



FC-1/OHP-9

# First Co. Certificate of Product Ratings

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**First Co. Certified Reference Number: F106882**

**Print Date: 8/7/2017**

**Outdoor Unit Manufacturer: CARRIER**

**Outdoor Unit Model Number: 25HCE436C\*030\***

**First Co. Indoor Model Number: 37HXX**

**Cooling Capacity (MBTUH): 34.0**

**EER (Cooling) 12.00**

**SEER (Cooling): 14.00**

**Heating Capacity (MBTUH): 34.8**

**HSPF (Heating): 8.2**

**First Co. certifies that the capacity and SEER values shown are calculated using the methodology in Section 430.23(M) of 10CFR Part 430. The calculation procedure utilizes test data collected in accordance with ANSI/AHRI 210/240-2008.**

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## **DOE Requirement**

Effective July 5, 2011, the U.S. Department of Energy (DOE) issued a Final Rule (10 CFR Parts 429-431) that expands the existing certification, compliance, and enforcement requirements for all covered products, including Residential and Commercial HVAC products. As part of the Final Rule, all efficiency information for covered products must be on file with DOE. All First Co. ratings have been submitted to DOE.

## **Certification Verification**

The above rating information can be verified on either of the following web sites:

First Co.: [ratings.firstco.com](http://ratings.firstco.com)

DOE: [www.regulations.doe.gov/certification-data](http://www.regulations.doe.gov/certification-data)

**Void Date: 07/01/2018**



FC-2/OHP-10

# First Co. Certificate of Product Ratings

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**First Co. Certified Reference Number: F106728**

**Print Date: 8/7/2017**

**Outdoor Unit Manufacturer: CARRIER**

**Outdoor Unit Model Number: 25HBC524A\*030\***

**First Co. Indoor Model Number: 25HXX**

**Cooling Capacity (MBTUH): 23.4**

**EER (Cooling) 11.20**

**SEER (Cooling): 14.00**

**Heating Capacity (MBTUH): 24.0**

**HSPF (Heating): 8.2**

**First Co. certifies that the capacity and SEER values shown are calculated using the methodology in Section 430.23(M) of 10CFR Part 430. The calculation procedure utilizes test data collected in accordance with ANSI/AHRI 210/240-2008.**

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**Void Date: 07/01/2018**

NEW MODEL  
ADDED (28HXX)

FC-1 AND 2



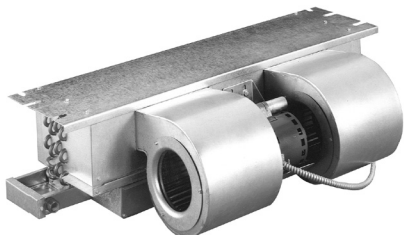
## HXX(-C) Series

Horizontal Recessed

Ceiling Fan Coil

1.5 - 3.0 Tons **Cooling or Heat Pump**

0 - 10 kW **Electric Heat**



**HXX Fan Coil**



**Optional Access Panel**  
(non-louvered shown)  
(see P. 3 for information)

These recessed ceiling fan coils are designed for use with today's higher efficiency split-system condensing units and heat pumps. High efficiency ECM type motors are standard in all **HXX** series fan coils.

The base **HXX** fan coil is an open blower type (non-enclosed) fan coil. It is also available with either a field or factory installed enclosure, with both options including your choice of either a louvered or solid ceiling panel. For **HXX** fan coils factory installed within an enclosure, add "-C" after the kW in the model number. For instance, ordering model **19HXX5-C R410 TXV**, will include an **19HXX5 R410 TXV** fan coil factory installed in a number **9EHX01** enclosure and your choice of either a solid or louvered panel (see "Enclosures with Ceiling Panels" on P. 3). A "cap kit" is also available when the **HXX** is installed above a ceiling, rather than recessed (see P. 4).

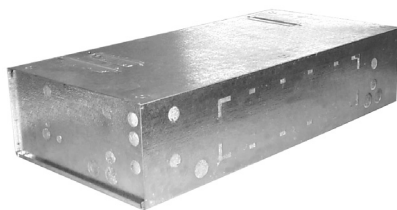
**Compatible outdoor units: First Co's customer is ultimately responsible for confirming which fan coil models are compatible with selected outdoor units. To determine certified indoor/outdoor matches, go to [www.firstco.com](http://www.firstco.com) or contact the factory.**

### Standard Features:

- High efficiency ECM motor
- Drain pan has 3/4" NPT primary and secondary (overflow) fittings
- 240V motor, 24V control
- Factory installed electric heat (up to 10 kW) (except 0 kW models)
- Highly efficient copper tube/aluminum fin cooling coil with factory installed R-410A TXV (non-bleed type)
- Insulated and coated galvanized steel drain pan, sloped for positive drainage
- Effective January 2016, Cabinet air leakage is no more than 2% when tested in accordance with ASHRAE 193.

### Optional Features:

- Attractive off-white return air / access panel with captive screws. They can be used with either the non-enclosed **HXX** or the **HXX** with a field or factory installed enclosure.
- **IAQ filter panels** (see P. 3)
- Field installed enclosure. All enclosures are fully insulated and include cutouts for optional ducted return air. Ducted return air option requires remote filter-grille. Heat pump kit - required for all **HXX** models having electric heat (**#942-1**). (P. 2)
- Condensate overflow switch (**# SS3**) (field installed)
- Enclosure "Cap Kit" - for above the ceiling installation (P. 4)



**Optional Insulated Enclosure**  
(see P. 3 for information)

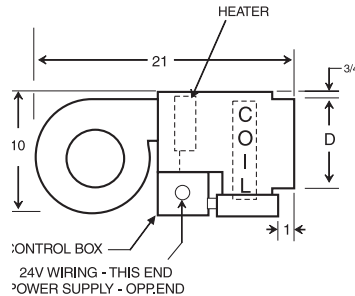


**Matching Access Panel for Enclosure**  
(non-louvered shown)  
(see P. 3 for information)

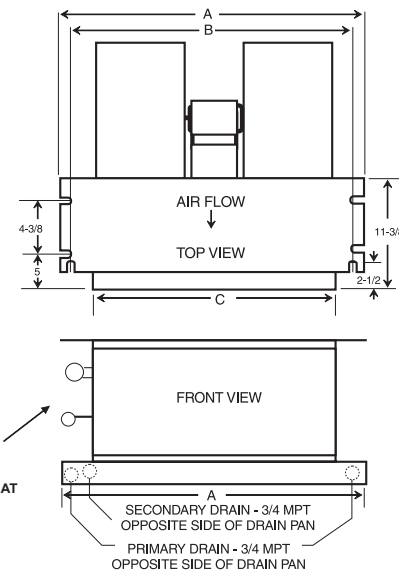
# HXX(-C) Series

## 1.5 through 3.0 tons

Approved for installation with  
0" clearance to combustible  
materials



(See P. 4 for Model Numbers)



| PERFORMANCE DATA        |          |                |          |        |            |      |                    |      |          |      |
|-------------------------|----------|----------------|----------|--------|------------|------|--------------------|------|----------|------|
| UNIT MODEL              | NOM. CFM | NOM. COOL BTUH | HEAT (1) |        | TOTAL AMPS |      | MIN. CIR. AMPACITY |      | MAX FUSE |      |
|                         |          |                | kW       | BTUH   | 208V       | 240V | 208V               | 240V | 208V     | 240V |
| 19HXX<br>20HXX          | 600      | 18,000         | ---      | ---    | 4.3        | 4.3  | ---                | ---  | ---      | ---  |
|                         |          |                | 3        | 10,200 | 15.2       | 16.8 | 19                 | 21   | 20       | 25   |
|                         |          |                | 5        | 17,000 | 22.4       | 25.2 | 28                 | 32   | 30       | 35   |
|                         |          |                | 6        | 20,500 | 26.0       | 29.3 | 33                 | 37   | 35       | 40   |
|                         |          |                | 8        | 27,300 | 33.2       | 37.7 | 42                 | 47   | 50       | 50   |
|                         |          |                | 10       | 34,100 | 40.4       | 46.0 | 51                 | 58   | 60       | 60   |
| 25HXX<br>26HXX<br>28HXX | 800      | 24,000         | ---      | ---    | 4.3        | 4.3  | ---                | ---  | ---      | ---  |
|                         |          |                | 3        | 10,200 | 15.2       | 16.8 | 19                 | 21   | 20       | 25   |
|                         |          |                | 5        | 17,000 | 22.4       | 25.2 | 28                 | 32   | 30       | 35   |
|                         |          |                | 6        | 20,500 | 26.0       | 29.3 | 33                 | 37   | 35       | 40   |
|                         |          |                | 8        | 27,300 | 33.2       | 37.7 | 42                 | 47   | 50       | 50   |
|                         |          |                | 10       | 34,100 | 40.4       | 46.0 | 51                 | 58   | 60       | 60   |
| 31HXX<br>32HXX          | 1000     | 30,000         | ---      | ---    | 4.3        | 4.3  | ---                | ---  | ---      | ---  |
|                         |          |                | 3        | 10,200 | 15.2       | 16.8 | 19                 | 21   | 20       | 25   |
|                         |          |                | 5        | 17,000 | 22.4       | 25.2 | 28                 | 32   | 30       | 35   |
|                         |          |                | 6        | 20,500 | 26.0       | 29.3 | 33                 | 37   | 35       | 40   |
|                         |          |                | 8        | 27,300 | 33.2       | 37.7 | 42                 | 47   | 50       | 50   |
|                         |          |                | 10       | 34,100 | 40.4       | 46.0 | 51                 | 58   | 60       | 60   |
| 37HXX                   | 1200     | 36,000         | ---      | ---    | 4.3        | 4.3  | ---                | ---  | ---      | ---  |
|                         |          |                | 3        | 10,200 | 15.2       | 16.8 | 19                 | 21   | 20       | 25   |
|                         |          |                | 5        | 17,000 | 22.4       | 25.2 | 28                 | 32   | 30       | 35   |
|                         |          |                | 6        | 20,500 | 26.0       | 29.3 | 33                 | 37   | 35       | 40   |
|                         |          |                | 8        | 27,300 | 33.2       | 37.7 | 42                 | 47   | 50       | 50   |
|                         |          |                | 10       | 34,100 | 40.4       | 46.0 | 51                 | 58   | 60       | 60   |

| PHYSICAL DIMENSIONS |        |          |    |       |
|---------------------|--------|----------|----|-------|
| MODEL               | A      | B        | C  | D     |
| 19HXX               | 37-1/4 | 34-11/16 | 30 | 6-1/2 |
| 20,25HXX            | 43-1/4 | 40-11/16 | 36 | 6-1/2 |
| 26,31HXX            | 49-1/4 | 46-11/16 | 42 | 6-1/2 |
| 28,32,37HXX         | 56-1/4 | 53-11/16 | 49 | 6-1/2 |

| HEAT PUMP KIT (FIELD INSTALLED) |                                       |
|---------------------------------|---------------------------------------|
| PART NO.                        | DESCRIPTION                           |
| 942-1                           | KIT FOR HXX MODELS WITH ELECTRIC HEAT |

**Note:** Heat pump kit must be field installed for all HXX models with electric heat. 0 kW models do not require kit. **Contact the factory for compatibility match with condensing unit.**

- (1) All BTUH heating ratings at 240V - derate heating capacities by 25% for 208V
- (2) Maximum fuse or HACR-type circuit breaker.

| BLOWER DATA    |                       |               |              |              |                                  |      |      |      |      |      |      |      |      |
|----------------|-----------------------|---------------|--------------|--------------|----------------------------------|------|------|------|------|------|------|------|------|
| UNIT<br>MODEL  | MOTOR<br>HP<br>(240V) | SPEED<br>TAP  | MOTOR<br>BHP | NOM.<br>AMPS | CFM vs. EXTERNAL STATIC PRESSURE |      |      |      |      |      |      |      |      |
|                |                       |               |              |              | 0.00                             | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 |
| 19HXX          | 1/2                   | OPTIONAL HIGH | .16          | 1.2          | 800                              | 765  | 730  | 695  | 660  | 620  | 580  | 535  | 490  |
|                |                       | STD. HIGH     | .10          | .08          | 660                              | 630  | 600  | 575  | 550  | 525  | 500  | ---  | ---  |
|                |                       | STD. LOW      | .08          | .07          | 590                              | 555  | 520  | 495  | 470  | 445  | 420  | ---  | ---  |
| 20HXX          | 1/2                   | OPTIONAL HIGH | .16          | 1.2          | 800                              | 765  | 730  | 695  | 660  | 620  | 580  | 535  | 490  |
|                |                       | STD. HIGH     | .10          | 0.8          | 650                              | 625  | 600  | 575  | 550  | 525  | 500  | ---  | ---  |
|                |                       | STD. LOW      | .08          | 0.7          | 590                              | 560  | 530  | 505  | 480  | 455  | 430  | ---  | ---  |
| 25HXX<br>28HXX | 1/2                   | OPTIONAL HIGH | .30          | 2.1          | 970                              | 950  | 930  | 910  | 890  | 870  | 850  | 825  | 800  |
|                |                       | STD. HIGH     | .20          | 1.5          | 810                              | 790  | 770  | 745  | 720  | 705  | 690  | ---  | ---  |
|                |                       | STD. LOW      | .16          | 1.0          | 720                              | 690  | 660  | 645  | 630  | 615  | 600  | ---  | ---  |
| 26HXX          | 1/2                   | OPTIONAL HIGH | .30          | 2.1          | 1010                             | 980  | 950  | 925  | 900  | 880  | 860  | 840  | 820  |
|                |                       | STD. HIGH     | .20          | 1.5          | 840                              | 810  | 780  | 760  | 740  | 720  | 700  | ---  | ---  |
|                |                       | STD. LOW      | .16          | 1.0          | 750                              | 715  | 680  | 655  | 630  | 615  | 600  | ---  | ---  |
| 31HXX          | 1/2                   | OPTIONAL HIGH | .43          | 3.3          | 1230                             | 1195 | 1160 | 1140 | 1120 | 1090 | 1060 | 995  | 930  |
|                |                       | STD. HIGH     | .32          | 2.2          | 1060                             | 1015 | 970  | 945  | 920  | 875  | 830  | ---  | ---  |
|                |                       | STD. LOW      | .24          | 1.5          | 920                              | 885  | 850  | 810  | 770  | 735  | 700  | ---  | ---  |
| 32HXX          | 1/2                   | OPTIONAL HIGH | .43          | 3.3          | 1280                             | 1245 | 1210 | 1180 | 1150 | 1115 | 1080 | 1025 | 970  |
|                |                       | STD. HIGH     | .32          | 2.2          | 1090                             | 1050 | 1010 | 985  | 960  | 930  | 900  | ---  | ---  |
|                |                       | STD. LOW      | .24          | 1.5          | 950                              | 920  | 890  | 855  | 820  | 790  | 760  | ---  | ---  |
| 37HXX          | 1/2                   | OPTIONAL HIGH | .51          | 4.0          | 1430                             | 1400 | 1370 | 1355 | 1320 | 1295 | 1270 | 1220 | 1170 |
|                |                       | STD. HIGH     | .43          | 3.3          | 1260                             | 1225 | 1190 | 1160 | 1130 | 1115 | 1100 | ---  | ---  |
|                |                       | STD. LOW      | .32          | 2.2          | 1110                             | 1080 | 1050 | 1025 | 1000 | 970  | 940  | ---  | ---  |

- (1) Add .05 static when enclosure is used.



In keeping with its policy of continuous progress and product improvement, First Co. reserves the right to make changes without notice. Maintenance for all First Co. products is available under "Product Maintenance" at [www.firstco.com](http://www.firstco.com).

## Ceiling Access Panels - (For HXX's installed without enclosure)

| CEILING ACCESS PANELS |                  |                 |              |                       |        |                             |        |
|-----------------------|------------------|-----------------|--------------|-----------------------|--------|-----------------------------|--------|
| FOR MODEL             | PANEL NO. (STD.) | PANEL NO. (IAQ) | DESCRIPTION  | CEILING PANEL OPENING |        | PANEL FRAME DIMS. (OUTSIDE) |        |
| 19HXX                 | 965              | 965-M8          | LOUVERED     | 24-1/2                | 40     | 27-1/2                      | 43     |
|                       | 965-1            | NA              | NON-LOUVERED | 24-1/2                | 40     | 27-1/2                      | 43     |
| 20, 25HXX             | 966              | 966-M8          | LOUVERED     | 24-1/2                | 46     | 27-1/2                      | 49     |
|                       | 966-1            | NA              | NON-LOUVERED | 24-1/2                | 46     | 27-1/2                      | 49     |
| 26, 31HXX             | 967              | 967-M8          | LOUVERED     | 24-1/2                | 52-1/2 | 27-1/2                      | 55-1/2 |
|                       | 967-1            | NA              | NON-LOUVERED | 24-1/2                | 52-1/2 | 27-1/2                      | 55-1/2 |
| 28, 32, 37HXX         | 967-6            | 967-6-M8        | LOUVERED     | 24-1/2                | 60     | 27-1/2                      | 63     |
|                       | 967-7            | NA              | NON-LOUVERED | 24-1/2                | 60     | 27-1/2                      | 63     |

### STANDARD PANELS



# 965-1, 966-1,  
967-1, 967-7



# 965, 966, 967, 967-6  
(Louvers may differ from picture)  
Louvered panels accept 20x20x1" filter  
(field supplied)

### IAQ PANELS



# 965-M8 (accepts 1-20x30x1 filter)  
# 966-M8, 967-M8 (accepts 2-20x20x1 filter)  
# 967-6-M8 (accepts 2-20x25x1 filter)  
(GlasFloss® Industries Series  
HV filter or equivalent is recommended)

## Enclosures with Ceiling Panels

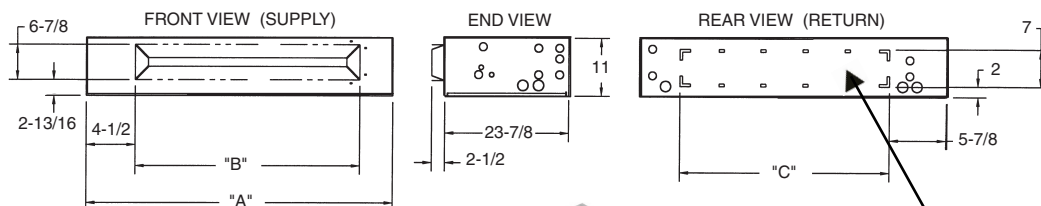
(Enclosures and panels are standard with ALL "-C" models or  
can be ordered separately for "HXX" models)

| CEILING PANEL / ENCLOSURE INFORMATION |               |                      |        |        |                   |                 |                 |                       |        |                            |        |
|---------------------------------------|---------------|----------------------|--------|--------|-------------------|-----------------|-----------------|-----------------------|--------|----------------------------|--------|
| FOR MODEL                             | ENCLOSURE NO. | ENCLOSURE DIMENSIONS |        |        | PAN-EL NO. (STD.) | PANEL NO. (IAQ) | DESCRIPTION (2) | CEILING PANEL OPENING |        | PANEL FRAME DIMS (OUTSIDE) |        |
|                                       |               | H                    | W      | D      |                   |                 |                 | W                     | L      | W                          | L      |
| 19HXX                                 | 9EHX01        | 11                   | 39-3/4 | 23-7/8 | 965               | 965-M8          | LOUVERED        | 24-1/2                | 40     | 27-1/2                     | 43     |
|                                       |               |                      |        |        | 965-1             | NA              | NON-LOUVERED    | 24-1/2                | 40     | 27-1/2                     | 43     |
| 20, 25HXX                             | 9EHX02        | 11                   | 45-3/4 | 23-7/8 | 966               | 966-M8          | LOUVERED        | 24-1/2                | 46     | 27-1/2                     | 49     |
|                                       |               |                      |        |        | 966-1             | NA              | NON-LOUVERED    | 24-1/2                | 46     | 27-1/2                     | 49     |
| 26, 31HXX                             | 9EHX03        | 11                   | 51-3/4 | 23-7/8 | 967               | 967-M8          | LOUVERED        | 24-1/2                | 52-1/2 | 27-1/2                     | 55-1/2 |
|                                       |               |                      |        |        | 967-1             | NA              | NON-LOUVERED    | 24-1/2                | 52-1/2 | 27-1/2                     | 55-1/2 |
| 28, 32, 37HXX                         | 9EHX04        | 11                   | 58-3/4 | 23-7/8 | 967-6             | 967-6-M8        | LOUVERED        | 24-1/2                | 60     | 27-1/2                     | 63     |
|                                       |               |                      |        |        | 967-7             | NA              | NON-LOUVERED    | 24-1/2                | 60     | 27-1/2                     | 63     |

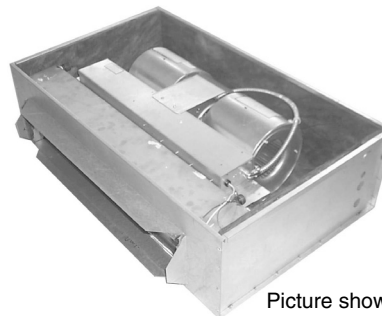
(See Panel Pictures Above)

### NOTES:

(1) Louvered is the "default" style and automatically shipped unless non-louvered is specified on order.



| ENCLOSURE DIMENSIONS |               |        |        |        |
|----------------------|---------------|--------|--------|--------|
| FOR MODEL            | ENCLOSURE NO. | A      | B      | C      |
| 19HXX                | 9EHX01        | 39-3/4 | 30-5/8 | 28     |
| 20, 25HXX            | 9EHX02        | 45-3/4 | 36-5/8 | 34     |
| 26, 31HXX            | 9EHX03        | 51-3/4 | 42-5/8 | 40     |
| 28, 32, 37HXX        | 9EHX04        | 58-3/4 | 50     | 46-3/4 |



**KNOCKOUT FOR  
DUCTED RETURN**  
(Requires remote filter  
grille - field supplied)  
(Ducted return requires  
non-louvered panel)

Picture shown is enclosure with installed HXX  
(Available from the factory as a complete unit)

# HXX(-C) Series

1.5 through 3.0 tons

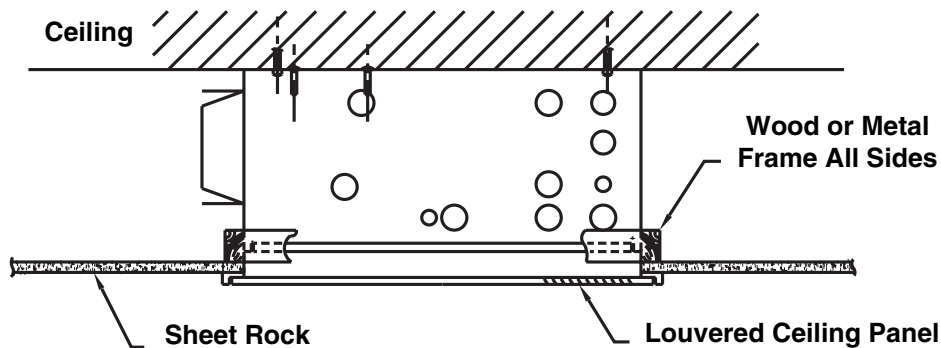
## MODEL NUMBERS:

| MODEL SIZE (BTU) | UNCASED (NO ENCLOSURE)                 | FACTORY INSTALLED ENCLOSURE            |
|------------------|----------------------------------------|----------------------------------------|
|                  | (ALL WITH FACTORY INSTALLED R410A TXV) | (ALL WITH FACTORY INSTALLED R410A TXV) |
| MODEL SIZE (BTU) | MODEL                                  | MODEL                                  |
| 18,000           | 19HXX(*) R410 TXV                      | 19HXX(*)-C R410 TXV                    |
| 18,000           | 20HXX(*) R410 TXV                      | 20HXX(*)-C R410 TXV                    |
| 24,000           | 25HXX(*) R410 TXV                      | 25HXX(*)-C R410 TXV                    |
| 24,000           | 26HXX(*) R410 TXV                      | 26HXX(*)-C R410 TXV                    |
| 24,000           | 28HXX(*) R410 TXV                      | 28HXX(*)-C R410 TXV                    |
| 30,000           | 31HXX(*) R410 TXV                      | 31HXX(*)-C R410 TXV                    |
| 30,000           | 32HXX(*) R410 TXV                      | 32HXX(*)-C R410 TXV                    |
| 36,000           | 37HXX(*) R410 TXV                      | 37HXX(*)-C R410 TXV                    |

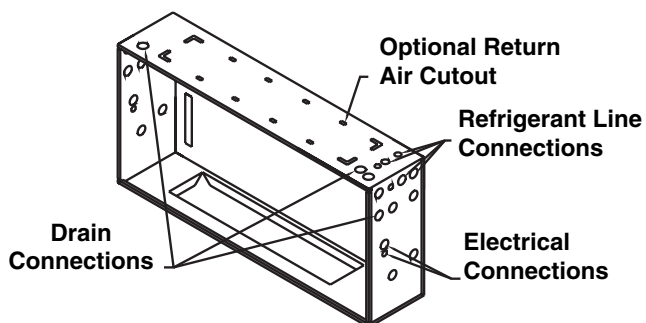
All TXVs are approved for cooling only or heat pump operation (non-bleed type).

(\*) = kW HEAT

## ENCLOSURE INSTALLATION SUPPORT FRAMING



## ENCLOSURE CONNECTION LOCATIONS



### CAP KIT - FOR INSTALLATION ABOVE A SUSPENDED CEILING

| PART NO. | FITS ENCLOSURE NO. | FOR UNIT MODEL  |
|----------|--------------------|-----------------|
| 9PHX01   | 9EHX01             | 19HXX-C         |
| 9PHX02   | 9EHX02             | 20, 25HXX-C     |
| 9PHX03   | 9EHX03             | 26, 31HXX-C     |
| 9PHX04   | 9EHX04             | 28, 32, 37HXX-C |

### NOTES:

1. Cap kit is an insulated panel that covers the entire bottom opening of the enclosure (requires ducted return)
2. Cap kit would be used in lieu of the ceiling panel

**25HCE4  
Comfort™ 14 Heat Pump  
with Puron® Refrigerant  
1–1/2 to 5 Nominal Tons**



## Product Data

OHP-1



**Comfort**  
S E R I E S

Carrier heat pumps with Puron® refrigerant provide a collection of features unmatched by any other family of equipment. The 25HCE4 has been designed utilizing Carrier's non-ozone depleting Puron® refrigerant.

**NOTE: Ratings contained in this document are subject to change at any time. Always refer to the AHRI directory ([www.ahridirectory.org](http://www.ahridirectory.org)) for the most up-to-date ratings information.**

### INDUSTRY LEADING FEATURES / BENEFITS

#### Efficiency

- 14 SEER / 11.0 - 11.7 EER / 8.2 HSPF
- Microtube Technology™ refrigeration system
- Indoor air quality accessories available

#### Sound

- Sound level as low as 69 dBA
- Sound levels as low as 68 dBA with accessory sound blanket

#### Comfort

- System supports CōR™, Edge® or standard thermostat controls

#### Reliability

- Non-ozone depleting Puron® refrigerant
- Scroll compressor
- Internal pressure relief valve
- Internal thermal overload
- High pressure switch
- Loss of charge switch
- Filter drier
- Balanced refrigeration system for maximum reliability

#### Durability

WeatherArmor™ protection package:

- Solid, durable sheet metal construction
- Dense wire coil guard
- Baked-on powder paint

#### Applications

- Long-line - up to 250 feet (76.20 m) total equivalent length, up to 200 feet (60.96 m) condenser above evaporator, or up to 80 ft. (24.38 m) evaporator above condenser (See Longline Guide for more information.)
- Low ambient (down to -20°F/-28.9°C) with accessory kit

## MODEL NUMBER NOMENCLATURE

|                |                |           |              |           |                  |                   |               |               |                                       |              |    |    |
|----------------|----------------|-----------|--------------|-----------|------------------|-------------------|---------------|---------------|---------------------------------------|--------------|----|----|
| 1              | 2              | 3         | 4            | 5         | 6                | 7                 | 8             | 9             | 10                                    | 11           | 12 | 13 |
| N              | N              | A         | A            | A/N       | N                | N                 | N             | A/N           | A/N                                   | A/N          | N  | N  |
| 2              | 5              | H         | C            | E         | 4                | 3                 | 6             | A             | 0                                     | 0            | 3  | 0  |
| Product Series | Product Family | Tier      | Major Series | SEER      | Cooling Capacity | Grille Variations | Open          | Open          | Voltage                               | Minor Series |    |    |
| 25 = HP        | H = RES HP     | C=Comfort | E = Puron    | 4=14 SEER |                  | A=Dense Grille    | 0=Not Defined | 0=Not Defined | 3=208/230/1<br>5=208/230/3<br>6=460/3 | 0, 1, 2...   |    |    |



Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program. For verification of certification for individual products, go to [www.ahridirectory.org](http://www.ahridirectory.org).



## STANDARD FEATURES

| Feature                         | 18 | 24 | 30 | 36 | 42 | 48 | 60 |
|---------------------------------|----|----|----|----|----|----|----|
| Puron Refrigerant               | X  | X  | X  | X  | X  | X  | X  |
| Scroll Compressor               | X  | X  | X  | X  | X  | X  | X  |
| Field Installed Filter Drier    | X  | X  | X  | X  | X  | X  | X  |
| Front Seating Service Valves    | X  | X  | X  | X  | X  | X  | X  |
| Internal Pressure Relief Valve  | X  | X  | X  | X  | X  | X  | X  |
| Internal Thermal Overload       | X  | X  | X  | X  | X  | X  | X  |
| Long Line capability            | X  | X  | X  | X  | X  | X  | X  |
| Low Ambient capability with Kit | X  | X  | X  | X  | X  | X  | X  |
| Suction Line Accumulator        | X  | X  | X  | X  | X  | X  | X  |
| High Pressure Switch            | X  | X  | X  | X  | X  | X  | X  |
| Loss of Charge Switch           | X  | X  | X  | X  | X  | X  | X  |

X = Standard

## PHYSICAL DATA

OHP-9

| UNIT SIZE SERIES            | 18-30                                         | 24-30      | 30-30      | 36-31, 51, 61 | 42-30       | 48-30, 50, 60 | 60-30        | 60-50, 60    |
|-----------------------------|-----------------------------------------------|------------|------------|---------------|-------------|---------------|--------------|--------------|
| Compressor Type             | Scroll                                        |            |            |               |             |               |              |              |
| REFRIGERANT                 | Puron® R-410A                                 |            |            |               |             |               |              |              |
| Control                     | TXV (Puron Hard Shutoff)                      |            |            |               |             |               |              |              |
| Outdoor Heating Piston #    | 42                                            | 46         | 49         | 57            | 61          | 65            | 73           | 78           |
| Charge lb (kg)              | 5.30 (2.4)                                    | 5.60 (2.5) | 6.40 (2.9) | 7.67 (3.48)   | 8.25 (3.74) | 8.68 (3.94)   | 10.60 (4.81) | 10.60 (4.81) |
| COND FAN                    | Forward Swept or Propeller Type, Direct Drive |            |            |               |             |               |              |              |
| Air Discharge               | Vertical                                      |            |            |               |             |               |              |              |
| Motor HP                    | 1/12                                          | 1/10       | 1/4        | 1/5           | 1/4         | 1/4           | 1/4          | 1/4          |
| Motor RPM                   | 1100                                          | 1100       | 1100       | 1100          | 1100        | 1100          | 800          | 800          |
| CFM                         | 1700                                          | 2195       | 3365       | 3165          | 3800        | 3365          | 4470         | 4470         |
| VALVE CONNECT. (In. ID)     |                                               |            |            |               |             |               |              |              |
| Vapor                       | 5/8                                           | 5/8        | 3/4        | 3/4           | 7/8         | 7/8           | 7/8          | 7/8          |
| Liquid                      | 3/8                                           |            |            |               |             |               |              |              |
| REFRIGERANT TUBES* (In. OD) |                                               |            |            |               |             |               |              |              |
| Rated Vapor                 | 5/8                                           | 5/8        | 3/4        | 3/4           | 7/8         | 7/8           | 1-1/8        | 1-1/8        |
| Max Liquid Line             | 3/8                                           |            |            |               |             |               |              |              |

\*Units are rated with 25 ft (7.6 m) of lineset length. See Vapor Line Sizing and Cooling Capacity Loss table when using other sizes and lengths of lineset.

**Note:** See unit Installation Instruction for proper installation.

## VAPOR LINE SIZING AND COOLING CAPACITY LOSS

Acceptable vapor line diameters provide adequate oil return to the compressor while avoiding excessive capacity loss. The suction line diameters shown in the chart below are acceptable for HP systems with Puron refrigerant:

Vapor Line Sizing and Cooling Capacity Losses - Puron® Refrigerant 1- Stage Heat Pump Applications

| Unit Nominal Size (Btuh)  | Acceptable Vapor Line Diameters (In. OD) | Cooling Capacity Loss (%)<br>Total Equivalent Line Length (ft) |           |           |                                            |             |             |             |             |             |             |             |
|---------------------------|------------------------------------------|----------------------------------------------------------------|-----------|-----------|--------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                           |                                          | Standard Application                                           |           |           | Long Line Application Requires Accessories |             |             |             |             |             |             |             |
|                           |                                          | 25 (7.62)                                                      | 50 (15.2) | 80 (24.4) | 80+ (24.4+)                                | 100 (30.48) | 125 (38.10) | 150 (45.72) | 175 (53.34) | 200 (60.96) | 225 (68.58) | 250 (76.20) |
| 18000<br>1-Stage HP       | 1/2                                      | 1                                                              | 2         | 3         | 3                                          | 4           | 6           | 7           | 8           | 9           | 10          | 12          |
|                           | 5/8                                      | 0                                                              | 0         | 1         | 1                                          | 1           | 1           | 2           | 2           | 3           | 3           | 3           |
| 24000<br>1-Stage HP       | 5/8                                      | 0                                                              | 1         | 1         | 1                                          | 2           | 3           | 3           | 4           | 4           | 5           | 6           |
|                           | 3/4                                      | 0                                                              | 0         | 0         | 0                                          | 0           | 1           | 1           | 1           | 1           | 1           | 2           |
| 30000<br>1-Stage HP       | 5/8                                      | 1                                                              | 2         | 3         | 3                                          | 3           | 4           | 5           | 6           | 7           | 8           | 9           |
|                           | 3/4                                      | 0                                                              | 0         | 1         | 1                                          | 1           | 1           | 2           | 2           | 2           | 3           | 3           |
|                           | 7/8                                      | 0                                                              | 0         | 0         | 0                                          | 0           | 1           | 1           | 1           | 1           | 1           | 1           |
| 36000<br>1-Stage HP       | 5/8                                      | 1                                                              | 2         | 4         | 4                                          | 5           | 6           | 7           | 9           | 10          | 11          | 13          |
|                           | 3/4                                      | 0                                                              | 0         | 1         | 1                                          | 1           | 2           | 2           | 3           | 3           | 4           | 4           |
|                           | 7/8                                      | 0                                                              | 0         | 0         | 0                                          | 0           | 1           | 1           | 1           | 1           | 2           | 2           |
| 42000<br>1-Stage HP       | 3/4                                      | 0                                                              | 1         | 2         | 2                                          | 2           | 3           | 4           | 4           | 5           | 6           | 6           |
|                           | 7/8                                      | 0                                                              | 0         | 1         | 1                                          | 1           | 1           | 2           | 2           | 2           | 3           | 3           |
| 48000<br>1-Stage HP       | 3/4                                      | 0                                                              | 1         | 2         | 2                                          | 3           | 4           | 5           | 5           | 6           | 7           | 8           |
|                           | 7/8                                      | 0                                                              | 0         | 1         | 1                                          | 1           | 2           | 2           | 2           | 3           | 3           | 4           |
| 60000<br>1-Stage Puron HP | 3/4                                      | 1                                                              | 2         | 4         | 4                                          | 5           | 6           | 7           | 9           | 10          | 11          | 12          |
|                           | 7/8                                      | 0                                                              | 1         | 2         | 2                                          | 2           | 3           | 4           | 4           | 5           | 5           | 6           |
|                           | 1 1/8                                    | 0                                                              | 0         | 0         | 0                                          | 1           | 1           | 1           | 1           | 1           | 1           | 2           |

Standard Length = 80 ft. (24.4 m) or less total equivalent length

Applications in this area are long line. Accessories are required as shown recommended on Long Line Application Guidelines

Applications in this area may have height restrictions that limit allowable total equivalent length, when outdoor unit is below indoor unit. See Long Line Application Guidelines

## ELECTRICAL DATA

| UNIT SIZE | V/PH      | OPER VOLTS* |     | COMPR |       | FAN  | MCA  | MAX FUSE** or CKT BRK AMPS |
|-----------|-----------|-------------|-----|-------|-------|------|------|----------------------------|
|           |           | MAX         | MIN | LRA   | RLA   | FLA  |      |                            |
| 18 – 30   | 208/230/1 | 253         | 197 | 48.0  | 9.00  | 0.50 | 11.8 | 20                         |
| 24 – 30   |           |             |     | 62.9  | 10.90 | 0.60 | 14.2 | 25                         |
| 30 – 30   |           |             |     | 72.5  | 13.50 | 1.40 | 18.3 | 30                         |
| 36 – 31   |           |             |     | 75.0  | 15.10 | 1.10 | 20.0 | 30                         |
| 42 – 30   | 208/230/3 | 253         | 187 | 105.5 | 18.10 | 1.40 | 24.0 | 40                         |
| 48 – 30   |           |             |     | 108.0 | 19.00 | 1.40 | 25.2 | 40                         |
| 60 – 30   |           |             |     | 144.2 | 24.40 | 1.52 | 32.0 | 50                         |
| 36 – 51   |           |             |     | 70.0  | 8.46  | 1.10 | 11.7 | 20                         |
| 48 – 50   | 460–3     | 506         | 414 | 123.0 | 10.44 | 1.40 | 14.5 | 25                         |
| 60 – 50   |           |             |     | 110.0 | 15.96 | 1.52 | 21.5 | 30                         |
| 36 – 61   |           |             |     | 31.0  | 3.85  | 0.60 | 5.4  | 15                         |
| 48 – 60   |           |             |     | 60.0  | 6.00  | 0.77 | 8.3  | 15                         |
| 60 – 60   |           |             |     | 52.0  | 7.75  | 0.77 | 10.5 | 15                         |

\* Permissible limits of the voltage range at which the unit will operate satisfactorily

\*\* Time-Delay fuse.

FLA – Full Load Amps

LRA – Locked Rotor Amps

MCA – Minimum Circuit Amps

RLA – Rated Load Amps

NOTE: Control circuit is 24–V on all units and requires external power source. Copper wire must be used from service disconnect to unit.

All motors/compressors contain internal overload protection.

Complies with 2007 requirements of ASHRAE Standards 90.1

## A-WEIGHTED SOUND POWER

| UNIT SIZE     | STANDARD RATING (dBA) | TYPICAL OCTAVE BAND SPECTRUM (dBA, without tone adjustment) |     |     |      |      |      |      |
|---------------|-----------------------|-------------------------------------------------------------|-----|-----|------|------|------|------|
|               |                       | 125                                                         | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 18–30         | 69                    | 45                                                          | 48  | 56  | 62   | 55   | 53   | 47   |
| 24–30         | 76                    | 46                                                          | 56  | 59  | 63   | 63   | 60   | 55   |
| 30–30         | 77                    | 52                                                          | 62  | 67  | 68   | 65   | 62   | 55   |
| 36–31, 51, 61 | 77                    | 51                                                          | 62  | 66  | 69   | 64   | 61   | 53   |
| 42–30         | 76                    | 49                                                          | 61  | 63  | 65   | 62   | 60   | 52   |
| 48–30, 50, 60 | 79                    | 53                                                          | 66  | 69  | 71   | 67   | 64   | 57   |
| 60–30         | 73                    | 50                                                          | 63  | 62  | 63   | 60   | 58   | 52   |
| 60–50, 60     | 76                    | 52                                                          | 62  | 63  | 66   | 65   | 59   | 57   |

NOTE: Tested in accordance with AHRI Standard 270–08 (not listed in AHRI).

## A-WEIGHTED SOUND POWER WITH SOUND HOOD

| UNIT SIZE     | STANDARD RATING | TYPICAL OCTAVE BAND SPECTRUM (dBA, without tone adjustment) |     |     |      |      |      |      |
|---------------|-----------------|-------------------------------------------------------------|-----|-----|------|------|------|------|
|               |                 | 125                                                         | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 18–30         | 68              | 47                                                          | 48  | 56  | 61   | 55   | 52   | 46   |
| 24–30         | 74              | 47                                                          | 57  | 59  | 62   | 61   | 58   | 51   |
| 30–30         | 77              | 52                                                          | 62  | 67  | 67   | 65   | 62   | 54   |
| 36–31, 51, 61 | 76              | 52                                                          | 62  | 66  | 67   | 64   | 60   | 52   |
| 42–30         | 74              | 50                                                          | 61  | 63  | 64   | 61   | 58   | 49   |
| 48–30, 50, 60 | 79              | 54                                                          | 66  | 69  | 70   | 67   | 64   | 56   |
| 60–30         | 73              | 51                                                          | 64  | 62  | 63   | 59   | 56   | 49   |
| 60–50, 60     | 76              | 52                                                          | 62  | 63  | 66   | 65   | 59   | 57   |

NOTE: Tested in accordance with AHRI Standard 270–08 (not listed in AHRI).

## CHARGING SUBCOOLING (TXV-TYPE EXPANSION DEVICE)

| UNIT SIZE – SERIES | REQUIRED SUBCOOLING °F (°C) |
|--------------------|-----------------------------|
| 18–30              | 11 (6.1)                    |
| 24–30              | 11 (6.1)                    |
| 30–30              | 10 (5.6)                    |
| 36–31              | 10 (5.6)                    |
| 36–51, 61          | 11 (6.1)                    |
| 42–30              | 10 (5.6)                    |
| 48–30, 50, 60      | 14 (7.8)                    |
| 60–30, 50, 60      | 15 (8.3)                    |

## HP ONLY REPLACEMENT WITH PISTON INDOORS

When the 25HCE4 is used as a replacement component in a system with a piston fan coil, use the indoor piston size specified below:

| UNIT SIZE | PISTON SIZE |       |       |
|-----------|-------------|-------|-------|
|           | FB4CNF      | FFM   | FPMA  |
| 18        | 0.052       | 0.050 | 0.050 |
| 24        | 0.057       | 0.057 | 0.056 |
| 30        | 0.067       | 0.070 | 0.067 |
| 36        | 0.070       | 0.072 | 0.069 |
| 42        | 0.078       |       |       |
| 48        | 0.084       |       |       |
| 60        |             |       |       |

= N/A

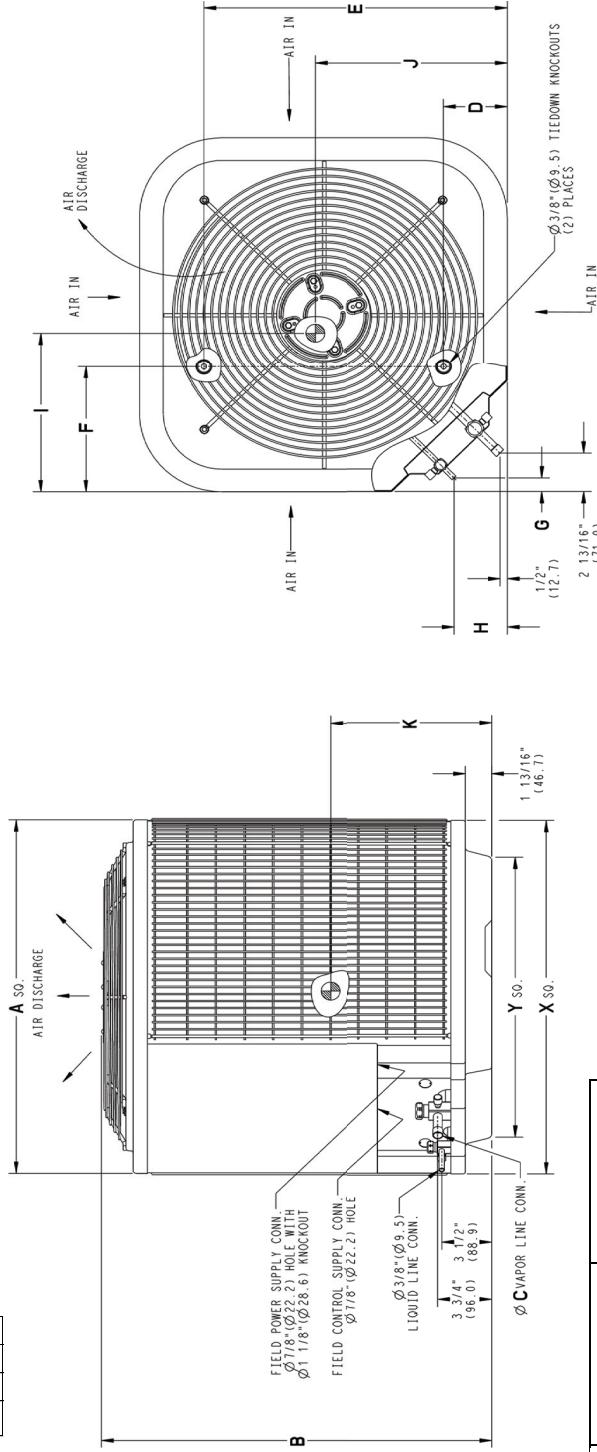
# DIMENSIONS

| UNIT              | SERIES | ELECTRICAL CHARACTERISTICS |   |   |   | A       |       | B        |       | C    |      | D      |       | E        |       | F       |       | G     |      | H       |      | I      |       | J      |       | K      |        | OPERATING WEIGHT |      | SHIPPING LENGTH / WIDTH (Sq.) |       | SHIPPING HEIGHT |       |         |        |
|-------------------|--------|----------------------------|---|---|---|---------|-------|----------|-------|------|------|--------|-------|----------|-------|---------|-------|-------|------|---------|------|--------|-------|--------|-------|--------|--------|------------------|------|-------------------------------|-------|-----------------|-------|---------|--------|
|                   |        |                            |   |   |   | INCH    | MM    | INCH     | MM    | INCH | MM   | INCH   | MM    | INCH     | MM    | INCH    | MM    | INCH  | MM   | INCH    | MM   | INCH   | MM    | INCH   | MM    | INCH   | MM     | Lbs              | Kgs  | Lbs                           | Kgs   | INCH            | MM    | INCH    | MM     |
| 25HCE418A0030011  | 0      | Y                          | N | N | N | 23 1/8  | 587.3 | 35 1/2   | 902.0 | 5/8  | 15.9 | 4 7/16 | 113.0 | 18 1/16  | 459.0 | 7 13/16 | 197.9 | 1 7/8 | 28.2 | 3 13/16 | 97.4 | 25 1/4 | 641.4 | 25 1/4 | 641.4 | 40     | 1016.0 | 136              | 61.7 | 166                           | 75.3  | 25 1/4          | 641.5 | 40      | 1015.8 |
| 25HCE424A0030011  | 0      | Y                          | N | N | N | 25 3/4  | 654.0 | 35 1/2   | 901.4 | 5/8  | 15.9 | 4 7/16 | 113.0 | 21 1/4   | 539.9 | 9 1/8   | 231.3 | 1 1/8 | 28.2 | 3 13/16 | 97.4 | 27 7/8 | 708.0 | 27 7/8 | 708.0 | 40     | 1016.0 | 144              | 65.3 | 175                           | 79.4  | 27 7/8          | 708.2 | 40      | 1015.8 |
| 25HCE430A0030011  | 0      | Y                          | N | N | N | 31 3/16 | 792.5 | 32 1/16  | 815.1 | 3/4  | 19.1 | 6 9/16 | 166.1 | 24 11/16 | 626.3 | 9 1/8   | 231.3 | 1 1/8 | 28.2 | 3 13/16 | 97.4 | 33 3/8 | 847.7 | 33 3/8 | 847.7 | 36 5/8 | 930.3  | 158              | 71.7 | 180                           | 81.6  | 33 5/16         | 846.6 | 36 5/8  | 929.5  |
| 25HCE436A00301011 | 1      | Y                          | N | N | N | 31 3/16 | 792.5 | 28 11/16 | 728.7 | 3/4  | 19.1 | 6 9/16 | 166.1 | 24 11/16 | 626.3 | 9 1/8   | 231.3 | 1 1/8 | 28.2 | 3 13/16 | 97.4 | 33 3/8 | 847.7 | 33 3/8 | 847.7 | 33 1/4 | 844.6  | 170              | 77.1 | 201                           | 91.2  | 33 5/16         | 846.6 | 33 3/16 | 843.1  |
| 25HCE436A00501011 | 1      | N                          | Y | N | N | 31 3/16 | 792.5 | 28 11/16 | 728.7 | 3/4  | 19.1 | 6 9/16 | 166.1 | 24 11/16 | 626.3 | 9 1/8   | 231.3 | 1 1/8 | 28.2 | 3 13/16 | 97.4 | 33 3/8 | 847.7 | 33 3/8 | 847.7 | 33 1/4 | 844.6  | 170              | 77.1 | 201                           | 91.2  | 33 5/16         | 846.6 | 33 3/16 | 843.1  |
| 25HCE436A0061011  | 1      | N                          | N | Y | N | 31 3/16 | 792.5 | 28 11/16 | 728.7 | 3/4  | 19.1 | 6 9/16 | 166.1 | 24 11/16 | 626.3 | 9 1/8   | 231.3 | 1 1/8 | 28.2 | 3 13/16 | 97.4 | 33 3/8 | 847.7 | 33 3/8 | 847.7 | 33 1/4 | 844.6  | 170              | 77.1 | 201                           | 91.2  | 33 5/16         | 846.6 | 33 3/16 | 843.1  |
| 25HCE442A0030011  | 0      | Y                          | N | N | N | 31 3/16 | 792.5 | 38 7/8   | 987.8 | 7/8  | 22.2 | 6 9/16 | 166.1 | 24 11/16 | 626.3 | 9 1/8   | 231.3 | 1 1/8 | 28.2 | 3 13/16 | 97.4 | 33 3/8 | 847.7 | 33 3/8 | 847.7 | 43 1/2 | 1104.9 | 201              | 91.2 | 235                           | 106.6 | 33 5/16         | 846.6 | 43 3/8  | 1102.2 |
| 25HCE448A0030011  | 0      | Y                          | N | N | N | 31 3/16 | 792.5 | 28 11/16 | 728.7 | 7/8  | 22.2 | 6 9/16 | 166.1 | 24 11/16 | 626.3 | 9 1/8   | 231.3 | 1 1/8 | 28.2 | 3 13/16 | 97.4 | 33 3/8 | 847.7 | 33 3/8 | 847.7 | 33 1/4 | 844.6  | 197              | 89.4 | 232                           | 105.2 | 33 5/16         | 846.6 | 33 3/16 | 843.1  |
| 25HCE448A0050011  | 0      | N                          | Y | N | N | 31 3/16 | 792.5 | 28 11/16 | 728.7 | 7/8  | 22.2 | 6 9/16 | 166.1 | 24 11/16 | 626.3 | 9 1/8   | 231.3 | 1 1/8 | 28.2 | 3 13/16 | 97.4 | 33 3/8 | 847.7 | 33 3/8 | 847.7 | 33 1/4 | 844.6  | 197              | 89.4 | 232                           | 105.2 | 33 5/16         | 846.6 | 33 3/16 | 843.1  |
| 25HCE448A0060011  | 0      | N                          | N | Y | N | 31 3/16 | 792.5 | 28 11/16 | 728.7 | 7/8  | 22.2 | 6 9/16 | 166.1 | 24 11/16 | 626.3 | 9 1/8   | 231.3 | 1 1/8 | 28.2 | 3 13/16 | 97.4 | 33 3/8 | 847.7 | 33 3/8 | 847.7 | 33 1/4 | 844.6  | 197              | 89.4 | 232                           | 105.2 | 33 5/16         | 846.6 | 33 3/16 | 843.1  |
| 25HCE460A0030011  | 0      | Y                          | N | N | N | 31 3/16 | 792.5 | 32 1/16  | 815.1 | 7/8  | 22.2 | 6 9/16 | 166.1 | 24 11/16 | 626.3 | 9 1/8   | 231.3 | 1 1/8 | 28.2 | 3 13/16 | 97.4 | 33 3/8 | 847.7 | 33 3/8 | 847.7 | 36 5/8 | 930.3  | 212              | 96.2 | 248                           | 112.5 | 33 5/16         | 846.6 | 36 5/8  | 929.5  |
| 25HCE460A0050011  | 0      | N                          | Y | N | N | 31 3/16 | 792.5 | 32 1/16  | 815.1 | 7/8  | 22.2 | 6 9/16 | 166.1 | 24 11/16 | 626.3 | 9 1/8   | 231.3 | 1 1/8 | 28.2 | 3 13/16 | 97.4 | 33 3/8 | 847.7 | 33 3/8 | 847.7 | 36 5/8 | 930.3  | 212              | 96.2 | 248                           | 112.5 | 33 5/16         | 846.6 | 36 5/8  | 929.5  |
| 25HCE460A0060011  | 0      | N                          | N | Y | N | 31 3/16 | 792.5 | 32 1/16  | 815.1 | 7/8  | 22.2 | 6 9/16 | 166.1 | 24 11/16 | 626.3 | 9 1/8   | 231.3 | 1 1/8 | 28.2 | 3 13/16 | 97.4 | 33 3/8 | 847.7 | 33 3/8 | 847.7 | 36 5/8 | 930.3  | 212              | 96.2 | 248                           | 112.5 | 33 5/16         | 846.6 | 36 5/8  | 929.5  |

Y=YES

N=NO

|              |              |          |          |
|--------------|--------------|----------|----------|
| 208-230-1-60 | 208/230-3-60 | 460-3-60 | 575-3-60 |
|--------------|--------------|----------|----------|



| UNIT SIZE      | "X"                                                |                                                      | "Y"      |       |
|----------------|----------------------------------------------------|------------------------------------------------------|----------|-------|
|                | MINIMUM GROUND MOUNTING PAD APPLICATION DIMENSIONS | MINIMUM ROOF-TOP MOUNTING PAD APPLICATION DIMENSIONS |          |       |
| 18             | 23 1/8                                             | 587.3                                                | 17 7/8   | 454.6 |
| 24             | 25 3/4                                             | 654.0                                                | 20 7/16  | 518.5 |
| 30,36,42,48,60 | 31 3/16                                            | 792.5                                                | 22 15/16 | 583.2 |
| -              | 35                                                 | 889.0                                                | 26 3/4   | 679.7 |

NOTE: ALL DIMENSIONS IN INCH (MM)

U.S. ECCN: Not Subject to Regulation (N.S.R.)

## TESTED AHRI COMBINATION RATINGS

**NOTE:** Ratings contained in this document are subject to change at any time.

For AHRI ratings certificates, please refer to the AHRI directory [www.ahridirectory.org](http://www.ahridirectory.org)

Additional ratings and system combinations can be accessed via the Carrier database at: [www.MyCarrierRatings.com](http://www.MyCarrierRatings.com)

For performance data at specific application &/or design conditions with various indoor unit combinations, the equipment performance calculator can be accessed at : <http://rpmob.wrightsoft.com/>

| Model Number          | Indoor Coil Model Number | Cooling Capacity | EER  | SEER | High Temp  |       | HSPF | Low Temp   |       |
|-----------------------|--------------------------|------------------|------|------|------------|-------|------|------------|-------|
|                       |                          |                  |      |      | E Capacity | E COP |      | H Capacity | H COP |
| 25HCE418A**30         | FB4CNP018L               | 17,800           | 11.7 | 14   | 17,600     | 3.72  | 8.2  | 10,400     | 2.40  |
| 25HCE424A**30         | FB4CNP030L               | 22,200           | 11.5 | 14   | 22,200     | 3.84  | 8.2  | 13,200     | 2.54  |
| 25HCE430A**30         | FB4CNP030L               | 28,600           | 11.7 | 14   | 28,600     | 3.62  | 8.2  | 17,100     | 2.44  |
| 25HCE436A**31         | FB4CNP036L               | 33,000           | 11.7 | 14   | 33,800     | 3.62  | 8.2  | 21,000     | 2.40  |
| 25HCE436A**51, 61     | FB4CNP036L               | 33,000           | 11.0 | 14   | 33,000     | 3.64  | 8.2  | 20,800     | 2.46  |
| 25HCE442A**30         | FB4CNP042L               | 40,000           | 11.5 | 14   | 41,000     | 3.62  | 8.2  | 25,200     | 2.50  |
| 25HCE448A**30, 50, 60 | FB4CNP048L               | 46,000           | 11.7 | 14   | 45,500     | 3.64  | 8.2  | 27,800     | 2.56  |
| 25HCE460A**30, 50, 60 | FX4DN(B,F)061L           | 57,000           | 11.7 | 14   | 54,500     | 3.70  | 8.2  | 33,000     | 2.56  |

**Cooling Standard:** 80°F (27°C) db 67°F (19°C) wb indoor entering air temperature and 95°F (35°C) db air entering outdoor unit.

**High – Temp Heating Standard:** 70°F (21°C) db indoor entering air temperature and 47°F (8°C) db 43°F (6°C) wb air entering outdoor unit.

**Low – Temp Heating Standard:** 70°F (21°C) db indoor entering air temperature and 17°F (–8°C) db 15°F (–9°C) wb air entering outdoor unit.

**COP** — Coefficient of Performance

**EER** — Energy Efficiency Ratio

**HSPF** — Heating Seasonal Performance Factor

**SEER** — Seasonal Energy Efficiency Ratio

**25HBC5  
Comfort™ 15 Heat Pump  
with Puron® Refrigerant  
1–1/2 to 5 Nominal Tons**



## Product Data

OHP-10



Carrier heat pumps with Puron® refrigerant provide a collection of features unmatched by any other family of equipment. The 25HBC has been designed utilizing Carrier's Puron refrigerant. The environmentally sound refrigerant allows consumers to make a responsible decision in the protection of the earth's ozone layer.

This product has been designed and manufactured to meet Energy Star® criteria for energy efficiency when matched with appropriate coil components. Refer to the combination ratings in the Product Data for system combinations that meet Energy Star® guidelines.

**NOTE: Ratings contained in this document are subject to change at any time. Always refer to the AHRI directory ([www.ahridirectory.org](http://www.ahridirectory.org)) for the most up-to-date ratings information.**

### INDUSTRY LEADING FEATURES / BENEFITS

#### Efficiency

- 15 SEER/ 12.5 EER / 8.0 – 9.0 HSPF
- Microtube Technology™ refrigeration system
- Indoor air quality accessories available

#### Sound

- Sound level as low as 69 dBA
- Sound levels as low as 68 dBA with accessory sound blanket

#### Comfort

- System supports Edge® Thermostat™ or standard thermostat controls

#### Reliability

- Puron® refrigerant – environmentally sound, won't deplete the ozone layer and low lifetime service cost.
- Scroll compressor
- Internal pressure relief valve
- Internal thermal overload
- High pressure switch
- Loss of charge switch
- Filter drier
- Balanced refrigeration system for maximum reliability

#### Durability

WeatherArmor Ultra™ protection package:

- Solid, durable sheet metal construction
- Dense wire coil guard standard
- Baked-on powder paint

#### Applications

- Long-line – up to 250 feet (76.20 m) total equivalent length, up to 200 feet (60.96 m) condenser above evaporator, or up to 80 ft. (24.38 m) evaporator above condenser (See Longline Guide for more information.)
- Low ambient cooling (down to -20°F/-28.9°C) with accessory kit

## MODEL NUMBER NOMENCLATURE

|                |                |           |              |           |                  |                   |               |               |             |              |    |    |
|----------------|----------------|-----------|--------------|-----------|------------------|-------------------|---------------|---------------|-------------|--------------|----|----|
| 1              | 2              | 3         | 4            | 5         | 6                | 7                 | 8             | 9             | 10          | 11           | 12 | 13 |
| N              | N              | A         | A            | A/N       | N                | N                 | N             | A/N           | A/N         | A/N          | N  | N  |
| 2              | 5              | H         | B            | C         | 5                | 3                 | 6             | A             | 0           | 0            | 3  | 0  |
| Product Series | Product Family | Tier      | Major Series | SEER      | Cooling Capacity | Grille Variations | Open          | Open          | Voltage     | Minor Series |    |    |
| 25 = HP        | H = RES HP     | B=Comfort | C = Puron    | 5=15 SEER |                  | A = Dense         | 0=Not Defined | 0=Not Defined | 3=208/230-1 | 0, 1, 2...   |    |    |



Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program For verification of certification for individual products, go to [www.ahridirectory.org](http://www.ahridirectory.org).



ISO 9001  
QMI-SAI Global



This product has been designed and manufactured to meet Energy Star® criteria for energy efficiency when matched with appropriate coil components. However, proper refrigerant charge and proper air flow are critical to achieve rated capacity and efficiency. Installation of this product should follow all manufacturing refrigerant charging and air flow instructions. **Failure to confirm proper charge and air flow may reduce energy efficiency and shorten equipment life.**

25HBC5

## STANDARD FEATURES

| Feature                                 | 18   | 24   | 30   | 36   | 42   | 48   | 60   |
|-----------------------------------------|------|------|------|------|------|------|------|
| Puron Refrigerant                       | X    | X    | X    | X    | X    | X    | X    |
| Maximum SEER Rating*                    | 15.3 | 15.3 | 15.3 | 15.3 | 15.0 | 15.0 | 15.0 |
| Scroll Compressor                       | X    | X    | X    | X    | X    | X    | X    |
| Field Installed Filter Drier            | X    | X    | X    | X    | X    | X    | X    |
| Front Seating Service Valves            | X    | X    | X    | X    | X    | X    | X    |
| Internal Pressure Relief Valve          | X    | X    | X    | X    | X    | X    | X    |
| Internal Thermal Overload               | X    | X    | X    | X    | X    | X    | X    |
| Long Line capability                    | X    | X    | X    | X    | X    | X    | X    |
| Low Ambient cooling capability with Kit | X    | X    | X    | X    | X    | X    | X    |
| Suction Line Accumulator                | X    | X    | X    | X    | X    | X    | X    |
| High Pressure Switch                    | X    | X    | X    | X    | X    | X    | X    |
| Loss of Charge Switch                   | X    | X    | X    | X    | X    | X    | X    |
| Dense Grille                            | X    | X    | X    | X    | X    | X    | X    |

X = Standard

\* = Based on tested combination

## PHYSICAL DATA

| UNIT SIZE SERIES           | 18-30                        | 24-30       | 30-30       | 36-30       | 42-30       | 48-30       | 60-30        |
|----------------------------|------------------------------|-------------|-------------|-------------|-------------|-------------|--------------|
| Operating Weight lb (kg)   | 169 (76.7)                   | 200 (90.8)  | 196 (88.9)  | 215 (97.5)  | 245 (111.1) | 260 (117.9) | 294 (113.4)  |
| Shipping Weight lb (kg)    | 207 (93.9)                   | 233 (105.7) | 242 (109.8) | 257 (116.6) | 290 (131.5) | 303 (137.4) | 345 (156.5)  |
| Compressor Type            | Scroll                       |             |             |             |             |             |              |
| REFRIGERANT                | Puron® (R-410A)              |             |             |             |             |             |              |
| Control                    | TXV (Puron Hard Shutoff)     |             |             |             |             |             |              |
| Charge lb (kg)             | 5.6 (2.54)                   | 7.60 (3.45) | 7.00 (3.18) | 7.40 (3.34) | 8.90 (4.04) | 9.60 (4.35) | 12.50 (5.67) |
| Outdoor Heating Piston #   | 42                           | 46          | 52          | 61          | 61          | 67          | 76           |
| COND FAN                   | Propeller Type, Direct Drive |             |             |             |             |             |              |
| Air Discharge              | Vertical                     |             |             |             |             |             |              |
| Air Qty (CFM)              | 2233                         | 3223        | 3223        | 3810        | 3810        | 4046        | 4046         |
| Motor HP                   | 1/12                         | 1/12        | 1/12        | 1/5         | 1/5         | 1/4         | 1/4          |
| Motor RPM                  | 800                          | 800         | 800         | 800         | 800         | 800         | 800          |
| COND COIL                  |                              |             |             |             |             |             |              |
| Face Area (Sq ft)          | 15.09                        | 20.12       | 20.12       | 22.63       | 17.60       | 17.60       | 25.15        |
| Fins per In.               | 20                           | 20          | 20          | 20          | 20          | 20          | 20           |
| Rows                       | 1                            | 1           | 1           | 1           | 2           | 2           | 2            |
| Circuits                   | 4                            | 5           | 5           | 6           | 7           | 7           | 9            |
| VALVE CONNECT. (In. ID)    |                              |             |             |             |             |             |              |
| Vapor                      | 5/8                          | 5/8         | 3/4         | 3/4         | 7/8         | 7/8         | 7/8          |
| Liquid                     | 3/8"                         |             |             |             |             |             |              |
| REFRIGERANT TUBES (In. OD) |                              |             |             |             |             |             |              |
| Rated Vapor*               | 5/8                          | 5/8         | 3/4         | 3/4         | 7/8         | 7/8         | 1 1/8        |
| Liquid                     | 3/8                          |             |             |             |             |             |              |

\*Units are rated with 25 ft (7.6 m) of lineset length. See Vapor Line Sizing and Cooling Capacity Loss table when using other sizes and lengths of lineset.

**Note:** See unit Installation Instruction for proper installation.

25HBC5

## VAPOR LINE SIZING AND COOLING CAPACITY LOSS

Acceptable vapor line diameters provide adequate oil return to the compressor while avoiding excessive capacity loss. The suction line diameters shown in the chart below are acceptable for HP systems with Puron refrigerant:

Vapor Line Sizing and Cooling Capacity Losses - Puron® Refrigerant 1- Stage Heat Pump Applications

| Unit<br>Nominal<br>Size (Btuh)        | Maximum<br>Liquid Line<br>Diameters<br>(In. OD) | Vapor Line<br>Diameters<br>(In.) OD | Cooling Capacity Loss (%)<br>Total Equivalent Line Length ft. (m) |                      |                                            |                        |                        |                        |                        |                        |                        |
|---------------------------------------|-------------------------------------------------|-------------------------------------|-------------------------------------------------------------------|----------------------|--------------------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
|                                       |                                                 |                                     | Standard<br>Application                                           |                      | Long Line Application Requires Accessories |                        |                        |                        |                        |                        |                        |
|                                       |                                                 |                                     | 26-50<br>(7.9-15.2)                                               | 51-80<br>(15.5-24.4) | 81-100<br>(24.7-30.5)                      | 101-125<br>(30.8-38.1) | 126-150<br>(38.4-45.7) | 151-175<br>(46.0-50.3) | 176-200<br>(53.6-60.0) | 201-225<br>(61.3-68.6) | 226-250<br>(68.9-76.2) |
| 18,000<br>1-Stage<br>HP with<br>Puron | 3/8                                             | 1/2                                 | 1                                                                 | 2                    | 3                                          | 4                      | 6                      | 7                      | 8                      | 9                      | 10                     |
|                                       |                                                 | 5/8                                 | 0                                                                 | 0                    | 1                                          | 1                      | 1                      | 2                      | 2                      | 3                      | 3                      |
| 24,000<br>1-Stage<br>HP with<br>Puron | 3/8                                             | 5/8                                 | 0                                                                 | 1                    | 1                                          | 2                      | 3                      | 3                      | 4                      | 4                      | 5                      |
|                                       |                                                 | 3/4                                 | 0                                                                 | 0                    | 0                                          | 0                      | 1                      | 1                      | 1                      | 1                      | 1                      |
| 30,000<br>1-Stage<br>HP with<br>Puron | 3/8                                             | 5/8                                 | 1                                                                 | 2                    | 3                                          | 3                      | 4                      | 5                      | 6                      | 7                      | 8                      |
|                                       |                                                 | 3/4                                 | 0                                                                 | 0                    | 1                                          | 1                      | 1                      | 2                      | 2                      | 2                      | 3                      |
|                                       |                                                 | 7/8                                 | 0                                                                 | 0                    | 0                                          | 0                      | 1                      | 1                      | 1                      | 1                      | 1                      |
| 36,000<br>1-Stage<br>HP with<br>Puron | 3/8                                             | 5/8                                 | 1                                                                 | 2                    | 4                                          | 5                      | 6                      | 7                      | 9                      | 10                     | 11                     |
|                                       |                                                 | 3/4                                 | 0                                                                 | 0                    | 1                                          | 1                      | 2                      | 2                      | 3                      | 3                      | 4                      |
|                                       |                                                 | 7/8                                 | 0                                                                 | 0                    | 0                                          | 0                      | 1                      | 1                      | 1                      | 1                      | 2                      |
| 42,000<br>1-Stage<br>HP with<br>Puron | 3/8                                             | 3/4                                 | 0                                                                 | 1                    | 2                                          | 2                      | 3                      | 4                      | 4                      | 5                      | 6                      |
|                                       |                                                 | 7/8                                 | 0                                                                 | 0                    | 1                                          | 1                      | 1                      | 2                      | 2                      | 2                      | 3                      |
| 48,000<br>1-Stage<br>HP with<br>Puron | 3/8                                             | 3/4                                 | 0                                                                 | 1                    | 2                                          | 3                      | 4                      | 5                      | 5                      | 6                      | 7                      |
|                                       |                                                 | 7/8                                 | 0                                                                 | 0                    | 1                                          | 1                      | 2                      | 2                      | 2                      | 3                      | 3                      |
| 60,000<br>1-Stage<br>HP with<br>Puron | 3/8                                             | 3/4                                 | 1                                                                 | 2                    | 4                                          | 5                      | 6                      | 7                      | 9                      | 10                     | 11                     |
|                                       |                                                 | 7/8                                 | 0                                                                 | 1                    | 2                                          | 2                      | 3                      | 4                      | 4                      | 5                      | 5                      |
|                                       |                                                 | 1-1/8                               | 0                                                                 | 0                    | 0                                          | 1                      | 1                      | 1                      | 1                      | 1                      | 1                      |

Standard Length = 80 ft. (24.4 m) or less total equivalent length

Applications in this area are long line. Accessories are required as shown recommended on Long Line Application Guidelines

Applications in this area may have height restrictions that limit allowable total equivalent length, when outdoor unit is below indoor unit. See Long Line Application Guidelines

## ELECTRICAL DATA

| UNIT SIZE | V/PH      | OPER VOLTS* |     | COMPR |      | FAN | MCA  | MIN WIRE SIZE† |       | MAX LENGTH ft (m)‡ |           | MAX FUSE** or BRK AMPS |
|-----------|-----------|-------------|-----|-------|------|-----|------|----------------|-------|--------------------|-----------|------------------------|
|           |           | MAX         | MIN | LRA   | RLA  | FLA |      | 60° C          | 75° C | 60° C              | 75° C     |                        |
| 18–30     | 208/230/1 | 253         | 197 | 48.0  | 9.0  | 0.5 | 11.8 | 14             | 14    | 67 (20.4)          | 63 (19.2) | 20                     |
| 24–30     |           |             |     | 58.3  | 12.8 | 0.5 | 16.5 | 14             | 14    | 48 (14.6)          | 45 (13.7) | 25                     |
| 30–30     |           |             |     | 73.0  | 14.1 | 0.5 | 18.1 | 14             | 14    | 44 (13.4)          | 41 (12.5) | 30                     |
| 36–30     |           |             |     | 79.0  | 16.7 | 1.2 | 22.1 | 12             | 12    | 57 (17.4)          | 54 (16.5) | 35                     |
| 42–30     |           |             |     | 109.0 | 21.1 | 1.2 | 27.6 | 10             | 10    | 72 (21.9)          | 69 (21.0) | 40                     |
| 48–30     |           |             |     | 117.0 | 21.8 | 1.2 | 28.5 | 10             | 10    | 70 (21.3)          | 67 (20.4) | 40                     |
| 60–30     |           |             |     | 134.0 | 26.4 | 1.2 | 34.2 | 8              | 10    | 91 (27.7)          | 56 (17.1) | 50                     |

\* Permissible limits of the voltage range at which the unit will operate satisfactorily

† If wire is applied at ambient greater than 30°C, consult table 310–16 of the NEC (NFPA 70). The ampacity of non-metallic-sheathed cable (NM), trade name ROMEX, shall be that of 60°C conditions, per the NEC (NFPA 70) Article 336–26. If other than uncoated (no-plated), 60 or 75°C insulation, copper wire (solid wire for 10 AWG or smaller, stranded wire for larger than 10 AWG) is used, consult applicable tables of the NEC (NFPA 70).

‡ Length shown is as measured 1 way along wire path between unit and service panel for voltage drop not to exceed 2%.

\*\* Time–Delay fuse.

FLA – Full Load Amps

LRA – Locked Rotor Amps

MCA – Minimum Circuit Amps

RLA – Rated Load Amps

NOTE: Control circuit is 24–V on all units and requires external power source. Copper wire must be used from service disconnect to unit.

All motors/compressors contain internal overload protection.

Complies with 2007 requirements of ASHRAE Standards 90.1

25HBC5

## A-WEIGHTED SOUND POWER (dBA)

| UNIT SIZE | STANDARD RATING dBA | TYPICAL OCTAVE BAND SPECTRUM (dBA, without tone adjustment) |      |      |      |      |      |      |
|-----------|---------------------|-------------------------------------------------------------|------|------|------|------|------|------|
|           |                     | 125                                                         | 250  | 500  | 1000 | 2000 | 4000 | 8000 |
| 18–30     | 73                  | 49.5                                                        | 60.0 | 65.0 | 69.0 | 65.5 | 62.0 | 55.0 |
| 24–30     | 69                  | 48.5                                                        | 59.5 | 61.5 | 62.5 | 61.0 | 59.0 | 53.5 |
| 30–30     | 71                  | 51.0                                                        | 58.5 | 61.5 | 65.5 | 62.5 | 60.0 | 53.5 |
| 36–30     | 72                  | 55.5                                                        | 59.5 | 63.5 | 66.5 | 64.5 | 61.5 | 55.5 |
| 42–30     | 74                  | 56.5                                                        | 64.0 | 67.0 | 68.5 | 65.0 | 62.0 | 57.5 |
| 48–30     | 74                  | 55.5                                                        | 62.0 | 66.0 | 69.0 | 65.0 | 62.0 | 56.0 |
| 60–30     | 74                  | 59.0                                                        | 62.0 | 65.0 | 68.0 | 65.0 | 62.5 | 62.0 |

NOTE: Tested in accordance with AHRI Standard 270–08 (not listed in AHRI).

## A-WEIGHTED SOUND POWER (dBA) WITH SOUND SHIELD

| UNIT SIZE | STANDARD RATING dBA | TYPICAL OCTAVE BAND SPECTRUM (dBA, without tone adjustment) |      |      |      |      |      |      |
|-----------|---------------------|-------------------------------------------------------------|------|------|------|------|------|------|
|           |                     | 125                                                         | 250  | 500  | 1000 | 2000 | 4000 | 8000 |
| 18–30     | 72                  | 50.5                                                        | 60.0 | 65.0 | 67.5 | 64.5 | 61.5 | 53.5 |
| 24–30     | 68                  | 49.5                                                        | 58.5 | 61.5 | 62.0 | 61.0 | 58.5 | 51.5 |
| 30–30     | 69                  | 50.5                                                        | 58.5 | 61.5 | 64.0 | 61.5 | 58.5 | 51.5 |
| 36–30     | 70                  | 54.5                                                        | 57.5 | 63.0 | 66.0 | 64.0 | 61.0 | 54.0 |
| 42–30     | 72                  | 56.5                                                        | 64.5 | 66.5 | 66.5 | 64.5 | 61.0 | 54.5 |
| 48–30     | 72                  | 55.5                                                        | 62.5 | 66.0 | 68.0 | 64.0 | 60.0 | 53.0 |
| 60–30     | 73                  | 58.5                                                        | 62.5 | 65.0 | 67.0 | 64.0 | 61.0 | 56.5 |

NOTE: Tested in accordance with AHRI Standard 270–08 (not listed in AHRI).

## CHARGING SUBCOOLING (TXV-TYPE EXPANSION DEVICE)

| UNIT SIZE – SERIES | REQUIRED SUBCOOLING °F (°C) |
|--------------------|-----------------------------|
| 18–30              | 12 (6.7)                    |
| 24–30              | 14 (7.8)                    |
| 30–30              | 10 (5.6)                    |
| 36–30              | 8 (4.4)                     |
| 42–30              | 10 (5.6)                    |
| 48–30              | 11 (6.1)                    |
| 60–30              | 10 (5.6)                    |

DIMENSIONS - ENGLISH

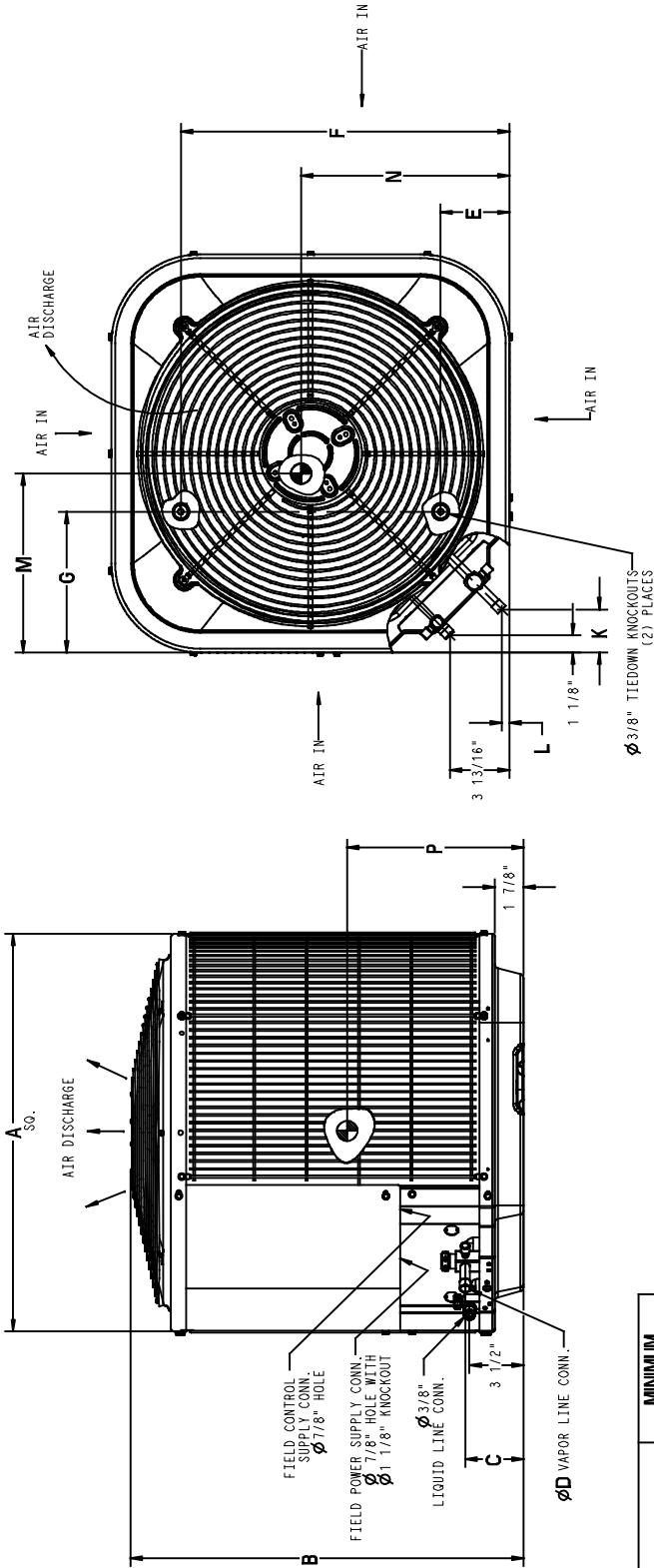
| UNIT     | SERIES | ELECTRICAL CHARACTERISTICS | A | B | C        | D         | E      | F    | G       | K         | L      | M        | N       | P       | OPERATING WEIGHT (lbs) | SHIPPING WEIGHT (lbs) | SHIPPING DIMENSIONS (L x W x H) |                               |
|----------|--------|----------------------------|---|---|----------|-----------|--------|------|---------|-----------|--------|----------|---------|---------|------------------------|-----------------------|---------------------------------|-------------------------------|
| 25HBC518 | 0      | X                          | 0 | 0 | 31 3/16" | 28 15/16" | 3 3/4" | 5/8" | 6 9/16" | 24 11/16" | 9 1/8" | 2 13/16" | 16"     | 15"     | 14"                    | 169                   | 207                             | 32 5/16" X 35 1/2" X 32 9/16" |
| 25HBC524 | 0      | X                          | 0 | 0 | 35"      | 32 5/16"  | 3 3/4" | 5/8" | 6 9/16" | 28 7/16"  | 9 1/8" | 2 13/16" | 15 3/4" | 16 3/4" | 16 1/2"                | 200                   | 233                             | 36 1/8" X 39 1/4" X 35 15/16" |
| 25HBC530 | 0      | X                          | 0 | 0 | 35"      | 32 5/16"  | 3 3/4" | 3/4" | 6 9/16" | 28 7/16"  | 9 1/8" | 2 13/16" | 16 1/4" | 16"     | 15 1/2"                | 196                   | 242                             | 36 1/8" X 39 1/4" X 35 15/16" |
| 25HBC536 | 0      | X                          | 0 | 0 | 35"      | 35 3/4"   | 3 3/4" | 3/4" | 6 9/16" | 28 7/16"  | 9 1/8" | 2 13/16" | 15 3/4" | 16 3/4" | 17"                    | 215                   | 257                             | 36 1/8" X 39 1/4" X 39 3/8"   |
| 25HBC542 | 0      | X                          | 0 | 0 | 35"      | 28 15/16" | 3 7/8" | 7/8" | 6 9/16" | 28 7/16"  | 9 1/8" | 2 15/16" | 17"     | 16 3/4" | 14 3/4"                | 245                   | 290                             | 36 1/8" X 39 1/4" X 32 9/16"  |
| 25HBC548 | 0      | X                          | 0 | 0 | 35"      | 28 15/16" | 3 7/8" | 7/8" | 6 9/16" | 28 7/16"  | 9 1/8" | 2 15/16" | 16 3/4" | 16 1/4" | 14"                    | 260                   | 303                             | 36 1/8" X 39 1/4" X 32 9/16"  |
| 25HBC560 | 0      | X                          | 0 | 0 | 35"      | 39 1/8"   | 3 7/8" | 7/8" | 6 9/16" | 28 7/16"  | 9 1/8" | 2 15/16" | 17 1/4" | 16 1/4" | 18 1/4"                | 294                   | 345                             | 36 1/8" X 39 1/4" X 42 3/4"   |

NOTES:

1. ALLOW 30" CLEARANCE TO SERVICE SIDE OF UNIT.  
48" ABOVE UNIT, 6" ON ONE SIDE, 12" ON REMAINING SIDE,  
AND 24" BETWEEN UNITS FOR PROPER AIRFLOW.
2. MINIMUM OUTDOOR OPERATING AMBIENT IN COOLING  
MODE IS 55°F, MAX. 125°F.
3. SERIES DESIGNATION IS THE 13TH POSITION OF THE  
UNIT MODEL NUMBER.
4. CENTER OF GRAVITY 
5. ALL DIMENSIONS ARE IN "INCHES" UNLESS NOTED.

X = YES  
O = NO

|             |         |             |         |
|-------------|---------|-------------|---------|
| 208-230-160 | 230-160 | 208/230-360 | 460-360 |
|-------------|---------|-------------|---------|



| UNIT SIZE              | MINIMUM MOUNTING PAD DIMENSIONS |
|------------------------|---------------------------------|
| -                      | 26" X 26"                       |
| 18                     | 31 1/2" X 31 1/2"               |
| 24, 30, 36, 42, 48, 60 | 35" X 35"                       |

## TESTED AHRI COMBINATION RATINGS\*

**NOTE:** Ratings contained in this document are subject to change at any time.

For AHRI ratings certificates, please refer to the AHRI directory [www.ahridirectory.org](http://www.ahridirectory.org)

Additional ratings and system combinations can be accessed via the Carrier database at:

[http://cactaxcredits.info/carrier-ratings/ac\\_ratings\\_srch.php](http://cactaxcredits.info/carrier-ratings/ac_ratings_srch.php)

Equipment performance calculator can be accessed at: <http://rpmob.wrightsoft.com/>

| Model Number  | Coil Model Number | Furnace Model Number | Cooling Capacity | EER  | SEER | High Temp  |       | HSPF | Low Temp   |       |
|---------------|-------------------|----------------------|------------------|------|------|------------|-------|------|------------|-------|
|               |                   |                      |                  |      |      | E Capacity | E COP |      | H Capacity | H COP |
| 25HBC518A**30 | FX4DNF019         |                      | 17,800           | 12.6 | 15.3 | 17,800     | 3.92  | 8.6  | 10,700     | 2.60  |
| 25HBC524A**30 | FX4DNF025         |                      | 24,000           | 12.5 | 15.3 | 24,000     | 3.96  | 8.7  | 14,700     | 2.68  |
| 25HBC530A**30 | FX4DN(B,F)031     |                      | 28,800           | 12.5 | 15.3 | 28,600     | 3.98  | 8.7  | 17,000     | 2.66  |
| 25HBC536A**30 | FX4DN(B,F)037     |                      | 34,800           | 12.5 | 15.0 | 35,400     | 3.92  | 8.7  | 21,400     | 2.64  |
| 25HBC542A**30 | FX4DN(B,F)043     |                      | 41,500           | 12.5 | 15.0 | 41,500     | 3.82  | 8.7  | 26,400     | 2.62  |
| 25HBC548A**30 | FX4DN(B,F)049     |                      | 47,500           | 12.5 | 15.0 | 46,500     | 3.84  | 8.5  | 29,000     | 2.66  |
| 25HBC560A**30 | FX4DN(B,F)061     |                      | 57,000           | 12.5 | 15.0 | 57,000     | 3.86  | 8.7  | 35,400     | 2.72  |

\* AHRI = Air Conditioning, Heating & Refrigeration Institute

Ratings are net values reflecting the effects of circulating fan heat. Supplemental electric heat is not included. Ratings are based on:

**Cooling Standard:** 80°F (27°C) db 67°F (19°C) wb indoor entering air temperature and 95°F (35°C) db air entering outdoor unit.

**High-Temp Heating Standard:** 70°F (21°C) db indoor entering air temperature and 47°F (8°C) db 43°F (6°C) wb air entering outdoor unit.

**Low-Temp Heating Standard:** 70°F (21°C) db indoor entering air temperature and 17°F (−8°C) db 15°F (−9°C) wb air entering outdoor unit.

**COP** — Coefficient of Performance

**EER** — Energy Efficiency Ratio

**HSPF** — Heating Seasonal Performance Factor

**SEER** — Seasonal Energy Efficiency Ratio