | Compressor | Saturated Suction Temperature |       |       |       |        |        |        |
|-------|------------|-------------------------------|-------|-------|-------|--------|--------|--------|
|       |            | 30°F.                         | 25°F. | 20°F. | 0°F.  | -10°F. | -20°F. | -25°F. |
| 1/2   | RS43C2E    | 5230                          | 4790  | 4310  | 2900  | 1890   | 1610   | 1220   |
| 3/4   | RS55C2E    | 7530                          | 7130  | 6640  | 3780  | 2090   | 1550   | 1010   |
| 1     | RS64C2E    | 8620                          | 8060  | 7380  | 4630  | 3660   | 2870   | 2130   |
| 1     | RS70C1E    | 9180                          | 8560  | 8120  | 5000  | 3680   | 2630   | 1650   |
| 1 1/2 | CS10K6E    | 14140                         | 13000 | 11830 | 6820  | 4340   | 3210   | 2070   |
| 2     | CS12K6E    | 16010                         | 14800 | 13430 | 7920  | 5470   | 3910   | 2340   |
| 2 1/2 | CS14K6E    | 17590                         | 16160 | 14870 | 9590  | 6960   | 5640   | 3970   |
| 3     | CS18K6E    | 27700                         | 25390 | 23040 | 13660 | 9100   | 7190   | 5270   |
| 3 1/4 | CS20K6E    | 30320                         | 27770 | 25340 | 14990 | 10600  | 8380   | 6150   |
| 4     | CS27K6E    | 38980                         | 35030 | 31180 | 18240 | 13290  | 10500  | 7700   |
| 5     | CS33K6E    | 43860                         | 39910 | 35840 | 22050 | 16050  | 12690  | 9310   |

### 110°F. Ambient

| HP    | Compressor | Saturated Suction Temperature |       |       |       |        |        |        |
|-------|------------|-------------------------------|-------|-------|-------|--------|--------|--------|
|       |            | 30°F.                         | 25°F. | 20°F. | 0°F.  | -10°F. | -20°F. | -25°F. |
| 1/2   | RS43C2E    | 5380                          | 4830  | 4300  | 2480  | 1860   | 1470   | 1080   |
| 3/4   | RS55C2E    | 6150                          | 5900  | 5520  | 2730  | 2050   | 1620   | 1190   |
| 1     | RS64C2E    | 7370                          | 6840  | 6300  | 4070  | 3000   | 2380   | 1750   |
| 1     | RS70C1E    | 7610                          | 7130  | 6600  | 4080  | 2710   | 2140   | 1570   |
| 1 1/2 | CS10K6E    | 12780                         | 11700 | 7110  | 5690  | 3220   | 2540   | 1870   |
| 2     | CS12K6E    | 14870                         | 13540 | 12180 | 6820  | 4400   | 3480   | 2550   |
| 2 1/2 | CS14K6E    | 16280                         | 15050 | 13780 | 8600  | 6170   | 4870   | 3580   |
| 3     | CS18K6E    | 24270                         | 22160 | 20020 | 11590 | 7660   | 6050   | 4440   |
| 3 1/4 | CS20K6E    | 26320                         | 24040 | 21690 | 12250 | 8020   | 6340   | 4650   |
| 4     | CS27K6E    | 35150                         | 31240 | 27520 | 15210 | 11290  | 8920   | 6550   |
| 5     | CS33K6E    | 39870                         | 35920 | 32070 | 18230 | 12840  | 10150  | 7450   |

## Capacity (btuh) Data, Reciprocating Hermetic, R404A, Low Temperature

### 90°F. Ambient

| HP    | Compressor | Saturated Suction Temperature |       |        |        |        |        |
|-------|------------|-------------------------------|-------|--------|--------|--------|--------|
|       |            | 0°F.                          | -5°F. | -10°F. | -20°F. | -25°F. | -30°F. |
| 1     | CF04K6E    | 7484                          | 6624  | 5765   | 4090   | 3293   | 2536   |
| 1 1/2 | CF06K6E    | 10610                         | 9460  | 8340   | 6220   | 5250   | 4340   |
| 2 1/2 | CF09K6E    | 17940                         | 15970 | 14050  | 10400  | 8700   | 7130   |
| 3     | CF12K6E    | 20793                         | 18889 | 16931  | 12938  | 10952  | 9009   |

### 95°F. Ambient

| HP    | Compressor | Saturated Suction Temperature |       |        |        |        |        |
|-------|------------|-------------------------------|-------|--------|--------|--------|--------|
|       |            | 0°F.                          | -5°F. | -10°F. | -20°F. | -25°F. | -30°F. |
| 1     | CF04K6E    | 6930                          | 6109  | 5289   | 3684   | 2919   | 2196   |
| 1 1/2 | CF06K6E    | 9980                          | 8870  | 7790   | 5740   | 4810   | 3940   |
| 2 1/2 | CF09K6E    | 16870                         | 14990 | 13150  | 9650   | 8040   | 6560   |
| 3     | CF12K6E    | 19598                         | 17782 | 15909  | 12070  | 10152  | 8268   |

### 100°F. Ambient

| HP    | Compressor | Saturated Suction Temperature |       |        |        |        |        |
|-------|------------|-------------------------------|-------|--------|--------|--------|--------|
|       |            | 0°F.                          | -5°F. | -10°F. | -20°F. | -25°F. | -30°F. |
| 1     | CF04K6E    | 6379                          | 5597  | 4814   | 3281   | 2549   | 1856   |
| 1 1/2 | CF06K6E    | 9360                          | 8280  | 7230   | 5270   | 4370   | 3550   |
| 2 1/2 | CF09K6E    | 15810                         | 14000 | 12240  | 8910   | 7390   | 6000   |
| 3     | CF12K6E    | 18410                         | 16681 | 14892  | 11206  | 9354   | 7530   |

### 110°F. Ambient

| HP    | Compressor | Saturated Suction Temperature |       |        |        |        |        |
|-------|------------|-------------------------------|-------|--------|--------|--------|--------|
|       |            | 0°F.                          | -5°F. | -10°F. | -20°F. | -25°F. | -30°F. |
| 1     | CF04K6E    | 5288                          | 4581  | 3872   | 2477   | 1809   | N/A    |
| 1 1/2 | CF06K6E    | 8130                          | 7110  | 6130   | 4310   | 3500   | 2770   |
| 2 1/2 | CF09K6E    | 13680                         | 12050 | 10440  | 7440   | 6080   | 4850   |
| 3     | CF12K6E    | 16056                         | 14500 | 12875  | 9490   | 7770   | 6061   |

## Capacity (btuh) Data, Scroll Hermetic, R404A, Medium Temperature

### 90°F. Ambient

| HP    | Compressor | Saturated Suction Temperature |       |       |       |       |       |       |
|-------|------------|-------------------------------|-------|-------|-------|-------|-------|-------|
|       |            | 35°F.                         | 30°F. | 25°F. | 20°F. | 10°F. | 0°F.  | -5°F. |
| 2     | ZS15K4E    | 22630                         | 21160 | 19690 | 18210 | 15340 | 12640 | 11390 |
| 2 1/2 | ZS19K4E    | 26730                         | 25070 | 23390 | 21700 | 18380 | 15230 | 13750 |
| 3     | ZS21K4E    | 32760                         | 30580 | 28360 | 26170 | 21900 | 17950 | 16140 |
| 3 1/2 | ZS26K4E    | 39310                         | 36730 | 34130 | 31560 | 26540 | 21850 | 19690 |
| 4 1/2 | ZS30K4E    | 46490                         | 43050 | 39760 | 36560 | 30480 | 24890 | 22310 |
| 5 1/2 | ZS38K4E    | 53990                         | 50410 | 46970 | 43530 | 36770 | 30380 | 27400 |
| 6     | ZS45K4E    | 61960                         | 58120 | 54430 | 50680 | 43160 | 35890 | 32490 |

### 95°F. Ambient

| HP    | Compressor | Saturated Suction Temperature |       |       |       |       |       |       |
|-------|------------|-------------------------------|-------|-------|-------|-------|-------|-------|
|       |            | 35°F.                         | 30°F. | 25°F. | 20°F. | 10°F. | 0°F.  | -5°F. |
| 2     | ZS15K4E    | 21760                         | 20350 | 18930 | 17510 | 14750 | 12150 | 10950 |
| 2 1/2 | ZS19K4E    | 25700                         | 24110 | 22490 | 20870 | 17670 | 14640 | 11790 |
| 3     | ZS21K4E    | 31500                         | 29400 | 27270 | 25160 | 21060 | 17260 | 15520 |
| 3 1/2 | ZS26K4E    | 37800                         | 35320 | 32820 | 30350 | 25520 | 21010 | 18930 |
| 4 1/2 | ZS30K4E    | 44700                         | 41390 | 38230 | 35150 | 29310 | 23930 | 21450 |
| 5 1/2 | ZS38K4E    | 51910                         | 48470 | 45160 | 41860 | 35360 | 29210 | 26350 |
| 6     | ZS45K4E    | 59580                         | 55880 | 52340 | 48730 | 41500 | 34510 | 31240 |

### 100°F. Ambient

| HP    | Compressor | Saturated Suction Temperature |       |       |       |       |       |       |
|-------|------------|-------------------------------|-------|-------|-------|-------|-------|-------|
|       |            | 35°F.                         | 30°F. | 25°F. | 20°F. | 10°F. | 0°F.  | -5°F. |
| 2     | ZS15K4E    | 20890                         | 19540 | 18170 | 16810 | 14160 | 11660 | 10510 |
| 2 1/2 | ZS19K4E    | 24670                         | 23150 | 21590 | 20040 | 16960 | 14050 | 12690 |
| 3     | ZS21K4E    | 30240                         | 28220 | 26180 | 24150 | 20220 | 16570 | 14900 |
| 3 1/2 | ZS26K4E    | 36290                         | 33910 | 31510 | 29140 | 24500 | 20170 | 18170 |
| 4 1/2 | ZS30K4E    | 42910                         | 39730 | 36700 | 33740 | 28140 | 22970 | 20590 |
| 5 1/2 | ZS38K4E    | 49830                         | 46530 | 43350 | 40190 | 33950 | 28040 | 25300 |
| 6     | ZS45K4E    | 57200                         | 53640 | 50250 | 46780 | 39840 | 33130 | 29990 |

### 110°F. Ambient

| HP    | Compressor | Saturated Suction Temperature |       |       |       |       |       |       |
|-------|------------|-------------------------------|-------|-------|-------|-------|-------|-------|
|       |            | 35°F.                         | 30°F. | 25°F. | 20°F. | 10°F. | 0°F.  | -5°F. |
| 2     | ZS15K4E    | 19150                         | 17910 | 16660 | 15410 | 12980 | 10690 | 9640  |
| 2 1/2 | ZS19K4E    | 22620                         | 21220 | 19760 | 18370 | 15550 | 14190 | 11630 |
| 3     | ZS21K4E    | 27720                         | 25870 | 24000 | 22140 | 18530 | 15190 | 13660 |
| 3 1/2 | ZS26K4E    | 33260                         | 31080 | 28880 | 26710 | 22460 | 18490 | 16660 |
| 4 1/2 | ZS30K4E    | 39340                         | 36420 | 33640 | 30930 | 25790 | 21060 | 18880 |
| 5 1/2 | ZS38K4E    | 45680                         | 42650 | 39740 | 36840 | 31120 | 25700 | 23190 |
| 6     | ZS45K4E    | —                             | 49170 | 46060 | 42880 | 36520 | 30370 | 27490 |

## Capacity (btuh) Data, Scroll Hermetic, R404A, 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    | 11970                         | 9920   | 8940   | 8010   | 7130   | 6310   | 4900   |
| 2 1/2 | ZF08K4E    | 14880                         | 12320  | 11120  | 9960   | 8890   | 7900   | 6230   |
| 3     | ZF09K4E    | 16540                         | 13730  | 12400  | 11130  | 9930   | 8840   | 6980   |
| 3 1/2 | ZF11K4E    | 19800                         | 16490  | 14910  | 13420  | 12000  | 10710  | 8530   |
| 4 1/2 | ZF13K4E    | 25950                         | 21230  | 19020  | 16940  | 14990  | 13170  | 10070  |
| 5 1/2 | ZF15K4E    | 31030                         | 25640  | 23070  | 20650  | 18390  | 16280  | 12740  |
| 6     | ZF18K4E    | 36360                         | 30140  | 27160  | 24330  | 21680  | 19240  | 15100  |

### 95°F. Ambient

| HP    | Compressor | Saturated Suction Temperature |        |        |        |        |        |        |
|-------|------------|-------------------------------|--------|--------|--------|--------|--------|--------|
|       |            | 0°F.                          | -10°F. | -15°F. | -20°F. | -25°F. | -30°F. | -40°F. |
| 2     | ZF06K4E    | 11510                         | 9540   | 8600   | 7700   | 6860   | 6070   | 4710   |
| 2 1/2 | ZF08K4E    | 14310                         | 11850  | 10690  | 9580   | 8550   | 7600   | 5990   |
| 3     | ZF09K4E    | 15900                         | 13200  | 11920  | 10700  | 9550   | 8500   | 6710   |
| 3 1/2 | ZF11K4E    | 19040                         | 15860  | 14340  | 12900  | 11540  | 10300  | 8200   |
| 4 1/2 | ZF13K4E    | 24950                         | 20410  | 18290  | 16290  | 14410  | 12670  | 9680   |
| 5 1/2 | ZF15K4E    | 29840                         | 24650  | 22190  | 19860  | 17670  | 15660  | 12250  |
| 6     | ZF18K4E    | 34960                         | 28970  | 26120  | 23390  | 20850  | 18500  | 14520  |

### 100°F. Ambient

| HP    | Compressor | Saturated Suction Temperature |        |        |        |        |        |        |
|-------|------------|-------------------------------|--------|--------|--------|--------|--------|--------|
|       |            | 0°F.                          | -10°F. | -15°F. | -20°F. | -25°F. | -30°F. | -40°F. |
| 2     | ZF06K4E    | 11050                         | 9160   | 8260   | 7390   | 6590   | 5830   | 4520   |
| 2 1/2 | ZF08K4E    | 13740                         | 11380  | 10260  | 9200   | 8210   | 7300   | 5750   |
| 3     | ZF09K4E    | 15260                         | 12670  | 11440  | 10270  | 9170   | 8160   | 6440   |
| 3 1/2 | ZF11K4E    | 18280                         | 15230  | 13770  | 12380  | 11080  | 9890   | 7870   |
| 4 1/2 | ZF13K4E    | 23950                         | 19600  | 17560  | 15650  | 13830  | 12160  | 9290   |
| 5 1/2 | ZF15K4E    | 28640                         | 23660  | 21300  | 19070  | 16960  | 15030  | 11750  |
| 6     | ZF18K4E    | 33560                         | 27810  | 25080  | 22450  | 20010  | 17760  | 13950  |

### 110°F. Ambient

| HP    | Compressor | Saturated Suction Temperature |        |        |        |        |        |        |
|-------|------------|-------------------------------|--------|--------|--------|--------|--------|--------|
|       |            | 0°F.                          | -10°F. | -15°F. | -20°F. | -25°F. | -30°F. | -40°F. |
| 2     | ZF06K4E    | 10130                         | 8400   | 7570   | 6780   | 6040   | 5340   | 4140   |
| 2 1/2 | ZF08K4E    | 12590                         | 10430  | 9410   | 8430   | 7520   | 6690   | 5270   |
| 3     | ZF09K4E    | 13990                         | 11620  | 10490  | 9420   | 8400   | 7480   | 5900   |
| 3 1/2 | ZF11K4E    | 16760                         | 13960  | 12620  | 11350  | 10160  | 9060   | 7220   |
| 4 1/2 | ZF13K4E    | 21950                         | 17960  | 16100  | 14340  | 12680  | 11140  | 8520   |
| 5 1/2 | ZF15K4E    | 26250                         | 21690  | 19530  | 17480  | 15550  | 13780  | 10770  |
| 6     | ZF18K4E    | 30770                         | 25490  | 22990  | 20580  | 18340  | 16270  | 12780  |

## Capacity (btuh) Data, Scroll Hermetic, R22, Medium Temperature

### 90°F. Ambient

| HP    | Compressor | Saturated Suction Temperature |       |       |       |       |
|-------|------------|-------------------------------|-------|-------|-------|-------|
|       |            | 35°F.                         | 30°F. | 25°F. | 20°F. | 10°F. |
| 2     | ZS15K4E    | 21230                         | 19630 | 18080 | 16560 | 13710 |
| 2 1/2 | ZS19K4E    | 25080                         | 23260 | 21480 | 19740 | 16430 |
| 3     | ZS21K4E    | 30740                         | 28360 | 26040 | 23800 | 19580 |
| 3 1/2 | ZS26K4E    | 37430                         | 34440 | 31570 | 28820 | 23580 |
| 4 1/2 | ZS30K4E    | 44150                         | 40390 | 36830 | 33470 | 27360 |
| 5 1/2 | ZS38K4E    | 51970                         | 48030 | 44190 | 40480 | 33270 |
| 6     | ZS45K4E    | 61220                         | 56690 | 52230 | 47880 | 39610 |

### 95°F. Ambient

| HP    | Compressor | Saturated Suction Temperature |       |       |       |       |
|-------|------------|-------------------------------|-------|-------|-------|-------|
|       |            | 35°F.                         | 30°F. | 25°F. | 20°F. | 10°F. |
| 2     | ZS15K4E    | 22080                         | 20420 | 18800 | 17220 | 14260 |
| 2 1/2 | ZS19K4E    | 26080                         | 24190 | 22340 | 20530 | 17090 |
| 3     | ZS21K4E    | 31970                         | 29490 | 27080 | 24750 | 20360 |
| 3 1/2 | ZS26K4E    | 38930                         | 35820 | 32830 | 29970 | 24520 |
| 4 1/2 | ZS30K4E    | 45920                         | 42010 | 38300 | 34810 | 28450 |
| 5 1/2 | ZS38K4E    | 54050                         | 49950 | 45960 | 42100 | 34600 |
| 6     | ZS45K4E    | 63670                         | 58960 | 54320 | 49800 | 41190 |

### 100°F. Ambient

| HP    | Compressor | Saturated Suction Temperature |       |       |       |       |
|-------|------------|-------------------------------|-------|-------|-------|-------|
|       |            | 35°F.                         | 30°F. | 25°F. | 20°F. | 10°F. |
| 2     | ZS15K4E    | 20380                         | 18850 | 17360 | 15900 | 13160 |
| 2 1/2 | ZS19K4E    | 24080                         | 22330 | 20620 | 18950 | 15770 |
| 3     | ZS21K4E    | 29510                         | 27230 | 25000 | 22850 | 18800 |
| 3 1/2 | ZS26K4E    | 35930                         | 33060 | 30310 | 27670 | 22640 |
| 4 1/2 | ZS30K4E    | 42380                         | 38770 | 35360 | 32130 | 26270 |
| 5 1/2 | ZS38K4E    | 49890                         | 46110 | 42420 | 38860 | 31940 |
| 6     | ZS45K4E    | 58770                         | 54420 | 50140 | 45970 | 38030 |

### 110°F. Ambient

| HP    | Compressor | Saturated Suction Temperature |       |       |       |       |
|-------|------------|-------------------------------|-------|-------|-------|-------|
|       |            | 35°F.                         | 30°F. | 25°F. | 20°F. | 10°F. |
| 2     | ZS15K4E    | 19530                         | 18060 | 16630 | 15240 | 12610 |
| 2 1/2 | ZS19K4E    | 23070                         | 21400 | 19760 | 18160 | 15120 |
| 3     | ZS21K4E    | 28280                         | 26090 | 23960 | 21900 | 18010 |
| 3 1/2 | ZS26K4E    | 34440                         | 31690 | 29040 | 26510 | 21690 |
| 4 1/2 | ZS30K4E    | 40620                         | 37160 | 33880 | 30790 | 25170 |
| 5 1/2 | ZS38K4E    | 47810                         | 44190 | 40660 | 37240 | 30610 |
| 6     | ZS45K4E    | 56320                         | 52160 | 48050 | 44050 | 36440 |

## Capacity (btuh) Data, Scroll Hermetic, R22, 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    | 11060                         | 8950   | 7980   | 7090   | 6280   | 5560   | 4370   |
| 2 1/2 | ZF08K4E    | 13870                         | 11240  | 10040  | 8930   | 7910   | 6990   | 5500   |
| 3     | ZF09K4E    | 15180                         | 12450  | 11190  | 10000  | 8890   | 7870   | 6150   |
| 3 1/2 | ZF11K4E    | 18390                         | 15110  | 13590  | 12150  | 10820  | 9600   | 7520   |
| 4 1/2 | ZF13K4E    | 22370                         | 18230  | 16320  | 14550  | 12910  | 11430  | 8950   |
| 5 1/2 | ZF15K4E    | 27430                         | 22370  | 20050  | 17880  | 15580  | 14050  | 11000  |
| 6     | ZF18K4E    | 32190                         | 26240  | 23490  | 20920  | 18550  | 16400  | 12800  |

### 95°F. Ambient

| HP    | Compressor | Saturated Suction Temperature |        |        |        |        |        |        |
|-------|------------|-------------------------------|--------|--------|--------|--------|--------|--------|
|       |            | 0°F.                          | -10°F. | -15°F. | -20°F. | -25°F. | -30°F. | -40°F. |
| 2     | ZF06K4E    | 11610                         | 9400   | 8380   | 7450   | 6590   | 5840   | 4590   |
| 2 1/2 | ZF08K4E    | 14560                         | 11800  | 10540  | 9380   | 8310   | 7340   | 5780   |
| 3     | ZF09K4E    | 15940                         | 13070  | 11750  | 10500  | 9340   | 8260   | 6460   |
| 3 1/2 | ZF11K4E    | 19310                         | 15870  | 14270  | 12760  | 11360  | 10080  | 7900   |
| 4 1/2 | ZF13K4E    | 23490                         | 19140  | 17140  | 15280  | 13560  | 12000  | 9400   |
| 5 1/2 | ZF15K4E    | 28800                         | 23490  | 21050  | 18770  | 16360  | 14750  | 11550  |
| 6     | ZF18K4E    | 33800                         | 27550  | 24670  | 21970  | 19480  | 17220  | 13440  |

### 100°F. Ambient

| HP    | Compressor | Saturated Suction Temperature |        |        |        |        |        |        |
|-------|------------|-------------------------------|--------|--------|--------|--------|--------|--------|
|       |            | 0°F.                          | -10°F. | -15°F. | -20°F. | -25°F. | -30°F. | -40°F. |
| 2     | ZF06K4E    | 10840                         | 8770   | 7820   | 6950   | 6150   | 5450   | 4280   |
| 2 1/2 | ZF08K4E    | 13590                         | 11020  | 9840   | 8750   | 7750   | 6850   | 5390   |
| 3     | ZF09K4E    | 14880                         | 12200  | 10970  | 9800   | 8710   | 7710   | 6030   |
| 3 1/2 | ZF11K4E    | 18020                         | 14810  | 13320  | 11910  | 10600  | 9410   | 7370   |
| 4 1/2 | ZF13K4E    | 21920                         | 17870  | 15990  | 14260  | 12650  | 11200  | 8770   |
| 5 1/2 | ZF15K4E    | 26880                         | 21920  | 19650  | 17520  | 15270  | 13770  | 10780  |
| 6     | ZF18K4E    | 31550                         | 25720  | 23020  | 20500  | 18180  | 16070  | 12540  |

### 110°F. Ambient

| HP    | Compressor | Saturated Suction Temperature |        |        |        |        |        |        |
|-------|------------|-------------------------------|--------|--------|--------|--------|--------|--------|
|       |            | 0°F.                          | -10°F. | -15°F. | -20°F. | -25°F. | -30°F. | -40°F. |
| 2     | ZF06K4E    | 10290                         | 8320   | 7420   | 6590   | 5840   | 5170   | 4060   |
| 2 1/2 | ZF08K4E    | 12900                         | 10450  | 9340   | 8310   | 7360   | 6500   | 5120   |
| 3     | ZF09K4E    | 14120                         | 11580  | 10410  | 9300   | 8270   | 7320   | 5720   |
| 3 1/2 | ZF11K4E    | 17100                         | 14050  | 12640  | 11300  | 10060  | 8930   | 6990   |
| 4 1/2 | ZF13K4E    | 20800                         | 16950  | 15180  | 13530  | 12010  | 10630  | 8320   |
| 5 1/2 | ZF15K4E    | 25510                         | 20800  | 18650  | 16630  | 14490  | 13070  | 10230  |
| 6     | ZF18K4E    | 29940                         | 24400  | 21850  | 19460  | 17250  | 15250  | 11900  |

Since product improvement is a continuing effort,  
we reserve the right to change specifications without notice.



**A Brand of Heatcraft Refrigeration Products LLC**

2175 West Park Place Blvd. • Stone Mountain, GA 30087  
770.465.5600 • Fax: 770.465.5990  
[www.heatcraft-rpd.com](http://www.heatcraft-rpd.com)

