



2020 - 2021

# ARMSTRONG AIR KIT GUIDE

AND EQUIPMENT SPECIFICATIONS



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Questions? Ask our

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**NOTE: Armstrong Air kits do not come with thermostat or IAQ products.**

# NEW Comfort Sync® A3 Ultra-Smart Thermostat

Seamless Integration. Precise Comfort Control.



## Allergy Sync Technology

Monitors the air quality and pollen levels in the homeowner's local ZIP/postal code and automatically turns the fan on to clean their home's air when outdoor levels are high.



## Voice Activated

Compatible with Amazon Alexa® and Google Assistant†, the thermostat enables homeowners to fine-tune their comfort with a simple voice command.



## Away Sync™

Uses the GPS in the homeowner's smartphone to detect when they're leaving and automatically changes the temperature to be more energy efficient. It also detects when the homeowner is returning, resetting the temperature to its normal set point.



## Remote Capability

Enables homeowners to monitor and control temperatures and settings from anywhere in the world using an innovative app and their compatible smart device.\*\*

## Advanced features deliver a competitive advantage.



## Fast and Efficient Setup

The thermostat identifies equipment and adjusts settings to maximize system performance. If an additional adjustment is needed, you can do that using the dealer app or at the stat itself. So, no more changing jumpers on a circuit board.



## Precise Comfort Control

The Pro Series product family is your premium line of HVAC equipment. It interfaces with the Comfort Sync A3, providing customers with Precise Comfort Control that matches the premium efficiency and performance of the Pro Series equipment.



## Simplify Troubleshooting

The thermostat comes with over 150 easy-to-understand maintenance and service alert messages. You'll receive these email alerts via your compatible mobile device or computer. If a system problem occurs, the thermostat will help to precisely identify what is wrong and where to look.

\*Comfort Sync® A3 is compatible with Armstrong Air HVAC products and requires separate purchase of Amazon Echo or Echo Dot. As of the date of this publication, Amazon Echo devices are not available for purchase in all countries. This reference is intended for use with U.S.-based thermostats only. Amazon, Alexa and all related logos are trademarks of Amazon.com, Inc. or its affiliates.

\*\*Remote capability requires Wi-Fi or cellular data service.

† Google is a trademark of Google LLC.

## Comfort Sync® Zoning

Individual zones means personalized control from room to room.



### What is Zoning?

With Comfort Sync Zoning, you can now enjoy consistent, precise temperatures, along with greater control over your energy usage. Comfort Sync Zoning matches heating and cooling preferences to your family's lifestyle using the Comfort Sync Wi-Fi touchscreen thermostat or in-zone sensors, so every room's temperature can be easily changed on demand or stay right where it's set.

A Comfort Sync Zoning system divides your home into two, three or four different areas, or zones, each controlled by a different family member's heating and cooling needs for every day of the week.

The Comfort Sync Wi-Fi thermostat acts as the master control for each program and small, stylish in-zone sensors allow convenient adjustment in individual areas. The sensors detect major events and subtle changes in the environment and relay the information to the thermostat if additional cooling or heating is needed. For added peace of mind, you can even use your mobile device, tablet or laptop to view and change settings from anywhere.

### Temperature control that's perfectly in sync with your family.

Comfort Sync zoning ensures that every area of your home is perfectly comfortable and energy efficient. So, the kids' upstairs bedrooms are just the way they want them, the downstairs keeps the entire family happy, and the guest room won't waste energy when it's empty.

### Temperature Control

Each zone is under the control of its own individual thermostat, which uses a built-in digital sensor to report temperature changes to the Comfort Sync Wi-Fi thermostat. The Comfort Sync thermostat readjusts airflow to maintain your set temperature in every zone.

### Precision Airflow

The Comfort Sync thermostat adjusts the temperature of a particular zone by signaling a series of dampers installed in your ductwork to open or close. By doing this, the Comfort Sync Zoning system can redirect air to specific areas, while reducing airflow to others.

### Smart Energy Use

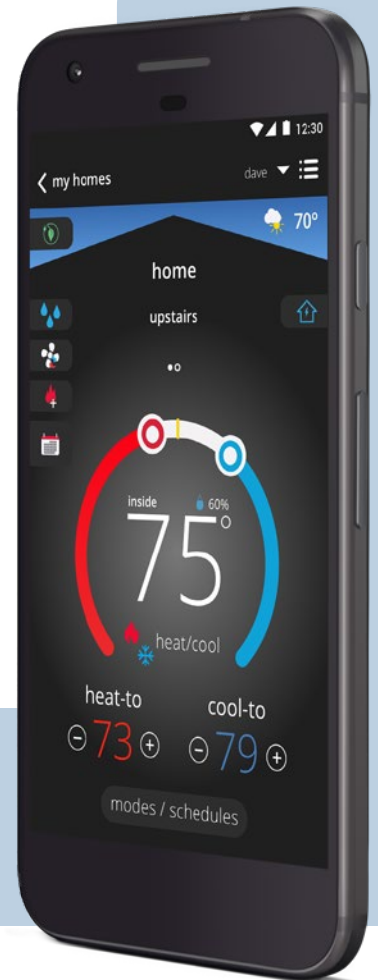
Zoning allows you to match your heating and cooling needs to your life, and may reduce energy wasted by heating and cooling unused areas of your home. Plus, with proper use of pre-programmed settings, a programmable thermostat like Comfort Sync can save you money in energy costs yearly.

| Model    | Product ID | Description                                          |
|----------|------------|------------------------------------------------------|
| 1.841226 | .3497582   | Armstrong-Air Comfort Sync A3 Ultra Smart Thermostat |
| 1.851400 | .3338813   | Comfortsync In-Zone Sensor                           |
| 1.851399 | .3338812   | Comfortsync Zone Panel (up to 4 zones)               |



### NEW Advanced Deal App!

An advanced dealer app makes commissioning quick and easy without leaving the unit. Maintenance alerts can generate potential service calls. And diagnostic information is presented in plain English, making it simple to find a solution.





## 97% MODULATING VARIABLE SPEED ECM GAS FURNACE COMMUNICATING SYSTEM WITH 4SCU20LX CONDENSER\*

| Kit        | ID No.  | Description                                              | Coil Height | SEER |
|------------|---------|----------------------------------------------------------|-------------|------|
| ARMKIT#132 | 3287017 | 66,000 BTUH Input, 2 Ton A/C Kit w/ EAC4X36B Cased Coil  | 24.5"       | 20   |
| ARMKIT#133 | 3287020 | 88,000 BTUH Input, 3 Ton A/C Kit w/ EAC4X48C Cased Coil  | 27.5"       | 20   |
| ARMKIT#168 | 3359728 | 110,000 BTUH Input, 4Ton A/C Kit w/ EAC4X49C Cased Coil  | 29.5"       | 19.5 |
| ARMKIT#169 | 3359730 | 135,000 BTUH Input, 5 Ton A/C Kit w/ EAC4X60D Cased Coil | 29.5"       | 19   |

\*4 Wire Comfort Sync Serial Communicating Complete

**NOTE: Comfort Sync® must be used with all 20 SEER systems.**



## 97% MODULATING VARIABLE SPEED ECM GAS FURNACE COMMUNICATING SYSTEM WITH 4SCU16LS CONDENSER\*

| Kit #      | ID No.  | Description                                              | Coil Height | SEER |
|------------|---------|----------------------------------------------------------|-------------|------|
| ARMKIT#125 | 3287007 | 66,000 BTUH Input, 2 Ton A/C Kit w/ EAC4X24B Cased Coil  | 18.5"       | 16   |
| ARMKIT#126 | 3287008 | 66,000 BTUH Input, 3 Ton A/C Kit w/ EAC4X36B Cased Coil  | 24.5"       | 15.5 |
| ARMKIT#127 | 3287009 | 88,000 BTUH Input, 3 Ton A/C Kit w/ EAC4X49C Cased Coil  | 29.5"       | 16   |
| ARMKIT#128 | 3287010 | 88,000 BTUH Input, 4 Ton A/C Kit w/ EAC4X49C Cased Coil  | 29.5"       | 16   |
| ARMKIT#129 | 3287011 | 110,000 BTUH Input, 4 Ton A/C Kit w/ EAC4X49C Cased Coil | 29.5"       | 16   |
| ARMKIT#130 | 3287013 | 110,000 BTUH Input, 5 Ton A/C Kit w/ EAC4X60C Cased Coil | 31.5"       | 15.5 |
| ARMKIT#131 | 3287015 | 135,000 BTUH Input, 5 Ton A/C Kit w/ EAC4X60D Cased Coil | 29.5"       | 15.5 |

\*4 Wire Comfort Sync Serial Communicating Complete



### Each Kit Includes:

Furnace, Cased Coil, Condensing Unit, TXV (if required), Pad, Whip, Disconnect, Outdoor Sensor (if required), Fuses, Furnace Whip, Furnace Legs, and Free Condensing Unit Cover (stat not included).

**NOTE: Armstrong Air kits do not come with thermostat or IAQ products.**

# GAS FURNACE / AC SYSTEM KITS

## 97% MODULATING VARIABLE SPEED ECM GAS FURNACE WITH 4SCU16LE CONDENSER\*

| Kit        | ID No.   | Description                                       | Coil Height | SEER |
|------------|----------|---------------------------------------------------|-------------|------|
| ARMKIT#116 | .3286939 | 66,000 97% + 2 Ton 4SCU16LE with EAC4X24B Coil    | 18.5"       | 16   |
| ARMKIT#117 | .3286946 | 66,000 97% + 2.5 Ton 4SCU16LE with EAC4X30B Coil  | 22.5"       | 16   |
| ARMKIT#118 | .3286951 | 88,000 97% + 2.5 Ton 4SCU16LE with EAC4X48C Coil  | 27.5"       | 16   |
| ARMKIT#119 | .3286952 | 88,000 97% + 3 Ton 4SCU16LE with EAC4X48C Coil    | 27.5"       | 16   |
| ARMKIT#120 | .3286955 | 88,000 97% + 3.5 Ton 4SCU16LE with EAC4X49C Coil  | 29.5"       | 16   |
| ARMKIT#121 | .3286957 | 110,000 97% + 3.5 Ton 4SCU16LE with EAC4X49C Coil | 29.5"       | 16   |
| ARMKIT#122 | .3286964 | 110,000 97% + 4 Ton 4SCU16LE with EAC4X49C Coil   | 29.5"       | 14.5 |
| ARMKIT#123 | .3286966 | 110,000 97% + 5 Ton 4SCU16LE with EAC4X60C Coil   | 31.5"       | 14.5 |
| ARMKIT#124 | .3286968 | 132,000 97% + 5 Ton 4SCU16LE with EAC4X60D Coil   | 29.5"       | 14.5 |

## 97% MODULATING VARIABLE SPEED ECM GAS FURNACE WITH 4SCU13LE CONDENSER\*

| Kit        | ID No.   | Description                                         | Coil Height | **SEER |
|------------|----------|-----------------------------------------------------|-------------|--------|
| ARMKIT#107 | .3286771 | 66,000 97% + 2 Ton 4SCU13LE with EAC1P24B Coil      | 18.5"       | 15.1   |
| ARMKIT#108 | .3286926 | 66,000 97% + 2.5 Ton 4SCU13LE with EAC1P30B Coil    | 22.5"       | 15     |
| ARMKIT#109 | .3286927 | 88,000 97% + 2.5 Ton 4SCU13LE with EAC4X30/36C Coil | 24.5"       | 15     |
| ARMKIT#110 | .3286932 | 88,000 97% + 3 Ton 4SCU13LE with EAC1P48C Coil      | 27.5"       | 14     |
| ARMKIT#111 | .3286934 | 88,000 97% + 3.5 Ton 4SCU13LE with EAC1P48C Coil    | 27.5"       | 14     |
| ARMKIT#112 | .3286935 | 110,000 97% + 3.5 Ton 4SCU13LE with EAC1P48C Coil   | 27.5"       | 14     |
| ARMKIT#113 | .3286936 | 110,000 97% + 4 Ton 4SCU13LE with EAC1P49C Coil     | 29.5"       | 14     |
| ARMKIT#114 | .3286937 | 110,000 97% + 5 Ton 4SCU14LE with EAC1P60C Coil     | 31.5"       | 13     |
| ARMKIT#115 | .3286938 | 132,000 97% + 5 Ton 4SCU13LE with EAC1P60D Coil     | 29.5"       | 13     |



\*Outdoor unit is not serial communicating  
\*\*SEER rating when adding accessory TXV kit

### Each Kit Includes:

Furnace, Cased Coil, Condensing Unit, TXV (if required), Pad, Whip, Disconnect, Outdoor Sensor (if required), Fuses, Furnace Whip, Furnace Legs, and Free Condensing Unit Cover (stat not included).

**NOTE: Armstrong Air kits do not come with thermostat or IAQ products.**

## A96-2V 96% TWO STAGE VARIABLE SPEED ECM GAS FURNACE COMMUNICATING SYSTEM WITH 4SCU16LS CONDENSER\*

| Kit        | ID No.   | Description                                     | Coil Height | SEER |
|------------|----------|-------------------------------------------------|-------------|------|
| ARMKIT#99  | .3286756 | 44,000 96% + 2 Ton 4SCU16LS with EAC4X24B Coil  | 18.5"       | 16   |
| ARMKIT#100 | .3286758 | 66,000 96% + 2 Ton 4SCU16LS with EAC4X24B Coil  | 18.5"       | 16   |
| ARMKIT#101 | .3286759 | 66,000 96% + 3 Ton 4SCU16LS with EAC4X36B Coil  | 24.5"       | 15.5 |
| ARMKIT#102 | .3286760 | 88,000 96% + 3 Ton 4SCU16LS with EAC4X48C Coil  | 27.5"       | 15.5 |
| ARMKIT#103 | .3286761 | 88,000 96% + 4 Ton 4SCU16LS with EAC4X49C Coil  | 29.5"       | 16   |
| ARMKIT#104 | .3286763 | 110,000 96% + 4 Ton 4SCU16LS with EAC4X49C Coil | 29.5"       | 16   |
| ARMKIT#105 | .3286764 | 110,000 96% + 5 Ton 4SCU16LS with EAC4X60C Coil | 31.5"       | 15.5 |
| ARMKIT#106 | .3286765 | 132,000 96% + 5 Ton 4SCU16LS with EAC4X60D Coil | 29.5"       | 15.5 |

\*4 wire serial communicating system



## A96-2V 96% TWO STAGE VARIABLE SPEED ECM GAS FURNACE WITH 4SCU16LE CONDENSER\*

| Kit       | ID No.   | Description                                       | Coil Height | SEER |
|-----------|----------|---------------------------------------------------|-------------|------|
| ARMKIT#88 | .3286715 | 44,000 96% + 2 Ton 4SCU16LE with EAC4X24B Coil    | 18.5"       | 16   |
| ARMKIT#89 | .3286729 | 66,000 96% + 2 Ton 4SCU16LE with EAC4X24B Coil    | 18.5"       | 16   |
| ARMKIT#90 | .3286739 | 66,000 96% + 2.5 Ton 4SCU16LE with EAC4X30B Coil  | 22.5"       | 16   |
| ARMKIT#91 | .3286741 | 66,000 96% + 3 Ton 4SCU16LE with EAC4X48B Coil    | 27.5"       | 15.5 |
| ARMKIT#92 | .3286740 | 88,000 96% + 2.5 Ton 4SCU16LE with EAC4X48C Coil  | 27.5"       | 16   |
| ARMKIT#93 | .3286742 | 88,000 96% + 3 Ton 4SCU16LE with EAC4X48C Coil    | 27.5"       | 16   |
| ARMKIT#94 | .3286743 | 88,000 96% + 3.5 Ton 4SCU16LE with EAC4X49C Coil  | 29.5"       | 15.5 |
| ARMKIT#95 | .3286745 | 110,000 96% + 3.5 Ton 4SCU16LE with EAC4X49C Coil | 29.5"       | 15.5 |
| ARMKIT#96 | .3286748 | 110,000 96% + 4 Ton 4SCU16LE with EAC4X49C Coil   | 29.5"       | 14.5 |
| ARMKIT#97 | .3286751 | 110,000 96% + 5 Ton 4SCU16LE with EAC4X60C Coil   | 31.5"       | 14.5 |
| ARMKIT#98 | .3286752 | 132,000 96% + 5 Ton 4SCU16LE with EAC4X60D Coil   | 29.5"       | 14.5 |



### Each Kit Includes:

Furnace, Cased Coil, Condensing Unit, TXV (if required), Pad, Whip, Disconnect, Outdoor Sensor (if required), Fuses, Furnace Whip, Furnace Legs, and Free Condensing Unit Cover (stat not included).

**NOTE: Armstrong Air kits do not come with thermostat or IAQ products.**

# GAS FURNACE / AC SYSTEM KITS

## A96-2V 96% TWO STAGE VARIABLE SPEED ECM GAS FURNACE WITH 4SCU13LE CONDENSER\*

| Kit       | ID No.   | Description                                         | Coil Height | **SEER |
|-----------|----------|-----------------------------------------------------|-------------|--------|
| ARMKIT#76 | .3284021 | 44,000 96% + 1.5 Ton 4SCU13LE with EAC1P24B Coil    | 18.5"       | 14     |
| ARMKIT#77 | .3284022 | 44,000 96% + 2 Ton 4SCU13LE with EAC1P24B Coil      | 18.5"       | 15.1   |
| ARMKIT#78 | .3284023 | 66,000 96% + 2 Ton 4SCU13LE with EAC1P24B Coil      | 18.5"       | 15.1   |
| ARMKIT#79 | .3284024 | 66,000 96% + 2.5 Ton 4SCU13LE with EAC1P30B Coil    | 22.5"       | 15     |
| ARMKIT#80 | .3284025 | 66,000 96% + 3 Ton 4SCU13LE with EAC1P36B Coil      | 24.5"       | 15     |
| ARMKIT#81 | .3284026 | 88,000 96% + 2.5 Ton 4SCU13LE with EAC4X30/36C Coil | 24.5"       | 15     |
| ARMKIT#82 | .3284027 | 88,000 96% + 3 Ton 4SCU13LE with EAC1P48C Coil      | 27.5"       | 14     |
| ARMKIT#83 | .3284028 | 88,000 96% + 3.5 Ton 4SCU13LE with EAC1P48C Coil    | 27.5"       | 14     |
| ARMKIT#84 | .3284030 | 110,000 96% + 3.5 Ton 4SCU13LE with EAC1P48C Coil   | 27.5"       | 14     |
| ARMKIT#85 | .3284031 | 110,000 96% + 4 Ton 4SCU13LE with EAC1P49C Coil     | 29.5"       | 14     |
| ARMKIT#86 | .3284033 | 110,000 96% + 5 Ton 4SCU13LE with EAC1P60C Coil     | 31.5"       | 13     |
| ARMKIT#87 | .3284034 | 132,000 96% + 5 Ton 4SCU13LE with EAC1P60B Coil     | 29.5"       | 13     |



\*Outdoor unit is not serial communicating  
 \*\*SEER rating when adding accessory TXV kit

### Each Kit Includes:

Furnace, Cased Coil, Condensing Unit, TXV (if required), Pad, Whip, Disconnect, Outdoor Sensor (if required), Fuses, Furnace Whip, Furnace Legs, and Free Condensing Unit Cover (stat not included).

**NOTE: Armstrong Air kits do not come with thermostat or IAQ products.**

## A96-2E 96% TWO STAGE CONSTANT TORQUE ECM GAS FURNACE WITH 4SCU16LE CONDENSER\*

| Kit        | ID No.   | Description                                       | Coil Height | SEER |
|------------|----------|---------------------------------------------------|-------------|------|
| ARMKIT#205 | .3369936 | 44,000 96% + 2 Ton 4SCU16LE with EAC4X24B Coil    | 18.5"       | 16   |
| ARMKIT#206 | .3369938 | 66,000 96% + 2 Ton 4SCU16LE with EAC4X24B Coil    | 18.5"       | 16   |
| ARMKIT#207 | .3369940 | 66,000 96% + 2.5 Ton 4SCU16LE with EAC4X36B Coil  | 24.5"       | 15.5 |
| ARMKIT#208 | .3369942 | 66,000 96% + 3 Ton 4SCU16LE with EAC4X48B Coil    | 27.5"       | 15.1 |
| ARMKIT#209 | .3369943 | 88,000 96% + 2.5 Ton 4SCU16LE with EAC4X48C Coil  | 27.5"       | 16   |
| ARMKIT#210 | .3369944 | 88,000 96% + 3 Ton 4SCU16LE with EAC4X48C Coil    | 27.5"       | 15.5 |
| ARMKIT#211 | .3369945 | 88,000 96% + 3.5 Ton 4SCU16LE with EAC4X60C Coil  | 31.5"       | 16   |
| ARMKIT#212 | .3369946 | 110,000 96% + 3.5 Ton 4SCU16LE with EAC4X60C Coil | 31.5"       | 16   |
| ARMKIT#213 | .3369947 | 110,000 96% + 4 Ton 4SCU16LE with EAC4X60C Coil   | 31.5"       | 15   |
| ARMKIT#214 | .3369948 | 110,000 96% + 5 Ton 4SCU16LE with EAC4X60C Coil   | 31.5"       | 14.5 |



\*Outdoor unit is not serial communicating  
 \*\*SEER rating when adding accessory TXV kit

## A96-2E 96% TWO STAGE CONSTANT TORQUE ECM GAS FURNACE WITH 4SCU13LE CONDENSER\*

| Kit        | ID No.   | Description                                         | Coil Height | **SEER |
|------------|----------|-----------------------------------------------------|-------------|--------|
| ARMKIT#216 | .3369951 | 44,000 96% + 1.5 Ton 4SCU13LE with EAC1P24B Coil    | 18.5"       | 14     |
| ARMKIT#217 | .3369952 | 44,000 96% + 2 Ton 4SCU13LE with EAC1P24B Coil      | 18.5"       | 15     |
| ARMKIT#218 | .3369957 | 66,000 96% + 2 Ton 4SCU13LE with EAC1P24B Coil      | 18.5"       | 15     |
| ARMKIT#219 | .3369959 | 66,000 96% + 2.5 Ton 4SCU13LE with EAC1P30B Coil    | 22.5"       | 14.5   |
| ARMKIT#220 | .3369960 | 66,000 96% + 3 Ton 4SCU13LE with EAC1P36B Coil      | 24.5"       | 14     |
| ARMKIT#221 | .3369962 | 88,000 96% + 2.5 Ton 4SCU13LE with EAC4X30/36C Coil | 24.5"       | 14.5   |
| ARMKIT#222 | .3369963 | 88,000 96% + 3 Ton 4SCU13LE with EAC1P48C Coil      | 27.5"       | 14     |
| ARMKIT#223 | .3369966 | 88,000 96% + 3.5 Ton 4SCU13LE with EAC1P48C Coil    | 27.5"       | 14     |
| ARMKIT#224 | .3369968 | 110,000 96% + 3.5 Ton 4SCU13LE with EAC1P48C Coil   | 27.5"       | 14     |
| ARMKIT#225 | .3369969 | 110,000 96% + 4 Ton 4SCU13LE with EAC1P49C Coil     | 29.5"       | 14     |
| ARMKIT#226 | .3369971 | 110,000 96% + 5 Ton 4SCU13LE with EAC1P60C Coil     | 31.5"       | 13     |
| ARMKIT#227 | .3369972 | 132,000 96% + 5 Ton 4SCU13LE with EAC1P60D Coil     | 29.5"       | 13     |

### Each Kit Includes:

Furnace, Cased Coil, Condensing Unit, TXV (if required), Pad, Whip, Disconnect, Outdoor Sensor (if required), Fuses, Furnace Whip, Furnace Legs, and Free Condensing Unit Cover (stat not included).

**NOTE: Armstrong Air kits do not come with thermostat or IAQ products.**

# GAS FURNACE / AC SYSTEM KITS

## A95-1E 95% SINGLE STAGE CONSTANT TORQUE GAS FURNACE WITH 4SCU16LE CONDENSER

| Kit        | ID No.  | Description                                            | Coil Height | SEER  |
|------------|---------|--------------------------------------------------------|-------------|-------|
| ARMKIT#310 | 3482327 | 44,000 95% + 1.5 Ton A/C Kit with EAC4X30B Cased Coil  | 22.5"       | 14.5  |
| ARMKIT#311 | 3482332 | 44,000 95% + 2 Ton A/C Kit with EAC4X24B Cased Coil    | 18.5"       | 16    |
| ARMKIT#312 | 3482336 | 66,000 95% + 2 Ton A/C Kit with EAC4X24B Cased Coil    | 18.5"       | 16    |
| ARMKIT#313 | 3482339 | 66,000 95% + 2.5 Ton A/C Kit with EAC4X36B Cased Coil  | 24.5"       | 16    |
| ARMKIT#314 | 3482341 | 66,000 95% + 3 Ton A/C Kit with EAC4X48B Cased Coil    | 27.5"       | 16    |
| ARMKIT#315 | 3482342 | 88,000 95% + 2.5 Ton A/C Kit with EAC4X48C Cased Coil  | 27.5"       | 16    |
| ARMKIT#316 | 3482346 | 88,000 95% + 3 Ton A/C Kit with EAC4X48C Cased Coil    | 27.5"       | 16    |
| ARMKIT#317 | 3482348 | 88,000 95% + 3.5 Ton A/C Kit with EAC4X49C Cased Coil  | 29.5"       | 15.5  |
| ARMKIT#318 | 3482350 | 110,000 95% + 3.5 Ton A/C Kit with EAC4X49C Cased Coil | 29.5"       | 15    |
| ARMKIT#319 | 3482356 | 110,000 95% + 4 Ton A/C Kit with EAC4X49C Cased Coil   | 29.5"       | 15    |
| ARMKIT#320 | 3482359 | 110,000 95% + 5 Ton A/C Kit with EAC4X60C Cased Coil   | 31.5"       | 14.25 |
| ARMKIT#321 | 3482360 | 135,000 95% + 5 Ton A/C Kit with EAC4X60D Cased Coil   | 29.5"       | 14    |

## A95-1E 95% SINGLE STAGE CONSTANT TORQUE GAS FURNACE WITH 4SCU13LE CONDENSER

| Kit        | ID No.  | Description                                            | Coil Height | **SEER |
|------------|---------|--------------------------------------------------------|-------------|--------|
| ARMKIT#270 | 3482364 | 44,000 95% + 1.5 Ton A/C Kit with EAC1P24B Cased Coil  | 18.5"       | 14.5   |
| ARMKIT#271 | 3482366 | 44,000 95% + 2 Ton A/C Kit with EAC1P24B Cased Coil    | 18.5"       | 15     |
| ARMKIT#272 | 3482367 | 66,000 95% + 2 Ton A/C Kit with EAC1P24B Cased Coil    | 18.5"       | 15     |
| ARMKIT#273 | 3482369 | 66,000 95% + 2.5 Ton A/C Kit with EAC1P30B Cased Coil  | 22.5"       | 14.5   |
| ARMKIT#274 | 3482371 | 66,000 95% + 3 Ton A/C Kit with EAC1P48B Cased Coil    | 27.5"       | 14     |
| ARMKIT#275 | 3482372 | 88,000 95% + 2.5 Ton A/C Kit with EAC1P48C Cased Coil  | 27.5"       | 15.5   |
| ARMKIT#276 | 3482373 | 88,000 95% + 3 Ton A/C Kit with EAC1P48C Cased Coil    | 27.5"       | 14     |
| ARMKIT#277 | 3482374 | 88,000 95% + 3.5 Ton A/C Kit with EAC1P49C Cased Coil  | 29.5"       | 14     |
| ARMKIT#278 | 3482375 | 110,000 95% + 3.5 Ton A/C Kit with EAC1P49C Cased Coil | 29.5"       | 14     |
| ARMKIT#279 | 3482377 | 110,000 95% + 4 Ton A/C Kit with EAC1P49C Cased Coil   | 29.5"       | 14     |
| ARMKIT#280 | 3482378 | 110,000 95% + 5 Ton A/C Kit with EAC1P60C Cased Coil   | 31.5"       | 13     |
| ARMKIT#281 | 3482381 | 135,000 95% + 5 Ton A/C Kit with EAC1P60D Cased Coil   | 29.5"       | 13     |



**\*\*SEER rating when adding accessory TXV kit**

### Each Kit Includes:

Furnace, Cased Coil, Condensing Unit, TXV (if required), Pad, Whip, Disconnect, Outdoor Sensor (if required), Fuses, Furnace Whip, Furnace Legs, and Free Condensing Unit Cover (stat not included).

**NOTE: Armstrong Air kits do not come with thermostat or IAQ products.**



## A80-1E 80% SINGLE STAGE CONSTANT TORQUE GAS FURNACE WITH 4SCU13LE CONDENSER

| Kit        | ID No.  | Description                                            | Coil Height | SEER |
|------------|---------|--------------------------------------------------------|-------------|------|
| ARMKIT#290 | 3482511 | 44,000 80% + 1.5 Ton A/C Kit with EAC1P24A Cased Coil  | 18.5"       | 14   |
| ARMKIT#291 | 3482512 | 44,000 80% + 2 Ton A/C Kit with EAC1P24A Cased Coil    | 18.5"       | 15.1 |
| ARMKIT#292 | 3482514 | 66,000 80% + 2 Ton A/C Kit with EAC1P24A Cased Coil    | 18.5"       | 15.1 |
| ARMKIT#293 | 3482515 | 66,000 80% + 2.5 Ton A/C Kit with EAC1P30A Cased Coil  | 22.5"       | 15   |
| ARMKIT#294 | 3482516 | 66,000 80% + 3 Ton A/C Kit with EAC1P36A Cased Coil    | 24.5"       | 14.5 |
| ARMKIT#295 | 3482517 | 88,000 80% + 2.5 Ton A/C Kit with EAC1P30B Cased Coil  | 22.5"       | 15   |
| ARMKIT#296 | 3482519 | 88,000 80% + 3 Ton A/C Kit with EAC1P36B Cased Coil    | 24.5"       | 14   |
| ARMKIT#297 | 3482520 | 88,000 80% + 3.5 Ton A/C Kit with EAC1P48B Cased Coil  | 27.5"       | 14   |
| ARMKIT#298 | 3482521 | 110,000 80% + 3.5 Ton A/C Kit with EAC1P48C Cased Coil | 27.5"       | 14   |
| ARMKIT#299 | 3482522 | 110,000 80% + 4 Ton A/C Kit with EAC1P49C Cased Coil   | 29.5"       | 14   |
| ARMKIT#300 | 3482523 | 110,000 80% + 5 Ton A/C Kit with EAC1P60C Cased Coil   | 31.5"       | 13   |
| ARMKIT#301 | 3482524 | 135,000 80% + 5 Ton A/C Kit with EAC1P60D Cased Coil   | 29.5"       | 13   |



**\*\*SEER rating when adding accessory TXV kit**

### Each Kit Includes:

Furnace, Cased Coil, Condensing Unit, TXV (if required), Pad, Whip, Disconnect, Outdoor Sensor (if required), Fuses, Furnace Whip, Furnace Legs, and Free Condensing Unit Cover (stat not included).

**NOTE: Armstrong Air kits do not come with thermostat or IAQ products.**

# ALL ELECTRIC HEAT PUMP KITS

## 4SHP20LX MODULATING ALL ELECTRIC HEAT PUMP COMMUNICATING SYSTEM WITH VS AIR HANDLER

| Kit        | Product ID | Description                            | SEER | EER  | HSPF |
|------------|------------|----------------------------------------|------|------|------|
| ARMKIT#170 | .3359740   | 2 Ton 4SHP20LX w/BCE7S24MA4X-50, 10 KW | 20   | 14   | 10   |
| ARMKIT#171 | .3359812   | 3 Ton 4SHP20LX w/BCE7S42MA4X-50, 15 KW | 20   | 13.5 | 10   |
| ARMKIT#172 | .3359817   | 4 Ton 4SHP20LX w/BCE7S60MA4X-50, 20 KW | 19.5 | 12.5 | 9.6  |
| ARMKIT#173 | .3359822   | 5 Ton 4SHP20LX w/BCE7S60MA4X-50, 20 KW | 19   | 12.5 | 9.6  |

\*4 wire serial communicating system

\*\*Comfort Sync® must be used with all 20 SEER systems.



## 4SHP16LS TWO STAGE ALL ELECTRIC HEAT PUMP COMMUNICATING SYSTEM WITH VS AIR HANDLER\*

| Kit        | Product ID | Description                            | SEER | EER  | HSPF |
|------------|------------|----------------------------------------|------|------|------|
| ARMKIT#147 | .3287068   | 2 Ton 4SHP16LX w/BCE7S30MA4X-50, 10 KW | 16   | 12.5 | 8.5  |
| ARMKIT#148 | .3287073   | 3 Ton 4SHP20LX w/BCE7S36MA4X-50, 15 KW | 15   | 12.2 | 8.5  |
| ARMKIT#149 | .3287080   | 4 Ton 4SHP20LX w/BCE7S48MA4X-50, 20 KW | 16   | 12.5 | 8.5  |
| ARMKIT#150 | .3287086   | 5 Ton 4SHP20LX w/BCE7S60MA4X-50, 20 KW | 15.5 | 12   | 8.5  |

\*4 wire serial communicating system



## 4SHP15LE SINGLE STAGE ALL ELECTRIC HEAT PUMP SYSTEM WITH CONSTANT TORQUE ECM AIR HANDLER

| Kit        | Product ID | Description                                | SEER  | EER  | HSPF |
|------------|------------|--------------------------------------------|-------|------|------|
| ARMKIT#174 | 3359843    | 1.5 Ton 4SHP15LE w/BCE5E24MA4X, 10 KW      | 16    | 13   | 8.5  |
| ARMKIT#141 | 3287040    | 2 Ton 4SHP15LE w/BCE5E24MA4X-50, 10 KW     | 15.5  | 12.5 | 8.5  |
| ARMKIT#142 | 3287042    | 2.5 Ton 4SHP15LE w/BCE5E30MA4X-50, 12.5 KW | 15.5  | 12.5 | 8.5  |
| ARMKIT#143 | 3287044    | 3 Ton 4SHP15LE w/BCE5E36MA4X-50, 15 KW     | 15    | 12.5 | 8.5  |
| ARMKIT#144 | 3287045    | 3.5 Ton 4SHP15LE w/BCE5E42MA4X-50, 15 KW   | 15    | 12.5 | 8.2  |
| ARMKIT#145 | 3287046    | 4 Ton 4SHP15LE w/BCE5E48MA4X-50, 20 KW     | 14    | 11.5 | 8.2  |
| ARMKIT#146 | 3287047    | 5 Ton 4SHP15LE w/BCE5E60MA4X-50, 20 KW     | 14.25 | 12.2 | 8.2  |

### Each Kit Includes:

Air Handler, Heat Pump, TXV (if required), AUX Heat Package, Pad, Whip, Disconnect, Fuses, Pump Ups, Return Air Box and Filters (optional IAQ kits do not apply to all electrical heat pump systems).

**NOTE: Armstrong Air kits do not come with thermostat or IAQ products.**

## 4SHP15LE SINGLE STAGE ALL ELETRIC HEAT PUMP SYSTEM WITH STANDARD PSC AIR HANDLER

| Kit        | Product ID | Description                             | SEER | EER  | HSPF |
|------------|------------|-----------------------------------------|------|------|------|
| ARMKIT#134 | .3287024   | 1.5 Ton 4SHP15LE w/BCE5C18MA1P, 7.5 KW  | 14   | 12   | 8.2  |
| ARMKIT#135 | .3287028   | 2 Ton 4SHP15LE w/BCE5C24MA1P, 10 KW     | 14   | 12   | 8.2  |
| ARMKIT#136 | .3287031   | 2.5 Ton 4SHP15LE w/BCE5C30MA1P, 12.5 KW | 14   | 12   | 8.2  |
| ARMKIT#137 | .3287033   | 3 Ton 4SHP15LE w/BCE5C36MA1P, 15 KW     | 14   | 12   | 8.2  |
| ARMKIT#138 | .3287034   | 3.5 Ton 4SHP15LE w/BCE5C42MA1P, 15 KW   | 14   | 12   | 8.2  |
| ARMKIT#139 | .3287036   | 4 Ton 4SHP15LE w/BCE5C48MA1P, 20 KW     | 14   | 11.5 | 8.2  |
| ARMKIT#140 | .3285275   | 5 Ton 4SHP15LE w/BCE5C60MA1P, 20 KW     | 14   | 12   | 8.2  |



### Each Kit Includes:

Air Handler, Heat Pump, TXV (if required), AUX Heat Package, Pad, Whip, Disconnect, Fuses, Pump Ups, Return Air Box and Filters (optional IAQ kits do not apply to all electrical heat pump systems).

**NOTE: Armstrong Air kits do not come with thermostat or IAQ products.**

# COOLING ONLY SYSTEM KITS

## 4SCU16LE COOLING ONLY W/ ARMSTRONG CASSED TXV COIL \*

| Kit        | Product ID | Description                                   | Coil Dimensions   |
|------------|------------|-----------------------------------------------|-------------------|
| ARMKIT#230 | .3380666   | 1.5 Ton 14 SEER A/C Kit with EAC4X24B-50 Coil | 17.5" W x 18.5" H |
| ARMKIT#231 | .3380668   | 2 Ton 14 SEER A/C Kit with EAC4X30B-50 Coil   | 17.5" W x 22.5" H |
| ARMKIT#232 | .3380673   | 2.5 Ton 14 SEER A/C Kit with EAC4X36B-50 Coil | 17.5" W x 24.5" H |
| ARMKIT#233 | .3380674   | 3 Ton 14 SEER A/C Kit with EAC4X48C-50 Coil   | 21" W x 27.5" H   |
| ARMKIT#234 | .3380676   | 3.5 Ton 14 SEER A/C Kit with EAC4X48C-50 Coil | 21" W x 27.5" H   |
| ARMKIT#235 | .3380679   | 4 Ton 14 SEER A/C Kit with EAC4X49C-50 Coil   | 21" W x 29.5" H   |
| ARMKIT#236 | .3380680   | 5 Ton 14 SEER A/C Kit with EAC4X60C-50 Coil   | 21" W x 31.5" H   |

Includes cased coil. For uncased application, remove coil from case.

**\*NOTE: Up to 16 SEER when installed with AHRI matched indoor unit.**

## 4SCU13LE COOLING ONLY W/ ARMSTRONG UNCASSED PISTON COIL \*

| Kit       | Product ID | Description                                   | Coil Dimensions    |
|-----------|------------|-----------------------------------------------|--------------------|
| ARMKIT#57 | .3241026   | 1.5 Ton 13 SEER A/C Kit with EAU1P24A-50 Coil | 13" W x 16.5" H    |
| ARMKIT#58 | .3241028   | 2 Ton 13 SEER A/C Kit with EAU1P24A-50 Coil   | 13" W x 16.5" H    |
| ARMKIT#59 | .3241030   | 2.5 Ton 13 SEER A/C Kit with EAU1P30B-50 Coil | 15.5" W x 20.75" H |
| ARMKIT#60 | .3241027   | 3 Ton 13 SEER A/C Kit with EAU1P36B-50 Coil   | 15.5" W x 22.5" H  |
| ARMKIT#61 | .3241029   | 3.5 Ton 13 SEER A/C Kit with EAU1P49C-50 Coil | 19.5" W x 28.5" H  |
| ARMKIT#62 | .3241031   | 4 Ton 13 SEER A/C Kit with EAU1P49C-50 Coil   | 19.5" W x 28.5" H  |
| ARMKIT#63 | .3284014   | 5 Ton 13 SEER A/C Kit with EAU1P60C-50 Coil   | 19.5" W x 31" H    |

**\*NOTE: Up to 15 SEER when installed with AHRI matched indoor unit.**

## 4SCU13LE COOLING ONLY W/ ASPEN UNCASSED PISTON COIL \*

| Kit        | Product ID | Description                                    | Coil Dimensions |
|------------|------------|------------------------------------------------|-----------------|
| ARMKIT#151 | .3286719   | 1.5 Ton 13 SEER A/C Kit with CA24A3G-130L Coil | 13" W x 12" H   |
| ARMKIT#152 | .3286720   | 2 Ton 13 SEER A/C Kit with CA24A3G-130L Coil   | 13" W x 12" H   |
| ARMKIT#153 | .3286721   | 2.5 Ton 13 SEER A/C Kit with CA30A3G-160L Coil | 16" W x 14" H   |
| ARMKIT#154 | .3286723   | 3 Ton 13 SEER A/C Kit with CA42A3G-160L Coil   | 16" W x 19" H   |
| ARMKIT#155 | .3286725   | 3.5 Ton 13 SEER A/C Kit with CA483G-195L Coil  | 19.5" W x 20" H |
| ARMKIT#156 | .3286726   | 4 Ton 13 SEER A/C Kit with CA60A3G-195L Coil   | 19.5" W x 24" H |
| ARMKIT#157 | .3286727   | 5 Ton 13 SEER A/C Kit with CA60C3G-245L Coil   | 24.5" W x 28" H |

**\*NOTE: Up to 15 SEER when installed with AHRI matched indoor unit.**



### Each Kit Includes:

Condensing Unit, Uncased Coil, Pad, Whip, Disconnect, Fuses and Free Condensing Unit Cover

**NOTE: Armstrong Air kits do not come with thermostat or IAQ products.**

# A97MV

## PRODUCT SPECIFICATIONS

## MODULATING VARIABLE SPEED GAS FURNACE

FORM NO. A97MV-100 (10/2018)



**COMFORT SYNC™**  
COMMUNICATING THERMOSTAT ENABLED

### CONFIGURATIONS

- Upflow / Horizontal
- Downflow

### HEAT EXCHANGER DESIGN

- 409 stainless steel primary heat exchanger with crimped non-welded construction
- AL 29-4C stainless steel secondary heat exchanger

### CABINET DESIGN

- Compact 33" height
- Standardized widths for easy coil fit

### AIR DELIVERY SYSTEM

- ECM variable speed blower motor
- Easily removable slide out blower design

### CONTROLS

- Communicating control enabled
- Modulating gas valve
- Thermostat flexibility: works with the Comfort Sync T-Stat or a conventional 24V T-Stat
- Self diagnostics saves last 10 fault codes regardless of power interruption

### VENTING

- Category 4 direct vent appliance (2 pipe only)

### INSTALLATION FEATURES

- Left or right utility connections
- Zero step horizontal conversion
- Removable floor base for bottom return air

### WARRANTY

10 year limited parts warranty / lifetime heat exchanger warranty available. See limited warranty document for details.

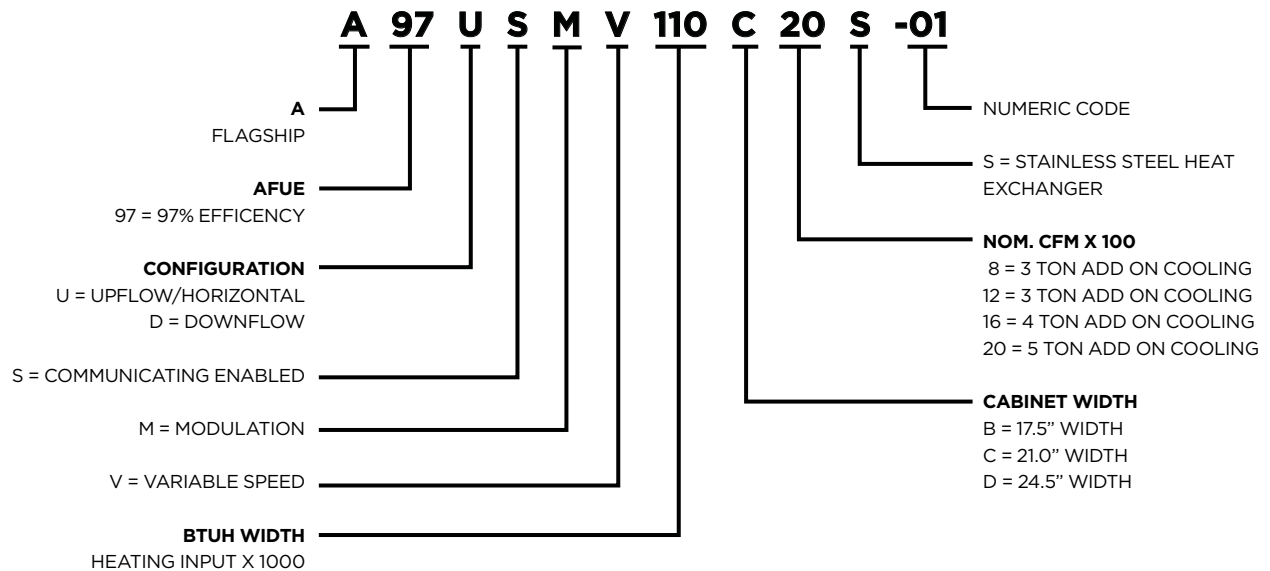
#### California Only

If installed in South Coast Air Quality Management District (SCAQMD) only: This furnace does not meet the SCAQMD Rule 1111 NOx emission limit (14 ng/L), and thus is subject to a mitigation fee of up to \$450. This furnace is not eligible for the Clean Air Furnace Rebate Program: [www.CleanAirFurnaceRebate.com](http://www.CleanAirFurnaceRebate.com).

If installed in San Joaquin Valley Air Pollution Control District (SJVAPCD) only: This furnace does not meet the SJVAPCD Rule 4905 NOx emission limit (14 ng/L), and thus is subject to a mitigation fee of up to \$450.



### MODEL NUMBER GUIDE



### PHYSICAL AND ELECTRICAL DATA

|                     | Model          | Input (Btuh) | Output * (Btuh) | AFUE (ICS) | Nominal* Cooling Capacity | Gas Inlet (in.) | Volts-Hertz-Phase | Max. Time Delay Breaker or Fuse | Nominal F.L.A. | Trans. (V.A.) | Approx. Shipping Weight (lbs.) |
|---------------------|----------------|--------------|-----------------|------------|---------------------------|-----------------|-------------------|---------------------------------|----------------|---------------|--------------------------------|
| UPFLOW / HORIZONTAL | A97USMV070B12S | 66,000       | 64,000          | 97.0%      | 3 Tons                    | 1/2             | 120-60-1          | 15                              | 7.7            | 40            | 138                            |
|                     | A97USMV090C12S | 88,000       | 85,000          | 97.0%      | 3 Tons                    | 1/2             | 120-60-1          | 15                              | 7.7            | 40            | 155                            |
|                     | A97USMV090C16S | 88,000       | 85,000          | 97.0%      | 4 Tons                    | 1/2             | 120-60-1          | 15                              | 10.1           | 40            | 165                            |
|                     | A97USMV090C20S | 88,000       | 85,000          | 97.0%      | 5 Tons                    | 1/2             | 120-60-1          | 20                              | 12.8           | 40            | 165                            |
|                     | A97USMV110C20S | 110,000      | 106,000         | 97.0%      | 5 Tons                    | 1/2             | 120-60-1          | 20                              | 12.8           | 40            | 175                            |
|                     | A97USMV135D20S | 132,000      | 127,000         | 97.0%      | 5 Tons                    | 1/2             | 120-60-1          | 20                              | 12.8           | 40            | 190                            |
| DOWNFLOW            | A97DSMV070B12S | 66,000       | 64,000          | 97.0%      | 3 Tons                    | 1/2             | 120-60-1          | 15                              | 7.7            | 40            | 140                            |
|                     | A97DSMV090C16S | 88,000       | 85,000          | 97.0%      | 4 Tons                    | 1/2             | 120-60-1          | 15                              | 10.1           | 40            | 165                            |
|                     | A97DSMV090C20S | 88,000       | 85,000          | 97.0%      | 5 Tons                    | 1/2             | 120-60-1          | 20                              | 12.8           | 40            | 165                            |
|                     | A97DSMV110C20S | 110,000      | 107,000         | 97.0%      | 5 Tons                    | 1/2             | 120-60-1          | 20                              | 12.8           | 40            | 174                            |

Note: For vent length and clearances to combustibles, please reference installation instructions.

\* At full capacity



## BLOWER PERFORMANCE DATA: BOTTOM INLET

|                     | Model          | Motor Size (hp) | Blower Size | Temp Rise F°       | Heating CFM @ 0" - 0.5" w.c. |           |           |            | Cooling Stages | Speed Adjustment | Cooling CFM @ 0" - 0.8" w.c. |            |             |              |
|---------------------|----------------|-----------------|-------------|--------------------|------------------------------|-----------|-----------|------------|----------------|------------------|------------------------------|------------|-------------|--------------|
|                     |                |                 |             |                    | **                           | 40% Input | 70% Input | 100% Input |                |                  | Low                          | Medium Low | Medium High | High Default |
|                     |                |                 |             |                    |                              |           |           |            |                |                  |                              |            |             |              |
| UPFLOW / HORIZONTAL | A97USMV070B12S | 1/2 HP          | 10 x 9      | 50 - 80 Max. Input | +15%                         | 538       | 833       | 1128       | 2nd Stage      | +10%             | 862                          | 1063       | 1218        | 1369         |
|                     |                |                 |             |                    | +7.5%                        | 496       | 772       | 1048       |                | Default          | 810                          | 962        | 1130        | 1269         |
|                     |                |                 |             |                    | Default                      | 453       | 710       | 967        |                | -10%             | 707                          | 841        | 1007        | 1140         |
|                     |                |                 |             | 35 - 65 Min. Input | +10%                         | 604       | 740       | 843        | 1st Stage      | +10%             | 604                          | 740        | 843         | 971          |
|                     |                |                 |             |                    | -7.5%                        | 419       | 657       | 895        |                | Default          | 558                          | 668        | 770         | 855          |
|                     |                |                 |             |                    | -15%                         | 385       | 604       | 822        |                | -10%             | 504                          | 603        | 683         | 793          |
|                     | A97USMV090C12S | 1/2 HP          | 10 x 9      | 60 - 90 Max. Input | +15%                         | 734       | 1014      | 1295       | 2nd Stage      | +10%             | 879                          | 1040       | 1212        | 1362         |
|                     |                |                 |             |                    | +7.5%                        | 697       | 953       | 1209       |                | Default          | 803                          | 946        | 1104        | 1246         |
|                     |                |                 |             |                    | Default                      | 660       | 891       | 1122       |                | -10%             | 721                          | 842        | 972         | 1117         |
|                     |                |                 |             | 35 - 65 Min. Input | +10%                         | 626       | 710       | 832        | 1st Stage      | +10%             | 626                          | 710        | 832         | 952          |
|                     |                |                 |             |                    | -7.5%                        | 616       | 828       | 1041       |                | Default          | 569                          | 672        | 764         | 862          |
|                     |                |                 |             |                    | -15%                         | 572       | 766       | 959        |                | -10%             | 524                          | 612        | 687         | 785          |
|                     | A97USMV090C16S | 3/4 HP          | 11 x 11     | 50 - 80 Max. Input | +15%                         | 835       | 1234      | 1633       | 2nd Stage      | +10%             | 1168                         | 1379       | 1583        | 1771         |
|                     |                |                 |             |                    | +7.5%                        | 776       | 1155      | 1534       |                | Default          | 1079                         | 1267       | 1444        | 1645         |
|                     |                |                 |             |                    | Default                      | 716       | 1075      | 1434       |                | -10%             | 938                          | 1148       | 1324        | 1469         |
|                     |                |                 |             | 35 - 65 Min. Input | +10%                         | 843       | 1007      | 1159       | 1st Stage      | +10%             | 843                          | 1007       | 1159        | 1315         |
|                     |                |                 |             |                    | -7.5%                        | 652       | 997       | 1342       |                | Default          | 780                          | 915        | 1047        | 1190         |
|                     |                |                 |             |                    | -15%                         | 589       | 919       | 1249       |                | -10%             | 693                          | 838        | 959         | 1070         |
|                     | A97USMV090C20S | 1 HP            | 11 x 11     | 50 - 80 Max. Input | +15%                         | 665       | 1159      | 1653       | 2nd Stage      | +10%             | 1385                         | 1593       | 1818        | 2019         |
|                     |                |                 |             |                    | +7.5%                        | 618       | 1085      | 1553       |                | Default          | 1226                         | 1463       | 1647        | 1884         |
|                     |                |                 |             |                    | Default                      | 571       | 1012      | 1453       |                | -10%             | 1063                         | 1320       | 1504        | 1675         |
|                     |                |                 |             | 35 - 65 Min. Input | +10%                         | 933       | 1054      | 1274       | 1st Stage      | +10%             | 933                          | 1054       | 1274        | 1466         |
|                     |                |                 |             |                    | -7.5%                        | 507       | 917       | 1328       |                | Default          | 836                          | 978        | 1121        | 1336         |
|                     |                |                 |             |                    | -15%                         | 443       | 823       | 1203       |                | -10%             | 740                          | 868        | 1010        | 1152         |
|                     | A97USMV110C20S | 1 HP            | 11 x 11     | 50 - 80 Max. Input | +15%                         | 861       | 1424      | 1988       | 2nd Stage      | +10%             | 1312                         | 1560       | 1744        | 1955         |
|                     |                |                 |             |                    | +7.5%                        | 825       | 1349      | 1874       |                | Default          | 1219                         | 1405       | 1569        | 1796         |
|                     |                |                 |             |                    | Default                      | 789       | 1274      | 1759       |                | -10%             | 1075                         | 1272       | 1428        | 1634         |
|                     |                |                 |             | 35 - 65 Min. Input | +10%                         | 937       | 1064      | 1247       | 1st Stage      | +10%             | 937                          | 1064       | 1247        | 1407         |
|                     |                |                 |             |                    | -7.5%                        | 731       | 1187      | 1644       |                | Default          | 864                          | 972        | 1146        | 1282         |
|                     |                |                 |             |                    | -15%                         | 673       | 1101      | 1528       |                | -10%             | 790                          | 888        | 1025        | 1167         |
|                     | A97USMV135D20S | 1 HP            | 11 x 11     | 55 - 85 Max. Input | +15%                         | 1033      | 1534      | 2035       | 2nd Stage      | +10%             | 1353                         | 1567       | 1751        | 1994         |
|                     |                |                 |             |                    | +7.5%                        | 957       | 1426      | 1895       |                | Default          | 1202                         | 1448       | 1616        | 1828         |
|                     |                |                 |             |                    | Default                      | 881       | 1317      | 1754       |                | -10%             | 1080                         | 1290       | 1472        | 1668         |
|                     |                |                 |             | 35 - 65 Min. Input | +10%                         | 935       | 1074      | 1260       | 1st Stage      | +10%             | 935                          | 1074       | 1260        | 1450         |
|                     |                |                 |             |                    | -7.5%                        | 817       | 1235      | 1652       |                | Default          | 834                          | 983        | 1116        | 1306         |
|                     |                |                 |             |                    | -15%                         | 753       | 1152      | 1550       |                | -10%             | 732                          | 867        | 1023        | 1145         |

Note:

\*\* See installation instructions for proper blower set up

**BLOWER PERFORMANCE DATA: SIDE INLET**

|                     | Model          | Motor Size (hp) | Blower Size | Temp Rise F°       | Heating<br>CFM @ 0" - 0.5" w.c. |           |           |            | Cooling Stages | Speed Adjust-ment | Cooling<br>CFM @ 0" - 0.8" w.c. |            |             |              |
|---------------------|----------------|-----------------|-------------|--------------------|---------------------------------|-----------|-----------|------------|----------------|-------------------|---------------------------------|------------|-------------|--------------|
|                     |                |                 |             |                    | **                              | 40% Input | 70% Input | 100% Input |                |                   | Low                             | Medium Low | Medium High | High Default |
| UPFLOW / HORIZONTAL | A97USMV070B12S | 1/2 HP          | 10 x 9      | 50 - 80 Max. Input | +15%                            | 531       | 812       | 1093       | 2nd Stage      | +10%              | 840                             | 1054       | 1208        | 1357         |
|                     |                |                 |             |                    | +7.5%                           | 490       | 756       | 1022       |                | Default           | 752                             | 946        | 1130        | 1231         |
|                     |                |                 |             |                    | Default                         | 449       | 700       | 951        |                | -10%              | 688                             | 805        | 991         | 1114         |
|                     |                |                 |             | 35 - 65 Min. Input | +10%                            | 593       | 706       | 805        | 1st Stage      | +10%              | 593                             | 706        | 805         | 959          |
|                     |                |                 |             |                    | -7.5%                           | 413       | 635       | 857        |                | Default           | 543                             | 642        | 729         | 824          |
|                     |                |                 |             |                    | -15%                            | 378       | 571       | 763        |                | -10%              | 503                             | 584        | 665         | 720          |
|                     | A97USMV090C12S | 1/2 HP          | 10 x 9      | 60 - 90 Max. Input | +15%                            | 702       | 971       | 1240       | 2nd Stage      | +10%              | 843                             | 1017       | 1168        | 1300         |
|                     |                |                 |             |                    | +7.5%                           | 673       | 926       | 1178       |                | Default           | 772                             | 912        | 1054        | 1193         |
|                     |                |                 |             |                    | Default                         | 644       | 880       | 1116       |                | -10%              | 698                             | 799        | 946         | 1111         |
|                     |                |                 |             | 35 - 65 Min. Input | +10%                            | 610       | 707       | 797        | 1st Stage      | +10%              | 610                             | 707        | 797         | 921          |
|                     |                |                 |             |                    | -7.5%                           | 608       | 814       | 1020       |                | Default           | 561                             | 643        | 718         | 811          |
|                     |                |                 |             |                    | -15%                            | 571       | 747       | 923        |                | -10%              | 526                             | 605        | 667         | 729          |
|                     | A97USMV090C16S | 3/4 HP          | 11 x 11     | 50 - 80 Max. Input | +15%                            | 812       | 1204      | 1595       | 2nd Stage      | +10%              | 1140                            | 1341       | 1526        | 1728         |
|                     |                |                 |             |                    | +7.5%                           | 759       | 1127      | 1495       |                | Default           | 1043                            | 1235       | 1398        | 1566         |
|                     |                |                 |             |                    | Default                         | 706       | 1051      | 1395       |                | -10%              | 913                             | 1124       | 1279        | 1402         |
|                     |                |                 |             | 35 - 65 Min. Input | +10%                            | 823       | 1009      | 1135       | 1st Stage      | +10%              | 823                             | 1009       | 1135        | 1292         |
|                     |                |                 |             |                    | -7.5%                           | 608       | 814       | 1020       |                | Default           | 758                             | 882        | 1026        | 1151         |
|                     |                |                 |             |                    | -15%                            | 571       | 747       | 923        |                | -10%              | 684                             | 816        | 928         | 1068         |
|                     | A97USMV090C20S | 1 HP            | 11 x 11     | 50 - 80 Max. Input | +15%                            | 684       | 1136      | 1588       | 2nd Stage      | +10%              | 1335                            | 1559       | 1719        | 1986         |
|                     |                |                 |             |                    | +7.5%                           | 623       | 1059      | 1496       |                | Default           | 1173                            | 1433       | 1568        | 1811         |
|                     |                |                 |             |                    | Default                         | 562       | 983       | 1403       |                | -10%              | 1049                            | 1283       | 1451        | 1603         |
|                     |                |                 |             | 35 - 65 Min. Input | +10%                            | 911       | 1043      | 1227       | 1st Stage      | +10%              | 911                             | 1043       | 1227        | 1434         |
|                     |                |                 |             |                    | -7.5%                           | 608       | 814       | 1020       |                | Default           | 805                             | 960        | 1087        | 1296         |
|                     |                |                 |             |                    | -15%                            | 571       | 747       | 923        |                | -10%              | 700                             | 840        | 991         | 1115         |
|                     | A97USMV110C20S | 1 HP            | 11 x 11     | 50 - 80 Max. Input | +15%                            | 733       | 1194      | 1747       | 2nd Stage      | +10%              | 1270                            | 1519       | 1712        | 1899         |
|                     |                |                 |             |                    | +7.5%                           | 708       | 1139      | 1657       |                | Default           | 1170                            | 1363       | 1555        | 1774         |
|                     |                |                 |             |                    | Default                         | 683       | 1085      | 1566       |                | -10%              | 1059                            | 1218       | 1401        | 1581         |
|                     |                |                 |             | 35 - 65 Min. Input | +10%                            | 918       | 1053      | 1198       | 1st Stage      | +10%              | 918                             | 1053       | 1198        | 1366         |
|                     |                |                 |             |                    | -7.5%                           | 632       | 1007      | 1457       |                | Default           | 820                             | 964        | 1095        | 1231         |
|                     |                |                 |             |                    | -15%                            | 580       | 929       | 1348       |                | -10%              | 722                             | 852        | 987         | 1116         |
|                     | A97USMV135D20S | 1 HP            | 11 x 11     | 55 - 85 Max. Input | +15%                            | 1010      | 1505      | 2001       | 2nd Stage      | +10%              | 1337                            | 1550       | 1720        | 1974         |
|                     |                |                 |             |                    | +7.5%                           | 923       | 1398      | 1873       |                | Default           | 1194                            | 1416       | 1608        | 1781         |
|                     |                |                 |             |                    | Default                         | 836       | 1290      | 1744       |                | -10%              | 1076                            | 1282       | 1437        | 1628         |
|                     |                |                 |             | 35 - 65 Min. Input | +10%                            | 938       | 1070      | 1236       | 1st Stage      | +10%              | 938                             | 1070       | 1236        | 1418         |
|                     |                |                 |             |                    | -7.5%                           | 775       | 1208      | 1641       |                | Default           | 837                             | 985        | 1114        | 1296         |
|                     |                |                 |             |                    | -15%                            | 715       | 1126      | 1537       |                | -10%              | 736                             | 870        | 1010        | 1139         |

**BLOWER PERFORMANCE DATA: SIDE INLET WITH RETURN AIR BASE**

|                     | Model          | Motor Size (hp) | Blower Size | Temp Rise F°       | Heating<br>CFM @ 0" - 0.5" w.c. |           |           |            | Cooling Stages | Speed Adjust-ment | Cooling<br>CFM @ 0" - 0.8" w.c. |            |             |              |
|---------------------|----------------|-----------------|-------------|--------------------|---------------------------------|-----------|-----------|------------|----------------|-------------------|---------------------------------|------------|-------------|--------------|
|                     |                |                 |             |                    | **                              | 40% Input | 70% Input | 100% Input |                |                   | Low                             | Medium Low | Medium High | High Default |
| UPFLOW / HORIZONTAL | A97USMV070B12S | 1/2 HP          | 10 x 9      | 50 - 80 Max. Input | +15%                            | 519       | 805       | 1091       | 2nd Stage      | +10%              | 857                             | 1049       | 1206        | 1354         |
|                     |                |                 |             |                    | +7.5%                           | 480       | 751       | 1021       |                | Default           | 791                             | 946        | 1093        | 1255         |
|                     |                |                 |             |                    | Default                         | 441       | 696       | 951        |                | -10%              | 722                             | 845        | 987         | 1131         |
|                     |                |                 |             | 35 - 65 Min. Input | +10%                            | 596       | 717       | 816        | 1st Stage      | +10%              | 596                             | 717        | 816         | 950          |
|                     |                |                 |             |                    | -7.5%                           | 408       | 643       | 877        |                | Default           | 521                             | 657        | 755         | 840          |
|                     |                |                 |             |                    | -15%                            | 375       | 589       | 803        |                | -10%              | 494                             | 597        | 672         | 747          |
|                     | A97USMV090C12S | 1/2 HP          | 10 x 9      | 60 - 90 Max. Input | +15%                            | 721       | 988       | 1254       | 2nd Stage      | +10%              | 852                             | 999        | 1166        | 1305         |
|                     |                |                 |             |                    | +7.5%                           | 679       | 923       | 1167       |                | Default           | 776                             | 907        | 1050        | 1206         |
|                     |                |                 |             |                    | Default                         | 637       | 858       | 1079       |                | -10%              | 712                             | 802        | 947         | 1074         |
|                     |                |                 |             | 35 - 65 Min. Input | +10%                            | 605       | 715       | 812        | 1st Stage      | +10%              | 605                             | 715        | 812         | 934          |
|                     |                |                 |             |                    | -7.5%                           | 606       | 806       | 1006       |                | Default           | 571                             | 662        | 735         | 820          |
|                     |                |                 |             |                    | -15%                            | 576       | 754       | 933        |                | -10%              | 530                             | 602        | 673         | 725          |

Note:

\*\* See installation instructions for proper blower set up

**BLOWER PERFORMANCE DATA: SIDE INLET WITH RETURN AIR BASE**

|                     | Model          | Motor Size (hp) | Blower Size | Temp Rise F°       | Heating CFM @ 0" - 0.5" w.c. |           |           |            | Cooling Stages | Speed Adjust-ment | Cooling CFM @ 0" - 0.8" w.c. |            |             |              |
|---------------------|----------------|-----------------|-------------|--------------------|------------------------------|-----------|-----------|------------|----------------|-------------------|------------------------------|------------|-------------|--------------|
|                     |                |                 |             |                    | **                           | 40% Input | 70% Input | 100% Input |                |                   | Low                          | Medium Low | Medium High | High Default |
| UPFLOW / HORIZONTAL | A97USMV090C16S | 3/4 HP          | 11 x 11     | 50 - 80 Max. Input | +15%                         | 828       | 1213      | 1597       | 2nd Stage      | +10%              | 1162                         | 1360       | 1533        | 1742         |
|                     |                |                 |             |                    | +7.5%                        | 766       | 1132      | 1499       |                | Default           | 1064                         | 1240       | 1400        | 1594         |
|                     |                |                 |             |                    | Default                      | 703       | 1052      | 1401       |                | -10%              | 928                          | 1133       | 1298        | 1441         |
|                     |                |                 |             | 35 - 65 Min. Input | +10%                         | 844       | 955       | 1124       | 1st Stage      | +10%              | 844                          | 955        | 1124        | 1280         |
|                     |                |                 |             |                    | Default                      | 775       | 910       | 1011       |                | Default           | 775                          | 910        | 1011        | 1173         |
|                     |                |                 |             |                    | -10%                         | 695       | 816       | 932        |                | -10%              | 695                          | 816        | 932         | 1045         |
|                     | A97USMV090C20S | 1 HP            | 11 x 11     | 60 - 90 Max. Input | +15%                         | 686       | 1138      | 1589       | 2nd Stage      | +10%              | 1329                         | 1560       | 1740        | 1982         |
|                     |                |                 |             |                    | +7.5%                        | 626       | 1060      | 1494       |                | Default           | 1177                         | 1414       | 1586        | 1807         |
|                     |                |                 |             |                    | Default                      | 566       | 983       | 1399       |                | -10%              | 1044                         | 1261       | 1432        | 1619         |
|                     |                |                 |             | 35 - 65 Min. Input | +10%                         | 913       | 1037      | 1230       | 1st Stage      | +10%              | 913                          | 1037       | 1230        | 1415         |
|                     |                |                 |             |                    | Default                      | 827       | 953       | 1088       |                | Default           | 827                          | 953        | 1088        | 1278         |
|                     |                |                 |             |                    | -10%                         | 741       | 855       | 995        |                | -10%              | 741                          | 855        | 995         | 1117         |
|                     | A97USMV110C20S | 1 HP            | 11 x 11     | 50 - 80 Max. Input | +15%                         | 893       | 1419      | 1945       | 2nd Stage      | +10%              | 1268                         | 1487       | 1726        | 1913         |
|                     |                |                 |             |                    | +7.5%                        | 814       | 1329      | 1843       |                | Default           | 1158                         | 1369       | 1568        | 1764         |
|                     |                |                 |             |                    | Default                      | 736       | 1238      | 1741       |                | -10%              | 1030                         | 1224       | 1393        | 1575         |
|                     |                |                 |             | 35 - 65 Min. Input | +10%                         | 918       | 1022      | 1205       | 1st Stage      | +10%              | 918                          | 1022       | 1205        | 1371         |
|                     |                |                 |             |                    | Default                      | 839       | 955       | 1084       |                | Default           | 839                          | 955        | 1084        | 1235         |
|                     |                |                 |             |                    | -10%                         | 760       | 865       | 984        |                | -10%              | 760                          | 865        | 984         | 1109         |
|                     | A97USMV135D20S | 1 HP            | 11 x 11     | 50 - 80 Max. Input | +15%                         | 992       | 1487      | 1983       | 2nd Stage      | +10%              | 1303                         | 1536       | 1687        | 1975         |
|                     |                |                 |             |                    | +7.5%                        | 907       | 1382      | 1858       |                | Default           | 1164                         | 1380       | 1584        | 1762         |
|                     |                |                 |             |                    | Default                      | 822       | 1277      | 1732       |                | -10%              | 1065                         | 1252       | 1404        | 1604         |
|                     |                |                 |             | 35 - 65 Min. Input | +10%                         | 918       | 1061      | 1214       | 1st Stage      | +10%              | 918                          | 1061       | 1214        | 1382         |
|                     |                |                 |             |                    | Default                      | 829       | 960       | 1091       |                | Default           | 829                          | 960        | 1091        | 1265         |
|                     |                |                 |             |                    | -10%                         | 739       | 858       | 991        |                | -10%              | 739                          | 858        | 991         | 1116         |

**BLOWER PERFORMANCE DATA: RETURN INLET**

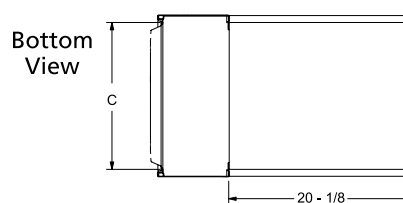
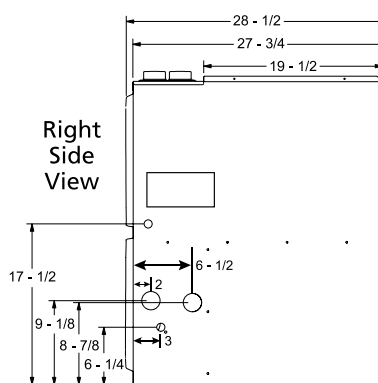
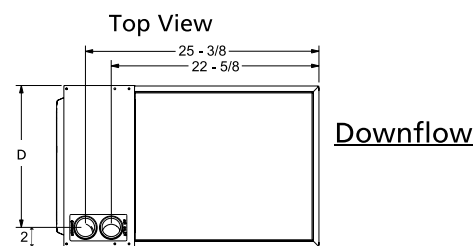
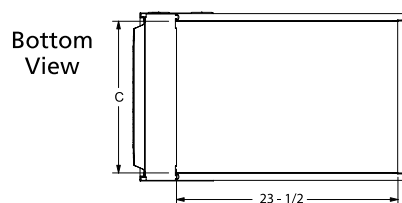
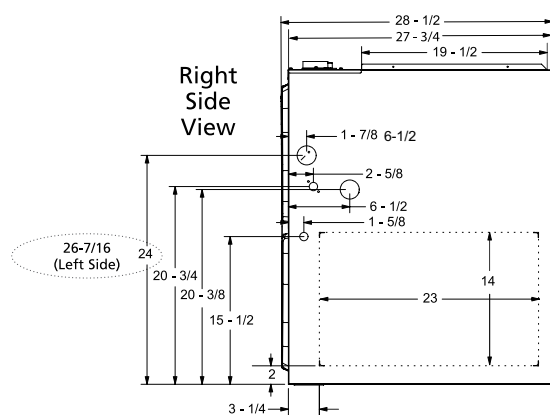
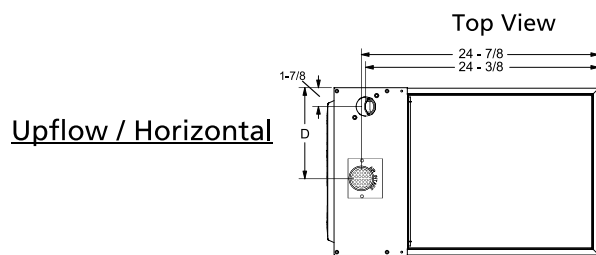
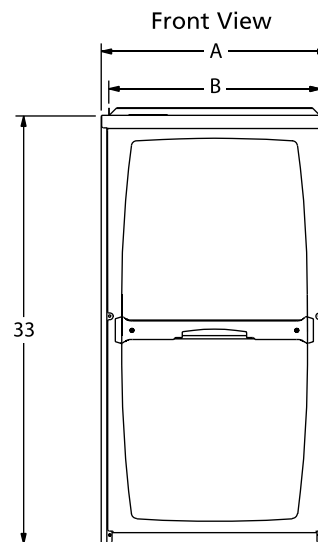
|          | Model          | Motor Size (hp) | Blower Size | Temp Rise F°       | Heating CFM @ 0" - 0.5" w.c. |           |           |            | Cooling Stages | Speed Adjust-ment | Cooling CFM @ 0" - 0.8" w.c. |            |             |              |
|----------|----------------|-----------------|-------------|--------------------|------------------------------|-----------|-----------|------------|----------------|-------------------|------------------------------|------------|-------------|--------------|
|          |                |                 |             |                    | **                           | 40% Input | 70% Input | 100% Input |                |                   | Low                          | Medium Low | Medium High | High Default |
| DOWNFLOW | A97DSMV070B12S | 1/2 HP          | 10 x 9      | 50 - 80 Max. Input | +15%                         | 543       | 830       | 1118       | 2nd Stage      | +10%              | 910                          | 1075       | 1232        | 1366         |
|          |                |                 |             |                    | +7.5%                        | 516       | 778       | 1041       |                | Default           | 846                          | 963        | 1126        | 1267         |
|          |                |                 |             |                    | Default                      | 489       | 726       | 963        |                | -10%              | 759                          | 889        | 986         | 1154         |
|          |                |                 |             | 35 - 65 Min. Input | +10%                         | 625       | 788       | 890        | 1st Stage      | +10%              | 625                          | 788        | 890         | 998          |
|          |                |                 |             |                    | Default                      | 573       | 711       | 830        |                | Default           | 573                          | 711        | 830         | 894          |
|          |                |                 |             |                    | -10%                         | 520       | 619       | 714        |                | -10%              | 520                          | 619        | 714         | 822          |
|          | A97DSMV090C16S | 1/2 HP          | 10 x 9      | 60 - 90 Max. Input | +15%                         | 756       | 1033      | 1309       | 2nd Stage      | +10%              | 924                          | 1083       | 1218        | 1386         |
|          |                |                 |             |                    | +7.5%                        | 713       | 971       | 1230       |                | Default           | 835                          | 1000       | 1136        | 1259         |
|          |                |                 |             |                    | Default                      | 669       | 910       | 1150       |                | -10%              | 751                          | 890        | 1028        | 1145         |
|          |                |                 |             | 35 - 65 Min. Input | +10%                         | 610       | 771       | 902        | 1st Stage      | +10%              | 610                          | 771        | 902         | 1035         |
|          |                |                 |             |                    | Default                      | 549       | 690       | 808        |                | Default           | 549                          | 690        | 808         | 923          |
|          |                |                 |             |                    | -10%                         | 466       | 623       | 721        |                | -10%              | 466                          | 623        | 721         | 812          |
|          | A97DSMV090C20S | 1 HP            | 11 x 11     | 50 - 80 Max. Input | +15%                         | 728       | 1176      | 1625       | 2nd Stage      | +10%              | 1337                         | 1601       | 1752        | 1982         |
|          |                |                 |             |                    | +7.5%                        | 673       | 1092      | 1512       |                | Default           | 1225                         | 1449       | 1629        | 1830         |
|          |                |                 |             |                    | Default                      | 618       | 1009      | 1399       |                | -10%              | 1119                         | 1269       | 1448        | 1664         |
|          |                |                 |             | 35 - 65 Min. Input | +10%                         | 956       | 1114      | 1265       | 1st Stage      | +10%              | 956                          | 1114       | 1265        | 1449         |
|          |                |                 |             |                    | Default                      | 855       | 1004      | 1148       |                | Default           | 855                          | 1004       | 1148        | 1286         |
|          |                |                 |             |                    | -10%                         | 753       | 888       | 1063       |                | -10%              | 753                          | 888        | 1063        | 1172         |
|          | A97DSMV110C20S | 1 HP            | 11 x 11     | 50 - 80 Max. Input | +15%                         | 906       | 1475      | 2045       | 2nd Stage      | +10%              | 1337                         | 1583       | 1792        | 2011         |
|          |                |                 |             |                    | +7.5%                        | 835       | 1380      | 1926       |                | Default           | 1222                         | 1440       | 1629        | 1867         |
|          |                |                 |             |                    | Default                      | 764       | 1285      | 1807       |                | -10%              | 1098                         | 1273       | 1473        | 1678         |
|          |                |                 |             | 35 - 65 Min. Input | +10%                         | 922       | 1093      | 1264       | 1st Stage      | +10%              | 922                          | 1093       | 1264        | 1442         |
|          |                |                 |             |                    | Default                      | 830       | 965       | 1129       |                | Default           | 830                          | 965        | 1129        | 1289         |
|          |                |                 |             |                    | -10%                         | 738       | 860       | 1034       |                | -10%              | 738                          | 860        | 1034        | 1156         |

Note:

\*\* See installation instructions for proper blower set up

### DIMENSIONS (IN.)

|                   | Model          | A      | B      | C      | D      |
|-------------------|----------------|--------|--------|--------|--------|
| UPFLOW/HORIZONTAL | A97USMV070B12S | 17-1/2 | 16-3/8 | 16     | 7-5/8  |
|                   | A97USMV090C12S | 21     | 19-7/8 | 19-1/2 | 9-3/8  |
|                   | A97USMV090C16S | 21     | 19-7/8 | 19-1/2 | 9-3/8  |
|                   | A97USMV090C20S | 21     | 19-7/8 | 19-1/2 | 9-3/8  |
|                   | A97USMV110C20S | 21     | 19-7/8 | 19-1/2 | 9-3/8  |
|                   | A97USMV135D20S | 24-1/2 | 23-3/8 | 23     | 11-1/8 |
| DOWNFLOW          | A97DSMV070B12S | 17-1/2 | 16-3/8 | 16     | 15-1/2 |
|                   | A97DSMV090C16S | 21     | 19-7/8 | 19-1/2 | 19     |
|                   | A97DSMV090C20S | 21     | 19-7/8 | 19-1/2 | 19     |
|                   | A97DSMV110C20S | 21     | 19-7/8 | 19-1/2 | 19     |



# A962V

## PRODUCT SPECIFICATIONS

## TWO STAGE VARIABLE SPEED GAS FURNACE

FORM NO. A962V-100 (10/2018)



### VENTING

- Vent materials for Canadian applications must comply with ULC 5636
- Certified for direct vent (2-pipe) and in-direct (1-pipe) applications.

### INSTALLATION FEATURES

- Left and right utility connections
- Removable floor base for bottom return air
- All models comply with California's South Coast Air Quality Management district Low NOx requirements
- Zero step horizontal conversion

### WARRANTY

10 year limited parts warranty / lifetime heat exchanger warranty available. See limited warranty document for details.

#### *California Only*

*If installed in South Coast Air Quality Management District (SCAQMD) only: This furnace does not meet the SCAQMD Rule 1111 NOx emission limit (14 ng/J), and thus is subject to a mitigation fee of up to \$450. This furnace is not eligible for the Clean Air Furnace Rebate Program: [www.CleanAirFurnaceRebate.com](http://www.CleanAirFurnaceRebate.com).*

*If installed in San Joaquin Valley Air Pollution Control District (SJVAPCD) only: This furnace does not meet the SJVAPCD Rule 4905 NOx emission limit (14 ng/J), and thus is subject to a mitigation fee of up to \$450.*

### CONFIGURATIONS

- Upflow / Horizontal
- Downflow

### HEAT EXCHANGER DESIGN

- 409 Stainless steel primary heat exchanger with crimped non-welded construction
- AL29-4C Stainless steel secondary heat exchanger

### CABINET DESIGN

- Compact 33" height
- Standardized widths for easy coil fit

### AIR DELIVERY SYSTEM

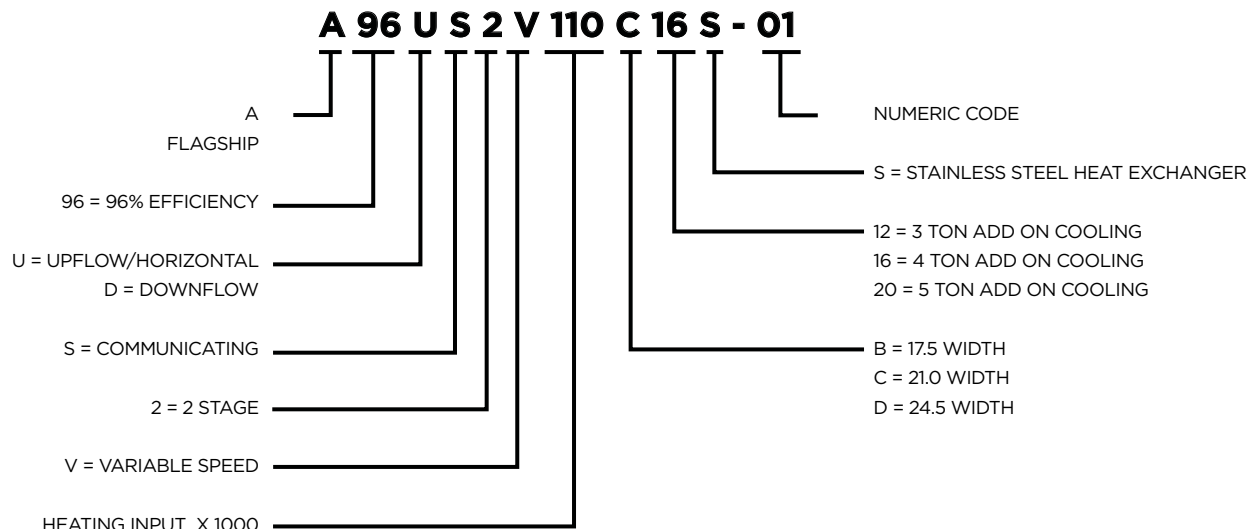
- ECM Variable speed blower motor
- Easily removable slide out blower design

### CONTROLS

- Comfort Sync communicating thermostat compatible
- Two stage gas valve
- Self diagnostics saves last 5 fault codes regardless of power interruption



## MODEL NUMBER GUIDE



## PHYSICAL AND ELECTRICAL DATA

|                   | Model          | 1st Stage    |                | 2nd Stage    |                | AFUE (ICS) | Nominal Cooling Capacity | Gas Inlet (in.) | Volts/Hz/Phase | Max. Time Delay Breaker or Fuse | Nominal F.L.A. | Trans. (V.A.) | Approx. Shipping Weight (lbs.) |
|-------------------|----------------|--------------|----------------|--------------|----------------|------------|--------------------------|-----------------|----------------|---------------------------------|----------------|---------------|--------------------------------|
|                   |                | Input (Btuh) | Output* (Btuh) | Input (Btuh) | Output* (Btuh) |            |                          |                 |                |                                 |                |               |                                |
| UPFLOW/HORIZONTAL | A96US2V045B12S | 29,000       | 28,000         | 44,000       | 42,000         | 96.0       | 3                        | 1/2             | 120-60-1       | 15                              | 7.7            | 40            | 130                            |
|                   | A96US2V070B12S | 43,000       | 41,000         | 66,000       | 62,000         | 96.0       | 3                        | 1/2             | 120-60-1       | 15                              | 7.7            | 40            | 138                            |
|                   | A96US2V090C12S | 57,000       | 55,000         | 88,000       | 84,000         | 96.0       | 3                        | 1/2             | 120-60-1       | 15                              | 7.7            | 40            | 154                            |
|                   | A96US2V090C16S | 57,000       | 55,000         | 88,000       | 85,000         | 96.0       | 4                        | 1/2             | 120-60-1       | 15                              | 10.1           | 40            | 165                            |
|                   | A96US2V090C20S | 57,000       | 55,000         | 88,000       | 85,000         | 96.0       | 5                        | 1/2             | 120-60-1       | 20                              | 12.8           | 40            | 166                            |
|                   | A96US2V110C16S | 72,000       | 70,000         | 110,000      | 105,000        | 96.0       | 4                        | 1/2             | 120-60-1       | 15                              | 10.1           | 40            | 173                            |
|                   | A96US2V110C20S | 72,000       | 70,000         | 110,000      | 106,000        | 96.0       | 5                        | 1/2             | 120-60-1       | 20                              | 12.8           | 40            | 174                            |
|                   | A96US2V135D20S | 88,000       | 84,000         | 132,000      | 126,000        | 96.0       | 5                        | 1/2             | 120-60-1       | 20                              | 12.8           | 40            | 188                            |
| DOWNFLOW          | A96DS2V045B12S | 29,000       | 28,000         | 44,000       | 43,000         | 96.0       | 3                        | 1/2             | 120-60-1       | 15                              | 7.7            | 40            | 131                            |
|                   | A96DS2V070B16S | 43,000       | 42,000         | 66,000       | 64,000         | 96.0       | 4                        | 1/2             | 120-60-1       | 15                              | 10.1           | 40            | 136                            |
|                   | A96DS2V090C20S | 57,000       | 56,000         | 88,000       | 85,000         | 96.0       | 5                        | 1/2             | 120-60-1       | 20                              | 12.8           | 40            | 164                            |
|                   | A96DS2V110C20S | 72,000       | 70,000         | 110,000      | 106,000        | 96.0       | 5                        | 1/2             | 120-60-1       | 20                              | 12.8           | 40            | 176                            |

Note: For vent length and clearances to combustibles, please reference installation instructions.

\* Outputs shown are High Fire, 100% rate, Low Fire is 67% of shown output.

## FILTER REQUIREMENT DATA

- The Airflow Descriptor is the two digits following the "B", "C", or "D" in the model number; e.g. "20" is the Airflow Descriptor.
- Areas shown for permanent filters are based on filters rated at 600 feet per minute face velocity.

| Airflow Descriptor | Disposable Filters     | Cleanable Filters     |
|--------------------|------------------------|-----------------------|
|                    | Minimum Area (sq. in.) | Minimum Area (sq.in.) |
| 12                 | 576                    | 288                   |
| 16                 | 768                    | 384                   |
| 20                 | 960                    | 480                   |

**BLOWER PERFORMANCE DATA - UPFLOW/HORIZONTAL**

| A96US2V045B12S<br><br>Motor Size: 1/2 HP<br>Blwr Size: 10 x 9 |         | LOW FIRE HEATING - SCFM<br>[TEMP RISE: 20 - 50 F°]* |      |         |         |          |      |      |      | HIGH FIRE HEATING - SCFM<br>[TEMP RISE: 35 - 65 F°]* |      |         |         |          |      |      |      |
|---------------------------------------------------------------|---------|-----------------------------------------------------|------|---------|---------|----------|------|------|------|------------------------------------------------------|------|---------|---------|----------|------|------|------|
|                                                               | Adj.    | -18%                                                | -12% | -6%     | Default | +6%      | +12% | +18% | +24% | -18%                                                 | -12% | -6%     | Default | +6%      | +12% | +18% | +24% |
|                                                               |         | 595                                                 | 638  | 682     | 725     | 769      | 812  | 856  | 899  | 738                                                  | 792  | 846     | 900     | 954      | 1008 | 1062 | 1116 |
|                                                               |         | FIRST STAGE COOLING - SCFM                          |      |         |         |          |      |      |      | SECOND STAGE COOLING - SCFM                          |      |         |         |          |      |      |      |
|                                                               | Speed   | Low                                                 |      | Med Low |         | Med High |      | High |      | Low                                                  |      | Med Low |         | Med High |      | High |      |
|                                                               | +10%    | 605                                                 |      | 743     |         | 853      |      | 963  |      | 880                                                  |      | 1045    |         | 1210     |      | 1375 |      |
|                                                               | Default | 550                                                 |      | 675     |         | 775      |      | 875  |      | 800                                                  |      | 950     |         | 1100     |      | 1250 |      |
|                                                               | -10%    | 495                                                 |      | 608     |         | 698      |      | 788  |      | 720                                                  |      | 855     |         | 990      |      | 1125 |      |

| A96US2V070B12S<br><br>Motor Size: 1/2 HP<br>Blwr Size: 10 x 9 |         | LOW FIRE HEATING - SCFM<br>[TEMP RISE: 25 - 55 F°]* |      |         |         |          |      |      |      | HIGH FIRE HEATING - SCFM<br>[TEMP RISE: 50 - 80 F°]* |      |         |         |          |      |      |      |
|---------------------------------------------------------------|---------|-----------------------------------------------------|------|---------|---------|----------|------|------|------|------------------------------------------------------|------|---------|---------|----------|------|------|------|
|                                                               | Adj.    | -18%                                                | -12% | -6%     | Default | +6%      | +12% | +18% | +24% | -18%                                                 | -12% | -6%     | Default | +6%      | +12% | +18% | +24% |
|                                                               |         | 718                                                 | 770  | 823     | 875     | 928      | 980  | 1033 | 1085 | 800                                                  | 858  | 917     | 975     | 1034     | 1092 | 1151 | 1209 |
|                                                               |         | FIRST STAGE COOLING - SCFM                          |      |         |         |          |      |      |      | SECOND STAGE COOLING - SCFM                          |      |         |         |          |      |      |      |
|                                                               | Speed   | Low                                                 |      | Med Low |         | Med High |      | High |      | Low                                                  |      | Med Low |         | Med High |      | High |      |
|                                                               | +10%    | 605                                                 |      | 743     |         | 853      |      | 963  |      | 880                                                  |      | 1045    |         | 1210     |      | 1375 |      |
|                                                               | Default | 550                                                 |      | 675     |         | 775      |      | 875  |      | 800                                                  |      | 950     |         | 1100     |      | 1250 |      |
|                                                               | -10%    | 495                                                 |      | 608     |         | 698      |      | 788  |      | 720                                                  |      | 855     |         | 990      |      | 1125 |      |

| A96US2V090C12S<br><br>Motor Size: 1/2 HP<br>Blwr Size: 10 x 9 |         | LOW FIRE HEATING - SCFM<br>[TEMP RISE: 30 - 60 F°]* |      |         |         |          |      |      |      | HIGH FIRE HEATING - SCFM<br>[TEMP RISE: 60 - 90 F°]* |      |         |         |          |      |      |      |
|---------------------------------------------------------------|---------|-----------------------------------------------------|------|---------|---------|----------|------|------|------|------------------------------------------------------|------|---------|---------|----------|------|------|------|
|                                                               | Adj.    | -18%                                                | -12% | -6%     | Default | +6%      | +12% | +18% | +24% | -18%                                                 | -12% | -6%     | Default | +6%      | +12% | +18% | +24% |
|                                                               |         | 800                                                 | 858  | 917     | 975     | 1034     | 1092 | 1151 | 1209 | 861                                                  | 924  | 987     | 1050    | 1113     | 1176 | 1239 | 1302 |
|                                                               |         | FIRST STAGE COOLING - SCFM                          |      |         |         |          |      |      |      | SECOND STAGE COOLING - SCFM                          |      |         |         |          |      |      |      |
|                                                               | Speed   | Low                                                 |      | Med Low |         | Med High |      | High |      | Low                                                  |      | Med Low |         | Med High |      | High |      |
|                                                               | +10%    | 605                                                 |      | 743     |         | 853      |      | 963  |      | 880                                                  |      | 1045    |         | 1210     |      | 1375 |      |
|                                                               | Default | 550                                                 |      | 675     |         | 775      |      | 875  |      | 800                                                  |      | 950     |         | 1100     |      | 1250 |      |
|                                                               | -10%    | 495                                                 |      | 608     |         | 698      |      | 788  |      | 720                                                  |      | 855     |         | 990      |      | 1125 |      |

| A96US2V090C16S<br><br>Motor Size: 3/4 HP<br>Blwr Size: 11 x 11 |         | LOW FIRE HEATING - SCFM<br>[TEMP RISE: 30 - 60 F°]* |      |         |         |          |      |      |      | HIGH FIRE HEATING - SCFM<br>[TEMP RISE: 45 - 75 F°]* |      |         |         |          |      |      |      |
|----------------------------------------------------------------|---------|-----------------------------------------------------|------|---------|---------|----------|------|------|------|------------------------------------------------------|------|---------|---------|----------|------|------|------|
|                                                                | Adj.    | -18%                                                | -12% | -6%     | Default | +6%      | +12% | +18% | +24% | -18%                                                 | -12% | -6%     | Default | +6%      | +12% | +18% | +24% |
|                                                                |         | 943                                                 | 1012 | 1081    | 1150    | 1219     | 1288 | 1357 | 1426 | 1046                                                 | 1122 | 1199    | 1275    | 1352     | 1428 | 1505 | 1581 |
|                                                                |         | FIRST STAGE COOLING - SCFM                          |      |         |         |          |      |      |      | SECOND STAGE COOLING - SCFM                          |      |         |         |          |      |      |      |
|                                                                | Speed   | Low                                                 |      | Med Low |         | Med High |      | High |      | Low                                                  |      | Med Low |         | Med High |      | High |      |
|                                                                | +10%    | 770                                                 |      | 935     |         | 1073     |      | 1238 |      | 1100                                                 |      | 1320    |         | 1540     |      | 1760 |      |
|                                                                | Default | 700                                                 |      | 850     |         | 975      |      | 1125 |      | 1000                                                 |      | 1200    |         | 1400     |      | 1600 |      |
|                                                                | -10%    | 630                                                 |      | 765     |         | 878      |      | 1013 |      | 900                                                  |      | 1080    |         | 1260     |      | 1440 |      |

| A96US2V090C20S<br><br>Motor Size: 1 HP<br>Blwr Size: 11 x 11 |         | LOW FIRE HEATING - SCFM<br>[TEMP RISE: 30 - 60 F°]* |      |         |         |          |      |      |      | HIGH FIRE HEATING - SCFM<br>[TEMP RISE: 40 - 70 F°]* |      |         |         |          |      |      |      |
|--------------------------------------------------------------|---------|-----------------------------------------------------|------|---------|---------|----------|------|------|------|------------------------------------------------------|------|---------|---------|----------|------|------|------|
|                                                              | Adj.    | -18%                                                | -12% | -6%     | Default | +6%      | +12% | +18% | +24% | -18%                                                 | -12% | -6%     | Default | +6%      | +12% | +18% | +24% |
|                                                              |         | 943                                                 | 1012 | 1081    | 1150    | 1219     | 1288 | 1357 | 1426 | 1271                                                 | 1364 | 1457    | 1550    | 1643     | 1736 | 1829 | 1922 |
|                                                              |         | FIRST STAGE COOLING - SCFM                          |      |         |         |          |      |      |      | SECOND STAGE COOLING - SCFM                          |      |         |         |          |      |      |      |
|                                                              | Speed   | Low                                                 |      | Med Low |         | Med High |      | High |      | Low                                                  |      | Med Low |         | Med High |      | High |      |
|                                                              | +10%    | 935                                                 |      | 1073    |         | 1238     |      | 1403 |      | 1320                                                 |      | 1540    |         | 1760     |      | 2008 |      |
|                                                              | Default | 850                                                 |      | 975     |         | 1125     |      | 1275 |      | 1200                                                 |      | 1400    |         | 1600     |      | 1825 |      |
|                                                              | -10%    | 765                                                 |      | 878     |         | 1013     |      | 1148 |      | 1080                                                 |      | 1260    |         | 1440     |      | 1643 |      |

\* @ .10" - .80" w.c.



**BLOWER PERFORMANCE DATA - UPFLOW/HORIZONTAL**

| A96US2V110C16S<br><br>Motor Size: 3/4 HP<br>Blwr Size: 11 x 11 |         | LOW FIRE HEATING - SCFM<br>[TEMP RISE: 35 - 65 F°]* |      |         |         |          |      |      |      | HIGH FIRE HEATING - SCFM<br>[TEMP RISE: 60 - 90 F°]* |      |         |         |          |      |      |      |
|----------------------------------------------------------------|---------|-----------------------------------------------------|------|---------|---------|----------|------|------|------|------------------------------------------------------|------|---------|---------|----------|------|------|------|
|                                                                | Adj.    | -18%                                                | -12% | -6%     | Default | +6%      | +12% | +18% | +24% | -18%                                                 | -12% | -6%     | Default | +6%      | +12% | +18% | +24% |
|                                                                |         | 1005                                                | 1078 | 1152    | 1225    | 1299     | 1372 | 1446 | 1519 | 1066                                                 | 1144 | 1222    | 1300    | 1378     | 1456 | 1534 | 1612 |
|                                                                |         | FIRST STAGE COOLING - SCFM                          |      |         |         |          |      |      |      | SECOND STAGE COOLING - SCFM                          |      |         |         |          |      |      |      |
|                                                                | Speed   | Low                                                 |      | Med Low |         | Med High |      | High |      | Low                                                  |      | Med Low |         | Med High |      | High |      |
|                                                                | +10%    | 770                                                 |      | 935     |         | 1073     |      | 1238 |      | 1100                                                 |      | 1320    |         | 1540     |      | 1760 |      |
|                                                                | Default | 700                                                 |      | 850     |         | 975      |      | 1125 |      | 1000                                                 |      | 1200    |         | 1400     |      | 1600 |      |
|                                                                | -10%    | 630                                                 |      | 765     |         | 878      |      | 1013 |      | 900                                                  |      | 1080    |         | 1260     |      | 1440 |      |

| A96US2V110C20S<br><br>Motor Size: 1 HP<br>Blwr Size: 11 x 11 |         | LOW FIRE HEATING - SCFM<br>[TEMP RISE: 35 - 65 F°]* |      |         |         |          |      |      |      | HIGH FIRE HEATING - SCFM<br>[TEMP RISE: 45 - 75 F°]* |      |         |         |          |      |      |      |
|--------------------------------------------------------------|---------|-----------------------------------------------------|------|---------|---------|----------|------|------|------|------------------------------------------------------|------|---------|---------|----------|------|------|------|
|                                                              | Adj.    | -18%                                                | -12% | -6%     | Default | +6%      | +12% | +18% | +24% | -18%                                                 | -12% | -6%     | Default | +6%      | +12% | +18% | +24% |
|                                                              |         | 1005                                                | 1078 | 1152    | 1225    | 1299     | 1372 | 1446 | 1519 | 1333                                                 | 1430 | 1528    | 1625    | 1723     | 1820 | 1918 | 2015 |
|                                                              |         | FIRST STAGE COOLING - SCFM                          |      |         |         |          |      |      |      | SECOND STAGE COOLING - SCFM                          |      |         |         |          |      |      |      |
|                                                              | Speed   | Low                                                 |      | Med Low |         | Med High |      | High |      | Low                                                  |      | Med Low |         | Med High |      | High |      |
|                                                              | +10%    | 935                                                 |      | 1073    |         | 1238     |      | 1403 |      | 1320                                                 |      | 1540    |         | 1760     |      | 2008 |      |
|                                                              | Default | 850                                                 |      | 975     |         | 1125     |      | 1275 |      | 1200                                                 |      | 1400    |         | 1600     |      | 1825 |      |
|                                                              | -10%    | 765                                                 |      | 878     |         | 1013     |      | 1148 |      | 1080                                                 |      | 1260    |         | 1440     |      | 1643 |      |

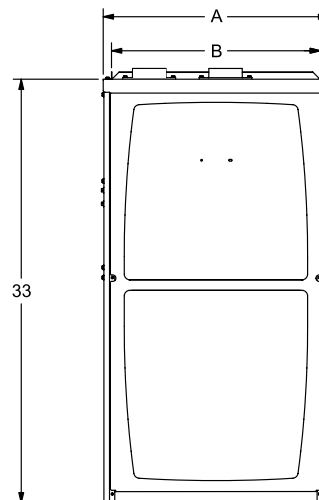
| A96US2V135D20S<br><br>Motor Size: 1 HP<br>Blwr Size: 11 x 11 |         | LOW FIRE HEATING - SCFM<br>[TEMP RISE: 40 - 70 F°]* |      |         |         |          |      |      |      | HIGH FIRE HEATING - SCFM<br>[TEMP RISE: 55 - 85 F°]* |      |         |         |          |      |      |      |
|--------------------------------------------------------------|---------|-----------------------------------------------------|------|---------|---------|----------|------|------|------|------------------------------------------------------|------|---------|---------|----------|------|------|------|
|                                                              | Adj.    | -18%                                                | -12% | -6%     | Default | +6%      | +12% | +18% | +24% | -18%                                                 | -12% | -6%     | Default | +6%      | +12% | +18% | +24% |
|                                                              |         | 1128                                                | 1210 | 1293    | 1375    | 1458     | 1540 | 1623 | 1705 | 1374                                                 | 1474 | 1575    | 1675    | 1776     | 1876 | 1977 | 2077 |
|                                                              |         | FIRST STAGE COOLING - SCFM                          |      |         |         |          |      |      |      | SECOND STAGE COOLING - SCFM                          |      |         |         |          |      |      |      |
|                                                              | Speed   | Low                                                 |      | Med Low |         | Med High |      | High |      | Low                                                  |      | Med Low |         | Med High |      | High |      |
|                                                              | +10%    | 935                                                 |      | 1073    |         | 1238     |      | 1403 |      | 1320                                                 |      | 1540    |         | 1760     |      | 2008 |      |
|                                                              | Default | 850                                                 |      | 975     |         | 1125     |      | 1275 |      | 1200                                                 |      | 1400    |         | 1600     |      | 1825 |      |
|                                                              | -10%    | 765                                                 |      | 878     |         | 1013     |      | 1148 |      | 1080                                                 |      | 1260    |         | 1440     |      | 1643 |      |

\* @ .10" - .80" w.c.

## DIMENSIONS

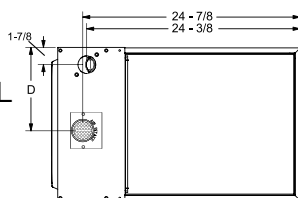
|                   | Model          | A      | B      | C      | D      |
|-------------------|----------------|--------|--------|--------|--------|
| UPFLOW/HORIZONTAL | A96US2V045B12S | 17-1/2 | 16-3/8 | 16     | 7-5/8  |
|                   | A96US2V070B12S | 17-1/2 | 16-3/8 | 16     | 7-5/8  |
|                   | A96US2V090C12S | 21     | 19-7/8 | 19-1/2 | 9-3/8  |
|                   | A96US2V090C16S | 21     | 19-7/8 | 19-1/2 | 9-3/8  |
|                   | A96US2V090C20S | 21     | 19-7/8 | 19-1/2 | 9-3/8  |
|                   | A96US2V110C16S | 21     | 19-7/8 | 19-1/2 | 9-3/8  |
|                   | A96US2V110C20S | 21     | 19-7/8 | 19-1/2 | 9-3/8  |
|                   | A96US2V135D20S | 24-1/2 | 23-3/8 | 23     | 11-1/8 |
| DOWNFLOW          | A96DS2V045B12S | 17-1/2 | 16-3/8 | 16     | 15-1/2 |
|                   | A96DS2V070B16S | 17-1/2 | 16-3/8 | 16     | 15-1/2 |
|                   | A96DS2V090C20S | 21     | 19-7/8 | 19-1/2 | 19     |
|                   | A96DS2V110C20S | 21     | 19-7/8 | 19-1/2 | 19     |

FRONT VIEW



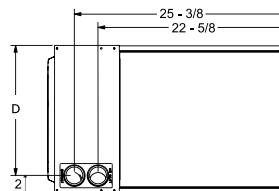
TOP VIEW

UPFLOW / HORIZONTAL

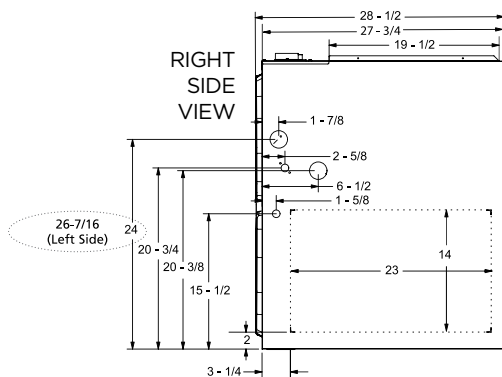


TOP VIEW

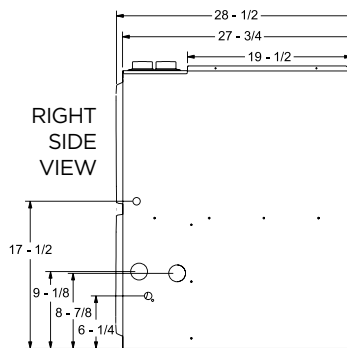
DOWNFLOW



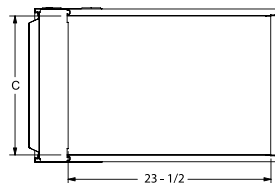
RIGHT SIDE VIEW



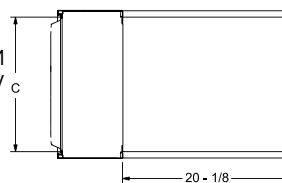
RIGHT SIDE VIEW



BOTTOM VIEW



BOTTOM VIEW



# A962E

## PRODUCT SPECIFICATIONS

## TWO STAGE HIGH EFFICIENCY CONSTANT TORQUE GAS FURNACE

FORM NO. A962E-100 (10/2018)



### CONFIGURATIONS

- Upflow / Horizontal
- Downflow

### HEAT EXCHANGER DESIGN

- 409 Stainless steel primary heat exchanger with crimped non-welded construction
- AL29-4C Stainless steel secondary heat exchanger

### BURNERS

- Aluminized steel in shot burners for smooth ignition
- Isolated burner enclosure for quiet operation

### CABINET CONSTRUCTION

- Compact 33" height
- Standardized widths for easy coil fit

### AIR DELIVERY SYSTEM

- Constant torque ECM
- Efficient blower motor
- Easily removable slide-out blower design
- Dynamically balanced blower wheel with resilient motor mounts for smooth and quiet operation

### CONTROLS

- Two stage gas valve
- Integrated ignition and fan control
- System Sentry™ control retains last ten (10) fault codes with push button memory recall and 7 segment LED display, regardless of power interruption
- Hot surface ignition system uses silicon nitride ignitor
- Control features 120 volt electronic air cleaner and humidifier terminals
- Control circuit is fuse protected
- Color coded control wiring
- Compatible with single or two stage thermostats for heating  
Two stage thermostat is recommended when installed with two stage cooling unit.

### VENTING

- 2-speed induced draft motor with stainless steel shaft, steel ball bearings, and fan cooled for long life
- Vent materials for Canadian applications must comply with ULC S636
- Certified for direct vent and indirect vent (1 and 2 pipe) applications

### INSTALLATION FEATURES

- Left or right gas and electric entry
- Zero step horizontal conversion
- Removable floor base (upflow/horizontal units) for bottom return air
- All models comply with California's South Coast Air Quality Management district Low NOx requirements

### WARRANTY

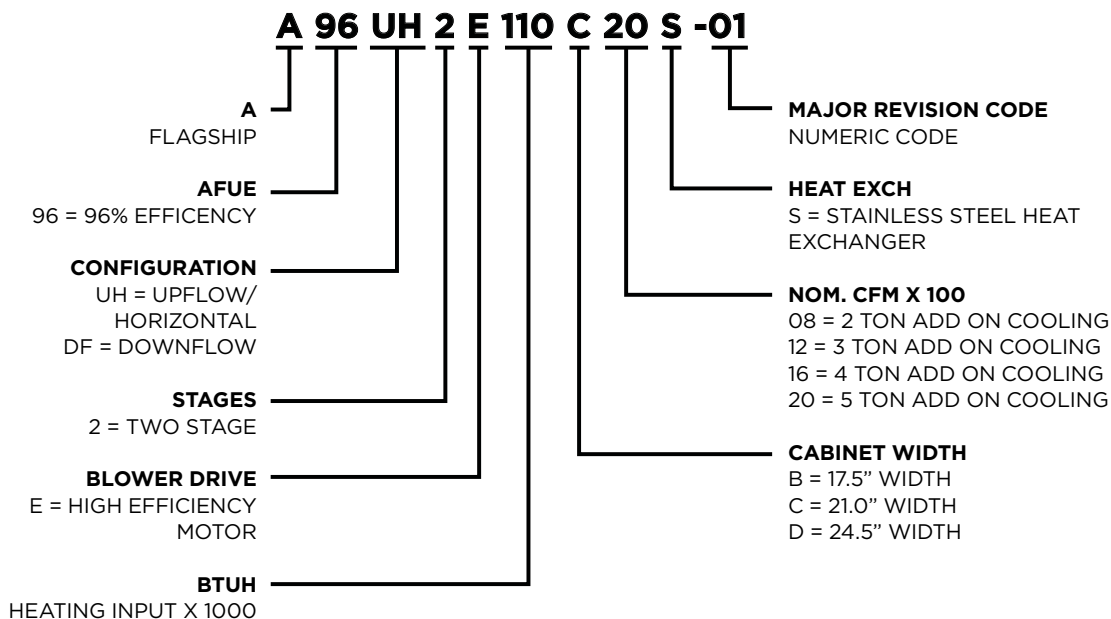
10 year limited parts warranty / lifetime heat exchanger warranty available. See limited warranty document for details.

*California Only*

*If installed in South Coast Air Quality Management District (SCAQMD) only:  
This furnace does not meet the SCAQMD Rule 1111 NOx emission limit (14 ng/J), and thus is subject to a mitigation fee of up to \$450. This furnace is not eligible for the Clean Air Furnace Rebate Program: [www.CleanAirFurnaceRebate.com](http://www.CleanAirFurnaceRebate.com).  
If installed in San Joaquin Valley Air Pollution Control District (SJVAPCD) only:  
This furnace does not meet the SJVAPCD Rule 4905 NOx emission limit (14 ng/J), and thus is subject to a mitigation fee of up to \$450.*



## MODEL NUMBER GUIDE



## PHYSICAL AND ELECTRICAL DATA

|                     | Model          | 1st Stage    |               | 2nd Stage    |               | AFUE (ICUS) | Nom. Cooling Capacity (tons) | Gas Inlet (in.) | Volts/Hz/Phase | Min. Time Delay Breaker or Fuse | Nominal F.L.A. | Trans. (V.A.) | Approx. Weight (lbs.) |
|---------------------|----------------|--------------|---------------|--------------|---------------|-------------|------------------------------|-----------------|----------------|---------------------------------|----------------|---------------|-----------------------|
|                     |                | Input (Btuh) | Output (Btuh) | Input (Btuh) | Output (Btuh) |             |                              |                 |                |                                 |                |               |                       |
| UPFLOW / HORIZONTAL | A96UH2E030B08S | 20,000       | 19,000        | 30,000       | 29,000        | 96.0        | 2                            | 1/2             | 120-60-1       | 15                              | 6.8            | 40            | 130                   |
|                     | A96UH2E045B12S | 29,000       | 28,000        | 44,000       | 42,000        | 96.0        | 3                            | 1/2             | 120-60-1       | 15                              | 6.8            | 40            | 130                   |
|                     | A96UH2E070B12S | 43,000       | 41,000        | 66,000       | 62,000        | 96.0        | 3                            | 1/2             | 120-60-1       | 15                              | 6.8            | 40            | 138                   |
|                     | A96UH2E090C16S | 57,000       | 55,000        | 88,000       | 85,000        | 96.0        | 4                            | 1/2             | 120-60-1       | 15                              | 8.4            | 40            | 166                   |
|                     | A96UH2E110C20S | 72,000       | 70,000        | 110,000      | 105,000       | 96.0        | 5                            | 1/2             | 120-60-1       | 15                              | 10.9           | 40            | 174                   |
| DOWNFLOW            | A96DF2E045B12S | 29,000       | 28,000        | 44,000       | 43,000        | 96.0        | 3                            | 1/2             | 120-60-1       | 15                              | ---            | 40            | 131                   |
|                     | A96DF2E070B16S | 43,000       | 42,000        | 66,000       | 64,000        | 96.0        | 4                            | 1/2             | 120-60-1       | 15                              | ---            | 40            | 138                   |
|                     | A96DF2E090C16S | 57,000       | 56,000        | 88,000       | 85,000        | 96.0        | 5                            | 1/2             | 120-60-1       | 20                              | 10.9           | 40            | 166                   |
|                     | A96DF2E110C20S | 72,000       | 70,000        | 110,000      | 106,000       | 96.0        | 5                            | 1/2             | 120-60-1       | 20                              | 10.9           | 40            | 176                   |

Note: For vent length and clearances to combustibles, please reference installation instructions.

## FILTER REQUIREMENT DATA

| Airflow Descriptor | Disposable Filters     | Cleanable Filters     |
|--------------------|------------------------|-----------------------|
|                    | Minimum Area (sq. in.) | Minimum Area (sq.in.) |
| 12                 | 576                    | 288                   |
| 16                 | 768                    | 384                   |
| 20                 | 960                    | 480                   |

1. The Airflow Descriptor is the two digits following the "B", "C", or "D" in the model number; e.g. "20" is the Airflow Descriptor.
2. Areas shown for permanent filters are based on filters rated at 600 feet per minute face velocity.

**BLOWER DATA: UPFLOW / HORIZONTAL**

| <b>A96UH2E030B08S PERFORMANCE (Less Filter)</b> |                                             |       |             |       |        |       |            |       |     |       |
|-------------------------------------------------|---------------------------------------------|-------|-------------|-------|--------|-------|------------|-------|-----|-------|
| External Static Pressure<br>in. w.c.            | Air Volume / Watts at Various Blower Speeds |       |             |       |        |       |            |       |     |       |
|                                                 | High                                        |       | Medium-High |       | Medium |       | Medium-Low |       | Low |       |
|                                                 | cfm                                         | Watts | cfm         | Watts | cfm    | Watts | cfm        | Watts | cfm | Watts |
| 0.00                                            | 1025                                        | 122   | 935         | 97    | 855    | 76    | 820        | 76    | 765 | 69    |
| 0.10                                            | 985                                         | 129   | 910         | 104   | 820    | 82    | 775        | 72    | 700 | 63    |
| 0.20                                            | 955                                         | 139   | 875         | 114   | 770    | 87    | 640        | 62    | 575 | 52    |
| 0.30                                            | 915                                         | 145   | 830         | 120   | 730    | 96    | 575        | 67    | 375 | 40    |
| 0.40                                            | 875                                         | 155   | 790         | 130   | 680    | 101   | 530        | 74    | 330 | 47    |
| 0.50                                            | 830                                         | 161   | 750         | 136   | 635    | 110   | 470        | 79    | 260 | 51    |
| 0.60                                            | 800                                         | 172   | 700         | 146   | 580    | 115   | 420        | 82    | 210 | 47    |
| 0.70                                            | 765                                         | 181   | 650         | 150   | 550    | 124   | 385        | 90    | 180 | 51    |
| 0.80                                            | 715                                         | 187   | 615         | 159   | 500    | 127   | 325        | 94    | 135 | 52    |

| <b>A96UH2E045B12S PERFORMANCE (Less Filter)</b> |                                             |       |             |       |        |       |            |       |     |       |
|-------------------------------------------------|---------------------------------------------|-------|-------------|-------|--------|-------|------------|-------|-----|-------|
| External Static Pressure<br>in. w.c.            | Air Volume / Watts at Various Blower Speeds |       |             |       |        |       |            |       |     |       |
|                                                 | High                                        |       | Medium-High |       | Medium |       | Medium-Low |       | Low |       |
|                                                 | cfm                                         | Watts | cfm         | Watts | cfm    | Watts | cfm        | Watts | cfm | Watts |
| 0.00                                            | 1345                                        | 340   | 1255        | 245   | 1150   | 185   | 895        | 105   | 845 | 95    |
| 0.10                                            | 1305                                        | 345   | 1225        | 250   | 1105   | 200   | 855        | 110   | 810 | 95    |
| 0.20                                            | 1290                                        | 360   | 1190        | 260   | 1080   | 205   | 825        | 120   | 780 | 105   |
| 0.30                                            | 1275                                        | 370   | 1150        | 270   | 1045   | 215   | 785        | 125   | 720 | 110   |
| 0.40                                            | 1220                                        | 385   | 1120        | 280   | 1015   | 220   | 735        | 135   | 690 | 120   |
| 0.50                                            | 1215                                        | 390   | 1090        | 290   | 980    | 230   | 705        | 140   | 635 | 125   |
| 0.60                                            | 1190                                        | 395   | 1060        | 300   | 950    | 240   | 650        | 150   | 600 | 135   |
| 0.70                                            | N/A                                         | N/A   | 1015        | 300   | 900    | 250   | 620        | 155   | 555 | 140   |
| 0.80                                            | N/A                                         | N/A   | 1000        | 310   | 870    | 260   | 580        | 160   | 520 | 145   |

| <b>A96UH2E070B12S PERFORMANCE (Less Filter)</b> |                                             |       |             |       |        |       |            |       |     |       |
|-------------------------------------------------|---------------------------------------------|-------|-------------|-------|--------|-------|------------|-------|-----|-------|
| External Static Pressure<br>in. w.c.            | Air Volume / Watts at Various Blower Speeds |       |             |       |        |       |            |       |     |       |
|                                                 | High                                        |       | Medium-High |       | Medium |       | Medium-Low |       | Low |       |
|                                                 | cfm                                         | Watts | cfm         | Watts | cfm    | Watts | cfm        | Watts | cfm | Watts |
| 0.00                                            | 1380                                        | 315   | 1305        | 250   | 1190   | 200   | 965        | 105   | 920 | 100   |
| 0.10                                            | 1360                                        | 325   | 1270        | 255   | 1180   | 205   | 915        | 115   | 865 | 100   |
| 0.20                                            | 1310                                        | 335   | 1250        | 265   | 1130   | 215   | 880        | 120   | 815 | 110   |
| 0.30                                            | 1275                                        | 340   | 1205        | 275   | 1100   | 225   | 835        | 125   | 775 | 115   |
| 0.40                                            | 1250                                        | 355   | 1175        | 280   | 1065   | 230   | 795        | 135   | 730 | 125   |
| 0.50                                            | 1215                                        | 370   | 1145        | 295   | 1045   | 240   | 745        | 145   | 670 | 130   |
| 0.60                                            | 1200                                        | 380   | 1100        | 310   | 995    | 245   | 705        | 150   | 640 | 140   |
| 0.70                                            | 1145                                        | 380   | 1070        | 310   | 960    | 255   | 670        | 160   | 585 | 145   |
| 0.80                                            | N/A                                         | N/A   | 1035        | 320   | 925    | 265   | 610        | 165   | 550 | 155   |

**BLOWER DATA: UPFLOW / HORIZONTAL**

| <b>A96UH2E090C16S PERFORMANCE (Less Filter)</b> |                                             |       |             |       |        |       |            |       |      |       |
|-------------------------------------------------|---------------------------------------------|-------|-------------|-------|--------|-------|------------|-------|------|-------|
| External Static Pressure in. w.c.               | Air Volume / Watts at Various Blower Speeds |       |             |       |        |       |            |       |      |       |
|                                                 | High                                        |       | Medium-High |       | Medium |       | Medium-Low |       | Low  |       |
|                                                 | cfm                                         | Watts | cfm         | Watts | cfm    | Watts | cfm        | Watts | cfm  | Watts |
| 0.00                                            | 1740                                        | 370   | 1505        | 250   | 1370   | 195   | 1285       | 160   | 1135 | 125   |
| 0.10                                            | 1695                                        | 390   | 1470        | 265   | 1325   | 205   | 1240       | 170   | 1090 | 135   |
| 0.20                                            | 1660                                        | 405   | 1435        | 280   | 1290   | 220   | 1195       | 185   | 1045 | 145   |
| 0.30                                            | 1615                                        | 415   | 1390        | 295   | 1240   | 235   | 1140       | 200   | 995  | 160   |
| 0.40                                            | 1590                                        | 425   | 1350        | 305   | 1200   | 245   | 1110       | 210   | 945  | 165   |
| 0.50                                            | 1560                                        | 440   | 1310        | 320   | 1155   | 260   | 1055       | 225   | 895  | 175   |
| 0.60                                            | 1525                                        | 455   | 1255        | 335   | 1105   | 270   | 1005       | 230   | 855  | 190   |
| 0.70                                            | 1475                                        | 470   | 1220        | 340   | 1065   | 285   | 960        | 245   | 805  | 200   |
| 0.80                                            | N/A                                         | N/A   | 1170        | 355   | 1010   | 295   | 920        | 255   | 760  | 210   |

| <b>A96UH2E110C20S PERFORMANCE (Less Filter)</b> |                                                                                                                                             |       |          |       |        |       |         |       |      |       |                                                                                                                                                                                    |            |             |            |        |       |         |       |      |       |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-------|----------|-------|--------|-------|---------|-------|------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------|------------|--------|-------|---------|-------|------|-------|
| External Static Pressure in. w.g.               | Air Volume / Watts at Different Blower Speeds                                                                                               |       |          |       |        |       |         |       |      |       |                                                                                                                                                                                    |            |             |            |        |       |         |       |      |       |
|                                                 | <b>Bottom Return Air, Side Return Air with Optional Return Air Base, Return Air from Both Sides or Return Air from Bottom and One Side.</b> |       |          |       |        |       |         |       |      |       | <b>Single Side Return Air</b> – Air volumes in <b>bold</b> require field fabricated transition to accommodate 20 x 25 x 1 in. air filter in order to maintain proper air velocity. |            |             |            |        |       |         |       |      |       |
|                                                 |                                                                                                                                             |       |          |       |        |       |         |       |      |       |                                                                                                                                                                                    |            |             |            |        |       |         |       |      |       |
|                                                 | High                                                                                                                                        |       | Med-High |       | Medium |       | Med-Low |       | Low  |       | High                                                                                                                                                                               |            | Med-High    |            | Medium |       | Med-Low |       | Low  |       |
|                                                 | cfm                                                                                                                                         | Watts | cfm      | Watts | cfm    | Watts | cfm     | Watts | cfm  | Watts | cfm                                                                                                                                                                                | Watts      | cfm         | Watts      | cfm    | Watts | cfm     | Watts | cfm  | Watts |
| 0.00                                            | 2220                                                                                                                                        | 645   | 1940     | 435   | 1765   | 335   | 1635    | 280   | 1435 | 200   | <b>2185</b>                                                                                                                                                                        | <b>655</b> | <b>1915</b> | <b>440</b> | 1745   | 340   | 1620    | 275   | 1430 | 195   |
| 0.10                                            | 2170                                                                                                                                        | 660   | 1920     | 460   | 1715   | 350   | 1595    | 290   | 1380 | 205   | <b>2160</b>                                                                                                                                                                        | <b>660</b> | <b>1880</b> | <b>460</b> | 1705   | 345   | 1570    | 285   | 1380 | 205   |
| 0.20                                            | 2130                                                                                                                                        | 680   | 1865     | 475   | 1670   | 370   | 1560    | 305   | 1345 | 220   | <b>2115</b>                                                                                                                                                                        | <b>680</b> | <b>1835</b> | <b>470</b> | 1670   | 365   | 1535    | 305   | 1325 | 220   |
| 0.30                                            | 2095                                                                                                                                        | 700   | 1835     | 490   | 1640   | 390   | 1525    | 325   | 1285 | 230   | <b>2060</b>                                                                                                                                                                        | <b>705</b> | 1795        | 495        | 1630   | 380   | 1505    | 320   | 1285 | 230   |
| 0.40                                            | 2065                                                                                                                                        | 720   | 1785     | 510   | 1600   | 405   | 1465    | 335   | 1250 | 245   | <b>2050</b>                                                                                                                                                                        | <b>720</b> | 1760        | 510        | 1570   | 400   | 1455    | 330   | 1235 | 245   |
| 0.50                                            | 2030                                                                                                                                        | 740   | 1755     | 525   | 1560   | 415   | 1425    | 355   | 1215 | 260   | <b>2000</b>                                                                                                                                                                        | <b>740</b> | 1720        | 530        | 1535   | 415   | 1410    | 345   | 1195 | 260   |
| 0.60                                            | 1995                                                                                                                                        | 760   | 1705     | 550   | 1525   | 435   | 1380    | 370   | 1150 | 270   | <b>1955</b>                                                                                                                                                                        | <b>760</b> | 1685        | 550        | 1505   | 435   | 1380    | 365   | 1145 | 275   |
| 0.70                                            | 1955                                                                                                                                        | 770   | 1660     | 560   | 1475   | 450   | 1350    | 375   | 1100 | 290   | <b>1935</b>                                                                                                                                                                        | <b>775</b> | 1650        | 555        | 1455   | 450   | 1325    | 375   | 1100 | 285   |
| 0.80                                            | 1930                                                                                                                                        | 790   | 1635     | 575   | 1445   | 460   | 1300    | 395   | 1050 | 305   | <b>1890</b>                                                                                                                                                                        | <b>790</b> | 1610        | 575        | 1425   | 460   | 1285    | 390   | 1055 | 295   |

**BLOWER DATA: DOWNFLOW**

| <b>A96DF2E045B12S PERFORMANCE (Less Filter)</b> |                                             |       |             |       |        |       |            |       |     |       |
|-------------------------------------------------|---------------------------------------------|-------|-------------|-------|--------|-------|------------|-------|-----|-------|
| External Static Pressure in. w.c.               | Air Volume / Watts at Various Blower Speeds |       |             |       |        |       |            |       |     |       |
|                                                 | High                                        |       | Medium-High |       | Medium |       | Medium-Low |       | Low |       |
|                                                 | cfm                                         | Watts | cfm         | Watts | cfm    | Watts | cfm        | Watts | cfm | Watts |
| 0.00                                            | 1395                                        | 335   | 1290        | 250   | 1190   | 195   | 910        | 105   | 865 | 95    |
| 0.10                                            | 1375                                        | 350   | 1245        | 260   | 1140   | 205   | 875        | 110   | 815 | 100   |
| 0.20                                            | 1320                                        | 360   | 1215        | 265   | 1090   | 215   | 825        | 120   | 785 | 110   |
| 0.30                                            | 1285                                        | 365   | 1165        | 270   | 1065   | 225   | 795        | 130   | 735 | 115   |
| 0.40                                            | 1275                                        | 375   | 1150        | 285   | 1025   | 230   | 750        | 135   | 705 | 120   |
| 0.50                                            | 1230                                        | 385   | 1095        | 295   | 985    | 240   | 705        | 145   | 650 | 125   |
| 0.60                                            | 1185                                        | 380   | 1060        | 300   | 935    | 245   | 655        | 150   | 605 | 135   |
| 0.70                                            | N/A                                         | N/A   | 1020        | 310   | 915    | 250   | 590        | 150   | 545 | 140   |
| 0.80                                            | N/A                                         | N/A   | 980         | 315   | 860    | 255   | 555        | 160   | 485 | 140   |

**BLOWER DATA: DOWNFLOW**

| <b>A96DF2E070B16S PERFORMANCE (Less Filter)</b> |                                             |       |             |       |        |       |            |       |      |       |
|-------------------------------------------------|---------------------------------------------|-------|-------------|-------|--------|-------|------------|-------|------|-------|
| External Static Pressure in. w.c.               | Air Volume / Watts at Various Blower Speeds |       |             |       |        |       |            |       |      |       |
|                                                 | High                                        |       | Medium-High |       | Medium |       | Medium-Low |       | Low  |       |
|                                                 | cfm                                         | Watts | cfm         | Watts | cfm    | Watts | cfm        | Watts | cfm  | Watts |
| 0.00                                            | 1770                                        | 510   | 1550        | 340   | 1355   | 220   | 1255       | 180   | 1035 | 115   |
| 0.10                                            | 1720                                        | 520   | 1510        | 355   | 1315   | 230   | 1200       | 185   | 980  | 105   |
| 0.20                                            | 1705                                        | 535   | 1470        | 365   | 1265   | 245   | 1165       | 195   | 895  | 110   |
| 0.30                                            | 1665                                        | 540   | 1430        | 380   | 1235   | 250   | 1120       | 205   | 835  | 120   |
| 0.40                                            | 1605                                        | 555   | 1390        | 395   | 1185   | 260   | 1070       | 210   | 775  | 130   |
| 0.50                                            | 1585                                        | 565   | 1335        | 400   | 1155   | 275   | 1015       | 225   | 690  | 140   |
| 0.60                                            | 1540                                        | 565   | 1300        | 410   | 1100   | 290   | 970        | 235   | 625  | 145   |
| 0.70                                            | N/A                                         | N/A   | 1260        | 420   | 1050   | 295   | 915        | 245   | 570  | 150   |
| 0.80                                            | N/A                                         | N/A   | 1220        | 430   | 1015   | 305   | 865        | 255   | 520  | 155   |

| <b>A96DF2E090C16S PERFORMANCE (Less Filter)</b> |                                             |       |             |       |        |       |            |       |      |       |
|-------------------------------------------------|---------------------------------------------|-------|-------------|-------|--------|-------|------------|-------|------|-------|
| External Static Pressure in. w.c.               | Air Volume / Watts at Various Blower Speeds |       |             |       |        |       |            |       |      |       |
|                                                 | High                                        |       | Medium-High |       | Medium |       | Medium-Low |       | Low  |       |
|                                                 | cfm                                         | Watts | cfm         | Watts | cfm    | Watts | cfm        | Watts | cfm  | Watts |
| 0.00                                            | 1765                                        | 395   | 1565        | 265   | 1410   | 210   | 1290       | 175   | 1180 | 135   |
| 0.10                                            | 1745                                        | 410   | 1510        | 280   | 1365   | 220   | 1265       | 185   | 1120 | 140   |
| 0.20                                            | 1685                                        | 425   | 1455        | 295   | 1310   | 235   | 1220       | 200   | 1080 | 150   |
| 0.30                                            | 1630                                        | 440   | 1415        | 310   | 1285   | 250   | 1165       | 210   | 1035 | 160   |
| 0.40                                            | 1620                                        | 450   | 1370        | 320   | 1245   | 255   | 1125       | 220   | 985  | 175   |
| 0.50                                            | 1570                                        | 465   | 1335        | 330   | 1185   | 265   | 1080       | 230   | 925  | 180   |
| 0.60                                            | 1540                                        | 470   | 1295        | 345   | 1145   | 280   | 1045       | 240   | 875  | 190   |
| 0.70                                            | N/A                                         | N/A   | 1260        | 355   | 1110   | 295   | 990        | 255   | 825  | 200   |
| 0.80                                            | N/A                                         | N/A   | 1210        | 370   | 1060   | 305   | 940        | 260   | 760  | 205   |

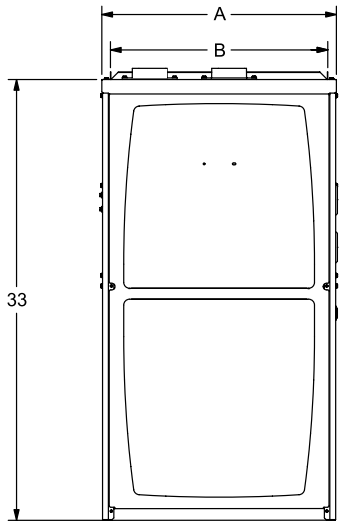
| <b>A96DF2E110C20S PERFORMANCE (Less Filter)</b> |                                             |       |             |       |        |       |            |       |      |       |
|-------------------------------------------------|---------------------------------------------|-------|-------------|-------|--------|-------|------------|-------|------|-------|
| External Static Pressure in. w.c.               | Air Volume / Watts at Various Blower Speeds |       |             |       |        |       |            |       |      |       |
|                                                 | High                                        |       | Medium-High |       | Medium |       | Medium-Low |       | Low  |       |
|                                                 | cfm                                         | Watts | cfm         | Watts | cfm    | Watts | cfm        | Watts | cfm  | Watts |
| 0.00                                            | 2285                                        | 640   | 1990        | 435   | 1805   | 330   | 1685       | 265   | 1480 | 195   |
| 0.10                                            | 2250                                        | 660   | 1965        | 450   | 1775   | 345   | 1630       | 280   | 1430 | 205   |
| 0.20                                            | 2185                                        | 675   | 1910        | 465   | 1720   | 360   | 1575       | 295   | 1360 | 215   |
| 0.30                                            | 2150                                        | 690   | 1850        | 485   | 1670   | 375   | 1525       | 310   | 1290 | 235   |
| 0.40                                            | 2085                                        | 710   | 1810        | 495   | 1605   | 395   | 1465       | 325   | 1255 | 245   |
| 0.50                                            | 2060                                        | 725   | 1765        | 515   | 1565   | 400   | 1420       | 335   | 1190 | 255   |
| 0.60                                            | 2005                                        | 745   | 1700        | 535   | 1510   | 420   | 1370       | 355   | 1160 | 270   |
| 0.70                                            | 1970                                        | 760   | 1665        | 550   | 1460   | 440   | 1325       | 370   | 1100 | 280   |
| 0.80                                            | 1910                                        | 775   | 1620        | 560   | 1420   | 450   | 1275       | 380   | 1045 | 295   |



DIMENSIONS (IN.)

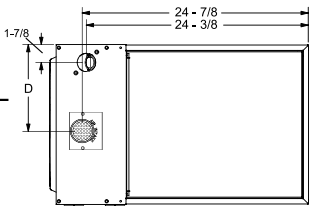
|                     | Model          | A      | B      | C      | D      |
|---------------------|----------------|--------|--------|--------|--------|
| UPFLOW / HORIZONTAL | A96UH2E030B08S | 17-1/2 | 16-3/8 | 16     | 7-5/8  |
|                     | A96UH2E045B12S | 17-1/2 | 16-3/8 | 16     | 7-5/8  |
|                     | A96UH2E070B12S | 17-1/2 | 16-3/8 | 16     | 7-5/8  |
|                     | A96UH2E090C16S | 21     | 19-7/8 | 19-1/2 | 9-3/8  |
|                     | A96UH2E110C20S | 21     | 19-7/8 | 19-1/2 | 9-3/8  |
| DOWNFLOW            | A96DF2E045B12S | 17-1/2 | 16-3/8 | 16     | 15-1/2 |
|                     | A96DF2E070B16S | 17-1/2 | 16-3/8 | 16     | 15-1/2 |
|                     | A96DF2E090C16S | 21     | 19-7/8 | 19-1/2 | 19     |
|                     | A96DF2E110C20S | 21     | 19-7/8 | 19-1/2 | 19     |

FRONT VIEW

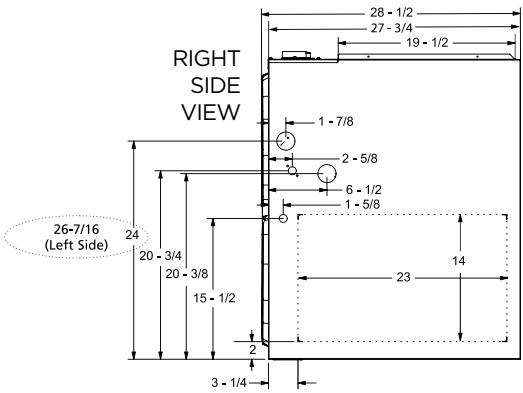


UPFLOW / HORIZONTAL

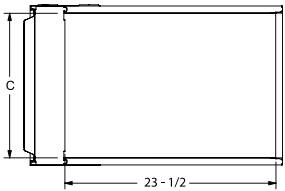
TOP VIEW



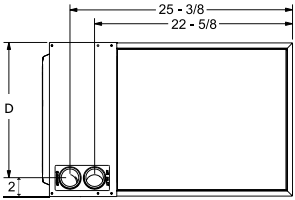
RIGHT SIDE VIEW



BOTTOM VIEW

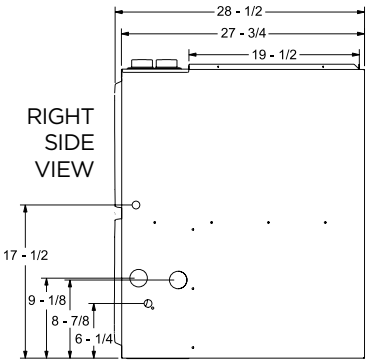


TOP VIEW

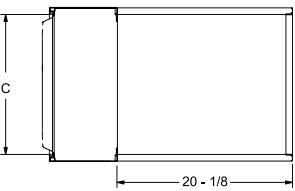


DOWNFLOW

RIGHT SIDE VIEW



BOTTOM VIEW



# A951E

## PRODUCT SPECIFICATIONS

## SINGLE STAGE HIGH EFFICIENCY CONSTANT TORQUE GAS FURNACE

FORM NO. A951E-100 (10/2018)



### CONFIGURATIONS

- Upflow / Horizontal
- Downflow

### HEAT EXCHANGER DESIGN

- 409 Stainless steel primary heat exchanger with crimped non-welded construction
- AL 29-4C Stainless steel secondary heat exchanger

### BURNER

- Aluminized steel inshot burners for smooth ignition

### CABINET DESIGN

- Compact 33" height
- Standardized widths for easy coil fit

### AIR DELIVERY SYSTEM

- Multi-speed high efficiency (constant torque) blower motor
- Easily removable slide out blower design
- Enhanced cooling SEER ratings when applied with properly matched cooling equipment.

### CONTROLS

- Single stage gas valve
- Durable silicon nitride ignitor
- Self diagnostics saves last 10 fault codes regardless of power interruption
- Control features electronic air cleaner and humidifier terminals

### VENTING

- Designed certified for direct (2-pipe) and non direct (1-pipe) applications
- Easily vented with PVC pipe

### INSTALLATION FEATURES

- Left or right utility connection
- Zero step horizontal conversion
- Removable floor base (upflow / horizontal units) for bottom return air
- Complies with California's South Coast Air Quality Management district Low NOx requirements

### WARRANTY

10 year limited parts warranty / lifetime heat exchanger warranty available. See limited warranty document for details.

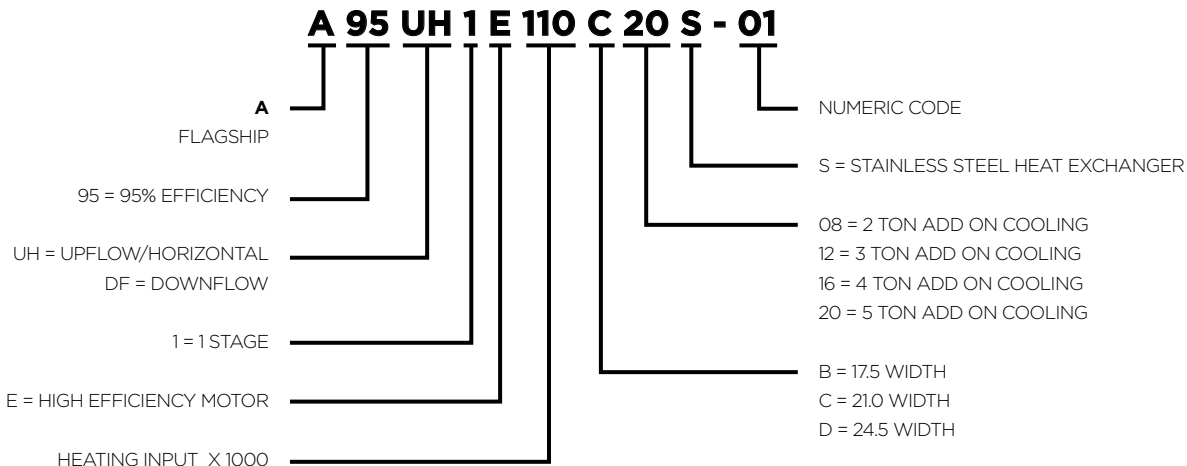
#### California Only

If installed in South Coast Air Quality Management District (SCAQMD) only: This furnace does not meet the SCAQMD Rule 1111 NOx emission limit (14 ng/J), and thus is subject to a mitigation fee of up to \$450. This furnace is not eligible for the Clean Air Furnace Rebate Program: [www.CleanAirFurnaceRebate.com](http://www.CleanAirFurnaceRebate.com).

If installed in San Joaquin Valley Air Pollution Control District (SJVAPCD) only: This furnace does not meet the SJVAPCD Rule 4905 NOx emission limit (14 ng/J), and thus is subject to a mitigation fee of up to \$450.



## MODEL NUMBER GUIDE



## PHYSICAL AND ELECTRICAL DATA

|                   | Model          | Input (Btuh) | Output (Btuh) | AFUE (ICS) | Nominal Cooling Capacity | Gas Inlet (in.) | Volts/Hz/Phase | Max. Time Delay Breaker or Fuse | Nominal F.L.A. | Trans. (V.A.) | Approx. Shipping Weight (lbs.) |
|-------------------|----------------|--------------|---------------|------------|--------------------------|-----------------|----------------|---------------------------------|----------------|---------------|--------------------------------|
| UPFLOW/HORIZONTAL | A95UH1E030B08S | 30,000       | 28,000        | 95.0%      | 1-1/2 — 3                | 1/2             | 120 - 60 - 1   | 15                              | 6.8            | 40            | 129                            |
|                   | A95UH1E045B12S | 44,000       | 42,000        | 95.0%      | 1-1/2 — 3                | 1/2             | 120 - 60 - 1   | 15                              | 6.8            | 40            | 129                            |
|                   | A95UH1E070B12S | 66,000       | 64,000        | 95.0%      | 1-1/2 — 3                | 1/2             | 120 - 60 - 1   | 15                              | 6.8            | 40            | 136                            |
|                   | A95UH1E090C16S | 88,000       | 85,000        | 95.0%      | 2-1/2 — 4                | 1/2             | 120 - 60 - 1   | 15                              | 8.4            | 40            | 160                            |
|                   | A95UH1E110C20S | 110,000      | 106,000       | 95.0%      | 3 — 5                    | 1/2             | 120 - 60 - 1   | 15                              | 10.9           | 40            | 170                            |
|                   | A95UH1E135D20S | 132,000      | 128,000       | 95.0%      | 3-1/2 — 5                | 1/2             | 120 - 60 - 1   | 15                              | 10.9           | 40            | 187                            |
| DOWNFLOW          | A95DF1E045B12S | 44,000       | 42,000        | 95.0%      | 1-1/2 — 3                | 1/2             | 120 - 60 - 1   | 15                              | 6.8            | 40            | 131                            |
|                   | A95DF1E070B16S | 66,000       | 64,000        | 95.0%      | 2-1/2 — 4                | 1/2             | 120 - 60 - 1   | 15                              | 8.4            | 40            | 146                            |
|                   | A95DF1E090C16S | 88,000       | 85,000        | 95.0%      | 2-1/2 — 4                | 1/2             | 120 - 60 - 1   | 15                              | 8.4            | 40            | 162                            |
|                   | A95DF1E110C20S | 110,000      | 106,000       | 95.0%      | 3 — 5                    | 1/2             | 120 - 60 - 1   | 15                              | 10.9           | 40            | 174                            |

Note: For vent length and clearances to combustibles, please reference installation instructions.

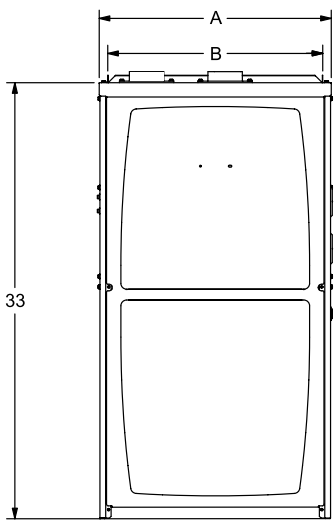
## BLOWER PERFORMANCE DATA

|                     | Model          | Motor Size (hp) | Blower Size | Temp. Rise (°F) | Blower Speed | Heating CFM @ .10" - .80" w.c. |      |      |      |      |      |      |
|---------------------|----------------|-----------------|-------------|-----------------|--------------|--------------------------------|------|------|------|------|------|------|
|                     |                |                 |             |                 |              | .20                            | .30  | .40  | .50  | .60  | .70  | .80  |
| UPFLOW / HORIZONTAL | A95UH1E030B08S | 1/2             | 10 x 8      | 30 - 60         | High         | 955                            | 915  | 875  | 830  | 800  | 765  | 715  |
|                     |                |                 |             |                 | Med/High     | 875                            | 830  | 790  | 750  | 700  | 650  | 615  |
|                     |                |                 |             |                 | Med          | 770                            | 730  | 680  | 635  | 580  | 550  | 500  |
|                     |                |                 |             |                 | Med/Low      | 640                            | 575  | 530  | 470  | 420  | 385  | 325  |
|                     |                |                 |             |                 | Low          | 575                            | 375  | 330  | 260  | 210  | 180  | 135  |
|                     | A95UH1E045B12S | 1/2             | 10 x 8      | 35 - 65         | High         | 1290                           | 1275 | 1220 | 1215 | 1190 | N/A  | N/A  |
|                     |                |                 |             |                 | Med/High     | 1190                           | 1150 | 1120 | 1090 | 1060 | 1015 | 1000 |
|                     |                |                 |             |                 | Med          | 1080                           | 1045 | 1015 | 980  | 950  | 900  | 870  |
|                     |                |                 |             |                 | Med/Low      | 825                            | 785  | 735  | 705  | 650  | 620  | 580  |
|                     |                |                 |             |                 | Low          | 780                            | 720  | 690  | 635  | 600  | 555  | 520  |
|                     | A95UH1E070B12S | 1/2             | 10 x 8      | 35 - 65         | High         | 1310                           | 1275 | 1250 | 1215 | 1200 | 1145 | N/A  |
|                     |                |                 |             |                 | Med/High     | 1250                           | 1205 | 1175 | 1145 | 1100 | 1070 | 1035 |
|                     |                |                 |             |                 | Med          | 1130                           | 1100 | 1065 | 1045 | 995  | 960  | 925  |
|                     |                |                 |             |                 | Med/Low      | 880                            | 835  | 795  | 745  | 705  | 670  | 610  |
|                     |                |                 |             |                 | Low          | 815                            | 775  | 730  | 670  | 640  | 585  | 550  |
|                     | A95UH1E090C16S | 3/4             | 10 x 10     | 40 - 70         | High         | 1660                           | 1615 | 1590 | 1560 | 1525 | 1475 | N/A  |
|                     |                |                 |             |                 | Med/High     | 1435                           | 1390 | 1350 | 1310 | 1255 | 1220 | 1170 |
|                     |                |                 |             |                 | Med          | 1290                           | 1240 | 1200 | 1155 | 1105 | 1065 | 1010 |
|                     |                |                 |             |                 | Med/Low      | 1195                           | 1140 | 1110 | 1055 | 1005 | 960  | 920  |
|                     |                |                 |             |                 | Low          | 1045                           | 995  | 945  | 895  | 855  | 805  | 760  |
|                     | A95UH1E110C20S | 1               | 11-1/2 x 10 | 45 - 75         | High         | 2130                           | 2095 | 2065 | 2030 | 1995 | 1955 | 1930 |
|                     |                |                 |             |                 | Med/High     | 1865                           | 1835 | 1785 | 1755 | 1705 | 1660 | 1635 |
|                     |                |                 |             |                 | Med          | 1670                           | 1640 | 1600 | 1560 | 1525 | 1475 | 1445 |
|                     |                |                 |             |                 | Med/Low      | 1560                           | 1525 | 1465 | 1425 | 1380 | 1350 | 1300 |
|                     |                |                 |             |                 | Low          | 1345                           | 1285 | 1250 | 1215 | 1150 | 1100 | 1050 |
|                     | A95UH1E135D20S | 1               | 11-1/2 x 10 | 50 - 80         | High         | 2330                           | 2295 | 2275 | 2225 | 2185 | N/A  | N/A  |
|                     |                |                 |             |                 | Med/High     | 2180                           | 2120 | 2075 | 2035 | 2020 | 1940 | 1890 |
|                     |                |                 |             |                 | Med          | 1950                           | 1925 | 1885 | 1845 | 1815 | 1736 | 1715 |
|                     |                |                 |             |                 | Med/Low      | 1745                           | 1690 | 1640 | 1605 | 1565 | 1520 | 1465 |
|                     |                |                 |             |                 | Low          | 1535                           | 1480 | 1445 | 1395 | 1330 | 1310 | 1285 |
| DOWNFLOW            | A95DF1E045B12S | 1/2             | 10 x 8      | 25 - 55         | High         | 1320                           | 1285 | 1275 | 1230 | 1185 | N/A  | N/A  |
|                     |                |                 |             |                 | Med/High     | 1215                           | 1165 | 1150 | 1095 | 1060 | 1020 | 980  |
|                     |                |                 |             |                 | Med          | 1090                           | 1065 | 1025 | 985  | 935  | 915  | 860  |
|                     |                |                 |             |                 | Med/Low      | 825                            | 795  | 750  | 705  | 655  | 590  | 555  |
|                     |                |                 |             |                 | Low          | 785                            | 735  | 705  | 650  | 605  | 545  | 485  |
|                     | A95DF1E070B16S | 3/4             | 11-1/2 x 10 | 25 - 55         | High         | 1705                           | 1665 | 1605 | 1585 | 1540 | N/A  | N/A  |
|                     |                |                 |             |                 | Med/High     | 1470                           | 1430 | 1390 | 1335 | 1300 | 1260 | 1220 |
|                     |                |                 |             |                 | Med          | 1265                           | 1235 | 1185 | 1155 | 1100 | 1050 | 1015 |
|                     |                |                 |             |                 | Med/Low      | 1165                           | 1120 | 1070 | 1015 | 970  | 915  | 865  |
|                     |                |                 |             |                 | Low          | 895                            | 835  | 775  | 690  | 625  | 570  | 520  |
|                     | A95DF1E090C16S | 3/4             | 10 x 10     | 40 - 70         | High         | 1685                           | 1630 | 1620 | 1570 | 1540 | N/A  | N/A  |
|                     |                |                 |             |                 | Med/High     | 1455                           | 1415 | 1370 | 1335 | 1295 | 1260 | 1210 |
|                     |                |                 |             |                 | Med          | 1310                           | 1285 | 1245 | 1185 | 1145 | 1110 | 1060 |
|                     |                |                 |             |                 | Med/Low      | 1220                           | 1165 | 1125 | 1080 | 1045 | 990  | 940  |
|                     |                |                 |             |                 | Low          | 1080                           | 1035 | 985  | 925  | 875  | 825  | 760  |
|                     | A95DF1E110C20S | 1               | 11 x 11     | 40 - 70         | High         | 2185                           | 2150 | 2085 | 2060 | 2005 | 1970 | 1910 |
|                     |                |                 |             |                 | Med/High     | 1910                           | 1850 | 1810 | 1765 | 1700 | 1665 | 1620 |
|                     |                |                 |             |                 | Med          | 1720                           | 1670 | 1605 | 1565 | 1510 | 1460 | 1420 |
|                     |                |                 |             |                 | Med/Low      | 1575                           | 1525 | 1465 | 1420 | 1370 | 1325 | 1275 |
|                     |                |                 |             |                 | Low          | 1360                           | 1290 | 1255 | 1190 | 1160 | 1100 | 1045 |

DIMENSIONS

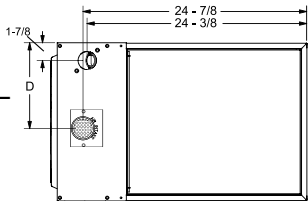
|                   | Model           | A      | B      | C      | D      |
|-------------------|-----------------|--------|--------|--------|--------|
| UPFLOW/HORIZONTAL | A95UH1E030B085S | 17-1/2 | 16-3/8 | 16     | 7-5/8  |
|                   | A95UH1E045B12S  | 17-1/2 | 16-3/8 | 16     | 7-5/8  |
|                   | A95UH1E070B12S  | 17-1/2 | 16-3/8 | 16     | 7-5/8  |
|                   | A95UH1E090C16S  | 21     | 19-7/8 | 19-1/2 | 9-3/8  |
|                   | A95UH1E110C20S  | 21     | 19-7/8 | 19-1/2 | 9-3/8  |
|                   | A95UH1E135D20S  | 24-1/2 | 23-3/8 | 23     | 11-1/8 |
| DOWNFLOW          | A95DF1E045B12S  | 17-1/2 | 16-3/8 | 16     | 15-1/2 |
|                   | A95DF1E070B16S  | 17-1/2 | 16-3/8 | 16     | 15-1/2 |
|                   | A95DF1E090C16S  | 21     | 19-7/8 | 19-1/2 | 19     |
|                   | A95DF1E110C20S  | 21     | 19-7/8 | 19-1/2 | 19     |

FRONT VIEW

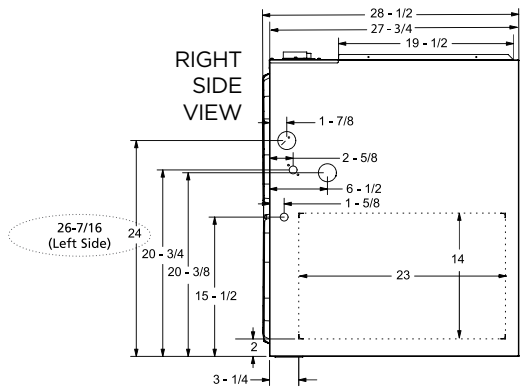


UPFLOW / HORIZONTAL

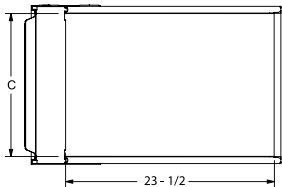
TOP VIEW



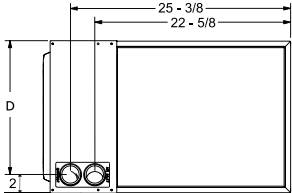
RIGHT SIDE VIEW



BOTTOM VIEW

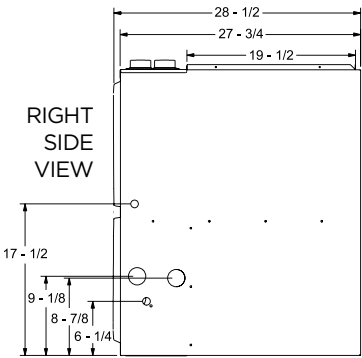


TOP VIEW

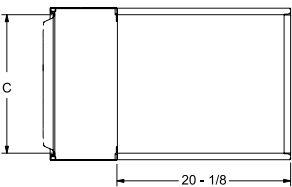


DOWNFLOW

RIGHT SIDE VIEW



BOTTOM VIEW



# A802V

## PRODUCT SPECIFICATIONS

## TWO STAGE VARIABLE SPEED GAS FURNACE

FORM NO. A802V-100 (10/2018)



### VENTING

- Rotatable draft inducer for venting flexibility

### INSTALLATION FEATURES

- Left and right utility connections
- Removable floor base for bottom return air
- "L" designated models comply with California's South Coast Air Quality Management district Low NOx requirements
- Zero step horizontal conversion

### WARRANTY

10 year limited parts warranty / lifetime heat exchanger warranty available. See limited warranty document for details.

Note: Not for sale in Canada

#### *California Only*

*If installed in South Coast Air Quality Management District (SCAQMD) only: This furnace does not meet the SCAQMD Rule 1111 NOx emission limit (14 ng/J), and thus is subject to a mitigation fee of up to \$450. This furnace is not eligible for the Clean Air Furnace Rebate Program: [www.CleanAirFurnaceRebate.com](http://www.CleanAirFurnaceRebate.com).*

*If installed in San Joaquin Valley Air Pollution Control District (SJVAPCD) only: This furnace does not meet the SJVAPCD Rule 4905 NOx emission limit (14 ng/J), and thus is subject to a mitigation fee of up to \$450.*

### CONFIGURATIONS

- Upflow / Horizontal
- Downflow

### HEAT EXCHANGER DESIGN

- Aluminized steel crimped non-welded clamshell heat exchanger

### CABINET DESIGN

- Compact 33" height
- Standardized widths for easy coil fit

### AIR DELIVERY SYSTEM

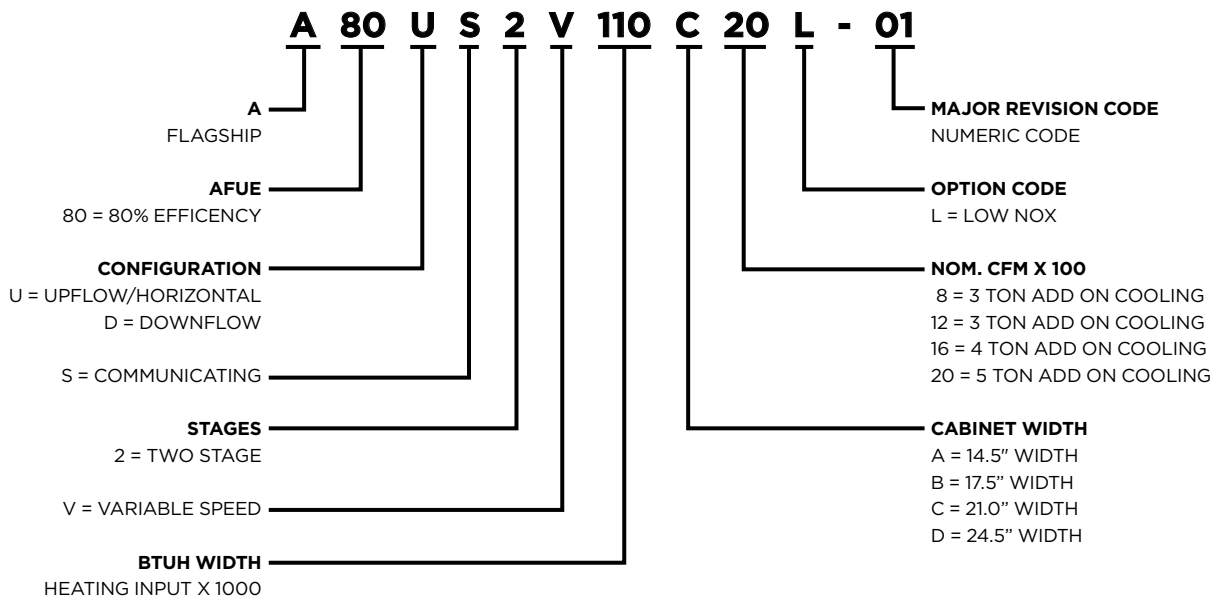
- ECM™ Variable speed blower motor
- Easily removable slide out blower design

### CONTROLS

- Communicating control enabled
- Two stage gas valve
- Thermostat flexibility: works with the Comfort Sync T-Stat or a conventional 24V T-Stat
- Self diagnostics saves last 5 fault codes regardless of power interruption



## MODEL NUMBER GUIDE



## PHYSICAL AND ELECTRICAL DATA

|                   | Model          | Input (Btuh) | Output* (Btuh) | AFUE (ICS) | Nominal Cooling Capacity | Gas Inlet (in.) | Volts/Hz/Phase | Max. Time Delay Breaker or Fuse | Nominal F.L.A. | Trans. (V.A.) | Approx. Shipping Weight (lbs.) |
|-------------------|----------------|--------------|----------------|------------|--------------------------|-----------------|----------------|---------------------------------|----------------|---------------|--------------------------------|
| UPFLOW/HORIZONTAL | A80US2V070A12  | 66,000       | 52,000         | 80.0%      | 3 tons                   | 1/2             | 120-60-1       | 15                              | 7.7            | 40            | 128                            |
|                   | A80US2V090B12  | 88,000       | 70,000         | 80.0%      | 3 tons                   | 1/2             | 120-60-1       | 15                              | 7.7            | 40            | 143                            |
|                   | A80US2V090B16  | 88,000       | 70,000         | 80.0%      | 4 tons                   | 1/2             | 120-60-1       | 20                              | 12.8           | 40            | 154                            |
|                   | A80US2V090C20  | 88,000       | 70,000         | 80.0%      | 5 tons                   | 1/2             | 120-60-1       | 20                              | 12.8           | 40            | 173                            |
|                   | A80US2V110C20  | 110,000      | 87,000         | 80.0%      | 5 tons                   | 1/2             | 120-60-1       | 20                              | 12.8           | 40            | 181                            |
|                   | A80US2V135D20  | 132,000      | 105,000        | 80.0%      | 5 tons                   | 1/2             | 120-60-1       | 20                              | 12.8           | 40            | 199                            |
|                   | A80US2V070A12L | 66,000       | 52,000         | 80.0%      | 3 tons                   | 1/2             | 120-60-1       | 15                              | 7.7            | 40            | 128                            |
|                   | A80US2V090B16L | 88,000       | 70,000         | 80.0%      | 4 tons                   | 1/2             | 120-60-1       | 20                              | 12.8           | 40            | 154                            |
|                   | A80US2V110C20L | 110,000      | 87,000         | 80.0%      | 5 tons                   | 1/2             | 120-60-1       | 20                              | 12.8           | 40            | 181                            |
| DOWNFLOW          | A80DS2V070A12  | 66,000       | 52,000         | 80.0%      | 3 tons                   | 1/2             | 120-60-1       | 15                              | 7.7            | 40            | 130                            |
|                   | A80DS2V090B16  | 88,000       | 69,000         | 80.0%      | 4 tons                   | 1/2             | 120-60-1       | 20                              | 12.8           | 40            | 153                            |
|                   | A80DS2V110C20  | 110,000      | 87,000         | 80.0%      | 5 tons                   | 1/2             | 120-60-1       | 20                              | 12.8           | 40            | 173                            |

Note: For vent length and clearances to combustibles, please reference installation instructions.

\* Outputs shown are High Fire, 100% rate, Low Fire is 67% of shown output.

## BLOWER PERFORMANCE DATA

| UPFLOW/HORIZONTAL | Model  | Motor Size (hp) | Blower Size | Heating                   |                   |                      |                           |                   |                      | Cooling       |                   |                      |         |          |                |
|-------------------|--------|-----------------|-------------|---------------------------|-------------------|----------------------|---------------------------|-------------------|----------------------|---------------|-------------------|----------------------|---------|----------|----------------|
|                   |        |                 |             | Low Fire                  |                   |                      | High Fire                 |                   |                      | Cooling Stage | Speed Adjust-ment | CFM @ 0" - 0.8" w.c. |         |          |                |
|                   |        |                 |             | Rise Range F <sup>2</sup> | Speed Adjust-ment | CFM @ 0" - 0.5" w.c. | Rise Range F <sup>2</sup> | Speed Adjust-ment | CFM @ 0" - 0.5" w.c. |               |                   | Low                  | Med Low | Med High | High (Default) |
|                   |        |                 |             |                           |                   |                      |                           |                   |                      |               |                   |                      |         |          |                |
| A80US2V070A12(L)  | 1/2 HP | 10 x 8          | 25-55       | +24%                      | 1073              | 40 -70               | +24%                      | 1178              | 1st Stage            | +10%          | 748               | 801                  | 864     | 970      |                |
|                   |        |                 |             | +18%                      | 1021              |                      | +18%                      | 1121              |                      | Default       | 680               | 728                  | 785     | 882      |                |
|                   |        |                 |             | +12%                      | 969               |                      | +12%                      | 1064              |                      | -10%          | 612               | 655                  | 707     | 974      |                |
|                   |        |                 |             | +6%                       | 917               |                      | +6%                       | 1007              |                      | +10%          | 1007              | 1095                 | 1210    | 1348     |                |
|                   |        |                 |             | Default                   | 865               |                      | Default                   | 950               | 2nd Stage            | Default       | 915               | 995                  | 1100    | 1225     |                |
|                   |        |                 |             | -6%                       | 813               |                      | -6%                       | 893               |                      | -10%          | 824               | 896                  | 990     | 1103     |                |
|                   |        |                 |             | -12%                      | 761               |                      | -12%                      | 836               |                      | Default       | 915               | 995                  | 1100    | 1225     |                |
|                   |        |                 |             | -18%                      | 709               |                      | -18%                      | 779               |                      | -10%          | 824               | 896                  | 990     | 1103     |                |
| A80US2V090B12     | 1/2 HP | 10 x 9          | 25-55       | +24%                      | 1302              | 40 -70               | +24%                      | 1426              | 1st Stage            | +10%          | 556               | 699                  | 787     | 919      |                |
|                   |        |                 |             | +18%                      | 1239              |                      | +18%                      | 1357              |                      | Default       | 505               | 635                  | 715     | 835      |                |
|                   |        |                 |             | +12%                      | 1176              |                      | +12%                      | 1288              |                      | -10%          | 455               | 572                  | 644     | 752      |                |
|                   |        |                 |             | +6%                       | 1113              |                      | +6%                       | 1219              |                      | +10%          | 930               | 1100                 | 1210    | 1320     |                |
|                   |        |                 |             | Default                   | 1050              |                      | Default                   | 1150              | 2nd Stage            | Default       | 845               | 1000                 | 1100    | 1200     |                |
|                   |        |                 |             | -6%                       | 987               |                      | -6%                       | 1081              |                      | -10%          | 761               | 900                  | 990     | 1080     |                |
|                   |        |                 |             | -12%                      | 924               |                      | -12%                      | 1012              |                      | Default       | 845               | 1000                 | 1100    | 1200     |                |
|                   |        |                 |             | -18%                      | 861               |                      | -18%                      | 943               |                      | -10%          | 761               | 900                  | 990     | 1080     |                |
| A80US2V090B16(L)  | 1 HP   | 11-1/2 x 9      | 25-55       | +24%                      | 1353              | 40-70                | +24%                      | 1488              | 1st Stage            | +10%          | 743               | 935                  | 1073    | 1238     |                |
|                   |        |                 |             | +18%                      | 1287              |                      | +18%                      | 1416              |                      | Default       | 675               | 850                  | 975     | 1125     |                |
|                   |        |                 |             | +12%                      | 1222              |                      | +12%                      | 1344              |                      | -10%          | 608               | 765                  | 878     | 1013     |                |
|                   |        |                 |             | +6%                       | 1156              |                      | +6%                       | 1272              |                      | +10%          | 1045              | 1320                 | 1540    | 1760     |                |
|                   |        |                 |             | Default                   | 1091              |                      | Default                   | 1200              | 2nd Stage            | Default       | 950               | 1200                 | 1400    | 1600     |                |
|                   |        |                 |             | -6%                       | 1026              |                      | -6%                       | 1128              |                      | -10%          | 855               | 1080                 | 1260    | 1440     |                |
|                   |        |                 |             | -12%                      | 960               |                      | -12%                      | 1056              |                      | Default       | 950               | 1200                 | 1400    | 1600     |                |
|                   |        |                 |             | -18%                      | 895               |                      | -18%                      | 984               |                      | -10%          | 855               | 1080                 | 1260    | 1440     |                |
| A80US2V090C20     | 1 HP   | 11-1/2 x 10     | 25-55       | +24%                      | 1353              | 35-65                | +24%                      | 1488              | 1st Stage            | +10%          | 897               | 1045                 | 1177    | 1353     |                |
|                   |        |                 |             | +18%                      | 1287              |                      | +18%                      | 1416              |                      | Default       | 815               | 950                  | 1070    | 1230     |                |
|                   |        |                 |             | +12%                      | 1222              |                      | +12%                      | 1344              |                      | -10%          | 734               | 855                  | 963     | 1107     |                |
|                   |        |                 |             | +6%                       | 1156              |                      | +6%                       | 1272              |                      | +10%          | 1276              | 1491                 | 1683    | 1931     |                |
|                   |        |                 |             | Default                   | 1091              |                      | Default                   | 1200              | 2nd Stage            | Default       | 1160              | 1355                 | 1530    | 1755     |                |
|                   |        |                 |             | -6%                       | 1026              |                      | -6%                       | 1128              |                      | -10%          | 1044              | 1220                 | 1377    | 1580     |                |
|                   |        |                 |             | -12%                      | 960               |                      | -12%                      | 1056              |                      | Default       | 1160              | 1355                 | 1530    | 1755     |                |
|                   |        |                 |             | -18%                      | 895               |                      | -18%                      | 984               |                      | -10%          | 1044              | 1220                 | 1377    | 1580     |                |
| A80US2V110C20(L)  | 1 HP   | 11-1/2 x 10     | 25-55       | +24%                      | 1693              | 35-65                | +24%                      | 1860              | 1st Stage            | +10%          | 1155              | 1210                 | 1342    | 1419     |                |
|                   |        |                 |             | +18%                      | 1611              |                      | +18%                      | 1770              |                      | Default       | 1050              | 1100                 | 1220    | 1290     |                |
|                   |        |                 |             | +12%                      | 1529              |                      | +12%                      | 1680              |                      | -10%          | 945               | 990                  | 1098    | 1161     |                |
|                   |        |                 |             | +6%                       | 1447              |                      | +6%                       | 1590              |                      | +10%          | 1650              | 1735                 | 1914    | 2024     |                |
|                   |        |                 |             | Default                   | 1365              |                      | Default                   | 1500              | 2nd Stage            | Default       | 1500              | 1575                 | 1840    | 1840     |                |
|                   |        |                 |             | -6%                       | 1283              |                      | -6%                       | 1410              |                      | -10%          | 1350              | 1418                 | 1566    | 1656     |                |
|                   |        |                 |             | -12%                      | 1201              |                      | -12%                      | 1320              |                      | Default       | 1500              | 1575                 | 1840    | 1840     |                |
|                   |        |                 |             | -18%                      | 1119              |                      | -18%                      | 1230              |                      | -10%          | 1350              | 1418                 | 1566    | 1656     |                |
| A80US2V135D20     | 1 HP   | 11-1/2 x 11     | 25-55       | +24%                      | 1872              | 40-70                | +24%                      | 2058              | 1st Stage            | +10%          | 1062              | 1139                 | 1309    | 1419     |                |
|                   |        |                 |             | +18%                      | 1782              |                      | +18%                      | 1959              |                      | Default       | 965               | 1035                 | 1190    | 1290     |                |
|                   |        |                 |             | +12%                      | 1691              |                      | +12%                      | 1859              |                      | -10%          | 869               | 932                  | 1071    | 1161     |                |
|                   |        |                 |             | +6%                       | 1601              |                      | +6%                       | 1760              |                      | +10%          | 1513              | 1623                 | 1870    | 2024     |                |
|                   |        |                 |             | Default                   | 1510              |                      | Default                   | 1660              | 2nd Stage            | Default       | 1375              | 1475                 | 1700    | 1840     |                |
|                   |        |                 |             | -6%                       | 1419              |                      | -6%                       | 1560              |                      | -10%          | 1238              | 1328                 | 1530    | 1656     |                |
|                   |        |                 |             | -12%                      | 1329              |                      | -12%                      | 1461              |                      | Default       | 1375              | 1475                 | 1700    | 1840     |                |
|                   |        |                 |             | -18%                      | 1238              |                      | -18%                      | 1361              |                      | -10%          | 1238              | 1328                 | 1530    | 1656     |                |

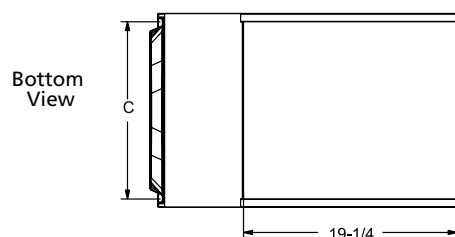
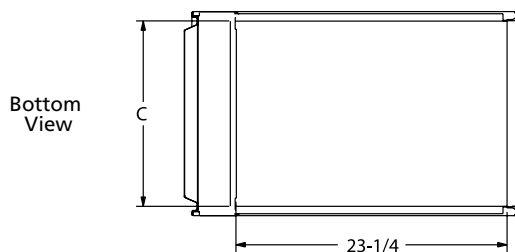
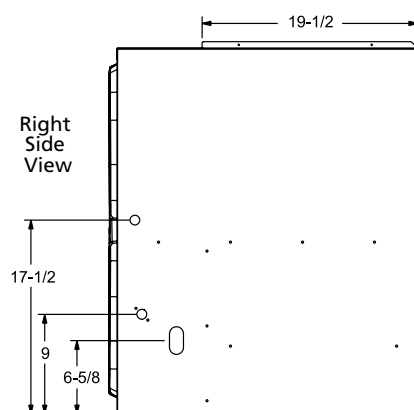
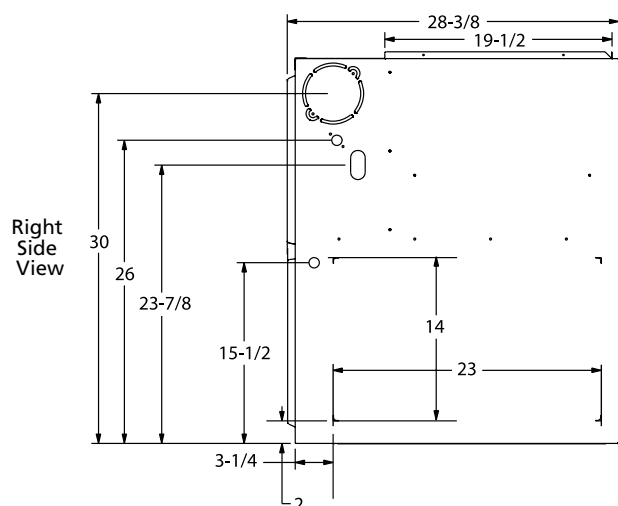
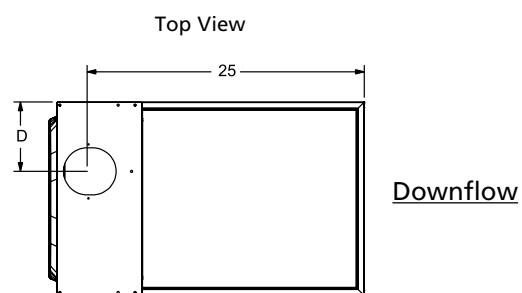
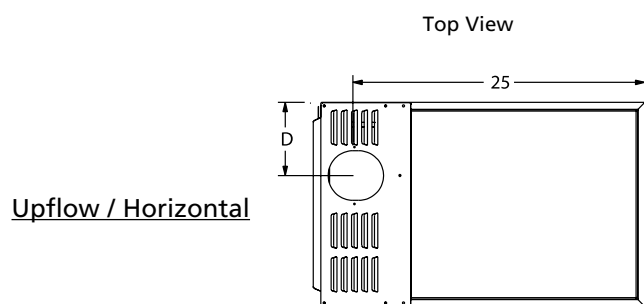
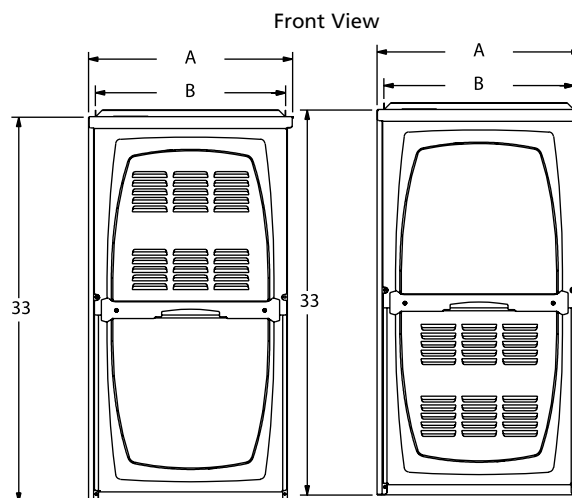


## BLOWER PERFORMANCE DATA

| DOWNFLOW      | Model         | Motor Size (hp) | Blower Size | Heating       |                   |                      |               |                   |                      | Cooling       |                   |                      |         |          |                |
|---------------|---------------|-----------------|-------------|---------------|-------------------|----------------------|---------------|-------------------|----------------------|---------------|-------------------|----------------------|---------|----------|----------------|
|               |               |                 |             | Low Fire      |                   |                      | High Fire     |                   |                      | Cooling Stage | Speed Adjust-ment | CFM @ 0" - 0.8" w.c. |         |          |                |
|               |               |                 |             | Rise Range F° | Speed Adjust-ment | CFM @ 0" - 0.5" w.c. | Rise Range F° | Speed Adjust-ment | CFM @ 0" - 0.5" w.c. |               |                   | Low                  | Med Low | Med High | High (Default) |
|               | A80DS2V070A12 | 1/2 HP          | 10 x 8      | 25-55         | +24%              | 1042                 | 35-65         | +24%              | 1147                 | 1st Stage     | +10%              | 693                  | 755     | 855      | 986            |
| +18%          |               |                 |             |               | 991               | +18%                 |               | 1092              | Default              |               | 630               | 686                  | 777     | 896      |                |
| +12%          |               |                 |             |               | 941               | +12%                 |               | 1036              | -10%                 |               | 567               | 617                  | 699     | 806      |                |
| +6%           |               |                 |             |               | 980               | +6%                  |               | 981               | +10%                 |               | 990               | 1078                 | 1221    | 1408     |                |
| Default       |               |                 |             |               | 840               | Default              |               | 925               | 2nd Stage            | Default       | 900               | 980                  | 1110    | 1280     |                |
| -6%           |               |                 |             |               | 790               | -6%                  |               | 870               |                      | -10%          | 810               | 882                  | 999     | 1152     |                |
| -12%          |               |                 |             |               | 739               | -12%                 |               | 814               |                      | +10%          | 1100              | 1320                 | 1540    | 1760     |                |
| -18%          |               |                 |             |               | 689               | -18%                 |               | 759               |                      | -10%          | 900               | 1080                 | 1260    | 1440     |                |
| A80DS2V090B16 | 1 HP          | 11-1/2 x 9      | 25-55       | +24%          | 1353              | 35-65                | +24%          | 1488              | 1st Stage            | +10%          | 770               | 935                  | 1073    | 1238     |                |
|               |               |                 |             | +18%          | 1287              |                      | +18%          | 1416              |                      | Default       | 700               | 850                  | 975     | 1125     |                |
|               |               |                 |             | +12%          | 1222              |                      | +12%          | 1344              |                      | -10%          | 630               | 765                  | 878     | 1013     |                |
|               |               |                 |             | +6%           | 1156              |                      | +6%           | 1272              |                      | +10%          | 1100              | 1320                 | 1540    | 1760     |                |
|               |               |                 |             | Default       | 1091              |                      | Default       | 1200              | 2nd Stage            | Default       | 1000              | 1200                 | 1400    | 1600     |                |
|               |               |                 |             | -6%           | 1026              |                      | -6%           | 1128              |                      | -10%          | 900               | 1080                 | 1260    | 1440     |                |
|               |               |                 |             | -12%          | 960               |                      | -12%          | 1056              |                      | +10%          | 985               | 1139                 | 1293    | 1331     |                |
|               |               |                 |             | -18%          | 895               |                      | -18%          | 984               |                      | Default       | 895               | 1035                 | 1175    | 1210     |                |
| A80DS2V110C20 | 1 HP          | 11-1/2 x10      | 25-55       | +24%          | 1581              | 35-65                | +24%          | 1742              | 1st Stage            | +10%          | 985               | 1139                 | 1293    | 1331     |                |
|               |               |                 |             | +18%          | 1505              |                      | +18%          | 1658              |                      | Default       | 895               | 1035                 | 1175    | 1210     |                |
|               |               |                 |             | +12%          | 1428              |                      | +12%          | 1574              |                      | -10%          | 806               | 932                  | 1058    | 1089     |                |
|               |               |                 |             | +6%           | 1352              |                      | +6%           | 1489              |                      | +10%          | 1403              | 1625                 | 1843    | 1898     |                |
|               |               |                 |             | Default       | 1275              |                      | Default       | 1405              | 2nd Stage            | Default       | 1275              | 1475                 | 1675    | 1725     |                |
|               |               |                 |             | -6%           | 1199              |                      | -6%           | 1321              |                      | -10%          | 1148              | 1328                 | 1508    | 1553     |                |
|               |               |                 |             | -12%          | 1122              |                      | -12%          | 1236              |                      |               |                   |                      |         |          |                |
|               |               |                 |             | -18%          | 1046              |                      | -18%          | 1152              |                      |               |                   |                      |         |          |                |

### DIMENSIONS (IN.)

|                   | Model            | A      | B      | C      | D      |
|-------------------|------------------|--------|--------|--------|--------|
| UPFLOW/HORIZONTAL | A80US2V070A12(L) | 14-1/2 | 13-3/8 | 13     | 4-3/4  |
|                   | A80US2V090B12    | 17-1/2 | 16-3/8 | 16     | 6-1/4  |
|                   | A80US2V090B16(L) | 17-1/2 | 16-3/8 | 16     | 6-1/4  |
|                   | A80US2V090C20    | 21     | 19-7/8 | 19-1/2 | 8      |
|                   | A80US2V110C20(L) | 21     | 19-7/8 | 19-1/2 | 8      |
|                   | A80US2V135D20    | 24-1/2 | 23-3/8 | 23     | 11-1/8 |
| DOWNFLOW          | A80DS2V070A12    | 14-1/2 | 13-3/8 | 13     | 4-3/4  |
|                   | A80DS2V090B16    | 17-1/2 | 16-3/8 | 16     | 6-1/4  |
|                   | A80DS2V110C20    | 21     | 19-7/8 | 19-1/2 | 8      |



# A801E

## PRODUCT SPECIFICATIONS

## SINGLE STAGE HIGH EFFICIENCY CONSTANT TORQUE GAS FURNACE

FORM NO. A801E-100 (10/2019)



### CONFIGURATIONS

- Upflow / Horizontal
- Downflow

### HEAT EXCHANGER DESIGN

- Aluminized steel crimped non-welded clamshell heat exchanger

### BURNER

- Aluminized steel inshot burners for smooth ignition

### CABINET DESIGN

- Compact 33" height
- Standardized widths for easy coil fit

### AIR DELIVERY SYSTEM

- Multi-speed high efficiency (constant torque) blower motor
- Easily removable slide out blower design
- Enhanced cooling SEER ratings when applied with properly matched cooling equipment

### CONTROLS

- Single stage gas valve
- Durable silicon nitride ignitor
- Self diagnostics saving last 10 fault codes regardless of power interruption
- Control features electronic air cleaner and humidifier terminals

### VENTING

- Rotatable draft inducer for venting flexibility

### INSTALLATION FEATURES

- Left or right utility connections
- Removable floor base (upflow / horizontal units) for bottom return air
- Zero step horizontal conversion

### WARRANTY

10 year limited parts warranty / lifetime heat exchanger warranty available. See limited warranty document for details.

Note: Not For Sale in Canada

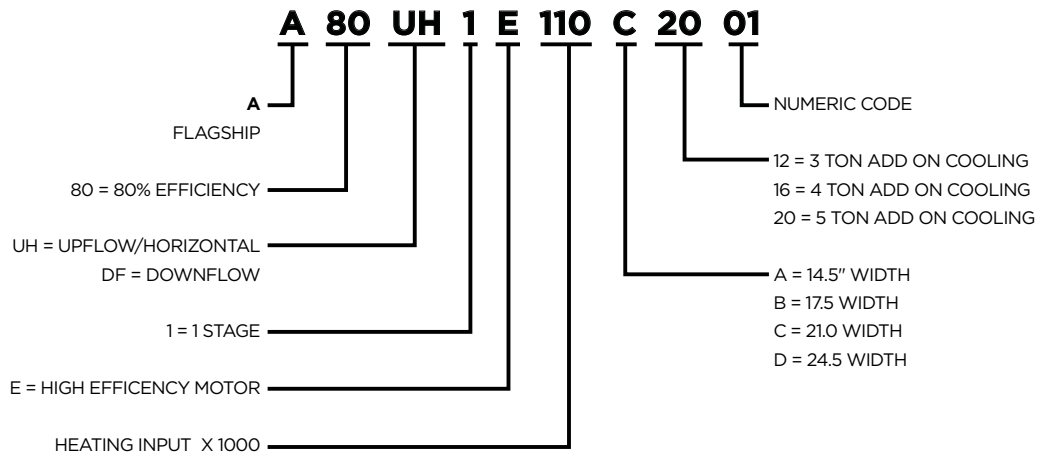
#### California Only

If installed in South Coast Air Quality Management District (SCAQMD) only: This furnace does not meet the SCAQMD Rule 1111 NOx emission limit (14 ng/J), and thus is subject to a mitigation fee of up to \$450. This furnace is not eligible for the Clean Air Furnace Rebate Program: [www.CleanAirFurnaceRebate.com](http://www.CleanAirFurnaceRebate.com).

If installed in San Joaquin Valley Air Pollution Control District (SJVAPCD) only: This furnace does not meet the SJVAPCD Rule 4905 NOx emission limit (14 ng/J), and thus is subject to a mitigation fee of up to \$450.



### MODEL NUMBER GUIDE



### PHYSICAL AND ELECTRICAL DATA

|                     | Model         | Input (Btuh) | Output (Btuh) | AFUE (ICS) | Nom. Cooling Capacity | Gas Inlet (in.) | Volts/ Hz/ Phase | Max. Time Delay Breaker or Fuse | Nominal F.L.A. | Trans. (V.A.) | Approx. Shipping Weight (lbs.) |
|---------------------|---------------|--------------|---------------|------------|-----------------------|-----------------|------------------|---------------------------------|----------------|---------------|--------------------------------|
| Upflow / Horizontal | A80UH1E045A12 | 44,000       | 36,000        | 80.00%     | 1-1/2 — 3             | 1/2             | 120-60-1         | 15                              | 6.8            | 40            | 111                            |
|                     | A80UH1E070A12 | 66,000       | 53,000        | 80.00%     | 1-1/2 — 3             | 1/2             | 120-60-1         | 15                              | 6.8            | 40            | 111                            |
|                     | A80UH1E070B12 | 66,000       | 53,000        | 80.00%     | 1-1/2 — 3             | 1/2             | 120-60-1         | 15                              | 6.8            | 40            | 127                            |
|                     | A80UH1E090B16 | 88,000       | 72,000        | 80.00%     | 2-1/2 — 4             | 1/2             | 120-60-1         | 15                              | 8.4            | 40            | 142                            |
|                     | A80UH1E090C20 | 88,000       | 72,000        | 80.00%     | 3 — 5                 | 1/2             | 120-60-1         | 15                              | 10.9           | 40            | 152                            |
|                     | A80UH1E110C20 | 110,000      | 90,000        | 80.00%     | 4 — 5                 | 1/2             | 120-60-1         | 15                              | 10.9           | 40            | 160                            |
|                     | A80UH1E135D20 | 132,000      | 107,000       | 80.00%     | 4 — 5                 | 1/2             | 120-60-1         | 15                              | 10.9           | 40            | 178                            |
| Downflow            | A80DF1E045A12 | 44,000       | 36,000        | 80.00%     | 2 — 3                 | 1/2             | 120-60-1         | 15                              | 6.8            | 40            | 113                            |
|                     | A80DF1E070A12 | 66,000       | 54,000        | 80.00%     | 2 — 3                 | 1/2             | 120-60-1         | 15                              | 6.8            | 40            | 119                            |
|                     | A80DF1E070B12 | 66,000       | 54,000        | 80.00%     | 2 — 3                 | 1/2             | 120-60-1         | 15                              | 6.8            | 40            | 128                            |
|                     | A80DF1E090B16 | 88,000       | 72,000        | 80.00%     | 3 — 4                 | 1/2             | 120-60-1         | 15                              | 8.4            | 40            | 140                            |
|                     | A80DF1E110C20 | 110,000      | 90,000        | 80.00%     | 4 — 5                 | 1/2             | 120-60-1         | 15                              | 10.9           | 40            | 160                            |

Note: For vent sizing and clearances to combustibles, please reference installation instructions.

**BLOWER PERFORMANCE DATA**

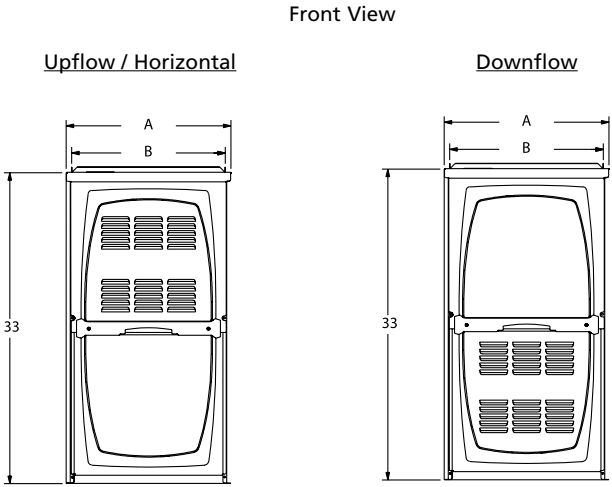
|                     | Model         | Motor Size (hp) | Blower Size | Temp Rise (°F) | Blower Speed | CFM @ External Static Pressure - " w.c. |      |      |      |      |      |      |
|---------------------|---------------|-----------------|-------------|----------------|--------------|-----------------------------------------|------|------|------|------|------|------|
|                     |               |                 |             |                |              | 0.20                                    | 0.30 | 0.40 | 0.50 | 0.60 | 0.70 | 0.80 |
| Upflow / Horizontal | A80UH1E045A12 | 1/2             | 10 x 8      | 15 - 45        | High         | 1320                                    | 1290 | 1265 | 1230 | 1190 | 1165 | 1130 |
|                     |               |                 |             |                | Med/High     | 1080                                    | 1055 | 1010 | 990  | 945  | 915  | 880  |
|                     |               |                 |             |                | Med          | 900                                     | 875  | 825  | 790  | 750  | 705  | 670  |
|                     |               |                 |             |                | Med/Low      | 805                                     | 750  | 710  | 660  | 630  | 570  | 535  |
|                     |               |                 |             |                | Low          | 700                                     | 640  | 595  | 535  | 500  | 435  | 380  |
|                     | A80UH1E070A12 | 1/2             | 10 x 10     | 40 - 70        | High         | 1400                                    | 1365 | 1335 | 1310 | 1285 | 1250 | 1220 |
|                     |               |                 |             |                | Med/High     | 1170                                    | 1145 | 1105 | 1075 | 1040 | 1010 | 975  |
|                     |               |                 |             |                | Med          | 1090                                    | 1055 | 1015 | 980  | 950  | 905  | 860  |
|                     |               |                 |             |                | Med/Low      | 1050                                    | 1025 | 985  | 945  | 905  | 870  | 830  |
|                     |               |                 |             |                | Low          | 880                                     | 845  | 795  | 760  | 705  | 665  | 625  |
|                     | A80UH1E070B12 | 1/2             | 10 x 10     | 40 - 70        | High         | 1355                                    | 1330 | 1290 | 1245 | 1225 | 1190 | 1160 |
|                     |               |                 |             |                | Med/High     | 1225                                    | 1190 | 1155 | 1115 | 1045 | 1000 | 925  |
|                     |               |                 |             |                | Med          | 1110                                    | 1060 | 1015 | 980  | 920  | 855  | 790  |
|                     |               |                 |             |                | Med/Low      | 1080                                    | 1035 | 970  | 930  | 865  | 790  | 735  |
|                     |               |                 |             |                | Low          | 885                                     | 825  | 770  | 695  | 625  | 540  | 445  |
|                     | A80UH1E090B16 | 3/4             | 10 x 10     | 35 - 65        | High         | 1730                                    | 1690 | 1645 | 1615 | 1590 | 1545 | N/A  |
|                     |               |                 |             |                | Med/High     | 1505                                    | 1460 | 1435 | 1395 | 1350 | 1300 | 1270 |
|                     |               |                 |             |                | Med          | 1380                                    | 1345 | 1310 | 1265 | 1210 | 1175 | 1140 |
|                     |               |                 |             |                | Med/Low      | 1310                                    | 1275 | 1240 | 1180 | 1150 | 1095 | 1040 |
|                     |               |                 |             |                | Low          | 1110                                    | 1065 | 1010 | 955  | 915  | 860  | 820  |
|                     | A80UH1E090C20 | 1               | 11-1/2 x 10 | 30 - 60        | High         | 2150                                    | 2125 | 2090 | 2060 | 2020 | 1980 | 1935 |
|                     |               |                 |             |                | Med/High     | 1865                                    | 1835 | 1800 | 1760 | 1725 | 1680 | 1635 |
|                     |               |                 |             |                | Med          | 1655                                    | 1635 | 1585 | 1545 | 1515 | 1465 | 1420 |
|                     |               |                 |             |                | Med/Low      | 1490                                    | 1450 | 1405 | 1370 | 1320 | 1265 | 1225 |
|                     |               |                 |             |                | Low          | 1340                                    | 1285 | 1235 | 1200 | 1145 | 1105 | 1055 |
|                     | A80UH1E110C20 | 1               | 11-1/2 x 10 | 35 - 65        | High         | 2135                                    | 2090 | 2050 | 2025 | 2010 | 1965 | 1905 |
|                     |               |                 |             |                | Med/High     | 1865                                    | 1830 | 1785 | 1740 | 1710 | 1670 | 1635 |
|                     |               |                 |             |                | Med          | 1630                                    | 1595 | 1550 | 1500 | 1470 | 1420 | 1380 |
|                     |               |                 |             |                | Med/Low      | 1470                                    | 1440 | 1385 | 1340 | 1305 | 1255 | 1215 |
|                     |               |                 |             |                | Low          | 1280                                    | 1235 | 1175 | 1130 | 1080 | 1015 | 975  |
|                     | A80UH1E135D20 | 1               | 11 x 11     | 30 - 60        | High         | 2390                                    | 2360 | 2285 | 2240 | 2225 | 2160 | 2105 |
|                     |               |                 |             |                | Med/High     | 2175                                    | 2140 | 2125 | 2060 | 2015 | 1955 | 1925 |
|                     |               |                 |             |                | Med          | 1935                                    | 1895 | 1850 | 1815 | 1785 | 1755 | 1715 |
|                     |               |                 |             |                | Med/Low      | 1735                                    | 1720 | 1660 | 1610 | 1535 | 1500 | 1435 |
|                     |               |                 |             |                | Low          | 1550                                    | 1485 | 1455 | 1415 | 1330 | 1265 | 1215 |

**BLOWER PERFORMANCE DATA - DOWNFLOW**

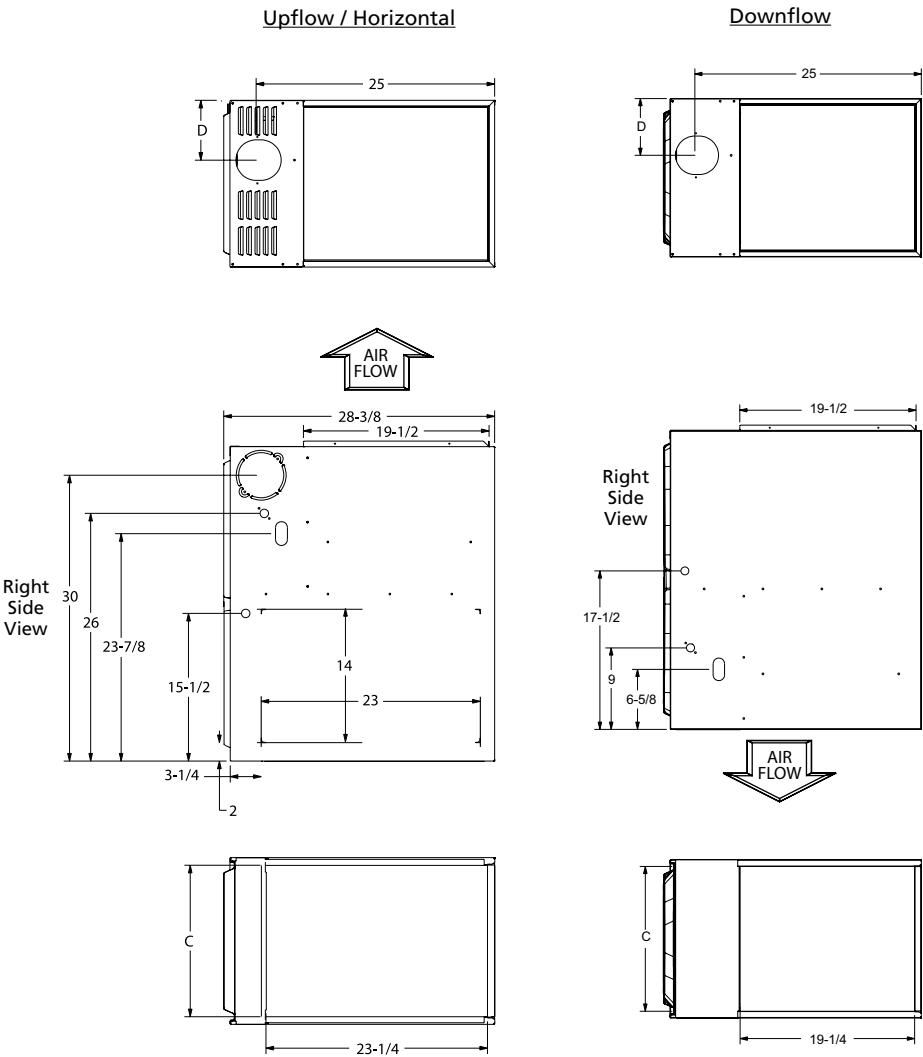
|          | Model         | Motor Size (hp) | Blower Size | Temp Rise (°F) | Blower Speed | CFM @ External Static Pressure - " w.c. |      |      |      |      |      |      |
|----------|---------------|-----------------|-------------|----------------|--------------|-----------------------------------------|------|------|------|------|------|------|
|          |               |                 |             |                |              | 0.20                                    | 0.30 | 0.40 | 0.50 | 0.60 | 0.70 | 0.80 |
| Downflow | A80DF1E045A12 | 1/2             | 10 x 8      | 15 - 45        | High         | 1375                                    | 1335 | 1320 | 1275 | 1245 | 1215 | 1175 |
|          |               |                 |             |                | Med/High     | 1145                                    | 1120 | 1075 | 1045 | 1000 | 970  | 925  |
|          |               |                 |             |                | Med          | 950                                     | 915  | 870  | 835  | 785  | 745  | 695  |
|          |               |                 |             |                | Med/Low      | 840                                     | 790  | 745  | 715  | 655  | 605  | 555  |
|          |               |                 |             |                | Low          | 725                                     | 665  | 625  | 565  | 520  | 455  | 400  |
|          | A80DF1E070A12 | 1/2             | 10 x 10     | 30 - 60        | High         | 1420                                    | 1400 | 1375 | 1340 | 1285 | 1210 | 1140 |
|          |               |                 |             |                | Med/High     | 1195                                    | 1180 | 1150 | 1120 | 1075 | 1065 | 1020 |
|          |               |                 |             |                | Med          | 1115                                    | 1070 | 1045 | 1010 | 985  | 955  | 920  |
|          |               |                 |             |                | Med/Low      | 1090                                    | 1055 | 1025 | 990  | 955  | 915  | 890  |
|          |               |                 |             |                | Low          | 920                                     | 900  | 845  | 820  | 770  | 730  | 675  |
|          | A80DF1E070B12 | 1/2             | 10 x 10     | 30 - 60        | High         | 1400                                    | 1360 | 1310 | 1280 | 1250 | 1220 | 1165 |
|          |               |                 |             |                | Med/High     | 1230                                    | 1205 | 1155 | 1110 | 1060 | 1000 | 935  |
|          |               |                 |             |                | Med          | 1125                                    | 1085 | 1050 | 985  | 935  | 865  | 795  |
|          |               |                 |             |                | Med/Low      | 1110                                    | 1055 | 1000 | 950  | 865  | 815  | 750  |
|          |               |                 |             |                | Low          | 900                                     | 845  | 790  | 705  | 645  | 590  | 480  |
|          | A80DF1E090B16 | 3/4             | 10 x 10     | 30 - 60        | High         | 1695                                    | 1660 | 1615 | 1570 | 1545 | N/A  | N/A  |
|          |               |                 |             |                | Med/High     | 1470                                    | 1425 | 1395 | 1360 | 1295 | 1265 | 1215 |
|          |               |                 |             |                | Med          | 1340                                    | 1290 | 1250 | 1210 | 1165 | 1120 | 1080 |
|          |               |                 |             |                | Med/Low      | 1280                                    | 1225 | 1185 | 1145 | 1085 | 1040 | 1000 |
|          |               |                 |             |                | Low          | 1105                                    | 1040 | 1005 | 945  | 865  | 810  | 755  |
|          | A80DF1E110C20 | 1               | 11-1/2 x 10 | 30 - 60        | High         | 2325                                    | 2280 | 2235 | 2165 | 2125 | 2090 | 2035 |
|          |               |                 |             |                | Med/High     | 2010                                    | 1940 | 1895 | 1845 | 1800 | 1755 | 1700 |
|          |               |                 |             |                | Med          | 1760                                    | 1705 | 1635 | 1595 | 1545 | 1510 | 1460 |
|          |               |                 |             |                | Med/Low      | 1570                                    | 1500 | 1440 | 1380 | 1320 | 1285 | 1255 |
|          |               |                 |             |                | Low          | 1375                                    | 1320 | 1265 | 1200 | 1170 | 1100 | 1030 |

DIMENSIONS

|                   | Model         | A      | B      | C      | D     |
|-------------------|---------------|--------|--------|--------|-------|
| Upflow/Horizontal | A80UH1E045A12 | 14-1/2 | 13-3/8 | 13     | 4-3/4 |
|                   | A80UH1E070A12 | 14-1/2 | 13-3/8 | 13     | 4-3/4 |
|                   | A80UH1E070B12 | 17-1/2 | 16-3/8 | 16     | 6-1/4 |
|                   | A80UH1E090B16 | 17-1/2 | 16-3/8 | 16     | 6-1/4 |
|                   | A80UH1E090C20 | 21     | 19-3/8 | 19-1/2 | 8     |
|                   | A80UH1E110C20 | 21     | 19-3/8 | 19-1/2 | 8     |
| Downflow          | A80DF1E045A12 | 14-1/2 | 13-3/8 | 13     | 4-3/4 |
|                   | A80DF1E070A12 | 14-1/2 | 13-3/8 | 13     | 4-3/4 |
|                   | A80DF1E070B12 | 17-1/2 | 16-3/8 | 16     | 6-1/4 |
|                   | A80DF1E090B16 | 17-1/2 | 16-3/8 | 16     | 6-1/4 |
|                   | A80DF1E110C20 | 21     | 19-7/8 | 19-1/2 | 8     |



Top View



# 4SCU20LX

## PRODUCT SPECIFICATIONS

UP TO 20 SEER  
VARIABLE CAPACITY AIR CONDITIONER

FORM NO. 4SCU20LX-100 (08/2019)



**COMFORT SYNC**

COMMUNICATING THERMOSTAT ENABLED

### INSTALLED BY THE BEST

- Specialized training is required for dealers offering the 20LX
- Installer training available through authorized distributors

### COMPRESSOR

- Inverter-driven Scroll Compressor for true variable capacity operation, precision environmental control, and exceptional energy savings
- R410A refrigerant
- Heavy-duty compressor sound blanket for quiet operation
- Internally protected against high temperature motor overload conditions

### CABINET

- Individual metal louvered panels are easily removeable for coil cleaning and service
- Specialized corner-mounted controls for easy service
- Baked polyester paint finished over galvanized steel for maximum durability
- Removable PVC coated wire fan discharge grill
- Removable service panel for internal access

### COILS

- Enhanced tube-and-fin coil design featuring MHT™ Technology
- Raised coil prevents debris from impeding airflow

### DESIGN

- Designed to perform in temperatures up to 125°F

### COMPONENTS

- 45-degree offset gauge ports for easy service
- Service valves positioned for quick installation and service
- Variable speed condenser fan motor
- Swept wing fan blade for quiet operation
- Factory installed crankcase heater
- Factory installed high and low pressure switches
- Thread-on pressure switches for simple, quick service
- Fan orifice for smoother airflow and sound level reduction
- Specialized sensors monitor ambient, liquid line, and coil temperatures for precision system control
- Charged for 15 feet of line set
- Requires Comfort Sync™ thermostat and a Comfort Sync™ enabled matching indoor unit

### WARRANTY

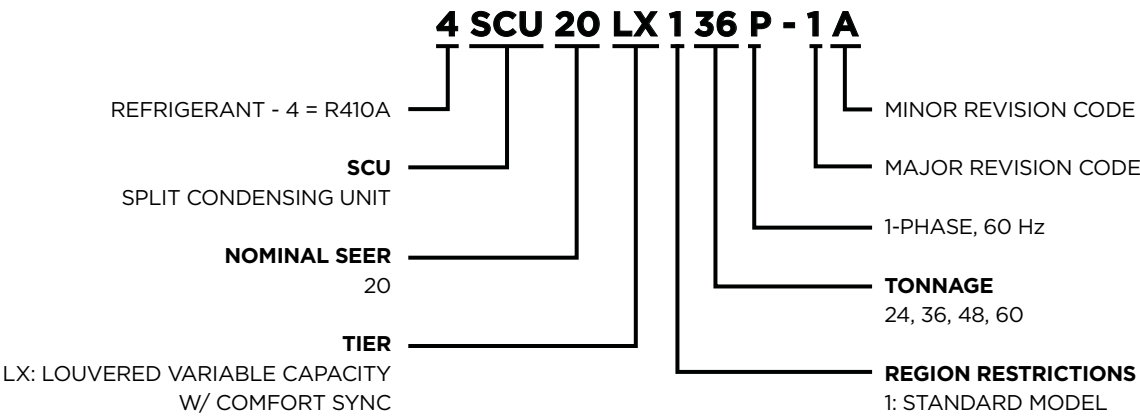
- 10 year limited warranty on compressor
- 10 year limited warranty on all parts, extended warranty available

*\*Warranty provides for a total of 10 years of limited warranty coverage (Standard 5-year limited parts warranty plus an additional 5-year limited extended parts warranty). Warranty must be registered online within 60 days of installation to qualify for 10-year coverage. Unregistered equipment defaults to 5-year coverage. Lifetime limited heat exchanger warranty applies to registered equipment only (Standard 20 years with no online registration). See full warranty at [www.alliedair.com](http://www.alliedair.com) for terms, conditions and exclusions.*





MODEL NUMBER GUIDE



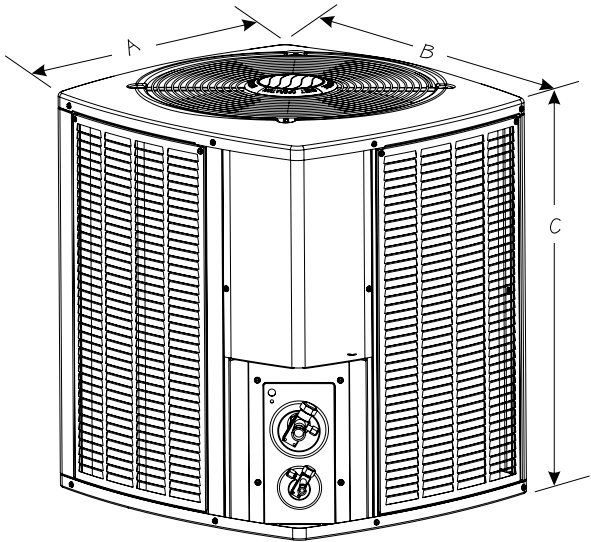
ELECTRICAL AND PHYSICAL DATA

| Model          | Voltage/Hz/<br>Phase | Voltage<br>Range | Min. Circuit<br>Amp. | Max. Over<br>Current<br>Device<br>(amps) | Compressor           |                           | Outdoor Fan Motor    |          |             | Weight<br>(lbs.) |
|----------------|----------------------|------------------|----------------------|------------------------------------------|----------------------|---------------------------|----------------------|----------|-------------|------------------|
|                |                      |                  |                      |                                          | Rated Load<br>(amps) | Locked<br>Rotor<br>(amps) | Rated Load<br>(amps) | Rated HP | Nom.<br>RPM |                  |
| 4SCU20LX124P-1 | 208-230/60/1         | 197-253          | 19.1                 | 30                                       | 13.0                 | 13                        | 2.8                  | 1/3      | VAR. SPD.   | 243              |
| 4SCU20LX136P-1 | 208-230/60/1         | 197-253          | 20.6                 | 30                                       | 14.2                 | 13                        | 2.8                  | 1/3      | VAR. SPD.   | 245              |
| 4SCU20LX148P-1 | 208-230/60/1         | 197-253          | 29.1                 | 50                                       | 21.0                 | 20                        | 2.8                  | 1/3      | VAR. SPD.   | 287              |
| 4SCU20LX160P-1 | 208-230/60/1         | 197-253          | 29.3                 | 50                                       | 21.2                 | 20                        | 2.8                  | 1/3      | VAR. SPD.   | 321              |

Note:  
Weights listed are unit weights with packaging

DIMENSIONS (IN.)

| Model No.      | Dimensions (inch) |           |            |
|----------------|-------------------|-----------|------------|
|                | A - Width         | B - Depth | C - Height |
| 4SCU20LX124P-1 | 37.75             | 35.75     | 37.5       |
| 4SCU20LX136P-1 | 37.75             | 35.75     | 37.5       |
| 4SCU20LX148P-1 | 37.75             | 35.75     | 43.75      |
| 4SCU20LX160P-1 | 37.75             | 35.75     | 43.75      |



## UNIT SOUND RATINGS

| Model          | Sound Power <sup>1</sup><br>(Low) | Estimated Sound Pressure (dBA) <sup>2</sup> (Low) |                          |                            | Sound Power <sup>1</sup><br>(High) | Estimated Sound Pressure (dBA) <sup>2</sup> (High) |                          |                            |
|----------------|-----------------------------------|---------------------------------------------------|--------------------------|----------------------------|------------------------------------|----------------------------------------------------|--------------------------|----------------------------|
|                |                                   | Approximate Distance <sup>3</sup>                 |                          |                            |                                    | Approximate Distance <sup>3</sup>                  |                          |                            |
|                |                                   | One Meter<br>(3.3 feet)                           | Two Meters<br>(6.6 feet) | Three Meters<br>(9.8 feet) |                                    | One Meter<br>(3.3 feet)                            | Two Meters<br>(6.6 feet) | Three Meters<br>(9.8 feet) |
| 4SCU20LX124P-1 | 65                                | 57                                                | 51                       | 47                         | 69                                 | 61                                                 | 55                       | 51                         |
| 4SCU20LX136P-1 | 67                                | 59                                                | 53                       | 49                         | 72                                 | 64                                                 | 58                       | 54                         |
| 4SCU20LX148P-1 | 68                                | 60                                                | 54                       | 50                         | 71                                 | 63                                                 | 57                       | 53                         |
| 4SCU20LX160P-1 | 69                                | 61                                                | 55                       | 51                         | 72                                 | 64                                                 | 58                       | 54                         |

1 Rated in accordance with AHRI standard 270 (2015)

2 Rated in accordance with AHRI standard 275 (2010)

3 Based only on distance factor; other factors may change this value such as:

- Unit location (reflective surfaces adjacent to the unit)
- Barrier shielding sources
- Sound path/elevation
- Outside noise sources

## REFRIGERATION DATA

| Model          | Refrig. Charge<br>(oz.) * | TXV     | Refrigerant Line Size |        | Outdoor Unit Connection |        | Indoor Unit Connection |        |
|----------------|---------------------------|---------|-----------------------|--------|-------------------------|--------|------------------------|--------|
|                |                           |         | Suction               | Liquid | Suction                 | Liquid | Suction                | Liquid |
| 4SCU20LX124P-1 | 113                       | H4TXV01 | 3/4                   | 3/8    | 3/4                     | 3/8    | 3/4                    | 3/8    |
| 4SCU20LX136P-1 | 134                       | H4TXV02 | 7/8                   | 3/8    | 7/8                     | 3/8    | 7/8                    | 3/8    |
| 4SCU20LX148P-1 | 154                       | H4TXV03 | 7/8                   | 3/8    | 7/8                     | 3/8    | 7/8                    | 3/8    |
| 4SCU20LX160P-1 | 207                       | H4TXV03 | 1 1/8                 | 3/8    | 7/8 **                  | 3/8    | 7/8                    | 3/8    |

\* Factory charged for 15 feet of line set; adjust per installation instructions.

\*\* Reducer fitting supplied with OD unit

# 4SCU16LS

## PRODUCT SPECIFICATIONS

## 16 SEER SPLIT SYSTEM TWO-STAGE AIR CONDITIONER

FORM NO. 4SCU16LS-100 (10/2019)



COMFORT SYNC

COMMUNICATING THERMOSTAT ENABLED

### COMPRESSOR

- High-efficiency 2 stage Copeland UltraTech™ scroll compressor
- R410a refrigerant
- Heavy-duty compressor sound blanket for quiet operation
- Internally protected against high temperature motor overload conditions

### CABINET

- Four metal louvered panels easily removable for coil cleaning and service
- Corner-mounted controls for easy service
- Rounded corner posts for safety and attractive appearance
- Baked polyester paint finished over galvanized steel for maximum durability
- Removable PVC coated wire fan discharge grill
- External gauge ports for easy service

### COILS

- Enhanced tube-and-fin coil design featuring MHT™ Technology
- Raised coil prevents debris from impeding airflow

### DESIGN

- Designed to perform in temperatures up to 125 degrees F

### COMPONENTS

- Communicating capable control board works with “Comfort Sync” thermostat (or conventional thermostat)
- Self diagnostics control board for quick trouble shooting; saves up to 10 fault codes regardless of power interrupt
- Factory installed high and low pressure switches
- Thread-on type pressure switches with valve core for quick service
- Service valves mounted for easy brazing and service
- Factory installed crankcase heater
- Factory installed TXV for excellent refrigeration control
- Fan orifice for sound reduction and efficient performance
- Charged for 15 feet of line set
- Can be matched with Comfort Sync™ enabled or conventional indoor unit

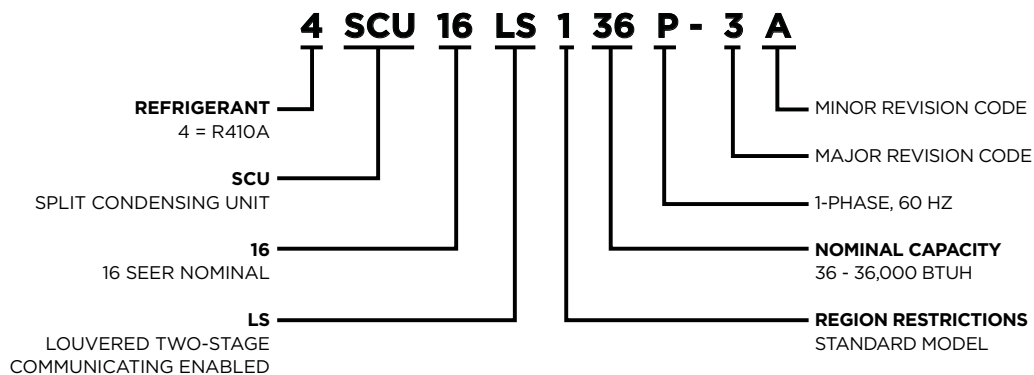
### WARRANTY

10 year limited warranty on compressor, 10 year limited warranty on all parts, extended warranty available\*

*\*Warranty provides for a total of 10 years of limited warranty coverage (Standard 5-year limited parts warranty plus an additional 5-year limited extended parts warranty). Warranty must be registered online within 60 days of installation to qualify for 10-year coverage. Unregistered equipment defaults to 5-year coverage. See full warranty at [www.alliedair.com](http://www.alliedair.com) for terms, conditions and exclusions.*



## MODEL NUMBER GUIDE



## PHYSICAL AND ELECTRICAL

| Model          | Voltage/Hz/<br>Phase | Voltage<br>Range | Min.<br>Circuit<br>Amp. | Max.<br>Over<br>Current<br>Device<br>(amps) | Compressor              |                           | Fan Motor               |             |             | Weight<br>(lbs.) |
|----------------|----------------------|------------------|-------------------------|---------------------------------------------|-------------------------|---------------------------|-------------------------|-------------|-------------|------------------|
|                |                      |                  |                         |                                             | Rated<br>Load<br>(amps) | Locked<br>Rotor<br>(amps) | Rated<br>Load<br>(amps) | Rated<br>HP | Nom.<br>RPM |                  |
| 4SCU16LS124P-3 | 208-230/60/1         | 197-253          | 15.7                    | 25                                          | 11.7                    | 58                        | 1.0                     | 1/6         | 825         | 212              |
| 4SCU16LS136P-3 | 208-230/60/1         | 197-253          | 20.2                    | 35                                          | 15.3                    | 83                        | 1.1                     | 1/6         | 825         | 245              |
| 4SCU16LS148P-3 | 208-230/60/1         | 197-253          | 28.2                    | 45                                          | 21.2                    | 104                       | 1.1                     | 1/6         | 825         | 287              |
| 4SCU16LS160P-3 | 208-230/60/1         | 197-253          | 35.6                    | 60                                          | 27.1                    | 153                       | 1.7                     | 1/4         | 825         | 332              |

Note: Weights listed are unit weights with packaging

## UNIT SOUND RATINGS

| Model          | Sound<br>Power <sup>1</sup> | Estimated Sound Pressure (dBA) <sup>2</sup> |                          |                            |
|----------------|-----------------------------|---------------------------------------------|--------------------------|----------------------------|
|                |                             | Approximate Distance <sup>3</sup>           |                          |                            |
|                |                             | One Meter<br>(3.3 feet)                     | Two Meters<br>(6.6 feet) | Three Meters<br>(9.8 feet) |
| 4SCU16LS124P-3 | 74                          | 66                                          | 60                       | 56                         |
| 4SCU16LS136P-3 | 74                          | 66                                          | 60                       | 56                         |
| 4SCU16LS148P-3 | 76                          | 68                                          | 62                       | 58                         |
| 4SCU16LS160P-3 | 76                          | 68                                          | 62                       | 58                         |

<sup>1</sup> Rated in accordance with AHRI standard 270 (2015)

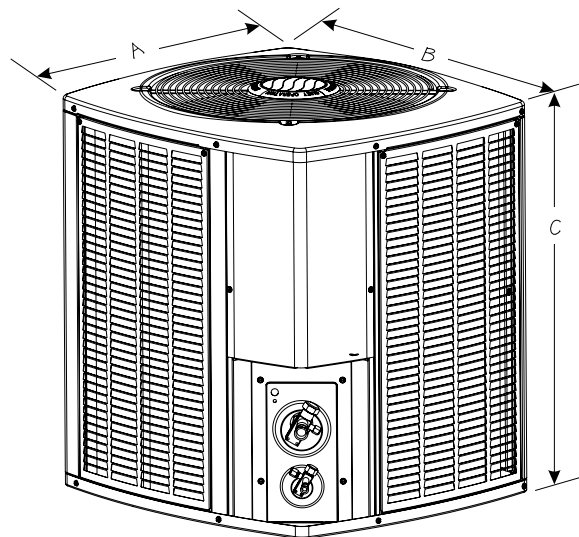
<sup>2</sup> Rated in accordance with AHRI standard 275 (2010)

<sup>3</sup> Based only on distance factor; other factors may change this value such as:

- Unit location (reflective surfaces adjacent to the unit)
- Barrier shielding sources
- Sound path/elevation
- Outside noise sources

## DIMENSIONS (IN.)

| Model No.      | A - Width | B - Depth | C - Height |
|----------------|-----------|-----------|------------|
| 4SCU16LS124P-3 | 29.25     | 31.25     | 43.75      |
| 4SCU16LS136P-3 | 29.25     | 31.25     | 29.75      |
| 4SCU16LS148P-3 | 29.25     | 31.25     | 37.75      |
| 4SCU16LS160P-3 | 35.75     | 37.75     | 43.75      |



# 4SCU16LE

## PRODUCT SPECIFICATIONS

**HIGH EFFICIENCY  
SPLIT SYSTEM AIR CONDITIONER  
UP TO 16 SEER**

FORM NO. 4SCU16LE-100 (09/2019)



### COMPRESSOR

- High-efficiency scroll compressor
- R410A refrigerant
- Grommet mounted compressor for quiet operation
- Internally protected against high temperature motor overload conditions
- Heavy-duty compressor sound blanket for quiet operation factory installed

### CABINET

- Full metal louvered panel with 2 screws to remove for ease of coil cleaning and service
- Corner-mounted controls for easy service
- Rounded corners for safety and attractive, clean appearance
- Baked polyester paint finished over galvanized steel for maximum durability
- Removable PVC coated wire fan discharge grill
- External gauge ports for easy service

### COILS

- Omniguard™ total corrosion protection technology designed coil
- Enhanced tube-and-fin coil design featuring MHT™ Technology
- Lanced fins for maximum heat transfer
- Every coil factory tested for leakproof construction
- Raised coil prevents debris from impeding airflow

### COMPONENTS

- 45-degree offset gauge ports for easy service
- Factory installed high and low pressure switches
- Thread-on pressure switches with Schrader core for simple, quick replacement
- Filter drier shipped loose for installation flexibility
- Fan orifice for smoother airflow and sound level reduction
- Charged for 15 feet of line set
- Sealed Contactor with lugs

### WARRANTY

10 year limited warranty on compressor  
10 year limited warranty on all parts, extended warranty available\*

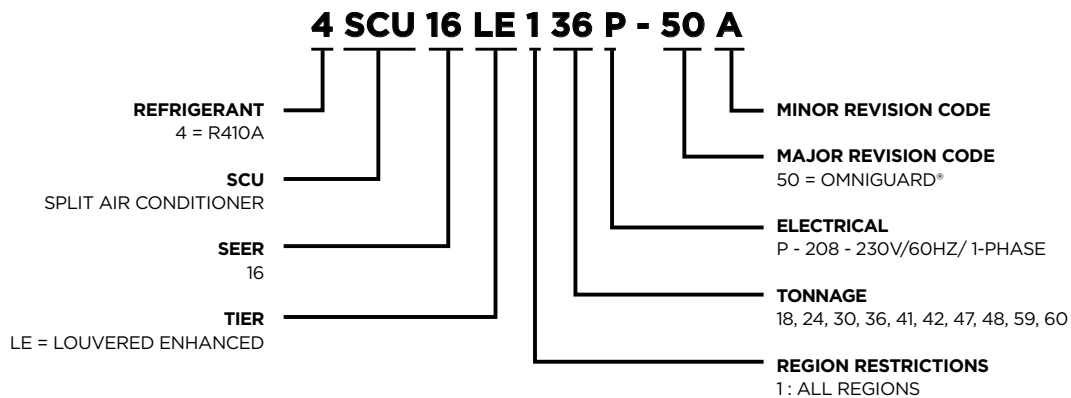
*\*Warranty provides for a total of 10 years of limited warranty coverage (Standard 5-year limited parts warranty plus an additional 5-year limited extended parts warranty). Warranty must be registered online within 60 days of installation to qualify for 10-year coverage. Unregistered equipment defaults to 5-year coverage. See full warranty at [www.alliedair.com](http://www.alliedair.com) for terms, conditions and exclusions.*

### **NOTE:**

For the latest AHRI system matches, please visit [www.alliedratings.com](http://www.alliedratings.com) or [www.AHRIdirectory.org](http://www.AHRIdirectory.org)



### MODEL NUMBER GUIDE

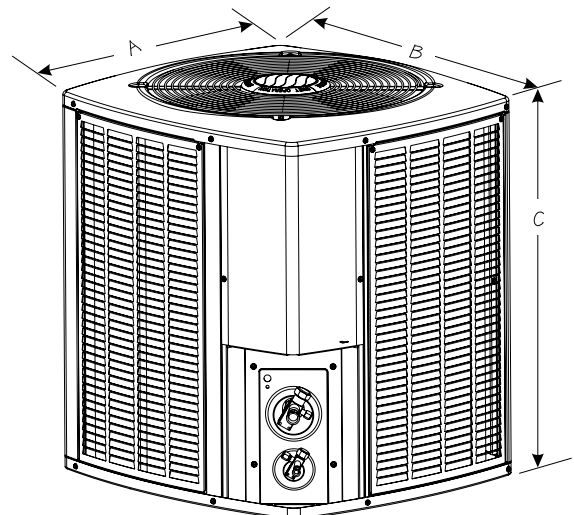


| Model           | Voltage/Hz/Phase | Voltage Range | Min. Circuit Amp. | Max. Over Current Device (amps) | Compressor        |                     | Outdoor Fan Motor |          |          |
|-----------------|------------------|---------------|-------------------|---------------------------------|-------------------|---------------------|-------------------|----------|----------|
|                 |                  |               |                   |                                 | Rated Load (amps) | Locked Rotor (amps) | Rated Load (amps) | Rated HP | Nom. RPM |
| 4SCU16LE118P-50 | 208-230/60/1     | 197-253       | 11.9              | 20                              | 9                 | 48                  | 0.7               | 1/10     | 1075     |
| 4SCU16LE124P-50 | 208-230/60/1     | 197-253       | 14.6              | 25                              | 10.9              | 52                  | 1                 | 1/6      | 825      |
| 4SCU16LE130P-50 | 208-230/60/1     | 197-253       | 17                | 25                              | 12.8              | 63                  | 1                 | 1/6      | 825      |
| 4SCU16LE136P-50 | 208-230/60/1     | 197-253       | 18                | 30                              | 13.6              | 79                  | 1                 | 1/6      | 825      |
| 4SCU16LE141P-50 | 208-230/60/1     | 197-253       | 19.3              | 30                              | 14.7              | 75                  | 1                 | 1/6      | 825      |
| 4SCU16LE142P-50 | 208-230/60/1     | 197-253       | 23.4              | 40                              | 17.9              | 112                 | 1                 | 1/6      | 825      |
| 4SCU16LE147P-50 | 208-230/60/1     | 197-253       | 22.9              | 35                              | 16.9              | 94                  | 1.8               | 1/3      | 825      |
| 4SCU16LE148P-50 | 208-230/60/1     | 197-253       | 24.2              | 40                              | 18                | 94                  | 1.7               | 1/4      | 825      |
| 4SCU16LE159P-50 | 208-230/60/1     | 197-253       | 28.8              | 45                              | 20.8              | 127                 | 2.8               | 1/3      | V Spd    |
| 4SCU16LE160P-50 | 208-230/60/1     | 197-253       | 29.6              | 50                              | 22.2              | 128                 | 1.8               | 1/3      | 825      |

### UNIT DIMENSIONS (IN.)

| Model           | Dimensions (inch) |           |            | Shipping Weight (Lbs.) |
|-----------------|-------------------|-----------|------------|------------------------|
|                 | A - Width         | B - Depth | C - Height |                        |
| 4SCU16LE118P-50 | 24.75             | 26.75     | 29.75      | 155                    |
| 4SCU16LE124P-50 | 29.38             | 31.25     | 29.75      | 171                    |
| 4SCU16LE130P-50 | 29.38             | 31.25     | 37.75      | 187                    |
| 4SCU16LE136P-50 | 29.38             | 31.25     | 29.75      | 205                    |
| 4SCU16LE141P-50 | 29.38             | 31.25     | 37.75      | 227                    |
| 4SCU16LE142P-50 | 29.38             | 31.25     | 37.75      | 234                    |
| 4SCU16LE147P-50 | 35.75             | 37.75     | 33.75      | 272                    |
| 4SCU16LE148P-50 | 29.38             | 31.25     | 37.75      | 255                    |
| 4SCU16LE159P-50 | 35.75             | 37.75     | 43.75      | 284                    |
| 4SCU16LE160P-50 | 35.75             | 37.75     | 43.75      | 284                    |

Note:  
Dimensions listed are unit sizes w/o packaging



## SOUND RATINGS

| Model           | Sound Power <sup>1</sup> | Estimated Sound Pressure (dBA) <sup>2</sup> |                        |                        |
|-----------------|--------------------------|---------------------------------------------|------------------------|------------------------|
|                 |                          | Approximate Distance <sup>3</sup>           |                        |                        |
|                 |                          | 3.3 Feet<br>(1 Meter)                       | 6.6 Feet<br>(2 Meters) | 9.8 Feet<br>(3 Meters) |
| 4SCU16LE118P-50 | 70                       | 62                                          | 56                     | 52                     |
| 4SCU16LE124P-50 | 77                       | 69                                          | 63                     | 59                     |
| 4SCU16LE130P-50 | 75                       | 67                                          | 61                     | 57                     |
| 4SCU16LE136P-50 | 78                       | 70                                          | 64                     | 60                     |
| 4SCU16LE141P-50 | 74                       | 66                                          | 60                     | 56                     |
| 4SCU16LE142P-50 | 77                       | 69                                          | 63                     | 59                     |
| 4SCU16LE147P-50 | 79                       | 71                                          | 65                     | 61                     |
| 4SCU16LE148P-50 | 76                       | 68                                          | 62                     | 58                     |
| 4SCU16LE159P-50 | 77                       | 69                                          | 63                     | 59                     |
| 4SCU16LE160P-50 | 78                       | 70                                          | 64                     | 60                     |

## REFRIGERATION DATA

| Model           | Refrig.<br>Charge<br>(oz.) * | Piston<br>Size | TXV     | Refrigerant Line Size |        | Outdoor Unit<br>Connection |        | Indoor Unit<br>Connection |        |
|-----------------|------------------------------|----------------|---------|-----------------------|--------|----------------------------|--------|---------------------------|--------|
|                 |                              |                |         | Suction               | Liquid | Suction                    | Liquid | Suction                   | Liquid |
| 4SCU16LE118P-50 | 73                           | 0.052          | H4TXV01 | 3/4                   | 3/8    | 3/4                        | 3/8    | 3/4                       | 3/8    |
| 4SCU16LE124P-50 | 73                           | 0.060          | H4TXV01 | 3/4                   | 3/8    | 3/4                        | 3/8    | 3/4                       | 3/8    |
| 4SCU16LE130P-50 | 100                          | 0.067          | H4TXV01 | 3/4                   | 3/8    | 3/4                        | 3/8    | 3/4                       | 3/8    |
| 4SCU16LE136P-50 | 113                          | 0.072          | H4TXV02 | 7/8                   | 3/8    | 7/8                        | 3/8    | 7/8                       | 3/8    |
| 4SCU16LE141P-50 | 144                          | †              | H4TXV02 | 7/8                   | 3/8    | 7/8                        | 3/8    | 7/8                       | 3/8    |
| 4SCU16LE142P-50 | 140                          | 0.081          | H4TXV02 | 7/8                   | 3/8    | 7/8                        | 3/8    | 7/8                       | 3/8    |
| 4SCU16LE147P-50 | 176                          | †              | H4TXV02 | 7/8                   | 3/8    | 7/8                        | 3/8    | 7/8                       | 3/8    |
| 4SCU16LE148P-50 | 156                          | 0.083          | H4TXV02 | 7/8                   | 3/8    | 7/8                        | 3/8    | 7/8                       | 3/8    |
| 4SCU16LE159P-50 | 192                          | †              | H4TXV03 | 1 1/8                 | 3/8    | 7/8**                      | 3/8    | 7/8                       | 3/8    |
| 4SCU16LE160P-50 | 192                          | 0.097          | H4TXV03 | 1 1/8                 | 3/8    | 7/8**                      | 3/8    | 7/8                       | 3/8    |

\*Factory charged for 15 feet of line set

\*\* Adapter shipped with unit

† TXV only



# 4SCU13LE

## PRODUCT SPECIFICATIONS

## 13 SEER SPLIT SYSTEM AIR CONDITIONER

FORM NO. 4SCU13LE-100 (09/2019)



### COMPRESSOR

- High-efficiency scroll compressor
- R410a refrigerant
- Grommet-mounted compressor for quiet operation
- Internally protected against high temperature motor overload conditions

### CABINET

- Full metal louvered panel with 2 screws to remove for ease of coil cleaning and service
- Corner-mounted controls for easy service
- Rounded corners for safety and attractive, clean appearance
- Baked polyester paint finished over galvanized steel for maximum durability
- Removable PVC-coated wire fan discharge grill
- External gauge ports for easy service

### COILS

- Enhanced aluminum fins and copper tubing for high efficiency and capacity
- Raised coil prevents debris from collecting in bottom of coil and causing loss of airflow

### COMPONENTS

- Filter drier shipped loose for installation flexibility
- Service valves positioned for quick installation with 45 degree gauge ports
- Indoor coil orifice shipped with outdoor unit for correct match
- Charged for 15 ft. of line set
- Factory installed high and low pressure switches
- Sealed contactor with lugs

### DESIGN

- Designed for ambients up to 125°F

### ACCESSORIES

- Low ambient control
- Thermal expansion valve kits
- Crankcase heater
- Hard start kit
- Sound blanket
- Loss of charge kit
- Time delay
- Short cycle protection
- Freezestat kit

### WARRANTY

10 year limited warranty on compressor, 10 year limited warranty on all parts, extended warranty available\*

*\*Warranty provides for a total of 10 years of limited warranty coverage (Standard 5-year limited parts warranty plus an additional 5-year limited extended parts warranty). Warranty must be registered online within 60 days of installation to qualify for 10-year coverage. Unregistered equipment defaults to 5-year coverage. See full warranty at [www.alliedair.com](http://www.alliedair.com) for terms, conditions and exclusions.*

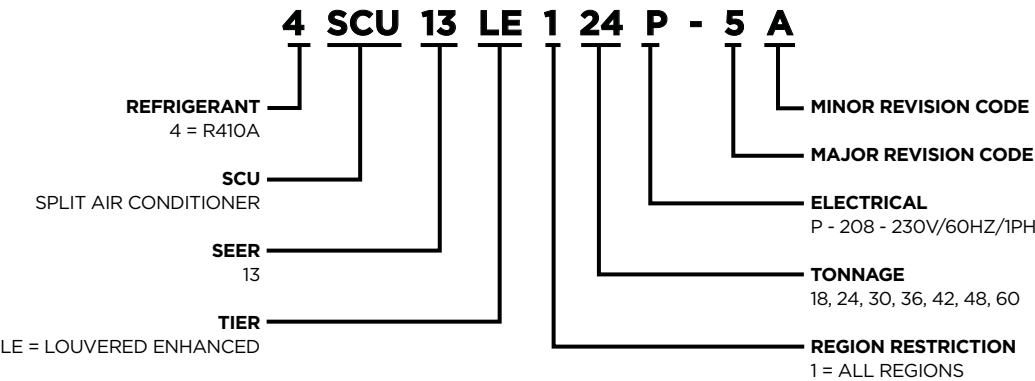
#### NOTE:

For the latest ratings, please see  
[www.alliedratings.com](http://www.alliedratings.com) or [www.AHRIdirectory.org](http://www.AHRIdirectory.org)





MODEL NUMBER GUIDE

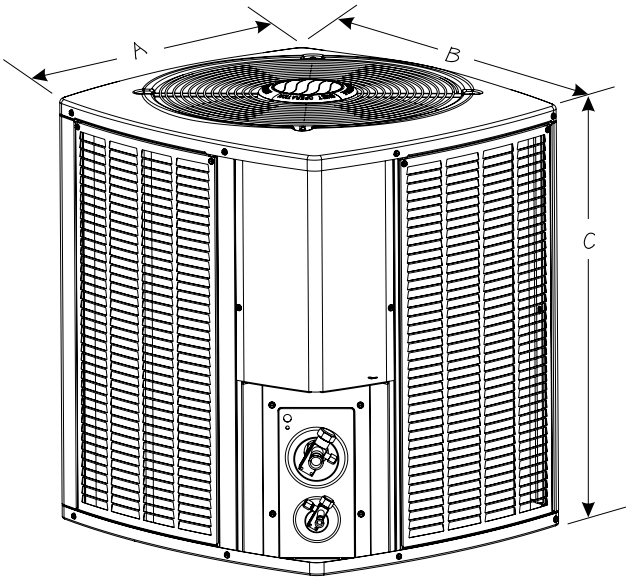


PHYSICAL AND ELECTRICAL DATA

| Model          | Voltage/Hz/<br>Phase | Voltage<br>Range | Min.<br>Circuit<br>Amp. | Max. Over<br>Current<br>Device<br>(amps) | Compressor              |                           | Fan Motor               |             |             |
|----------------|----------------------|------------------|-------------------------|------------------------------------------|-------------------------|---------------------------|-------------------------|-------------|-------------|
|                |                      |                  |                         |                                          | Rated<br>Load<br>(amps) | Locked<br>Rotor<br>(amps) | Rated<br>Load<br>(amps) | Rated<br>HP | Nom.<br>RPM |
| 4SCU13LE118P-5 | 208-230/60/1         | 197-253          | 10.9                    | 15                                       | 8.1                     | 39                        | 0.7                     | 1/10        | 1010        |
| 4SCU13LE124P-5 | 208-230/60/1         | 197-253          | 14.1                    | 20                                       | 10.7                    | 53                        | 0.7                     | 1/10        | 1010        |
| 4SCU13LE130P-5 | 208-230/60/1         | 197-253          | 15.6                    | 25                                       | 11.6                    | 59                        | 1.1                     | 1/5         | 1090        |
| 4SCU13LE136P-5 | 208-230/60/1         | 197-253          | 20.1                    | 35                                       | 15.2                    | 70                        | 1.1                     | 1/5         | 1090        |
| 4SCU13LE142P-5 | 208-230/60/1         | 197-253          | 28.1                    | 45                                       | 21.1                    | 90                        | 1.7                     | 1/4         | 825         |
| 4SCU13LE148P-5 | 208-230/60/1         | 197-253          | 31.9                    | 50                                       | 24.1                    | 100                       | 1.7                     | 1/4         | 825         |
| 4SCU13LE160P-5 | 208-230/60/1         | 197-253          | 29.4                    | 50                                       | 22.1                    | 125                       | 1.7                     | 1/4         | 830         |

UNIT DIMENSIONS (IN.)

| Model No.      | Dimensions |           |            | Shipping<br>Weight (lbs.) |
|----------------|------------|-----------|------------|---------------------------|
|                | A - width  | B - depth | C - Height |                           |
| 4SCU13LE118P-5 | 24.75      | 26.75     | 25.75      | 140                       |
| 4SCU13LE124P-5 | 24.75      | 26.75     | 25.75      | 137                       |
| 4SCU13LE130P-5 | 24.75      | 26.75     | 29.75      | 149                       |
| 4SCU13LE136P-5 | 24.75      | 26.75     | 29.75      | 157                       |
| 4SCU13LE142P-5 | 29.38      | 31.25     | 29.75      | 201                       |
| 4SCU13LE148P-5 | 29.38      | 31.25     | 33.75      | 204                       |
| 4SCU13LE160P-5 | 29.38      | 31.25     | 29.75      | 231                       |



Note:  
Weights listed are unit weights with packaging  
Dimensions listed are unit sizes w/o packaging

**SOUND RATINGS**

| Model          | Sound Power <sup>1</sup> | Estimated Sound Pressure (dBA) <sup>2</sup> |                        |                        |
|----------------|--------------------------|---------------------------------------------|------------------------|------------------------|
|                |                          | Approximate Distance <sup>3</sup>           |                        |                        |
|                |                          | 3.3 Feet<br>(1 Meter)                       | 6.6 Feet<br>(2 Meters) | 9.8 Feet<br>(3 Meters) |
| 4SCU13LE118P-5 | 72                       | 64                                          | 58                     | 54                     |
| 4SCU13LE124P-5 | 72                       | 64                                          | 58                     | 54                     |
| 4SCU13LE130P-5 | 74                       | 66                                          | 60                     | 56                     |
| 4SCU13LE136P-5 | 74                       | 66                                          | 60                     | 56                     |
| 4SCU13LE142P-5 | 76                       | 68                                          | 62                     | 58                     |
| 4SCU13LE148P-5 | 77                       | 69                                          | 63                     | 59                     |
| 4SCU13LE160P-5 | 78                       | 70                                          | 64                     | 60                     |

<sup>1</sup> Rated in accordance with AHRI standard 270 (2015). AHRI Standard 270 establishes a method of rating outdoor unitary equipment in terms of Sound Power.

<sup>2</sup> Rated in accordance with AHRI standard 275 (2010). AHRI Standard 275 provides the calculations for estimating the A-Weighted Sound Pressure at a given distance from the equipment. That is a more useful number because that is what humans will hear.

<sup>3</sup> Based only on distance factor; other factors may change this value such as:

- Unit location (reflective surfaces adjacent to the unit)
- Barrier shielding sources
- Sound path/elevation
- Outside noise sources

**ACCESSORIES**

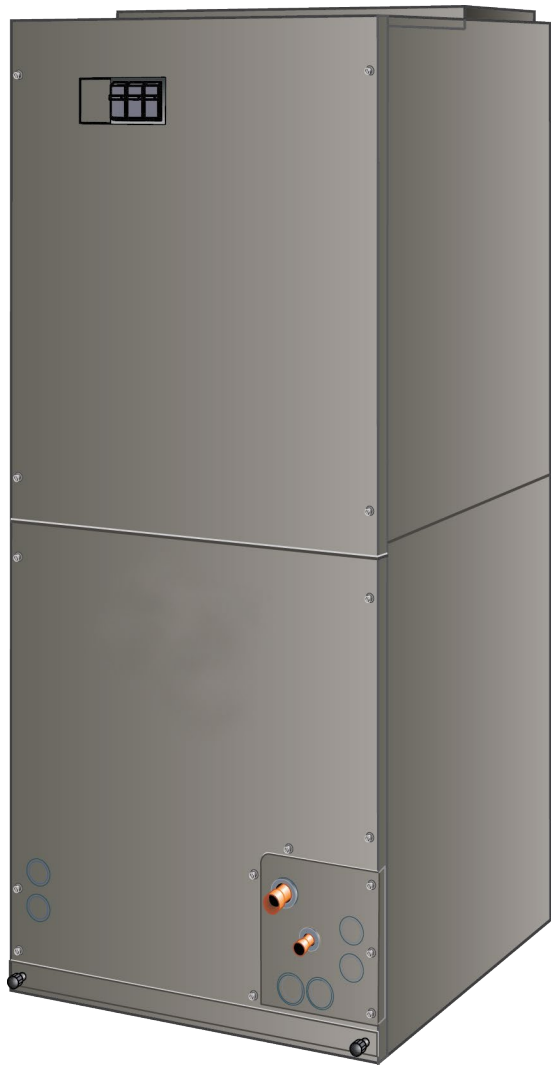
| System Accessory                               | Where Used        | Kit Number | Purpose                                                                                                       |
|------------------------------------------------|-------------------|------------|---------------------------------------------------------------------------------------------------------------|
| Liquid Line solenoid                           | All models        | 60M52      | Prevents liquid migration to the compressor especially for high liquid riser applications                     |
| Low ambient (cooling operation)                | All models        | 34M72      | Enables cooling demand down to 30 °F. Will require freeze stat, CC heater and TXV                             |
| Compressor Short Cycle protector               | All models        | 47J27      | Delays compressor start 5-7 minutes to prevent short cycling                                                  |
| Hard Start                                     | 18                | 10J42      | Scroll compressors usually do not require hard start; maybe needed for utility brown-out or low voltage areas |
| Hard Start                                     | 24 thru 60        | 88M91      |                                                                                                               |
| Crankcase Heater                               | 18, 24, 30, 36    | 93M04      | Prevents liquid migration to compressor in cold weather                                                       |
| Crankcase Heater                               | 42, 48, 60        | 93M05      |                                                                                                               |
| Sound Cover                                    | Factory Installed |            | Lowers compressor sound level                                                                                 |
| Loss of Charge Kit                             | Factory Installed |            | Protects the compressor if refrigerant charge is too low                                                      |
| Additional System Accessories (indoor section) |                   |            |                                                                                                               |
| TXV Kit                                        | 18, 24, 30        | H4TXV01    | TXVs provide superior refrigerant flow control, comfort and efficiency compared to pistons                    |
|                                                | 36, 42, 48        | H4TXV02    |                                                                                                               |
|                                                | 60                | H4TXV03    |                                                                                                               |
| Freeze stat                                    | All models        | 93G35      | Protects the compressor at low suction pressure conditions                                                    |
| Over flow switch                               | All models        | 11U75      | Turn the system off, if condensate water overflows due to clogged drain pipes                                 |
| Single point power supply                      | All models        | 21H39      | Provide single power source in one junction box                                                               |
| Auxiliary blower relay                         | All models        | 85W66      | Maybe required to select multiple indoor blower speeds                                                        |

# BCE7S

## PRODUCT SPECIFICATIONS

## ENHANCED AIR HANDLER WITH VARIABLE SPEED AND COMMUNICATING CONTROLS

FORM NO. BCE7S-100 (08/2019)



### APPLICATION

- 2 - 5 ton systems
- Upflow, horizontal, and downflow capable
- Sequenced for demand management
- External access to heater circuit breakers

### INSTALLATION

- Shipped in one piece, but may be disassembled into two separate pieces for ease of installation
- Multiposition - Factory ready for upflow, downflow, and horizontal left/right applications
- No external screw heads on the sides of the unit to fit in tight spaces

### CABINET

- Thick foil faced insulation
- Improved gasketing on doors for better fit
- Filter rack with thumb screws for easy access and removal
- Baked polyester paint finished over galvanized steel for maximum durability
- Thick rubber gaskets between each section insure tight seal when converted to downflow
- High-strength, UV and heat resistant polymer drain pan designed for corrosion resistance
- Antimicrobial polymer drain pan built to resist mold and mildew growth
- 2% or less air leakage

### COILS

- Omniguard™ total corrosion protection technology designed coil
- Enhanced tube-and-fin coil design featuring MHT™ Technology
- Lanced fins for maximum heat transfer
- Factory tested for leakproof construction and precharged with nitrogen holding charge

### COMPONENTS

- Efficient ECM variable speed motor
- 70 VA transformer
- Field installed 5 - 25kW electric heat kits with easy plug connections
- Built-in blower time delay for increased efficiency
- Sleeves on distributor tubing for added protection

### CONTROLS

- Communicating control enabled
- Thermostat flexibility: works with the ComfortSync T-Stat or a conventional 24V T-Stat
- Self diagnostics saves last 10 fault codes regardless of power interruption

### WARRANTY

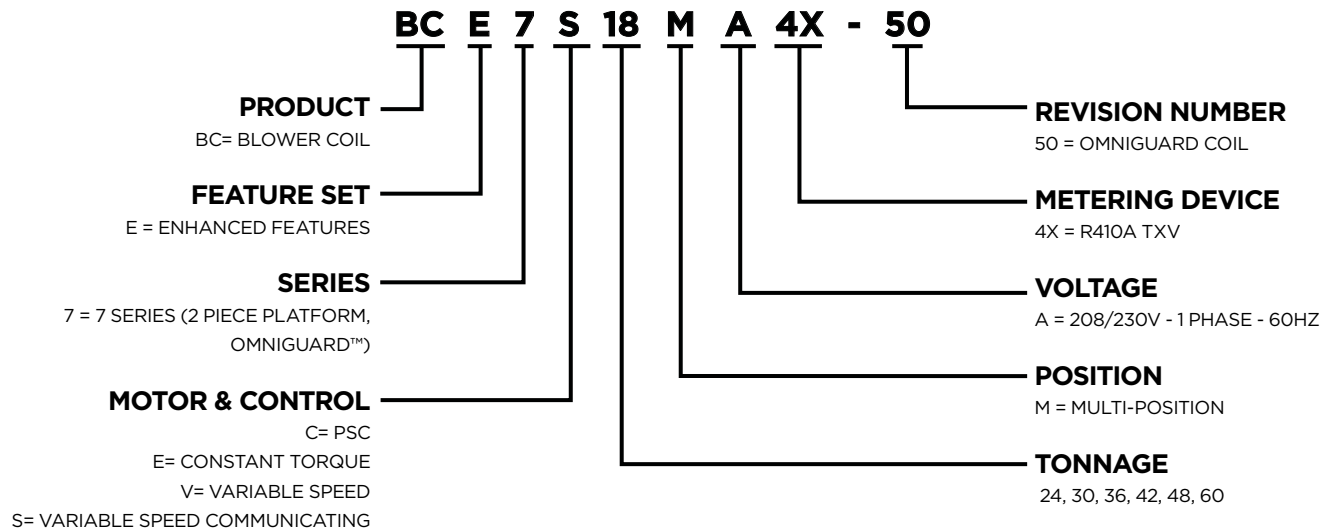
- 10 year limited warranty on all parts, extended warranty available



#### NOTE:

For the latest AHRI system matches, please visit [www.alliedratings.com](http://www.alliedratings.com) or [www.AHRIdirectory.org](http://www.AHRIdirectory.org)

## MODEL NUMBER GUIDE



## PHYSICAL

| Model   | Volts/Hz/Phase | Max. Elec. Heat Available (kW) | Transformer Size & Type | Filter Size (in.) | Refrigerant Connection (IDS) |              | Installed TXV Size | Weight (lbs.) |
|---------|----------------|--------------------------------|-------------------------|-------------------|------------------------------|--------------|--------------------|---------------|
|         |                |                                |                         |                   | Suction (in.)                | Liquid (in.) |                    |               |
| BCE7S24 | 208/230/60/1   | 9                              | 70VA                    | (1) 20 x 20 x 1   | 3/4                          | 3/8          | 12J18              | 141           |
| BCE7S30 | 208/230/60/1   | 15                             | 70VA                    | (1) 20 x 20 x 1   | 3/4                          | 3/8          | 12J18              | 154           |
| BCE7S36 | 208/230/60/1   | 20                             | 70VA                    | (1) 20 x 20 x 1   | 3/4                          | 3/8          | 12J19              | 159           |
| BCE7S42 | 208/230/60/1   | 20                             | 70VA                    | (1) 20 x 24 x 1   | 7/8                          | 3/8          | 12J20              | 189           |
| BCE7S48 | 208/230/60/1   | 25                             | 70VA                    | (1) 20 x 24 x 1   | 7/8                          | 3/8          | 12J20              | 189           |
| BCE7S60 | 208/230/60/1   | 25                             | 70VA                    | (1) 20 x 24 x 1   | 7/8                          | 3/8          | 12J20              | 199           |

## INSTALLATION CLEARANCES WITH ELECTRIC HEAT

|                                     |              |
|-------------------------------------|--------------|
| Cabinet                             | 0 in. (0 mm) |
| To Plenum                           | 0 in. (0mm)  |
| To Outlet Duct within 3 ft. (914mm) | 0 in. (0 mm) |
| Floor                               | See Note #1  |
| Service / Maintenance               | See Note #2  |

1 Units installed on combustible floors in the downflow position with electric heat require optional downflow combustible flooring base.

2 Front service access - 24 in. (610 mm) minimum.

Note - If cabinet depth is more than 24 in. (610mm), allow a minimum of the cabinet depth plus 2 in. (51 mm).

**ACCESSORIES**

| DESCRIPTION                           | WHERE USED | CAT. NUMBER |
|---------------------------------------|------------|-------------|
| Circuit Breaker Cover Kit             | All Models | 82W01       |
| Downflow Combustible Flooring Base    | All Models | 44K15       |
| Horizontal Support Frame Kit          | All Models | 56J18       |
| Side Return Unit Stand (Upflow)       | All Models | 45K32       |
| Single-Point Power Source Control Box | All Models | 21H39       |
| Wall Hanging Bracket Kit (Upflow)     | All Models | 45K30       |
| Remote Outdoor Sensor                 | All Models | X2658       |
| Comfort Sync Thermostat               | All Models | 1.841197    |
| Comfort Sync Zone Controller          | All Models | 1.851399    |

**ELECTRIC HEAT**

| Size                                           | Model          | C/B Size *      | WHERE USED             | Cat # |
|------------------------------------------------|----------------|-----------------|------------------------|-------|
| <b>Electric Heat Kits with Circuit Breaker</b> |                |                 |                        |       |
| <b>5 kW</b>                                    | ECB27-5CB-P    | 35A             | 24, 30, 36, 42, 48, 60 | 17D47 |
| <b>9 kW</b>                                    | ECB27-9CB-P    | 60A             | 24, 30, 36, 42, 48, 60 | 17D52 |
| <b>12.5 kW</b>                                 | ECB27-12.5CB-P | 30A + 45A       | 30, 36, 42, 48, 60     | 17D53 |
| <b>15 kW</b>                                   | ECB27-15CB-P   | 35A + 60A       | 30, 36, 42, 48, 60     | 17D54 |
| <b>20 kW</b>                                   | ECB27-20CB-P   | 60A + 60A       | 36, 42, 48, 60         | 17D55 |
| <b>25 kW</b>                                   | ECB27-25CB-P   | 60A + 45A + 45A | 48, 60                 | 17D56 |

| <b>Replacement Circuit Breakers (2 pole)</b> |      |       |
|----------------------------------------------|------|-------|
| Volts                                        | Size | Cat # |
| 208/240V- 1 phase                            | 25A  | 41K13 |
|                                              | 30A  | 17K70 |
|                                              | 35A  | 72K07 |
|                                              | 40A  | 49K14 |
|                                              | 45A  | 17K71 |
|                                              | 50A  | 41K12 |
|                                              | 60A  | 17K72 |

\* Circuit breaker must match rated "Max C/B Size"; replace breaker as necessary.

## ELECTRICAL

| Model           | Heater Model   | Electric Heat Capacity |           |                         |           | Blower Motor Full Load Amps <sup>2</sup> | Minimum Circuit Ampacity (240/208 Volts) <sup>3</sup> |       |       | Maximum Overcurrent Protection (240/208 Volts) <sup>4,5</sup> |       |       | Single Point Power Source        |                                             |
|-----------------|----------------|------------------------|-----------|-------------------------|-----------|------------------------------------------|-------------------------------------------------------|-------|-------|---------------------------------------------------------------|-------|-------|----------------------------------|---------------------------------------------|
|                 |                | kW Input               |           | Btuh Input <sup>1</sup> |           |                                          | CKT-1                                                 | CKT-2 | CKT-3 | CKT-1                                                         | CKT-2 | CKT-3 | Minimum Circuit Amp <sup>3</sup> | Maximum Overcurrent Protection <sup>5</sup> |
|                 |                | 240 Volts              | 208 Volts | 240 Volts               | 208 Volts |                                          |                                                       |       |       |                                                               |       |       |                                  |                                             |
| BCE7S-24MA4X-50 | NONE           | ---                    | ---       | ---                     | ---       | 4                                        | 5/5                                                   | ---   | ---   | 15/15                                                         | ---   | ---   | ---                              | ---                                         |
|                 | ECB27-5CB-P    | 5                      | 3.8       | 17100                   | 12,800    |                                          | 31/28                                                 | ---   | ---   | 35/30                                                         | ---   | ---   | 31/28                            | 35/30                                       |
|                 | ECB27-9CB-P    | 9                      | 6.8       | 30700                   | 23,100    |                                          | 52/46                                                 | ---   | ---   | 60/50                                                         | ---   | ---   | 52/46                            | 60/50                                       |
| BCE7S-30MA4X-50 | NONE           | ---                    | ---       | ---                     | ---       | 3.9                                      | 5/5                                                   | ---   | ---   | 15/15                                                         | ---   | ---   | ---                              | ---                                         |
|                 | ECB27-5CB-P    | 5                      | 3.8       | 17100                   | 12800     |                                          | 31/28                                                 | ---   | ---   | 35/30                                                         | ---   | ---   | 31/28                            | 35/30                                       |
|                 | ECB27-9CB-P    | 9                      | 6.8       | 30700                   | 23100     |                                          | 52/46                                                 | ---   | ---   | 60/50                                                         | ---   | ---   | 52/46                            | 35/30                                       |
|                 | ECB27-12.5CB-P | 12.5                   | 9.4       | 42600                   | 32000     |                                          | 27/24                                                 | 44/38 | ---   | 30/25                                                         | 45/40 | ---   | 71/61                            | 80/70                                       |
|                 | ECB27-15CB-P   | 15                     | 11.3      | 51200                   | 38400     |                                          | 31/28                                                 | 52/45 | ---   | 35/30                                                         | 60/45 | ---   | 83/72                            | 90/80                                       |
| BCE7S-36MA4X-50 | NONE           | ---                    | ---       | ---                     | ---       | 5.2                                      | 5/5                                                   | ---   | ---   | 15/15                                                         | ---   | ---   | ---                              | ---                                         |
|                 | ECB27-5CB-P    | 5                      | 3.8       | 17100                   | 12800     |                                          | 33/29                                                 | ---   | ---   | 35/30                                                         | ---   | ---   | 33/29                            | 35/30                                       |
|                 | ECB27-9CB-P    | 9                      | 6.8       | 30700                   | 23100     |                                          | 53/47                                                 | ---   | ---   | 60/50                                                         | ---   | ---   | 53/47                            | 60/50                                       |
|                 | ECB27-12.5CB-P | 12.5                   | 9.4       | 42600                   | 32000     |                                          | 28/25                                                 | 44/38 | ---   | 35/30                                                         | 45/40 | ---   | 72/63                            | 80/70                                       |
|                 | ECB27-15CB-P   | 15                     | 11.3      | 51200                   | 38400     |                                          | 33/29                                                 | 52/45 | ---   | 35/30                                                         | 60/45 | ---   | 85/74                            | 90/80                                       |
|                 | ECB27-20CB-P   | 20                     | 15        | 68200                   | 51200     |                                          | 53/47                                                 | 57/50 | ---   | 60/50                                                         | 60/50 | ---   | 111/97                           | 125/100                                     |
| BCE7S-42MA4X-50 | NONE           | ---                    | ---       | ---                     | ---       | 7.4                                      | 10/10                                                 | ---   | ---   | 20/20                                                         | ---   | ---   | ---                              | ---                                         |
|                 | ECB27-5CB-P    | 5                      | 3.8       | 17100                   | 12800     |                                          | 35/31                                                 | ---   | ---   | 35/35                                                         | ---   | ---   | 35/31                            | 35/35                                       |
|                 | ECB27-9CB-P    | 9                      | 6.8       | 30700                   | 23100     |                                          | 56/49                                                 | ---   | ---   | 60/50                                                         | ---   | ---   | 56/49                            | 60/50                                       |
|                 | ECB27-12.5CB-P | 12.5                   | 9.4       | 42600                   | 32000     |                                          | 31/27                                                 | 44/38 | ---   | 35/30                                                         | 45/40 | ---   | 74/65                            | 80/70                                       |
|                 | ECB27-15CB-P   | 15                     | 11.3      | 51200                   | 38400     |                                          | 35/31                                                 | 52/45 | ---   | 35/35                                                         | 60/45 | ---   | 87/76                            | 90/80                                       |
|                 | ECB27-20CB-P   | 20                     | 15        | 68200                   | 51200     |                                          | 56/49                                                 | 57/50 | ---   | 60/50                                                         | 60/50 | ---   | 113/99                           | 125/100                                     |
| BCE7S-48MA4X-50 | NONE           | ---                    | ---       | ---                     | ---       | 6.9                                      | 10/10                                                 | ---   | ---   | 20/20                                                         | ---   | ---   | ---                              | ---                                         |
|                 | ECB27-5CB-P    | 5                      | 3.8       | 17100                   | 12800     |                                          | 35/31                                                 | ---   | ---   | 35/35                                                         | ---   | ---   | 35/31                            | 35/35                                       |
|                 | ECB27-9CB-P    | 9                      | 6.8       | 30700                   | 23100     |                                          | 56/49                                                 | ---   | ---   | 60/50                                                         | ---   | ---   | 56/49                            | 60/50                                       |
|                 | ECB27-12.5CB-P | 12.5                   | 9.4       | 42600                   | 32000     |                                          | 31/27                                                 | 44/38 | ---   | 35/30                                                         | 45/40 | ---   | 74/65                            | 80/70                                       |
|                 | ECB27-15CB-P   | 15                     | 11.3      | 51200                   | 38400     |                                          | 35/31                                                 | 52/45 | ---   | 35/35                                                         | 60/45 | ---   | 87/76                            | 90/80                                       |
|                 | ECB27-20CB-P   | 20                     | 15        | 68200                   | 51200     |                                          | 56/49                                                 | 57/50 | ---   | 60/50                                                         | 60/50 | ---   | 113/99                           | 125/100                                     |
|                 | ECB27-25CB-P   | 25                     | 18.8      | 85300                   | 64100     |                                          | 52/46                                                 | 44/38 | 44/38 | 60/50                                                         | 45/40 | 45/40 | 140/122                          | 150/125                                     |
| BCE7S-60MA4X-50 | NONE           | ---                    | ---       | ---                     | ---       | 6.9                                      | 10/10                                                 | ---   | ---   | 20/20                                                         | ---   | ---   | ---                              | ---                                         |
|                 | ECB27-5CB-P    | 5                      | 3.8       | 17100                   | 12800     |                                          | 35/31                                                 | ---   | ---   | 35/35                                                         | ---   | ---   | 35/31                            | 35/35                                       |
|                 | ECB27-9CB-P    | 9                      | 6.8       | 30700                   | 23100     |                                          | 56/49                                                 | ---   | ---   | 60/50                                                         | ---   | ---   | 56/49                            | 60/50                                       |
|                 | ECB27-12.5CB-P | 12.5                   | 9.4       | 42600                   | 32000     |                                          | 31/27                                                 | 44/38 | ---   | 35/30                                                         | 45/40 | ---   | 74/65                            | 80/70                                       |
|                 | ECB27-15CB-P   | 15                     | 11.3      | 51200                   | 38400     |                                          | 35/31                                                 | 52/45 | ---   | 35/35                                                         | 60/45 | ---   | 87/76                            | 90/80                                       |
|                 | ECB27-20CB-P   | 20                     | 15        | 68200                   | 51200     |                                          | 56/49                                                 | 57/50 | ---   | 60/50                                                         | 60/50 | ---   | 113/99                           | 125/100                                     |
|                 | ECB27-25CB-P   | 25                     | 18.8      | 85300                   | 64100     |                                          | 52/46                                                 | 44/38 | 44/38 | 60/50                                                         | 45/40 | 45/40 | 140/122                          | 150/125                                     |

NOTE - Circuit 1 Minimum Circuit Ampacity includes the Blower Motor Full Load Amps.

<sup>1</sup> Electric heater capacity only - does not include additional blower motor heat capacity.<sup>2</sup> Amps shown are for blower motor only<sup>3</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements. Use wires suitable for at least 167°F.<sup>4</sup> 208 Volt applications must replace circuit breakers with size noted in table.<sup>5</sup> HACR type circuit breaker or fuse.

**BLOWER****BCE7S30 BLOWER PERFORMANCE**

0 through 0.80 In. w.g. External Static Pressure Range

| “ADJUST” Jumper Setting | Jumper Speed Positions |          |          |          |              |          |          |          |
|-------------------------|------------------------|----------|----------|----------|--------------|----------|----------|----------|
|                         | “HEAT” Speed           |          |          |          | “COOL” Speed |          |          |          |
|                         | 1<br>cfm               | 2<br>cfm | 3<br>cfm | 4<br>cfm | 1<br>cfm     | 2<br>cfm | 3<br>cfm | 4<br>cfm |
| +                       | 630                    | 875      | 1095     | 1315     | 630          | 875      | 1095     | 1315     |
| NORM                    | 545                    | 785      | 995      | 1195     | 545          | 785      | 995      | 1195     |
| -                       | 510                    | 700      | 890      | 1075     | 510          | 700      | 890      | 1075     |

NOTES - The effect of static pressure, filter and electric heater resistance is included in the air volumes listed. First stage cooling air volume is 70% of COOL speed setting. Continuous fan speed is approximately 28%, 38%, 70% and 100% (Jumper selectable) of the same second-stage COOL speed selected, minimum 250 cfm. Zoning System applications - minimum blower speed is 250 cfm.

**BCE7S30 BLOWER WATTS**

AT “+” (Plus) SETTING (“Adjust” Jumper at “+” Setting)

| Jumper Speed Positions |       | Motor Watts @ Various External Static Pressures - In. w.g. |     |     |     |     |     |     |     |
|------------------------|-------|------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|
|                        |       | 0.1                                                        | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 |
| “HEAT” Speed           | Tap 1 | 35                                                         | 55  | 76  | 95  | 116 | 138 | 164 | 179 |
|                        | Tap 2 | 80                                                         | 100 | 122 | 148 | 171 | 194 | 214 | 239 |
|                        | Tap 3 | 140                                                        | 167 | 189 | 216 | 237 | 273 | 291 | 322 |
|                        | Tap 4 | 231                                                        | 262 | 295 | 328 | 355 | 377 | 412 | 441 |
| “COOL” Speed           | Tap 1 | 35                                                         | 55  | 76  | 95  | 116 | 138 | 164 | 179 |
|                        | Tap 2 | 80                                                         | 100 | 122 | 148 | 171 | 194 | 214 | 239 |
|                        | Tap 3 | 140                                                        | 167 | 189 | 216 | 237 | 273 | 291 | 322 |
|                        | Tap 4 | 231                                                        | 262 | 295 | 328 | 355 | 377 | 412 | 441 |

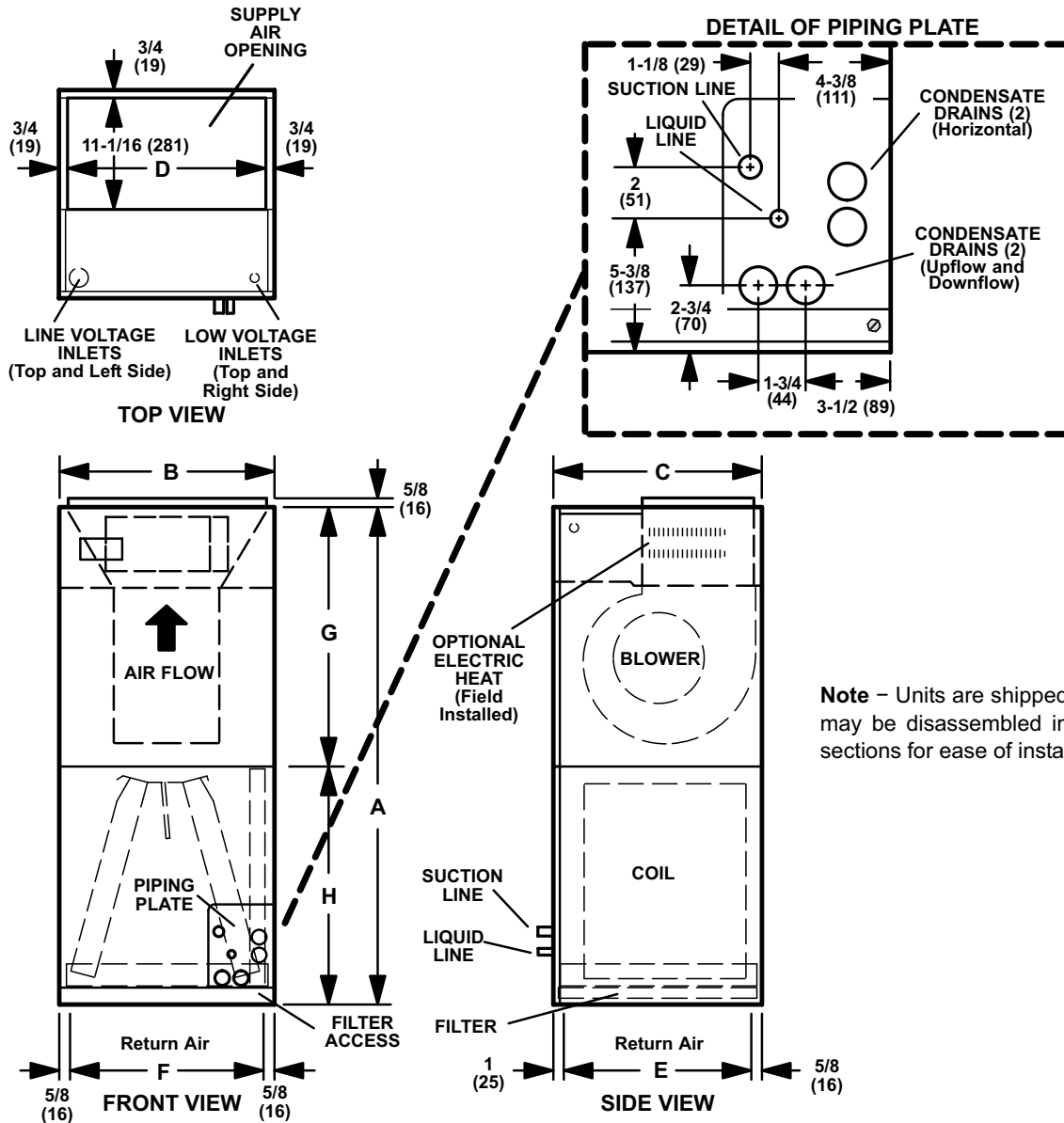
AT “NORM” SETTING (“Adjust” Jumper at “NORM” Setting)

| Jumper Speed Positions |       | Motor Watts @ Various External Static Pressures - In. w.g. |     |     |     |     |     |     |     |
|------------------------|-------|------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|
|                        |       | 0.1                                                        | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 |
| “HEAT” Speed           | Tap 1 | 36                                                         | 48  | 61  | 80  | 92  | 114 | 124 | 139 |
|                        | Tap 2 | 61                                                         | 84  | 104 | 122 | 143 | 169 | 186 | 210 |
|                        | Tap 3 | 109                                                        | 134 | 153 | 178 | 203 | 231 | 254 | 281 |
|                        | Tap 4 | 174                                                        | 205 | 238 | 264 | 284 | 310 | 338 | 372 |
| “COOL” Speed           | Tap 1 | 36                                                         | 48  | 61  | 80  | 92  | 114 | 124 | 139 |
|                        | Tap 2 | 61                                                         | 84  | 104 | 122 | 143 | 169 | 186 | 210 |
|                        | Tap 3 | 109                                                        | 134 | 153 | 178 | 203 | 231 | 254 | 281 |
|                        | Tap 4 | 174                                                        | 205 | 238 | 264 | 284 | 310 | 338 | 372 |

AT “-” (Minus) SETTING (“Adjust” Jumper at “-” Setting)

| Jumper Speed Positions |       | Motor Watts @ Various External Static Pressures - In. w.g. |     |     |     |     |     |     |     |
|------------------------|-------|------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|
|                        |       | 0.1                                                        | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 |
| “HEAT” Speed           | Tap 1 | 29                                                         | 43  | 58  | 77  | 88  | 102 | 119 | 134 |
|                        | Tap 2 | 44                                                         | 64  | 89  | 106 | 125 | 157 | 174 | 202 |
|                        | Tap 3 | 85                                                         | 104 | 129 | 152 | 176 | 199 | 219 | 239 |
|                        | Tap 4 | 133                                                        | 157 | 185 | 207 | 231 | 258 | 285 | 317 |
| “COOL” Speed           | Tap 1 | 29                                                         | 43  | 58  | 77  | 88  | 102 | 119 | 134 |
|                        | Tap 2 | 44                                                         | 64  | 89  | 106 | 125 | 157 | 174 | 202 |
|                        | Tap 3 | 85                                                         | 104 | 129 | 152 | 176 | 199 | 219 | 239 |
|                        | Tap 4 | 133                                                        | 157 | 185 | 207 | 231 | 258 | 285 | 317 |

### UNIT DIMENSIONS - IN. (MM)



| Dimension | 24     |      | 30     |      | 36     |      | 42/48  |      | 60     |      |
|-----------|--------|------|--------|------|--------|------|--------|------|--------|------|
|           | in.    | mm   | in.    | mm   | in.    | mm   | in.    | mm   | in.    | mm   |
| A         | 49.25  | 1251 | 51     | 1295 | 51     | 1295 | 58.5   | 1486 | 62.5   | 1588 |
| B         | 21.25  | 540  | 21.25  | 540  | 21.25  | 540  | 21.25  | 540  | 21.25  | 540  |
| C         | 20.63  | 524  | 22.625 | 575  | 22.625 | 575  | 24.625 | 625  | 24.625 | 625  |
| D         | 19.75  | 502  | 19.75  | 502  | 19.75  | 502  | 19.75  | 502  | 19.75  | 502  |
| E         | 19     | 483  | 21     | 533  | 21     | 533  | 23     | 584  | 23     | 584  |
| F         | 20     | 508  | 20     | 508  | 20     | 508  | 20     | 508  | 20     | 508  |
| G         | 24.625 | 625  | 26.375 | 670  | 26.375 | 670  | 27.875 | 708  | 27.875 | 708  |
| H         | 24.625 | 625  | 24.625 | 625  | 24.625 | 625  | 30.625 | 778  | 34.625 | 879  |

All specifications and illustrations subject to change without notice and without incurring obligations.



# BCE5E

## PRODUCT SPECIFICATIONS

## COMPACT AIR HANDLER

FORM NO. BCE5E-100 (08/2019)



### APPLICATION

- 2 - 5 ton systems
- Sequenced for demand management
- External access to heater circuit breakers

### INSTALLATION

- One piece design
- Smaller profile for tight application areas
- Multiposition - Factory ready for upflow, downflow, and horizontal left/right applications
- Approved for installation in manufactured housing and mobile homes

### CABINET

- Foil faced insulation for enhanced indoor air quality
- Double hemmed technology for increased structural rigidity
- Improved gasketing on doors to reduce air leakage
- Filter rack with thumb screws for easy access and removal
- Polymer plugs on drain locations for easy installation
- Baked polyester paint finished over galvanized steel for maximum durability
- High-strength, UV and heat resistant polymer drain pan designed for corrosion resistance
- Antimicrobial polymer drain pan built to resist mold and mildew growth
- 2% or less air leakage

### COILS

- Omniguard™ total corrosion protection technology designed coil
- Enhanced tube-and-fin coil design featuring MHT™ Technology
- Lanced fins for maximum heat transfer
- Factory leak tested and pre-charged with nitrogen holding charge

### COMPONENTS

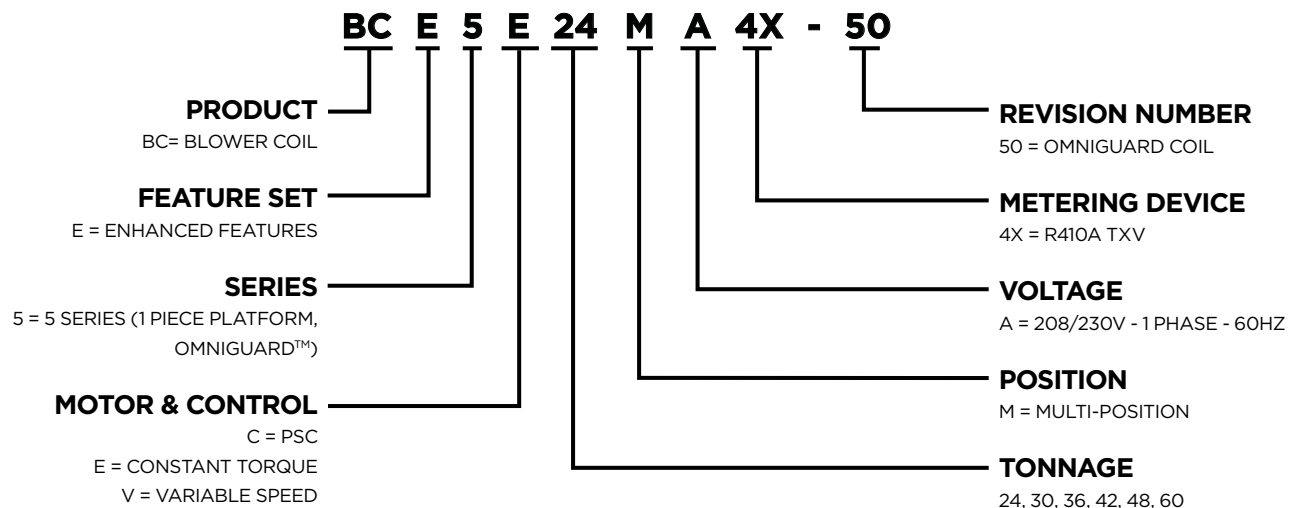
- Efficient Constant Torque blower motors
- Standard transformer and blower relay
- Field installed 5 - 20kW electric heat kits with easy plug connections
- Blower time delay for increased efficiency
- Sleeves on distributor tubing to protect tubes

### WARRANTY

10-year limited warranty on all parts, extended warranty available.



## MODEL NUMBER GUIDE



## PHYSICAL

| Model   | Volts/Hz/Phase | Max. Elec. Heat (kW) | Transformer Size & Type | Filter Size (in.) | Refrigerant Connection |              | Installed TXV Size | Weight (lbs.) |
|---------|----------------|----------------------|-------------------------|-------------------|------------------------|--------------|--------------------|---------------|
|         |                |                      |                         |                   | Suction (in.)          | Liquid (in.) |                    |               |
| BCE5E24 | 208-230/60/1   | 10                   | 40 VA Class 2           | 15 x 20           | 3/4                    | 3/8          | H4TXV01            | 127           |
| BCE5E30 | 208-230/60/1   | 15                   | 40 VA Class 2           | 15 x 20           | 3/4                    | 3/8          | H4TXV01            | 133           |
| BCE5E36 | 208-230/60/1   | 15                   | 40 VA Class 2           | 18 x 20           | 7/8                    | 3/8          | H4TXV02            | 163           |
| BCE5E42 | 208-230/60/1   | 15                   | 40 VA Class 2           | 18 x 20           | 7/8                    | 3/8          | H4TXV02            | 168           |
| BCE5E48 | 208-230/60/1   | 20                   | 40 VA Class 2           | 18 x 20           | 7/8                    | 3/8          | H4TXV02            | 186           |
| BCE5E60 | 208-230/60/1   | 20                   | 40 VA Class 2           | 18 x 20           | 7/8                    | 3/8          | H4TXV03            | 186           |

## INSTALLATION CLEARANCES WITH ELECTRIC HEAT

|                                     |                          |
|-------------------------------------|--------------------------|
| Cabinet                             | 0 in. (0 mm)             |
| To Plenum                           | 0 in. (0mm)              |
| To Outlet Duct within 3 ft. (914mm) | 0 in. (0 mm)             |
| Floor                               | 0 in. (0 mm) See Note #1 |
| Service / Maintenance               | See Note #2              |

1 Units installed on combustible floors in the downflow position with electric heat require optional downflow combustible flooring base.

2 Front service access - 24 in. (610 mm) minimum.

Note - If cabinet depth is more than 24 in. (610mm), allow a minimum of the cabinet depth plus 2 in. (51 mm).

**ACCESSORIES**

| DESCRIPTION                            | WHERE USED     | KIT NUMBER |
|----------------------------------------|----------------|------------|
| Down-flow Kit                          | 24, 30         | Y9658      |
|                                        | 36, 42, 48, 60 | Y9659      |
| Single Point Power Kit                 | All Models     | 21H39      |
| Horizontal Support Frame Kit           | All Models     | 56J18      |
| Wall Hanging Bracket Kit (upflow only) | All Models     | 45K30      |
| Side Return Unit Stand (upflow only)   | All Models     | 45K32      |

**ELECTRIC HEAT**

| Electric Heat Kits with Terminal Block  |               |            |                        |       |
|-----------------------------------------|---------------|------------|------------------------|-------|
| Size                                    | Model         | C/B Size * | WHERE USED             | Cat # |
| 5 kW                                    | ECBA25-5      | NA         | 24, 30, 36, 42, 48, 60 | 16Y36 |
| 7.5 kW                                  | ECBA25-7.5    | NA         | 24, 30, 36, 42, 48, 60 | 16Y37 |
| 10 kW                                   | ECBA25-10     | NA         | 24, 30, 36, 42, 48, 60 | 16Y38 |
| Electric Heat Kits with Circuit Breaker |               |            |                        |       |
| 5 kW                                    | ECBA25-5CB    | 30A        | 24, 30, 36, 42, 48, 60 | 16Y39 |
| 7.5 kW                                  | ECBA25-7.5CB  | 45A        | 24, 30, 36, 42, 48, 60 | 16Y41 |
| 10 kW                                   | ECBA25-10CB   | 60A        | 24, 30, 36, 42, 48, 60 | 16Y42 |
| 12.5 kW                                 | ECBA25-12.5CB | 50A + 25A  | 30, 36, 42, 48, 60     | 16Y43 |
| 15 kW                                   | ECBA25-15CB   | 60A + 25A  | 30, 36, 42, 48, 60     | 16Y44 |
| 20 kW                                   | ECBA25-20CB   | 60A + 50A  | 48, 60                 | 16Y46 |
| Replacement Circuit Breakers (2 pole)   |               |            |                        |       |
| Volts                                   | Size          |            | Cat #                  |       |
| 208/240V- 1 phase                       | 25A           |            | 41K13                  |       |
|                                         | 30A           |            | 17K70                  |       |
|                                         | 35A           |            | 72K07                  |       |
|                                         | 40A           |            | 49K14                  |       |
|                                         | 45A           |            | 17K71                  |       |
|                                         | 50A           |            | 41K12                  |       |
|                                         | 60A           |            | 17K72                  |       |

\* Circuit breaker must match rated "Max C/B Size"; replace breaker as necessary.

**ELECTRICAL**

| Model   | Heating Capacity (240V) |      |       | Blower Amps | Min. Circuit Ampacity |    |      |    | Max. Circuit Breaker Size |    |      |    | Single Point Power Supply |      |      |      |
|---------|-------------------------|------|-------|-------------|-----------------------|----|------|----|---------------------------|----|------|----|---------------------------|------|------|------|
|         | Nominal Heater SizekW   | kW   | Btuh  |             | 208V                  |    | 240V |    | 208V                      |    | 240V |    | 208V                      |      | 240V |      |
|         |                         |      |       |             | 1                     | 2  | 1    | 2  | 1                         | 2  | 1    | 2  | Amps                      | Fuse | Amps | Fuse |
| BCE5E24 | 0                       | 0    | 0     | 4.1         | 5.1                   |    | 5.1  |    | 15                        |    | 15   |    |                           |      |      |      |
|         | 5                       | 4.8  | 16400 |             | 27                    |    | 30   |    | 30                        |    | 30   |    |                           |      |      |      |
|         | 7.5                     | 7.5  | 25600 |             | 39                    |    | 44   |    | 40                        |    | 45   |    |                           |      |      |      |
|         | 10                      | 9.6  | 32700 |             | 48                    |    | 55   |    | 50                        |    | 60   |    |                           |      |      |      |
| BCE5E30 | 0                       | 0    | 0     | 4.1         | 5.1                   |    | 5.1  |    | 15                        |    | 15   |    |                           |      |      |      |
|         | 5                       | 4.8  | 16400 |             | 27                    |    | 30   |    | 30                        |    | 30   |    |                           |      |      |      |
|         | 7.5                     | 7.5  | 25600 |             | 39                    |    | 44   |    | 40                        |    | 45   |    |                           |      |      |      |
|         | 10                      | 9.6  | 32700 |             | 48                    |    | 55   |    | 50                        |    | 60   |    |                           |      |      |      |
|         | 12.5                    | 12.5 | 42600 |             | 43                    | 19 | 48   | 22 | 45                        | 20 | 50   | 25 | 62                        | 70   | 70   | 70   |
|         | 15                      | 14.4 | 49100 |             | 48                    | 22 | 55   | 25 | 50                        | 25 | 60   | 25 | 70                        | 70   | 80   | 80   |
| BCE5E36 | 0                       | 0    | 0     | 4.1         | 5.1                   |    | 5.1  |    | 15                        |    | 15   |    |                           |      |      |      |
|         | 5                       | 4.8  | 16400 |             | 27                    |    | 30   |    | 30                        |    | 30   |    |                           |      |      |      |
|         | 7.5                     | 7.5  | 25600 |             | 39                    |    | 44   |    | 40                        |    | 45   |    |                           |      |      |      |
|         | 10                      | 9.6  | 32700 |             | 48                    |    | 55   |    | 50                        |    | 60   |    |                           |      |      |      |
|         | 12.5                    | 12.5 | 42600 |             | 43                    | 19 | 48   | 22 | 45                        | 20 | 50   | 25 | 62                        | 70   | 70   | 70   |
|         | 15                      | 14.4 | 49100 |             | 48                    | 22 | 55   | 25 | 50                        | 25 | 60   | 25 | 70                        | 70   | 80   | 80   |
| BCE5E42 | 0                       | 0    | 0     | 6.0         | 7.5                   |    | 7.5  |    | 15                        |    | 15   |    |                           |      |      |      |
|         | 5                       | 4.8  | 16400 |             | 29                    |    | 33   |    | 30                        |    | 35   |    |                           |      |      |      |
|         | 7.5                     | 7.5  | 25600 |             | 41                    |    | 47   |    | 45                        |    | 50   |    |                           |      |      |      |
|         | 10                      | 9.6  | 32700 |             | 51                    |    | 58   |    | 60                        |    | 60   |    |                           |      |      |      |
|         | 12.5                    | 12.5 | 42600 |             | 45                    | 19 | 51   | 22 | 45                        | 20 | 60   | 25 | 64                        | 70   | 73   | 80   |
|         | 15                      | 14.4 | 49100 |             | 51                    | 22 | 58   | 25 | 60                        | 25 | 60   | 25 | 73                        | 80   | 83   | 90   |
| BCE5E48 | 0                       | 0    | 0     | 7.6         | 9.5                   |    | 9.5  |    | 15                        |    | 15   |    |                           |      |      |      |
|         | 5                       | 4.8  | 16400 |             | 31                    |    | 35   |    | 35                        |    | 35   |    |                           |      |      |      |
|         | 7.5                     | 7.5  | 25600 |             | 43                    |    | 49   |    | 45                        |    | 50   |    |                           |      |      |      |
|         | 10                      | 9.6  | 32700 |             | 53                    |    | 60   |    | 60                        |    | 60   |    |                           |      |      |      |
|         | 12.5                    | 12.5 | 42600 |             | 47                    | 19 | 53   | 22 | 50                        | 20 | 60   | 25 | 66                        | 70   | 75   | 80   |
|         | 15                      | 14.4 | 49100 |             | 53                    | 22 | 60   | 25 | 60                        | 25 | 60   | 25 | 75                        | 80   | 85   | 90   |
|         | 20                      | 19.2 | 65500 |             | 53                    | 43 | 60   | 50 | 60                        | 45 | 60   | 50 | 96                        | 100  | 110  | 110  |
| BCE5E60 | 0                       | 0    | 0     | 7.6         | 9.5                   |    | 9.5  |    | 15                        |    | 15   |    |                           |      |      |      |
|         | 5                       | 4.8  | 16400 |             | 31                    |    | 35   |    | 35                        |    | 35   |    |                           |      |      |      |
|         | 7.5                     | 7.5  | 25600 |             | 43                    |    | 49   |    | 45                        |    | 50   |    |                           |      |      |      |
|         | 10                      | 9.6  | 32700 |             | 53                    |    | 60   |    | 60                        |    | 60   |    |                           |      |      |      |
|         | 12.5                    | 12.5 | 42600 |             | 47                    | 19 | 53   | 22 | 50                        | 20 | 60   | 25 | 66                        | 70   | 75   | 80   |
|         | 15                      | 14.4 | 49100 |             | 53                    | 22 | 60   | 25 | 60                        | 25 | 60   | 25 | 75                        | 80   | 85   | 90   |
|         | 20                      | 19.2 | 65500 |             | 53                    | 43 | 60   | 50 | 60                        | 45 | 60   | 50 | 96                        | 100  | 110  | 110  |

1. For 208 volt use .751 correction factor for kW and Btuh
2. 12.5kW, 15 and 20kW (2 stage models) require 2 supply circuits
3. Circuit #1 includes blower motor amps except 20kW models

**BLOWER**

| Model   | Motor Size (hp) | Blower Size (in.) | Speed Tap | Application                                 | CFM @ ESP - in. W.C. |      |      |      |      |
|---------|-----------------|-------------------|-----------|---------------------------------------------|----------------------|------|------|------|------|
|         |                 |                   |           |                                             | 0.1                  | 0.2  | 0.3  | 0.4  | 0.5  |
| BCE5E24 | 1/2             | 10 x 8            | 1         | Fan Only                                    | 590                  | 575  | 530  | 480  | 430  |
|         |                 |                   | 2         | Matched with 1.5 ton condensing unit        | 750                  | 650  | 610  | 550  | 480  |
|         |                 |                   | 3         | Nominal 2 ton match without electric heat   | 950                  | 825  | 785  | 740  | 690  |
|         |                 |                   | 4         | Nominal 2 ton match with electric heat      | 1040                 | 1020 | 985  | 940  | 920  |
|         |                 |                   | 5         | High static application                     | 1160                 | 1140 | 1120 | 1080 | 1050 |
| BCE5E30 | 1/2             | 10 x 8            | 1         | Fan Only                                    | 700                  | 665  | 625  | 565  | 490  |
|         |                 |                   | 2         | Matched with 2 ton condensing unit          | 860                  | 810  | 770  | 715  | 665  |
|         |                 |                   | 3         | Nominal 2.5 ton match without electric heat | 1040                 | 1010 | 980  | 940  | 890  |
|         |                 |                   | 4         | Nominal 2.5 ton match with electric heat    | 1140                 | 1100 | 1045 | 1015 | 980  |
|         |                 |                   | 5         | High static application                     | 1390                 | 1375 | 1340 | 1285 | 1245 |
| BCE5E36 | 1/2             | 10 x 8            | 1         | Fan Only                                    | 850                  | 800  | 750  | 665  | 600  |
|         |                 |                   | 2         | Matched with 2.5 ton condensing unit        | 1080                 | 950  | 910  | 850  | 775  |
|         |                 |                   | 3         | Nominal 3 ton match without electric heat   | 1270                 | 1230 | 1170 | 1120 | 1060 |
|         |                 |                   | 4         | Nominal 3 ton match with electric heat      | 1440                 | 1400 | 1330 | 1280 | 1240 |
|         |                 |                   | 5         | High static application                     | 1540                 | 1475 | 1430 | 1380 | 1300 |
| BCE5E42 | 3/4             | 12 x 10           | 1         | Fan Only                                    | 990                  | 915  | 860  | 810  | 725  |
|         |                 |                   | 2         | Matched with 3 ton condensing unit          | 1190                 | 1150 | 1100 | 1060 | 1020 |
|         |                 |                   | 3         | Nominal 3.5 ton match without electric heat | 1390                 | 1350 | 1315 | 1280 | 1230 |
|         |                 |                   | 4         | Nominal 3.5 ton match with electric heat    | 1665                 | 1625 | 1585 | 1550 | 1510 |
|         |                 |                   | 5         | High static application                     | 1750                 | 1710 | 1675 | 1640 | 1600 |
| BCE5E48 | 1               | 12 x 10           | 1         | Fan Only                                    | 1250                 | 1210 | 1185 | 1130 | 1110 |
|         |                 |                   | 2         | Matched with 3.5 ton condensing unit        | 1500                 | 1465 | 1435 | 1400 | 1360 |
|         |                 |                   | 3         | Nominal 4 ton match without electric heat   | 1715                 | 1670 | 1635 | 1615 | 1575 |
|         |                 |                   | 4         | Nominal 4 ton match with electric heat      | 1770                 | 1735 | 1700 | 1670 | 1650 |
|         |                 |                   | 5         | High static application                     | 1895                 | 1860 | 1835 | 1795 | 1760 |
| BCE5E60 | 1               | 12 x 10           | 1         | Fan Only                                    | 1100                 | 1050 | 1000 | 925  | 830  |
|         |                 |                   | 2         | Matched with 4 ton condensing unit          | 1625                 | 1595 | 1565 | 1520 | 1490 |
|         |                 |                   | 3         | Nominal 5 ton match without electric heat   | 1815                 | 1785 | 1760 | 1730 | 1685 |
|         |                 |                   | 4         | Nominal 5 ton match with electric heat      | 1905                 | 1870 | 1835 | 1810 | 1765 |
|         |                 |                   | 5         | High static application                     | 1980                 | 1955 | 1925 | 1895 | 1860 |

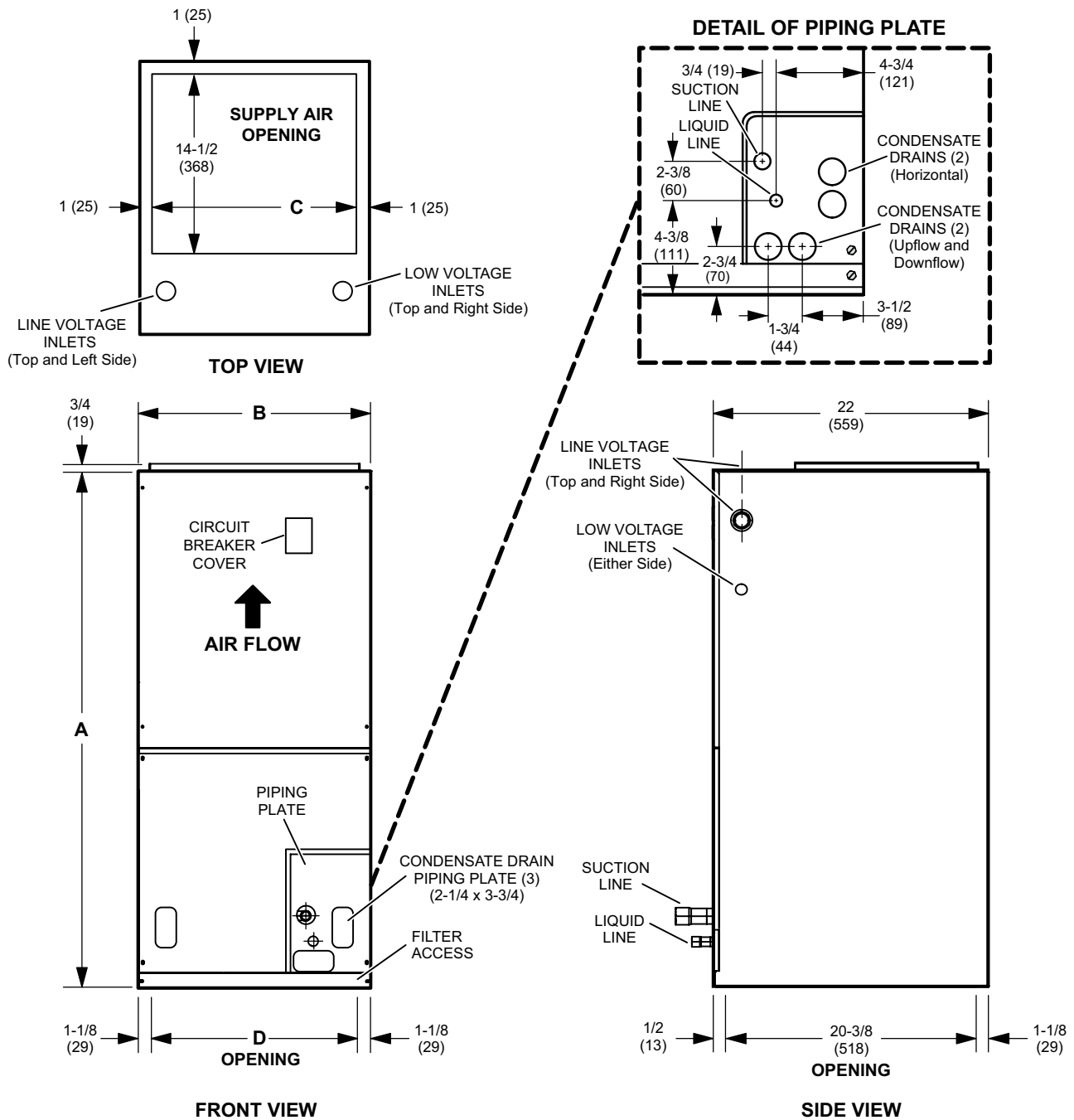
All data given while air handler is operating with a wet coil and without air filter installed.

Speed tap 1 to be used for continuous fan operation.

Speed tap 2 to be used for cooling speed of 1/2 ton smaller outdoor unit match. Speed tap 3 to be used for cooling speed of nominal tonnage match.

Speed tap 4 to be used for heating speed for units with electric heat. This is the minimum speed for heating. Speed tap 5 to be used for high static applications.

### DIMENSIONS (IN.)



| Dimension | 24    |      | 30    |      | 36-42 |      | 48    |      | 60    |      |
|-----------|-------|------|-------|------|-------|------|-------|------|-------|------|
|           | in.   | mm   | in.   | mm   | in.   | mm   | in.   | mm   | in.   | mm   |
| A         | 45.5  | 1156 | 47    | 1194 | 53.63 | 1362 | 55    | 1397 | 59.75 | 1518 |
| B         | 18.5  | 470  | 18.5  | 470  | 21.5  | 546  | 21.5  | 546  | 21.5  | 546  |
| C         | 16.5  | 419  | 16.5  | 419  | 19.5  | 495  | 19.5  | 495  | 19.5  | 495  |
| D         | 16.25 | 413  | 16.25 | 413  | 19.25 | 489  | 19.25 | 489  | 19.25 | 489  |

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# BCE5C

## PRODUCT SPECIFICATIONS

## COMPACT AIR HANDLER

FORM NO. BCE5C-100 (07/2019)



### APPLICATION

- 1.5 - 5 ton systems
- Sequenced for demand management
- External access to heater circuit breakers

### INSTALLATION

- 1 piece design
- Smaller profile for closet applications
- Multi-position = Upflow/Horizontal Left/Right
- Approved for installation in manufactured housing and mobile homes

### CABINET

- Foil faced insulation for enhanced indoor air quality
- Double hemmed technology for increased structural rigidity
- Improved gasketing on doors to prevent air leaks
- Filter rack with thumb screws for easy access and removal
- Polymer plugs on drain locations for easy installation
- Baked polyester paint finished over galvanized steel for maximum durability
- High-strength/heat resistant/corrosion resistance SMC drain pans
- Antimicrobial treated polymer drain pan built to resist mold and mildew growth
- 2% or less air leakage

### COILS

- Omniguard™ total corrosion protection technology designed coil
- Enhanced tube-and-fin coil design featuring MHT™ Technology
- Lanced fins for maximum heat transfer
- Factory leak tested and pre-charged with nitrogen holding charge

### COMPONENTS

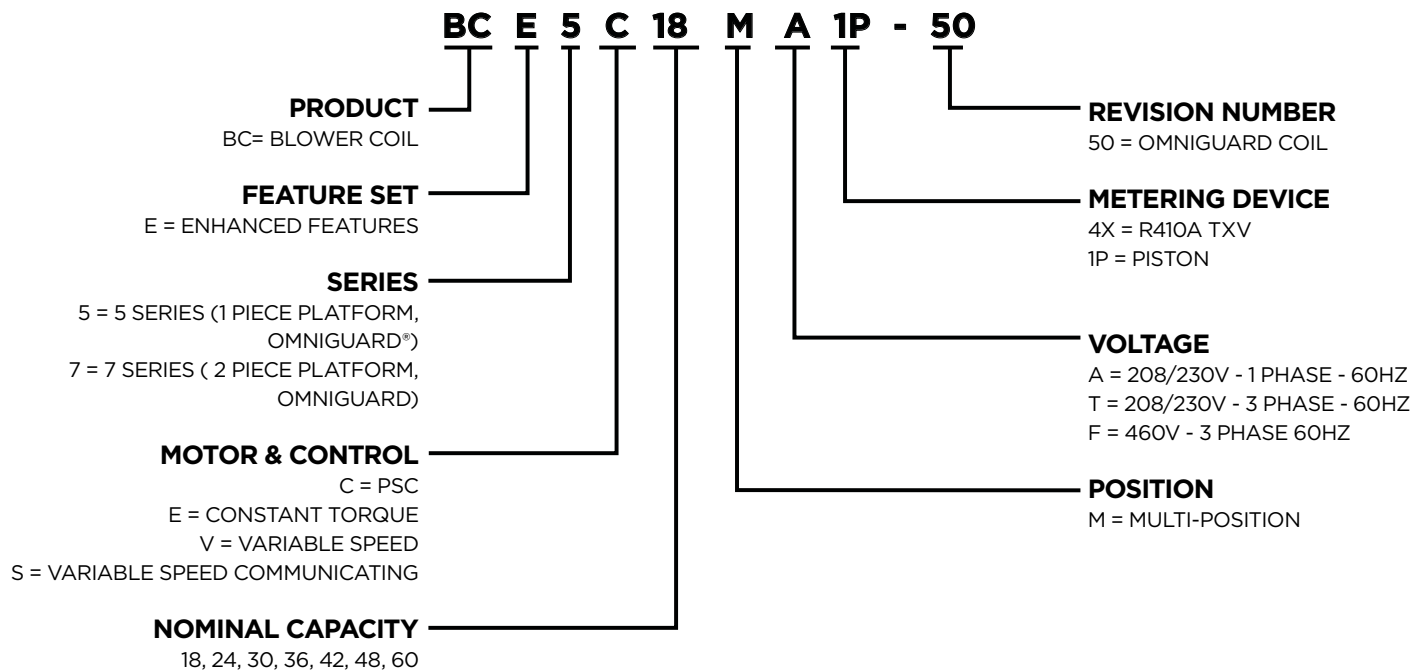
- Efficient PSC blower motors
- Standard transformer and blower relay
- Field installed 5 - 20kW electric heat kits with easy plug connections
- Built-in indoor time delay for increased efficiency
- Sleeves on distributor tubing to protect tubes

### WARRANTY

- 10 year limited warranty on all parts, extended warranty available



## MODEL NUMBER GUIDE



## PHYSICAL

| Model   | Volts/Hz/Phase | Max. Elec. Heat Available (kW) | Transformer Size & Type | Filter Size (in.) | Refrigerant Connection (IDS) |              | Weight (lbs.) |
|---------|----------------|--------------------------------|-------------------------|-------------------|------------------------------|--------------|---------------|
|         |                |                                |                         |                   | Suction (in.)                | Liquid (in.) |               |
| BCE5C18 | 208-230/60/1   | 7.5                            | 40 VA Class 2           | 15X20             | 3/4                          | 3/8          | 109           |
| BCE5C24 | 208-230/60/1   | 10                             | 40 VA Class 2           | 15X20             | 3/4                          | 3/8          | 127           |
| BCE5C30 | 208-230/60/1   | 15                             | 40 VA Class 2           | 15X20             | 3/4                          | 3/8          | 133           |
| BCE5C36 | 208-230/60/1   | 15                             | 40 VA Class 2           | 18X20             | 7/8                          | 3/8          | 163           |
| BCE5C42 | 208-230/60/1   | 15                             | 40 VA Class 2           | 18x20             | 7/8                          | 3/8          | 168           |
| BCE5C48 | 208-230/60/1   | 20                             | 40 VA Class 2           | 18x20             | 7/8                          | 3/8          | 186           |
| BCE5C60 | 208-230/60/1   | 20                             | 40 VA Class 2           | 18x20             | 7/8                          | 3/8          | 186           |

## INSTALLATION CLEARANCES WITH ELECTRIC HEAT

|                                       |                           |
|---------------------------------------|---------------------------|
| CABINET                               | 0 inch (0 mm)             |
| TO PLENUM                             | 0 inch (0mm)              |
| TO OUTLET DUCT WITHIN 3 FEET (914 MM) | 0 inch (0 mm)             |
| FLOOR                                 | 0 inch (0 mm) See Note #1 |
| SERVICE / MAINTENANCE                 | See Note #2               |

1 Units installed on combustible floors in the downflow position with electric heat require optional downflow combustible flooring base.

2 Front service access - 24 inches (610 mm) minimum.

Note - If cabinet depth is more than 24 inches (610mm), allow a minimum of the cabinet depth plus 2 inches (51 mm).



**ACCESSORIES**

| DESCRIPTION                                   | WHERE USED     | KIT NUMBER |
|-----------------------------------------------|----------------|------------|
| Down-flow Kit                                 | 18, 24, 30     | Y9658      |
|                                               | 36, 42, 48, 60 | Y9659      |
| Horizontal Support Frame kit                  | All Models     | 56J18      |
| Side Return Unit Stand (upflow only)          | All Models     | 45K32      |
| Single Point Power Kit                        | All Models     | 21H39      |
| Wall Hanging Bracket Kit (upflow only)        | All Models     | 45K30      |
| High Performance Economizer (Commercial Only) | All Models     | 10U53      |

**ELECTRIC HEAT**

| Electric Heat Kits with Terminal Block  |               |            |                            |       |
|-----------------------------------------|---------------|------------|----------------------------|-------|
| Size                                    | Model         | C/B Size * | WHERE USED                 | Cat # |
| 5 kW                                    | ECBA25-5      | NA         | 18, 24, 30, 36, 42, 48, 60 | 16Y36 |
| 7.5 kW                                  | ECBA25-7.5    | NA         | 18, 24, 30, 36, 42, 48, 60 | 16Y37 |
| 10 kW                                   | ECBA25-10     | NA         | 18, 24, 30, 36, 42, 48, 60 | 16Y38 |
| Electric Heat Kits with Circuit Breaker |               |            |                            |       |
| 5 kW                                    | ECBA25-5CB    | 30A        | 18, 24, 30, 36, 42, 48, 60 | 16Y39 |
| 7.5 kW                                  | ECBA25-7.5CB  | 45A        | 18, 24, 30, 36, 42, 48, 60 | 16Y41 |
| 10 kW                                   | ECBA25-10CB   | 60A        | 18, 24, 30, 36, 42, 48, 60 | 16Y42 |
| 12.5 kW                                 | ECBA25-12.5CB | 50A + 25A  | 30, 36, 42, 48, 60         | 16Y43 |
| 15 kW                                   | ECBA25-15CB   | 60A + 25A  | 30, 36, 42, 48, 60         | 16Y44 |
| 20 kW                                   | ECBA25-20CB   | 60A + 50A  | 48, 60                     | 16Y46 |
| Replacement Circuit Breakers (2 pole)   |               |            |                            |       |
| Volts                                   | Size          |            | Cat #                      |       |
| 208/240V- 1 phase                       | 25A           |            | 41K13                      |       |
|                                         | 30A           |            | 17K70                      |       |
|                                         | 35A           |            | 72K07                      |       |
|                                         | 40A           |            | 49K14                      |       |
|                                         | 45A           |            | 17K71                      |       |
|                                         | 50A           |            | 41K12                      |       |
|                                         | 60A           |            | 17K72                      |       |

\* Circuit breaker must match rated "Max C/B Size"; replace breaker as necessary.

**ELECTRICAL**

| Model   | Heating Capacity (240V) |      |       | Blower Amps | Min. Circuit Ampacity |    |      |    | Max. Circuit Breaker Size |    |      |    | Single Point Power Supply |      |      |      |
|---------|-------------------------|------|-------|-------------|-----------------------|----|------|----|---------------------------|----|------|----|---------------------------|------|------|------|
|         | Nominal Heater SizekW   | kW   | Btuh  |             | 208V                  |    | 240V |    | 208V                      |    | 240V |    | 208V                      |      | 240V |      |
|         |                         |      |       |             | 1                     | 2  | 1    | 2  | 1                         | 2  | 1    | 2  | Amps                      | Fuse | Amps | Fuse |
| BCE5C18 | 0                       | 0    | 0     | 1.1         | 5                     |    | 5    |    | 15                        |    | 15   |    |                           |      |      |      |
|         | 5                       | 4.8  | 16400 |             | 23                    |    | 26   |    | 25                        |    | 30   |    |                           |      |      |      |
|         | 7.5                     | 7.5  | 25600 |             | 35                    |    | 40   |    | 35                        |    | 40   |    |                           |      |      |      |
|         | 10                      | 9.6  | 32700 |             | 45                    |    | 51   |    | 45                        |    | 60   |    |                           |      |      |      |
| BCE5C24 | 0                       | 0    | 0     | 1.6         | 5                     |    | 5    |    | 15                        |    | 15   |    |                           |      |      |      |
|         | 5                       | 4.8  | 16400 |             | 24                    |    | 27   |    | 25                        |    | 30   |    |                           |      |      |      |
|         | 7.5                     | 7.5  | 25600 |             | 36                    |    | 41   |    | 40                        |    | 45   |    |                           |      |      |      |
|         | 10                      | 9.6  | 32700 |             | 45                    |    | 52   |    | 45                        |    | 60   |    |                           |      |      |      |
| BCE5C30 | 0                       | 0    | 0     | 2.2         | 5.0                   |    | 5    |    | 15                        |    | 15   |    |                           |      |      |      |
|         | 5                       | 4.8  | 16400 |             | 24                    |    | 28   |    | 25                        |    | 30   |    |                           |      |      |      |
|         | 7.5                     | 7.5  | 25600 |             | 37                    |    | 42   |    | 40                        |    | 45   |    |                           |      |      |      |
|         | 10                      | 9.6  | 32700 |             | 46                    |    | 53   |    | 50                        |    | 60   |    |                           |      |      |      |
|         | 12.5                    | 12.5 | 42600 |             | 40                    | 19 | 46   | 22 | 40                        | 20 | 50   | 25 | 59                        | 60   | 68   | 70   |
|         | 15                      | 14.4 | 49100 |             | 46                    | 22 | 53   | 25 | 50                        | 25 | 60   | 25 | 68                        | 70   | 78   | 80   |
| BCE5C36 | 0                       | 0    | 0     | 2           | 5                     |    | 5    |    | 15                        |    | 15   |    |                           |      |      |      |
|         | 5                       | 4.8  | 16400 |             | 24                    |    | 28   |    | 25                        |    | 30   |    |                           |      |      |      |
|         | 7.5                     | 7.5  | 25600 |             | 36                    |    | 42   |    | 40                        |    | 45   |    |                           |      |      |      |
|         | 10                      | 9.6  | 32700 |             | 46                    |    | 53   |    | 50                        |    | 60   |    |                           |      |      |      |
|         | 12.5                    | 12.5 | 42600 |             | 40                    | 19 | 46   | 50 | 40                        | 20 | 50   | 25 | 59                        | 60   | 68   | 70   |
|         | 15                      | 14.4 | 49100 |             | 46                    | 22 | 53   | 25 | 50                        | 25 | 60   | 25 | 68                        | 70   | 78   | 80   |
| BCE5C42 | 0                       | 0    | 0     | 2.5         | 5.0                   |    | 5.0  |    | 15                        |    | 15   |    |                           |      |      |      |
|         | 5                       | 4.8  | 16400 |             | 25                    |    | 28   |    | 25                        |    | 30   |    |                           |      |      |      |
|         | 7.5                     | 7.5  | 25600 |             | 37                    |    | 42   |    | 40                        |    | 45   |    |                           |      |      |      |
|         | 10                      | 9.6  | 32700 |             | 46                    |    | 53   |    | 50                        |    | 60   |    |                           |      |      |      |
|         | 12.5                    | 12.5 | 42600 |             | 41                    | 19 | 47   | 22 | 45                        | 20 | 50   | 25 | 60                        | 60   | 68   | 70   |
|         | 15                      | 14.4 | 49100 |             | 46                    | 22 | 53   | 25 | 50                        | 25 | 60   | 25 | 68                        | 70   | 78   | 80   |
| BCE5C48 | 0                       | 0    | 0     | 7.6         | 9.5                   |    | 9.5  |    | 15                        |    | 15   |    |                           |      |      |      |
|         | 5                       | 4.8  | 16400 |             | 31                    |    | 35   |    | 35                        |    | 35   |    |                           |      |      |      |
|         | 7.5                     | 7.5  | 25600 |             | 43                    |    | 49   |    | 45                        |    | 50   |    |                           |      |      |      |
|         | 10                      | 9.6  | 32700 |             | 53                    |    | 60   |    | 60                        |    | 60   |    |                           |      |      |      |
|         | 12.5                    | 12.5 | 42600 |             | 47                    | 19 | 53   | 22 | 50                        | 20 | 60   | 25 | 66                        | 70   | 75   | 80   |
|         | 15                      | 14.4 | 49100 |             | 53                    | 22 | 60   | 25 | 60                        | 25 | 60   | 25 | 75                        | 80   | 85   | 90   |
|         | 20                      | 19.2 | 65500 |             | 53                    | 43 | 60   | 50 | 60                        | 45 | 60   | 50 | 96                        | 100  | 110  | 110  |
| BCE5C60 | 0                       | 0    | 0     | 7.6         | 9.5                   |    | 9.5  |    | 15                        |    | 15   |    |                           |      |      |      |
|         | 5                       | 4.8  | 16400 |             | 31                    |    | 35   |    | 35                        |    | 35   |    |                           |      |      |      |
|         | 7.5                     | 7.5  | 25600 |             | 43                    |    | 49   |    | 45                        |    | 50   |    |                           |      |      |      |
|         | 10                      | 9.6  | 32700 |             | 53                    |    | 60   |    | 60                        |    | 60   |    |                           |      |      |      |
|         | 12.5                    | 12.5 | 42600 |             | 47                    | 19 | 53   | 22 | 50                        | 20 | 60   | 25 | 66                        | 70   | 75   | 80   |
|         | 15                      | 14.4 | 49100 |             | 53                    | 22 | 60   | 25 | 60                        | 25 | 60   | 25 | 75                        | 80   | 85   | 90   |
|         | 20                      | 19.2 | 65500 |             | 53                    | 43 | 60   | 50 | 60                        | 45 | 60   | 50 | 96                        | 100  | 110  | 110  |

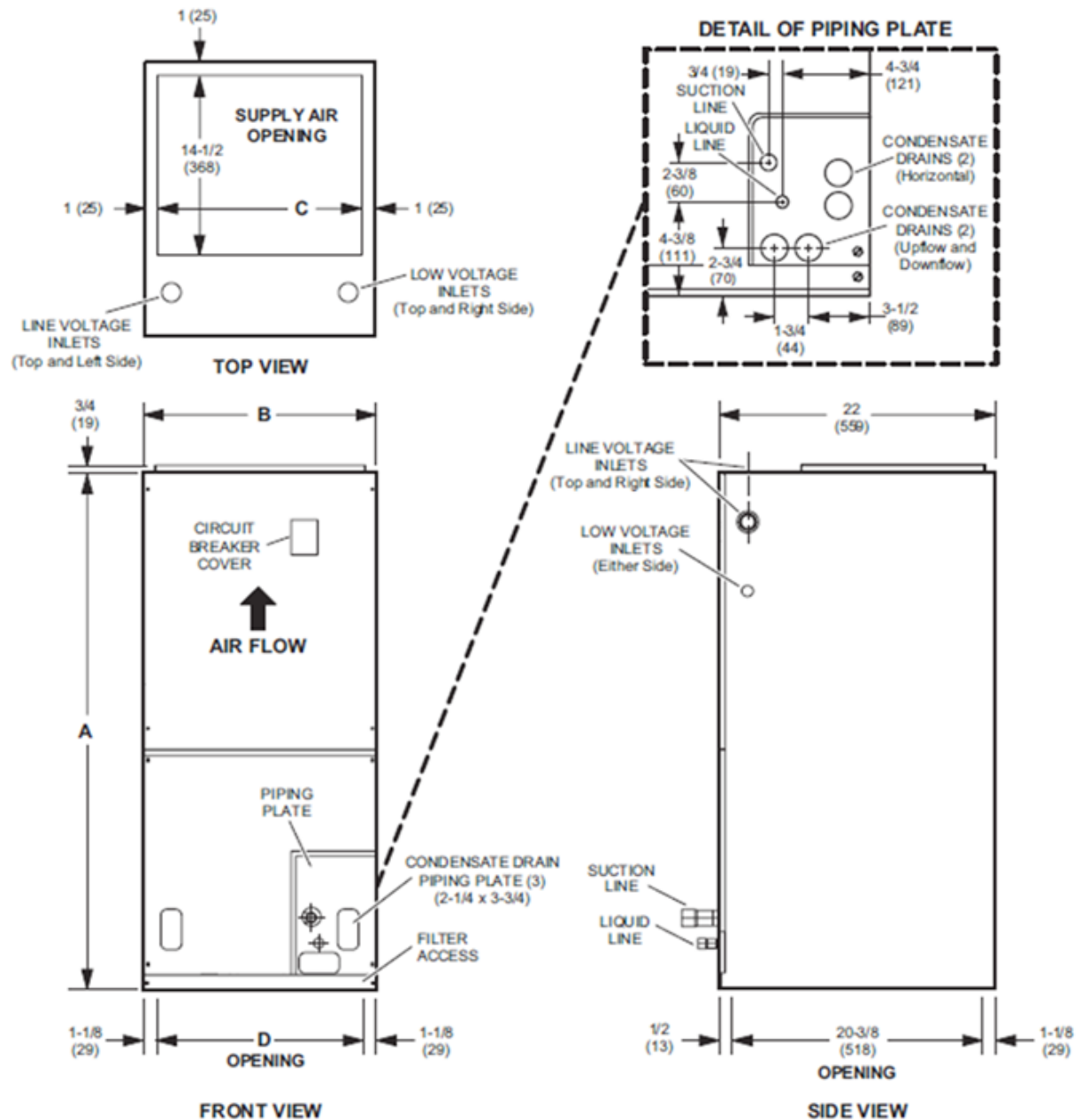
**BLOWER**

| Model   | Motor Size (hp) | Blower Size (in.) | Speed Tap    | CFM @ ESP - in. W.C. |      |      |      |      |
|---------|-----------------|-------------------|--------------|----------------------|------|------|------|------|
|         |                 |                   |              | 0.1                  | 0.2  | 0.3  | 0.4  | 0.5  |
| BCE5C18 | 1/5             | 9X6               | Low (Red)    | 540                  | 525  | 505  | 470  | 420  |
|         |                 |                   | Med (Blue)   | 690                  | 670  | 640  | 605  | 550  |
|         |                 |                   | High (Black) | 920                  | 880  | 855  | 790  | 710  |
| BCE5C24 | 1/3             | 9X6               | Low (Red)    | 675                  | 675  | 655  | 630  | 590  |
|         |                 |                   | Med (Blue)   | 1010                 | 980  | 940  | 805  | 740  |
|         |                 |                   | High (Black) | 1105                 | 1045 | 1000 | 915  | 855  |
| BCE5C30 | 1/2             | 10X8              | Low (Red)    | 870                  | 870  | 855  | 810  | 770  |
|         |                 |                   | Med (Blue)   | 1080                 | 1055 | 1025 | 985  | 935  |
|         |                 |                   | High (Black) | 1310                 | 1260 | 1255 | 1155 | 1085 |
| BCE5C36 | 1/3             | 10X8              | Low (Red)    | 1020                 | 970  | 955  | 910  | 805  |
|         |                 |                   | Med (Blue)   | 1275                 | 1240 | 1190 | 1150 | 1085 |
|         |                 |                   | High (Black) | 1560                 | 1520 | 1445 | 1395 | 1325 |
| BCE5C42 | 1/2             | 10X8              | Low (Red)    | 1300                 | 1275 | 1250 | 1210 | 1155 |
|         |                 |                   | Med (Blue)   | 1525                 | 1495 | 1450 | 1390 | 1345 |
|         |                 |                   | High (Black) | 1815                 | 1755 | 1695 | 1605 | 1530 |
| BCE5C48 | 1               | 12X10             | Low (Red)    | 1250                 | 1210 | 1185 | 1130 | 1110 |
|         |                 |                   | Med-Low      | 1500                 | 1465 | 1435 | 1400 | 1360 |
|         |                 |                   | Med (Blue)   | 1715                 | 1670 | 1635 | 1615 | 1575 |
|         |                 |                   | Med-High     | 1770                 | 1735 | 1700 | 1670 | 1650 |
|         |                 |                   | High (Black) | 1895                 | 1860 | 1835 | 1795 | 1760 |
| BCE5C60 | 1               | 12X10             | Low (Red)    | 1100                 | 1050 | 1000 | 925  | 830  |
|         |                 |                   | Med-Low      | 1625                 | 1595 | 1565 | 1520 | 1490 |
|         |                 |                   | Med (Blue)   | 1815                 | 1785 | 1760 | 1730 | 1685 |
|         |                 |                   | Med-High     | 1905                 | 1870 | 1835 | 1810 | 1765 |
|         |                 |                   | High (Black) | 1980                 | 1955 | 1925 | 1895 | 1860 |

All data given while air handler is operating with a wet DX coil and air filter installed.

Speeds marked in italics with an asterisk\* are the factory settings for both heating and cooling. Cooling speeds should not be reduced below factory settings. Different speeds can be set for heating mode.

### DIMENSIONS (IN.)



| Dimension | 18    |      | 24    |      | 30    |      | 36-42 |      | 48    |      | 60    |      |
|-----------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
|           | in.   | mm   | in.   | mm   | in.   | mm   | in.   | mm   | in.   | mm   | in.   | mm   |
| A         | 43.5  | 1105 | 45.5  | 1156 | 47    | 1194 | 53.63 | 1362 | 55    | 1397 | 59.75 | 1518 |
| B         | 18.5  | 470  | 18.5  | 470  | 18.5  | 470  | 21.5  | 546  | 21.5  | 546  | 21.5  | 546  |
| C         | 16.5  | 419  | 16.5  | 419  | 16.5  | 419  | 19.5  | 495  | 19.5  | 495  | 19.5  | 495  |
| D         | 16.25 | 413  | 16.25 | 413  | 16.25 | 413  | 19.25 | 489  | 19.25 | 489  | 19.25 | 489  |

All specifications and illustrations subject to change without notice and without incurring obligations.

# 4SHP20LX

## PRODUCT SPECIFICATIONS

UP TO 20 SEER  
VARIABLE CAPACITY HEAT PUMP

FORM NO. 4SHP20LX-100 (04/2017)



**COMFORT SYNC™**  
COMMUNICATING THERMOSTAT ENABLED

### INSTALLED BY THE BEST

- Specialized training is required for dealers offering the 20LX
- Installer training available through authorized distributors

### COMPRESSOR

- Inverter-driven Scroll Compressor for true variable capacity operation, precision environmental control, and exceptional energy savings
- R410A refrigerant
- Heavy-duty compressor sound blanket for quiet operation
- Internally protected against high temperature motor overload conditions

### CABINET

- Individual metal louvered panels remove easily for coil cleaning and service
- Specialized corner-mounted controls for easy service
- Baked polyester paint finished over galvanized steel for maximum durability
- Removable PVC coated wire fan discharge grill
- Removable service panel for internal access

### COILS

- Enhanced tube-and-fin coil design featuring MHT™ Technology
- Raised coil prevents debris from impeding airflow

### DESIGN

- Designed to perform in temperatures up to 125°F
- Designed to perform in temperatures down to 0°F

### COMPONENTS

- 45-degree offset gauge ports for easy service
- Service valves positioned for quick installation and service
- Variable speed condenser fan motor
- Swept wing fan blade for quiet operation
- Factory installed crankcase heater
- Factory installed TXV for excellent refrigeration control
- Factory installed high and low pressure switches
- Thread-on pressure switches for simple, quick service
- Fan orifice for smoother airflow and sound level reduction
- Specialized sensors monitor ambient, liquid line, and coil temperatures for precision system control
- Charged for 15 feet of line set
- Discharge muffler for quiet operation
- Demand defrost for increased energy efficiency
- Quiet Shift™ capable to reduce noise during defrost
- Requires Comfort Sync™ thermostat and a Comfort Sync enabled matching indoor unit

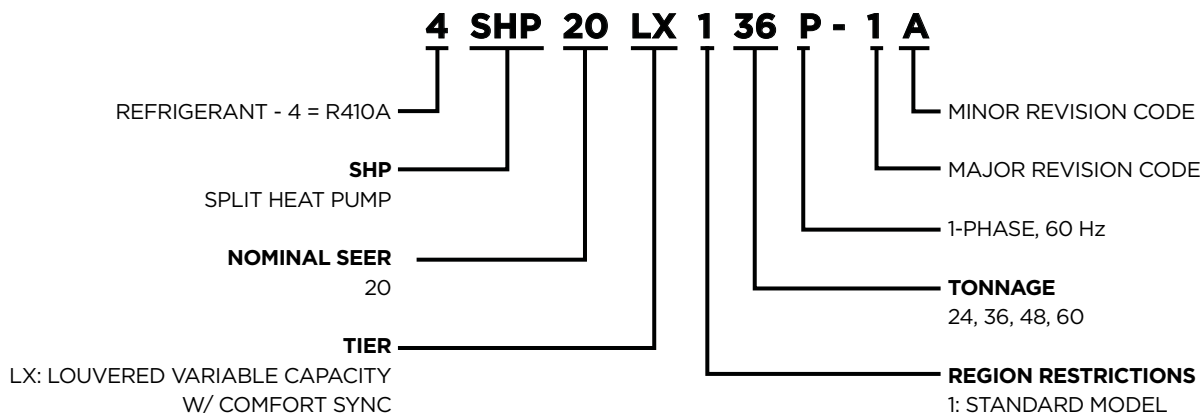
### WARRANTY

- 10 year limited warranty on compressor
- 10 year limited warranty on all parts, extended warranty available

*\*Warranty provides for a total of 10 years of limited warranty coverage (Standard 5-year limited parts warranty plus an additional 5-year limited extended parts warranty). Warranty must be registered online within 60 days of installation to qualify for 10-year coverage. Unregistered equipment defaults to 5-year coverage. Lifetime limited heat exchanger warranty applies to registered equipment only (Standard 20 years with no online registration). See full warranty at [www.alliedair.com](http://www.alliedair.com) for terms, conditions and exclusions.*



### MODEL NUMBER GUIDE



### ELECTRICAL AND PHYSICAL DATA

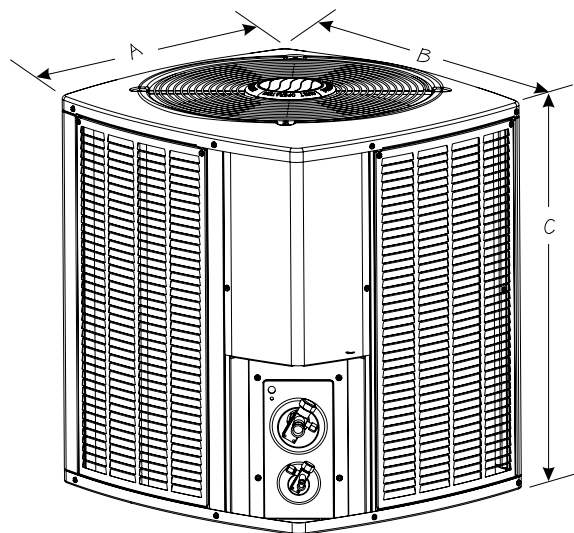
| Model          | Voltage/Hz/Phase | Voltage Range | Min. Circuit Amp. | Max. Over Current Device (amps) | Compressor        |                     | Outdoor Fan Motor |          |           | Weight (lbs.) |
|----------------|------------------|---------------|-------------------|---------------------------------|-------------------|---------------------|-------------------|----------|-----------|---------------|
|                |                  |               |                   |                                 | Rated Load (amps) | Locked Rotor (amps) | Rated Load (amps) | Rated HP | Nom. RPM  |               |
| 4SHP20LX124P-1 | 208-230/60/1     | 197-253       | 19.1              | 30                              | 13.0              | 13                  | 2.8               | 1/3      | VAR. SPD. | 243           |
| 4SHP20LX136P-1 | 208-230/60/1     | 197-253       | 20.8              | 35                              | 14.4              | 13                  | 2.8               | 1/3      | VAR. SPD. | 245           |
| 4SHP20LX148P-1 | 208-230/60/1     | 197-253       | 29.3              | 50                              | 21.2              | 20                  | 2.8               | 1/3      | VAR. SPD. | 287           |
| 4SHP20LX160P-1 | 208-230/60/1     | 197-253       | 34.9              | 60                              | 25.7              | 20                  | 2.8               | 1/3      | VAR. SPD. | 321           |

Note:  
Weights listed are unit weights with packaging

### DIMENSIONS (IN.) AND SOUND RATINGS

| Model No.      | Dimensions (inch) |           |            | Sound Rating (dBA) low | Sound Rating (dBA) High |
|----------------|-------------------|-----------|------------|------------------------|-------------------------|
|                | A - Width         | B - Depth | C - Height |                        |                         |
| 4SHP20LX124P-1 | 37.75             | 35.75     | 37.5       | 65                     | 67                      |
| 4SHP20LX136P-1 | 37.75             | 35.75     | 37.5       | 67                     | 70                      |
| 4SHP20LX148P-1 | 37.75             | 35.75     | 43.75      | 68                     | 70                      |
| 4SHP20LX160P-1 | 37.75             | 35.75     | 43.75      | 69                     | 71                      |

Note:  
Dimensions listed are unit sizes w/o packaging



## UNIT SOUND RATINGS

| Model          | Sound Power <sup>1</sup><br>(Low) | Estimated Sound Pressure (dBA) <sup>2</sup> (Low) |                          |                            | Sound Power <sup>1</sup><br>(High) | Estimated Sound Pressure (dBA) <sup>2</sup> (High) |                          |                            |
|----------------|-----------------------------------|---------------------------------------------------|--------------------------|----------------------------|------------------------------------|----------------------------------------------------|--------------------------|----------------------------|
|                |                                   | Approximate Distance <sup>3</sup>                 |                          |                            |                                    | Approximate Distance <sup>3</sup>                  |                          |                            |
|                |                                   | One Meter<br>(3.3 feet)                           | Two Meters<br>(6.6 feet) | Three Meters<br>(9.8 feet) |                                    | One Meter<br>(3.3 feet)                            | Two Meters<br>(6.6 feet) | Three Meters<br>(9.8 feet) |
| 4SHP20LX124P-1 | 65                                | 57                                                | 51                       | 47                         | 67                                 | 59                                                 | 53                       | 49                         |
| 4SHP20LX136P-1 | 67                                | 59                                                | 53                       | 49                         | 70                                 | 62                                                 | 56                       | 52                         |
| 4SHP20LX148P-1 | 68                                | 60                                                | 54                       | 50                         | 70                                 | 62                                                 | 56                       | 52                         |
| 4SHP20LX160P-1 | 69                                | 61                                                | 55                       | 51                         | 71                                 | 63                                                 | 57                       | 53                         |

1 Rated in accordance with AHRI standard 270 (2015)

2 Rated in accordance with AHRI standard 275 (2010)

3 Based only on distance factor; other factors may change this value such as:

- Unit location (reflective surfaces adjacent to the unit)
- Barrier shielding sources
- Sound path/elevation
- Outside noise sources

## REFRIGERATION DATA

| Model          | Refrig.<br>Charge<br>(oz.) * | TXV     | Refrigerant Line Size |        | Outdoor Unit Connection |        | Indoor Unit Connection |        |
|----------------|------------------------------|---------|-----------------------|--------|-------------------------|--------|------------------------|--------|
|                |                              |         | Suction               | Liquid | Suction                 | Liquid | Suction                | Liquid |
| 4SHP20LX124P-1 | 123                          | H4TXV01 | 3/4                   | 3/8    | 3/4                     | 3/8    | 3/4                    | 3/8    |
| 4SHP20LX136P-1 | 199                          | H4TXV02 | 7/8                   | 3/8    | 7/8                     | 3/8    | 7/8                    | 3/8    |
| 4SHP20LX148P-1 | 203                          | H4TXV03 | 7/8                   | 3/8    | 7/8                     | 3/8    | 7/8                    | 3/8    |
| 4SHP20LX160P-1 | 238                          | H4TXV03 | 1 1/8                 | 3/8    | 7/8 **                  | 3/8    | 7/8                    | 3/8    |

\* Factory charged for 15 feet of line set; adjust per installation instructions.

\*\* Reducer fitting supplied with OD unit

# 4SHP16LS

## PRODUCT SPECIFICATIONS

## 16 SEER SPLIT ENHANCED HEAT PUMP

FORM NO. 4SHP16LS-100 (10/2019)



### COMFORT SYNC COMMUNICATING THERMOSTAT ENABLED

#### COMPRESSOR

- High-efficiency 2 stage Copeland Ultra Tech™ scroll compressor
- R410a refrigerant
- Grommet mounted compressor for quiet operation
- Internally protected against high temperature motor overload conditions
- Heavy-duty compressor sound blanket for quiet operation

#### CABINET

- Full metal louvered panel coil guard protection
- Controls located in corner post for easy installation and service
- Rounded corners for safety and attractive, clean appearance
- Baked polyester paint finish over galvanized steel for maximum durability
- PVC coated wire fan discharge grill
- External gauge ports for easy service
- Raised base pan with ports allows for excellent water and debris drainage

#### COIL

- Enhanced aluminum fins and copper tubing for high efficiency and capacity
- Raised coil prevents debris from collecting in bottom of coil and

#### COMPONENTS

- Full metal louvered panels remove for easy coil cleaning and service
- Bi-directional filter drier for long-lasting durability and system protection
- Discharge muffler for quiet operation
- Factory installed crank case heater
- Factory installed high and low pressure switch
- Advanced design defrost system featuring a smart logic for power consumption savings
- Service valves positioned for quick installation and easy service
- Trade available components
- Quiet Shift™ capable for sound control during defrost
- Communicating features
- Thermostat flexibility: works with the Comfort Sync T-Stat (when matched with communicating indoor unit) or a conventional 24V T-Stat
- Self diagnostics saves last 10 fault codes regardless of power interruption

#### DESIGN

- Designed for ambients up to 125°F

#### WARRANTY

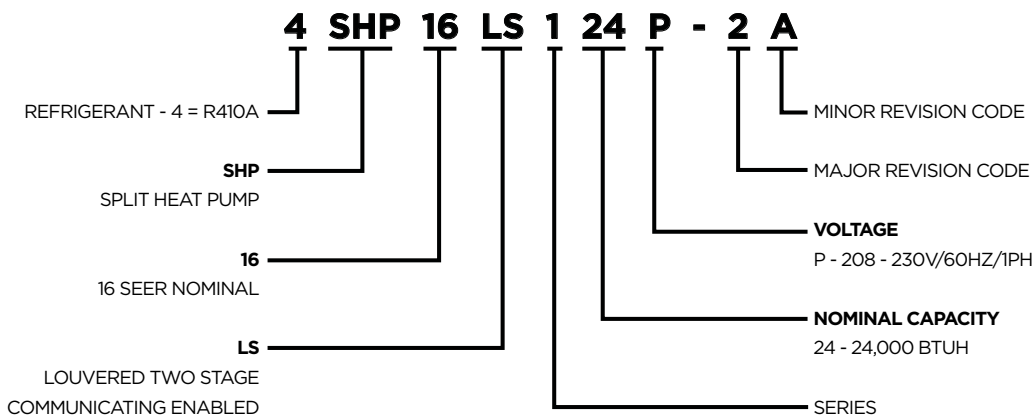
10 year limited warranty on compressor, 10 year limited warranty on all parts, extended warranty available\*

\*Warranty provides for a total of 10 years of limited warranty coverage (Standard 5-year limited parts warranty plus an additional 5-year limited extended parts warranty). Warranty must be registered online within 60 days of installation to qualify for 10-year coverage. Unregistered equipment defaults to 5-year coverage. See full warranty at [www.alliedair.com](http://www.alliedair.com) for terms, conditions and exclusions.





## MODEL NUMBER GUIDE



## PHYSICAL AND ELECTRICAL

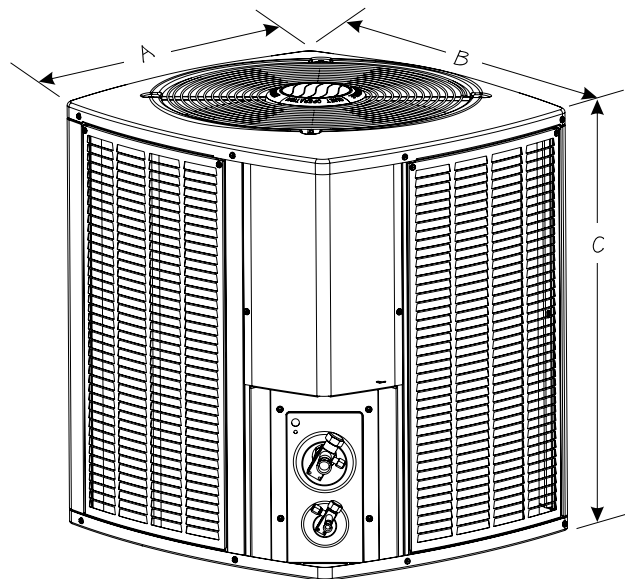
| Model          | Voltage/Hz/Phase | Voltage Range | Min. Circuit Amp. | Max. Over current Device (amps) | Compressor        |                     | Fan Motor         |          |          | Refrig. Charge (oz.) | Weight (lbs.) |
|----------------|------------------|---------------|-------------------|---------------------------------|-------------------|---------------------|-------------------|----------|----------|----------------------|---------------|
|                |                  |               |                   |                                 | Rated Load (amps) | Locked Rotor (amps) | Rated Load (amps) | Rated HP | Nom. RPM |                      |               |
| 4SHP16LS124P-2 | 208-230-60/1     | 197-253       | 13.5              | 20                              | 11.4              | 52                  | 0.7               | 1/10     | 1075     | 146                  | 207           |
| 4SHP16LS136P-2 | 208-230-60/1     | 197-253       | 22.5              | 35                              | 19.0              | 82                  | 1.7               | 1/4      | 825      | 192                  | 253           |
| 4SHP16LS148P-2 | 208-230-60/1     | 197-253       | 28.2              | 45                              | 24.0              | 96                  | 1.8               | 1/3      | 825      | 236                  | 288           |
| 4SHP16LS160P-2 | 208-230-60/1     | 197-253       | 35.1              | 60                              | 26.0              | 118                 | 2.8               | 1/3      | ECM      | 244                  | 313           |

## UNIT SOUND RATINGS

| Model          | Sound Power <sup>1</sup> | Estimated Sound Pressure (dBA) <sup>2</sup> |                       |                         |
|----------------|--------------------------|---------------------------------------------|-----------------------|-------------------------|
|                |                          | Approximate Distance <sup>3</sup>           |                       |                         |
|                |                          | One Meter (3.3 feet)                        | Two Meters (6.6 feet) | Three Meters (9.8 feet) |
| 4SHP16LS124P-3 | 73                       | 65                                          | 59                    | 55                      |
| 4SHP16LS136P-3 | 77                       | 69                                          | 63                    | 59                      |
| 4SHP16LS148P-3 | 75                       | 67                                          | 61                    | 57                      |
| 4SHP16LS160P-3 | 74                       | 66                                          | 60                    | 56                      |

## UNIT DIMENSIONS (IN.)

| Model No.      | Dimensions |        |        |
|----------------|------------|--------|--------|
|                | A          | B      | C      |
| 4SHP16LS124P-2 | 24-3/4     | 26-3/4 | 33-3/4 |
| 4SHP16LS136P-2 | 29-3/8     | 31-1/4 | 37-3/4 |
| 4SHP16LS148P-2 | 35-3/4     | 37-3/4 | 37-3/4 |
| 4SHP16LS160P-2 | 35-3/4     | 37-3/4 | 43-3/4 |



# 4SHP15LE

## PRODUCT SPECIFICATIONS

15 SEER SPLIT HEAT PUMP SYSTEM  
UP TO 16 SEER & 9.0 HSPF

FORM NO. 4SHP15LE-100 (09/2019)



### COMPRESSOR

- High-efficiency scroll compressor
- R410A refrigerant
- Grommet mounted compressor for quiet operation
- Heavy-duty compressor sound blanket for quiet operation
- Internally protected against high temperature motor overload conditions

### CABINET

- Full metal louvered panel with 2 screws to remove for ease of coil cleaning and service
- Corner-mounted controls for easy service
- Rounded corners for safety and attractive, clean appearance
- Baked polyester paint finished over galvanized steel for maximum durability
- Removable PVC coated wire fan discharge grill
- 45-degree offset gauge ports for easy service
- Removable service panel for internal access

### COILS

- Omniguard™ total corrosion protection technology designed coil
- Enhanced tube-and-fin coil design featuring MHT™ Technology
- Lanced fins for maximum heat transfer
- Factory tested for leakproof construction
- Raised coil prevents debris from impeding airflow

### DESIGN

- Designed to perform in temperatures up to 125°F
- Designed to perform in temperatures down to 0°F

### COMPONENTS

- Factory installed crankcase heater (on select models)
- Factory installed high and low pressure switches
- Thread-on pressure switches with Schrader core for simple, quick replacement
- Filter drier shipped loose for installation flexibility
- Fan orifice for smoother airflow and sound level reduction
- Charged for 15 feet of line set
- Discharge muffler for quiet operation
- Quiet Shift™ capable to reduce noise during defrost
- Sealed Contactor with lugs

### WARRANTY

10 year limited warranty on compressor

5 year limited warranty on all parts, extended warranty available

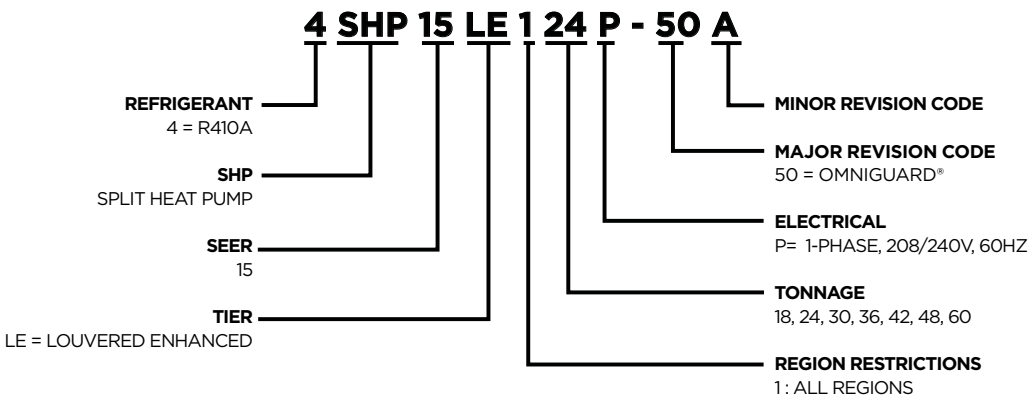
*\*Warranty provides for a total of 10 years of limited warranty coverage (Standard 5-year limited parts warranty plus an additional 5-year limited extended parts warranty). Warranty must be registered online within 60 days of installation to qualify for 10-year coverage. Unregistered equipment defaults to 5-year coverage. See full warranty at [www.alliedair.com](http://www.alliedair.com) for terms, conditions, and exclusions.*

### NOTE:

For the latest AHRI system matches, please visit [www.alliedratings.com](http://www.alliedratings.com) or [www.AHRIdirectory.org](http://www.AHRIdirectory.org)



MODEL NUMBER GUIDE



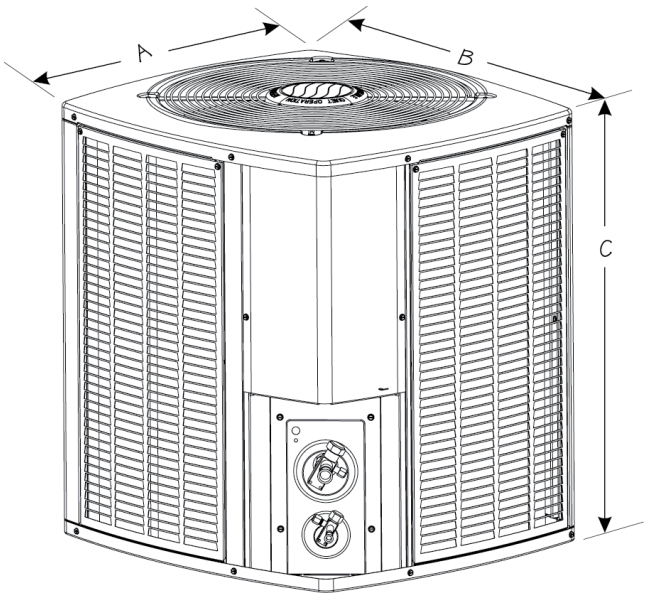
PHYSICAL AND ELECTRICAL DATA

| Model           | Voltage/Hz/<br>Phase | Voltage<br>Range | Min.<br>Circuit<br>Amp. | Max. Over<br>Current<br>Device<br>(amps) | Compressor              |                           | Outdoor Fan Motor   |             |             |
|-----------------|----------------------|------------------|-------------------------|------------------------------------------|-------------------------|---------------------------|---------------------|-------------|-------------|
|                 |                      |                  |                         |                                          | Rated<br>Load<br>(amps) | Locked<br>Rotor<br>(amps) | Full Load<br>(amps) | Rated<br>HP | Nom.<br>RPM |
| 4SHP15LE118P-50 | 208-230/60/1         | 197-253          | 12.3                    | 20                                       | 9.0                     | 48                        | 1.1                 | 1/6         | 825         |
| 4SHP15LE124P-50 | 208-230/60/1         | 197-253          | 17.9                    | 30                                       | 13.4                    | 58                        | 1.1                 | 1/6         | 825         |
| 4SHP15LE130P-50 | 208-230/60/1         | 197-253          | 17.1                    | 25                                       | 12.8                    | 64                        | 1.1                 | 1/6         | 825         |
| 4SHP15LE136P-50 | 208-230/60/1         | 197-253          | 18.7                    | 30                                       | 14.1                    | 77                        | 1.1                 | 1/6         | 825         |
| 4SHP15LE142P-50 | 208-230/60/1         | 197-253          | 24.2                    | 40                                       | 17.9                    | 112                       | 1.8                 | 1/3         | 825         |
| 4SHP15LE148P-50 | 208-230/60/1         | 197-253          | 29.0                    | 50                                       | 21.8                    | 117                       | 1.8                 | 1/3         | 825         |
| 4SHP15LE160P-50 | 208-230/60/1         | 197-253          | 29.4                    | 50                                       | 22.1                    | 125                       | 1.8                 | 1/3         | 825         |

UNIT DIMENSIONS (IN.)

| Model           | Dimensions (inch) |              |               | Shipping<br>Weight<br>(lbs.) |
|-----------------|-------------------|--------------|---------------|------------------------------|
|                 | A -<br>Width      | B -<br>Depth | C -<br>Height |                              |
| 4SHP15LE118P-50 | 29.25             | 31.25        | 43.75         | 207                          |
| 4SHP15LE124P-50 | 29.25             | 31.25        | 43.75         | 208                          |
| 4SHP15LE130P-50 | 29.25             | 31.25        | 43.75         | 205                          |
| 4SHP15LE136P-50 | 29.25             | 31.25        | 37.75         | 224                          |
| 4SHP15LE142P-50 | 35.75             | 37.75        | 37.75         | 290                          |
| 4SHP15LE148P-50 | 35.75             | 37.75        | 37.75         | 293                          |
| 4SHP15LE160P-50 | 35.75             | 37.75        | 43.75         | 336                          |

Note: Dimensions listed are unit sizes w/o packaging  
Weights listed are unit weights with packaging



**SOUND RATINGS**

| Model           | Sound Power <sup>1</sup> | Estimated Sound Pressure (dBA) <sup>2</sup> |                        |                        |
|-----------------|--------------------------|---------------------------------------------|------------------------|------------------------|
|                 |                          | Approximate Distance <sup>3</sup>           |                        |                        |
|                 |                          | 3.3 Feet<br>(1 Meter)                       | 6.6 Feet<br>(2 Meters) | 9.8 Feet<br>(3 Meters) |
| 4SHP15LE118P-50 | 74                       | 66                                          | 60                     | 56                     |
| 4SHP15LE124P-50 | 74                       | 66                                          | 60                     | 56                     |
| 4SHP15LE130P-50 | 73                       | 65                                          | 59                     | 55                     |
| 4SHP15LE136P-50 | 77                       | 69                                          | 63                     | 59                     |
| 4SHP15LE142P-50 | 77                       | 69                                          | 63                     | 59                     |
| 4SHP15LE148P-50 | 79                       | 71                                          | 65                     | 61                     |
| 4SHP15LE160P-50 | 77                       | 69                                          | 63                     | 59                     |

<sup>1</sup> Rated in accordance with AHRI standard 270 (2015). AHRI Standard 270 establishes a method of rating outdoor unitary equipment in terms of Sound Power.

<sup>2</sup> Rated in accordance with AHRI standard 275 (2010). AHRI Standard 275 provides the calculations for estimating the A-Weighted Sound Pressure at a given distance from the equipment. That is a more useful number because that is what humans will hear.

<sup>3</sup> Based only on distance factor; other factors may change this value such as:

- Unit location (reflective surfaces adjacent to the unit)
- Barrier shielding sources
- Sound path/elevation
- Outside noise sources

**REFRIGERATION DATA**

| Model           | Factory Refrig.<br>Charge (Oz.)* | TXV     | Refrigerant Line Size |        | Outdoor Unit Connection |        | Indoor Unit Connection |        |
|-----------------|----------------------------------|---------|-----------------------|--------|-------------------------|--------|------------------------|--------|
|                 |                                  |         | Suction               | Liquid | Suction                 | Liquid | Suction                | Liquid |
| 4SHP15LE118P-50 | 112                              | H4TXV01 | 3/4                   | 3/8    | 3/4                     | 3/8    | 3/4                    | 3/8    |
| 4SHP15LE124P-50 | 115                              | H4TXV01 | 3/4                   | 3/8    | 3/4                     | 3/8    | 3/4                    | 3/8    |
| 4SHP15LE130P-50 | 115                              | H4TXV01 | 3/4                   | 3/8    | 3/4                     | 3/8    | 3/4                    | 3/8    |
| 4SHP15LE136P-50 | 161                              | H4TXV02 | 7/8                   | 3/8    | 7/8                     | 3/8    | 3/4                    | 3/8    |
| 4SHP15LE142P-50 | 171                              | H4TXV02 | 7/8                   | 3/8    | 7/8                     | 3/8    | 7/8                    | 3/8    |
| 4SHP15LE148P-50 | 171                              | H4TXV02 | 7/8                   | 3/8    | 7/8                     | 3/8    | 7/8                    | 3/8    |
| 4SHP15LE160P-50 | 193                              | H4TXV03 | 1 1/8                 | 3/8    | 7/8                     | 3/8    | 7/8                    | 3/8    |

\*Factory charged for 15 feet of line set; adjust per installation instructions.

Refrigerant charge also varies with indoor unit; Refer refrigerant charge label

# OMNIGUARD™ EVAPORATOR COILS

## PRODUCT SPECIFICATIONS

### EVAPORATOR COILS FEATURES

- **Omniguard™ Total Corrosion Protection** our advanced evaporator coil helps protect against leaks and corrosion for long term performance.
- Microban® antimicrobial additive in the drain pan to resist mold and mildew growth.
- Aluminum tubing, hairpins, distributors and header tubes. Copper refrigerant connections for easy brazing to both liquid and suction lines.
- Preformed flanges in outlet for quick and easy plenum connections
- One of the lowest water retention drain pans in the industry to minimize mold and mildew growth.
- Interlocking door assemblies and snug line seal grommets to minimize air leakage
- Foil-face insulation for easy cleaning
- Tubing located at door split for easy coil service or cleaning
- All drain pans are compatible with UV lights
- All piston coils are compatible with R22 or R410a
- 10-year limited parts warranty available when applied with a system. *See limited warranty document for details.*

FORM NO. EAC/AU/AH1P/A4X-100 (08/2018)



**EAC4X**  
**EAC1P**

### Upflow Coils

#### EAC4X (Cased)

- Factory installed TXV for quick installation in high efficiency applications
- Tightly sealed, painted steel cabinet with wall to wall insulation to ensure <2% air leakage.
- Single protruding right side dual drain port for easy installation and service access.

#### EAC1P (Cased)

- External cabinet mounted distributor body designed for easy changing of orifice sizes and fast TXV connections
- Single protruding right side dual drain port for easy installation and service access.



**EAU1P**

#### EAU1P (Uncased)

- Orifice assembly designed for easy changing of orifice sizes and fast TXV connections
- Single protruding right side dual drain port for easy installation and service access.

### Horizontal Coils

#### EH1P (Cased)

- Dedicated horizontal
- Insulated galvanized steel case with durable embossed finish
- Removable panels provide access to coil.
- Refrigerant lines extend outside of the cabinet for easy connection.



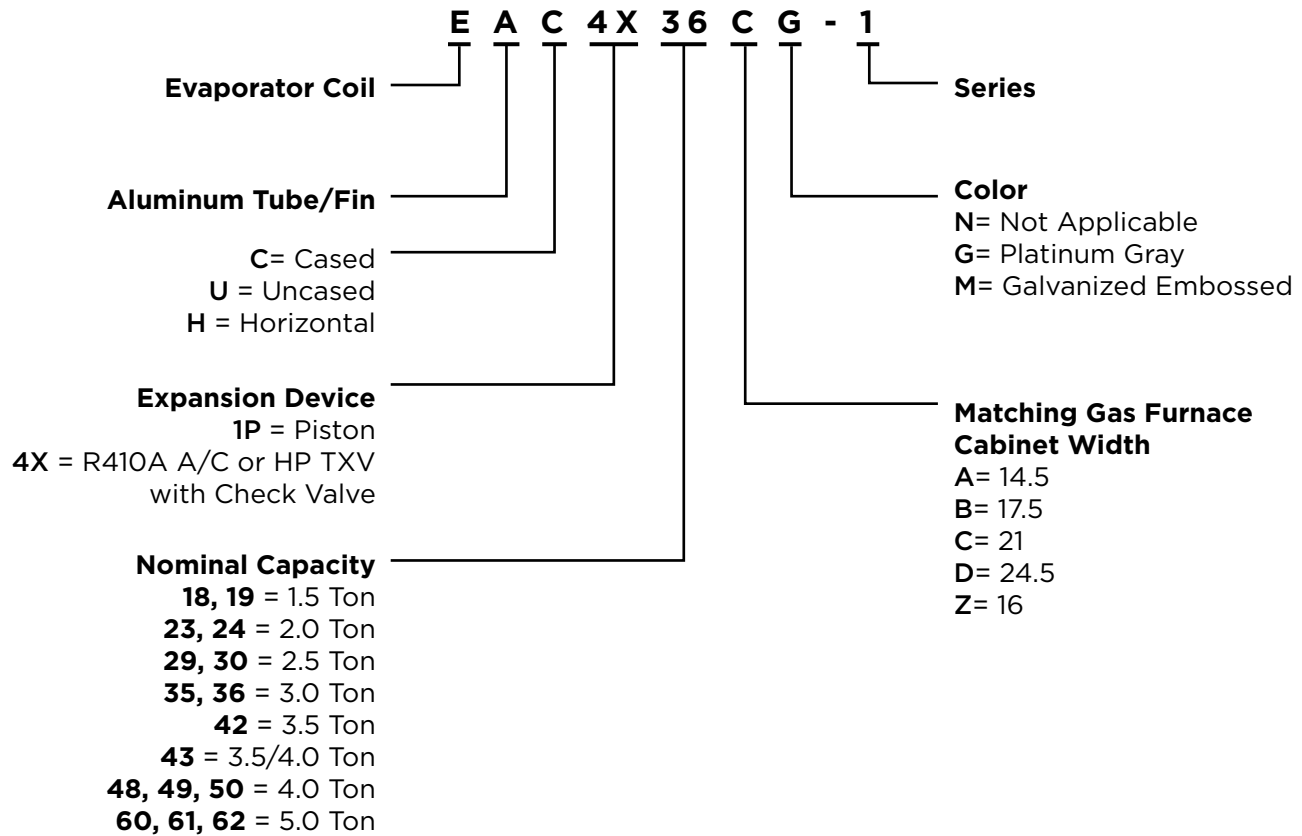
**EAH1P**

### WARRANTY

10 year limited parts warranty available when applied with a system. See limited warranty document for details.



### MODEL NUMBER GUIDE



### EAC1P

| SPECIFICATIONS                            |                              |             |              | 1.5 TO 2 TON |           |
|-------------------------------------------|------------------------------|-------------|--------------|--------------|-----------|
| General Data                              | Uncased Model No.            | EAU1P-18/24 | EAU1P-18/24B | EAUC1P-24A   | EAU1P-24B |
|                                           | Cased Model No.              | EAC1P-18/24 | EAC1P-18/24B | EAC1P-24A    | EAC1P-24B |
| <b>Line Connections in.</b>               | Suction / vapor o.d. - sweat | 3/4         | 3/4          | 3/4          | 3/4       |
|                                           | Liquid o.d. - sweat          | 3/8         | 3/8          | 3/8          | 3/8       |
|                                           | Condensate drain (fpt)       | (2) 3/4     | (2) 3/4      | (2) 3/4      | (2) 3/4   |
| <b>RFCIV metering device orifice size</b> |                              | 0.053       | 0.053        | 0.057        | 0.057     |
| <b>Shipping Data - lbs.</b>               | Uncased                      | 18          | 20           | 23           | 24        |
|                                           | Cased                        | 30          | 34           | 38           | 43        |

<sup>1</sup> Uncased coils match furnaces without any overhang but require optional adaptor base or field fabricated transition to match furnace width.

**EAC1P (CONTINUED)**

| SPECIFICATIONS                     |                              |           |           |              | 2.5 TO 3 TON |
|------------------------------------|------------------------------|-----------|-----------|--------------|--------------|
| General Data                       | Uncased Model No.            | EAU1P-30A | EAU1P-30B | EAU1P-30/36A | EAU1P-30/36B |
|                                    | Cased Model No.              | EAC1P-30A | EAC1P-30B | EAC1P-30/36A | EAC1P-30/36B |
| Line Connections in.               | Suction / vapor o.d. - sweat | 3/4       | 3/4       | 3/4          | 3/4          |
|                                    | Liquid o.d. - sweat          | 3/8       | 3/8       | 3/8          | 3/8          |
|                                    | Condensate drain (fpt)       | (2) 3/4   | (2) 3/4   | (2) 3/4      | (2) 3/4      |
| RFCIV metering device orifice size |                              | 0.067     | 0.067     | 0.057        | 0.057        |
| Shipping Data - lbs.               | Uncased                      | 31        | 32        | 26           | 27           |
|                                    | Cased                        | 45        | 50        | 41           | 45           |

<sup>1</sup> Uncased coils match furnaces without any overhang but require optional adaptor base or field fabricated transition to match furnace width.

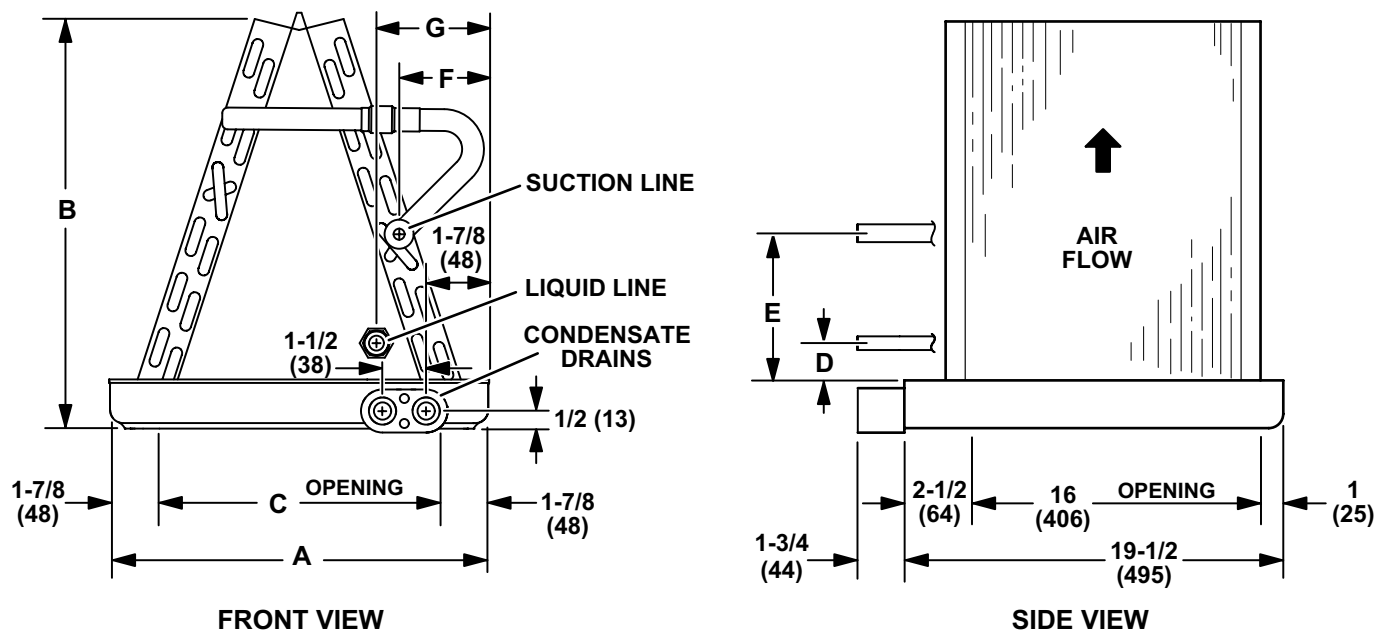
| SPECIFICATIONS                     |                              |              |           |           | 2.5 TO 4 TON |           |
|------------------------------------|------------------------------|--------------|-----------|-----------|--------------|-----------|
| General Data                       | Uncased Model No.            | EAU1P-30/36C | EAU1P-36A | EAU1P-36B | EAU1P-48B    | EAU1P-48C |
|                                    | Cased Model No.              | EAC1P-30/36C | EAC1P-36A | EAC1P-36B | EAC1P-48B    | EAC1P-48C |
| Nominal size - Tons                |                              | 2.5 / 3      | 3         | 3         | 3.5 / 4      | 3.5 / 4   |
| Line Connections in.               | Suction / vapor o.d. - sweat | 3/4          | 3/4       | 3/4       | 7/8          | 7/8       |
|                                    | Liquid o.d. - sweat          | 3/8          | 3/8       | 3/8       | 3/8          | 3/8       |
|                                    | Condensate drain (fpt)       | (2) 3/4      | (2) 3/4   | (2) 3/4   | (2) 3/4      | (2) 3/4   |
| RFCIV metering device orifice size |                              | 0.057        | 0.070     | 0.070     | 0.071        | 0.071     |
| Shipping Data - lbs.               | Uncased                      | 29           | 31        | 33        | 43           | 44        |
|                                    | Cased                        | 48           | 46        | 50        | 55           | 60        |

<sup>1</sup> Uncased coils match furnaces without any overhang but require optional adaptor base or field fabricated transition to match furnace width.

| SPECIFICATIONS                     |                              |           |              |           | 4 TO 5 TON |
|------------------------------------|------------------------------|-----------|--------------|-----------|------------|
| General Data                       | Uncased Model No.            | EAU1P-49C | EAU1P-50/60C | EAU1P-60C | EAU1P-60D  |
|                                    | Cased Model No.              | EAC1P-49C | EAC1P-50/60C | EAC1P-60C | EAC1P-60D  |
| Nominal size - Tons                |                              | 4         | 4 / 5        | 5         | 5          |
| Line Connections in.               | Suction / vapor o.d. - sweat | 7/8       | 7/8          | 7/8       | 7/8        |
|                                    | Liquid o.d. - sweat          | 3/8       | 3/8          | 3/8       | 3/8        |
|                                    | Condensate drain (fpt)       | (2) 3/4   | (2) 3/4      | (2) 3/4   | (2) 3/4    |
| RFCIV metering device orifice size |                              | 0.076     | 0.070        | 0.077     | 0.077      |
| Shipping Data - lbs.               | Uncased                      | 53        | 40           | 58        | 48         |
|                                    | Cased                        | 70        | 60           | 73        | 72         |

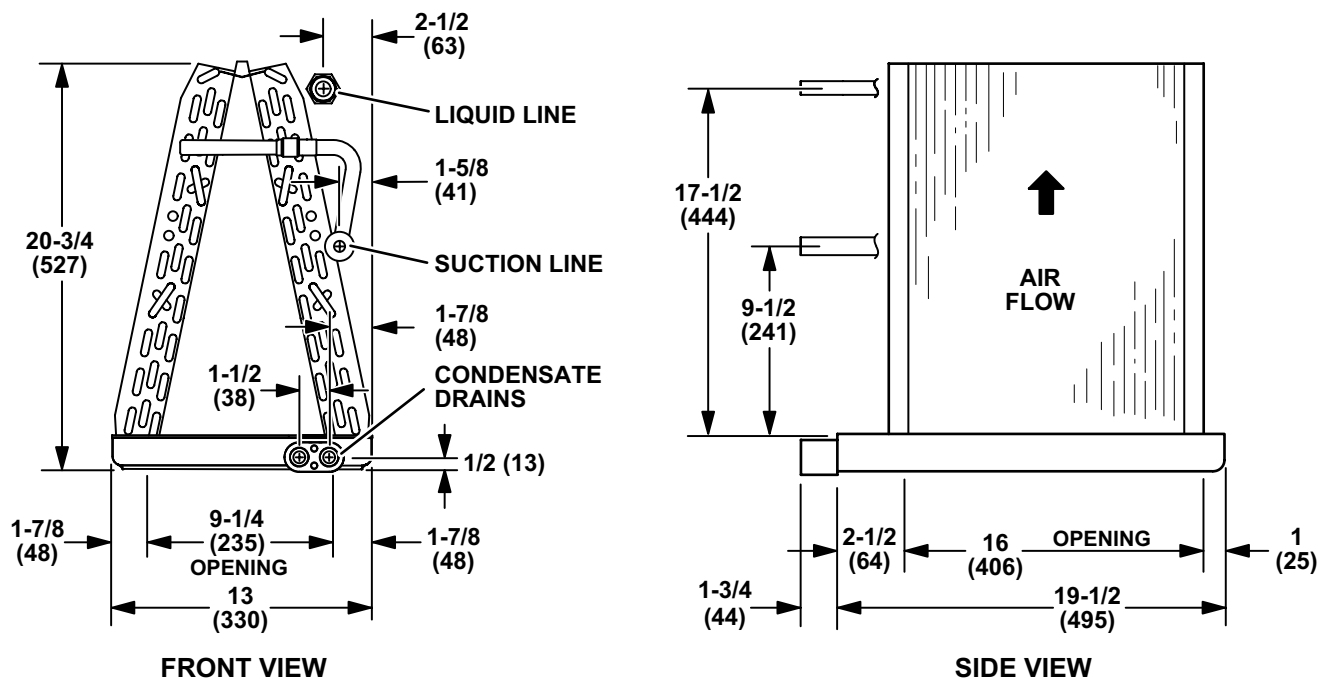
<sup>1</sup> Uncased coils match furnaces without any overhang but require optional adaptor base or field fabricated transition to match furnace width.

### EAU1P-18/24A, -18/24B, -24A, -24B Coils



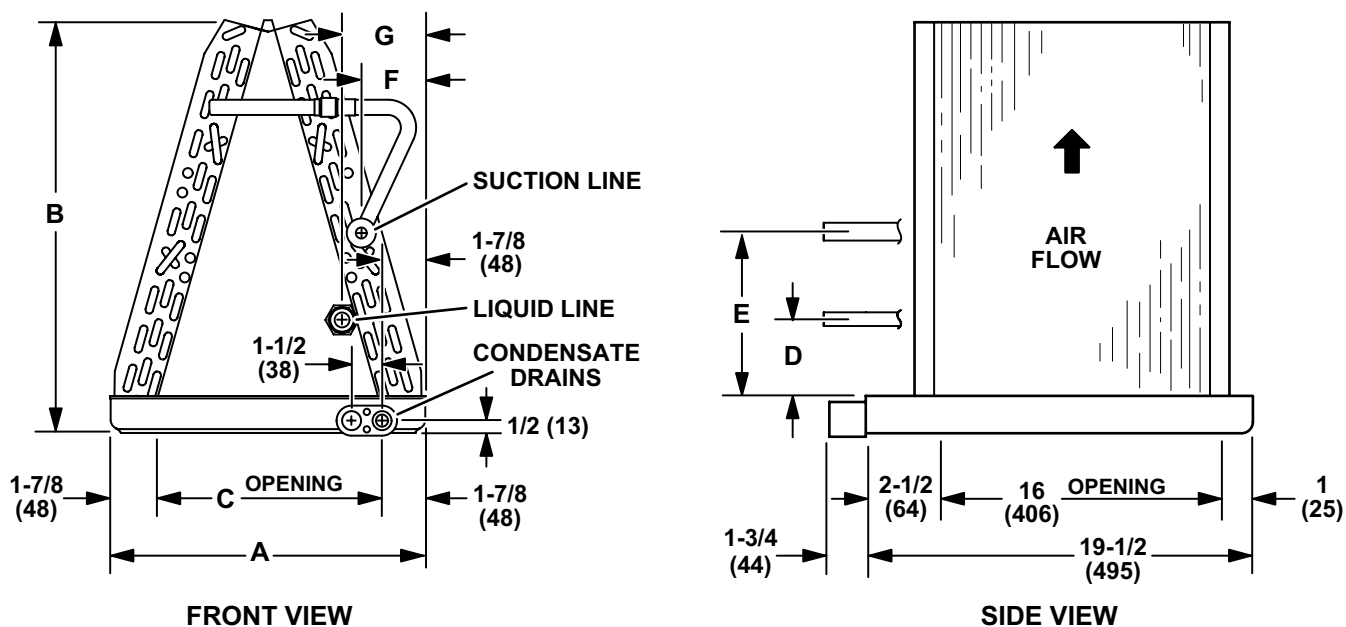
| Model Number | A      |     | B      |     | C      |     | D     |    | E     |     | F     |    | G     |     |
|--------------|--------|-----|--------|-----|--------|-----|-------|----|-------|-----|-------|----|-------|-----|
|              | in.    | mm  | in.    | mm  | in.    | mm  | in.   | mm | in.   | mm  | in.   | mm | in.   | mm  |
| EAU1P-18/24A | 13     | 330 | 14-1/8 | 359 | 9-1/4  | 235 | 1-1/4 | 32 | 5     | 127 | 3-1/8 | 79 | 3-7/8 | 98  |
| EAU1P-18/24B | 15-1/2 | 394 | 14-1/8 | 359 | 11-3/4 | 298 | 1     | 25 | 4-5/8 | 117 | 2-7/8 | 73 | 3-5/8 | 92  |
| EAU1P-24A    | 13     | 330 | 16-3/8 | 416 | 9-1/4  | 235 | 2-7/8 | 73 | 7-5/8 | 194 | 3-1/8 | 79 | 3-3/4 | 95  |
| EAU1P-24B    | 15-1/2 | 394 | 16-3/8 | 416 | 11-3/4 | 298 | 2-1/4 | 57 | 7-1/2 | 190 | 3-1/8 | 79 | 4     | 102 |

## EAU1P35-30A Coil



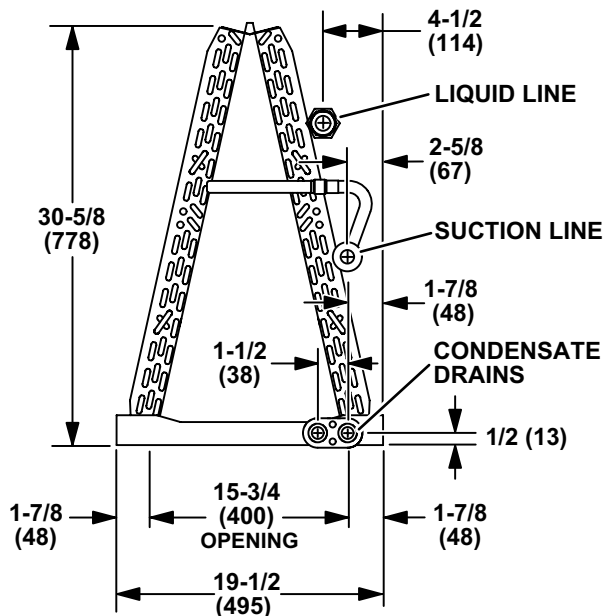


### EAU1P-30B, -30/36A, -30/36B, -30/36C, -36A, -36B, -48B, -48C, -49C, -50/60C Coils

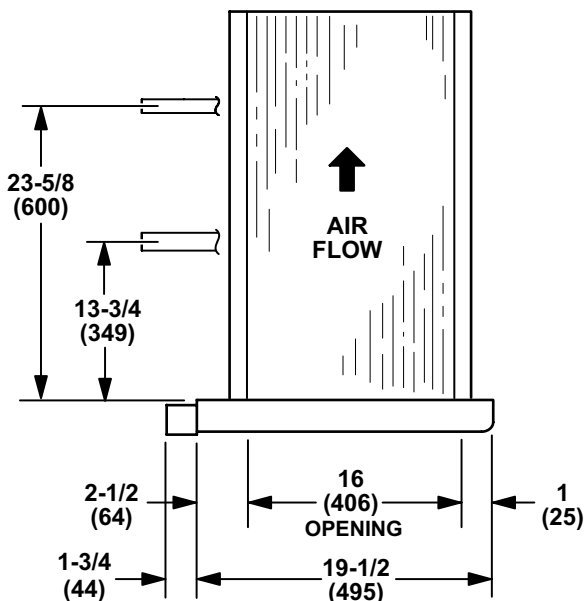


| Model Number        | A      |     | B      |     | C      |     | D     |     | E      |     | F     |    | G     |     |
|---------------------|--------|-----|--------|-----|--------|-----|-------|-----|--------|-----|-------|----|-------|-----|
|                     | in.    | mm  | in.    | mm  | in.    | mm  | in.   | mm  | in.    | mm  | in.   | mm | in.   | mm  |
| <b>EAU1P-30B</b>    | 15-1/2 | 394 | 20-3/4 | 527 | 11-3/4 | 298 | 3-1/8 | 79  | 8      | 203 | 3-1/8 | 79 | 4     | 102 |
| <b>EAU1P-30/36A</b> | 13     | 330 | 22-1/4 | 565 | 9-1/4  | 235 | 2-1/2 | 64  | 11-3/4 | 298 | 3-1/8 | 79 | 3-7/8 | 98  |
| <b>EAU1P-30/36B</b> | 15-1/2 | 394 | 22-1/4 | 565 | 11-3/4 | 298 | 2-5/8 | 67  | 11     | 279 | 3-1/8 | 79 | 4     | 102 |
| <b>EAU1P-30/36C</b> | 20     | 508 | 22-1/4 | 565 | 16-1/4 | 413 | 2-3/8 | 60  | 11-7/8 | 302 | 3-1/8 | 79 | 4     | 102 |
| <b>EAU1P-36A</b>    | 13     | 330 | 22-3/8 | 568 | 9-1/4  | 235 | 4-1/4 | 108 | 12-5/8 | 321 | 2-1/2 | 64 | 3-1/2 | 89  |
| <b>EAU1P-36B</b>    | 15-1/2 | 394 | 22-3/8 | 568 | 11-3/4 | 298 | 4-1/2 | 114 | 13     | 330 | 2-7/8 | 73 | 3-5/8 | 92  |
| <b>EAU1P-48B</b>    | 15-1/2 | 394 | 26-1/4 | 667 | 11-3/4 | 298 | 4-3/8 | 111 | 12-1/4 | 311 | 3-1/8 | 79 | 3-3/4 | 95  |
| <b>EAU1P-48C</b>    | 20     | 508 | 26-1/4 | 667 | 16-1/4 | 413 | 4-1/8 | 105 | 11-3/4 | 298 | 3-1/8 | 79 | 3-3/4 | 95  |
| <b>EAU1P-49C</b>    | 19-1/2 | 495 | 28-1/2 | 724 | 15-3/4 | 400 | 4-1/2 | 114 | 11-1/4 | 286 | 2-5/8 | 67 | 3-3/4 | 95  |
| <b>EAU1P-50/60C</b> | 20     | 508 | 25-7/8 | 657 | 16-1/4 | 413 | 3-3/4 | 95  | 11-3/4 | 298 | 3-1/8 | 79 | 4     | 102 |

### EAU1P-60C Coil

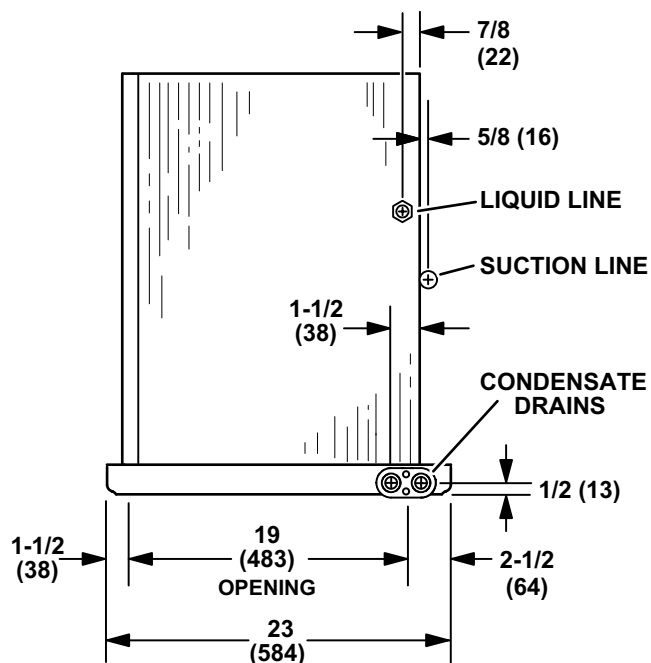


FRONT VIEW

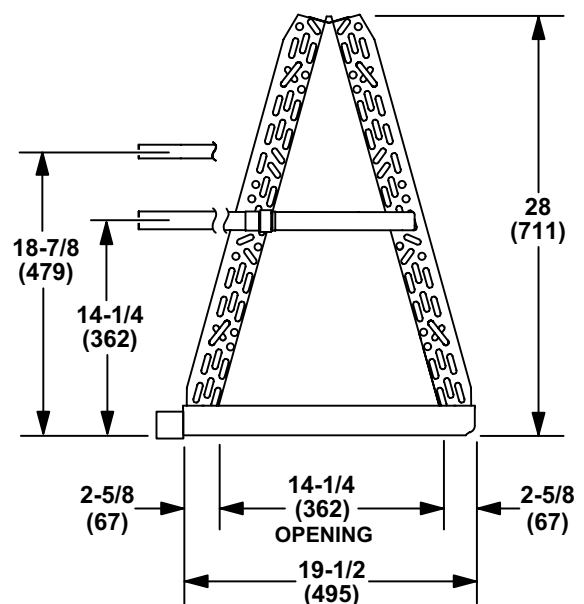


SIDE VIEW

### EAU1P-60D Coil

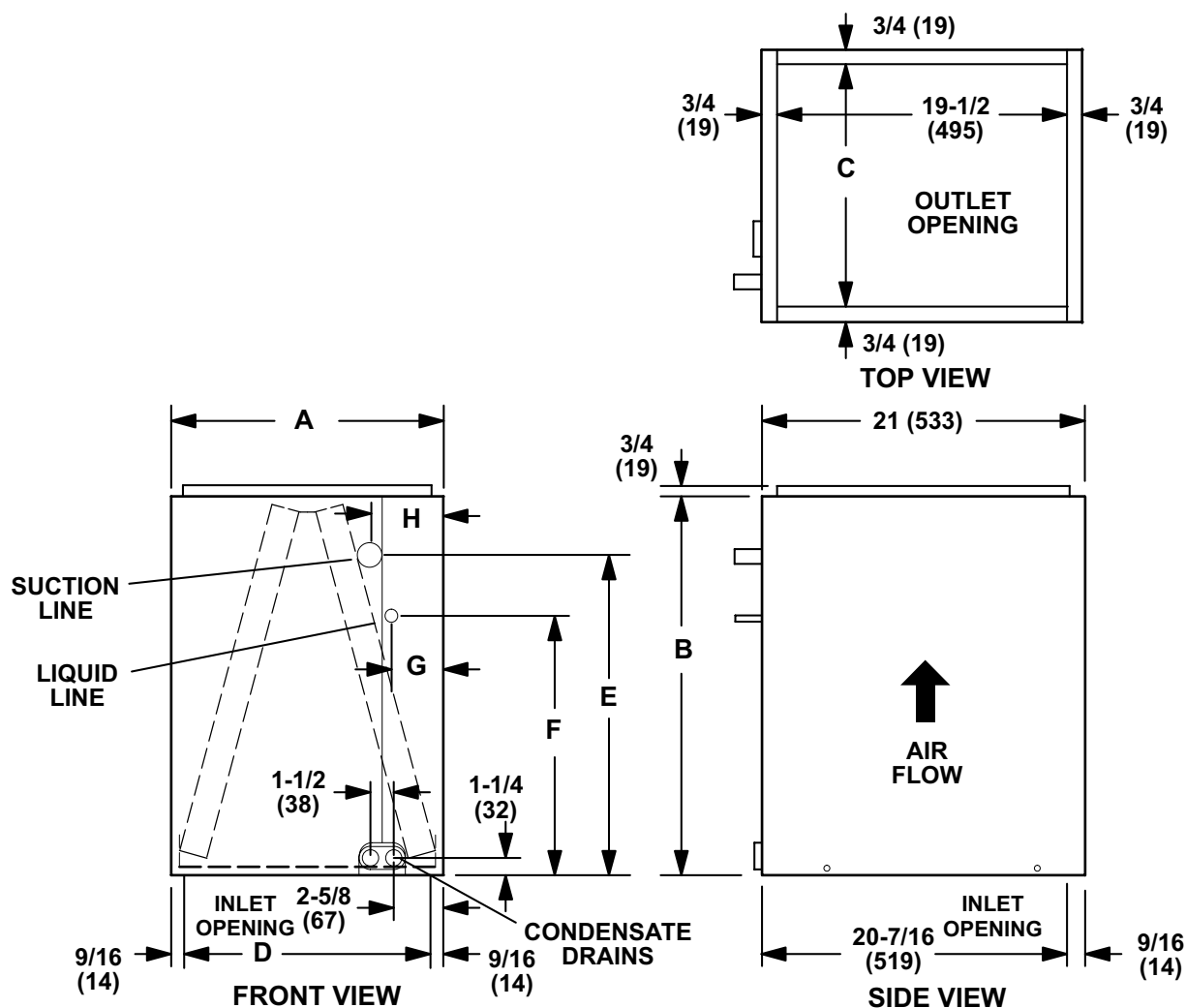


FRONT VIEW



SIDE VIEW

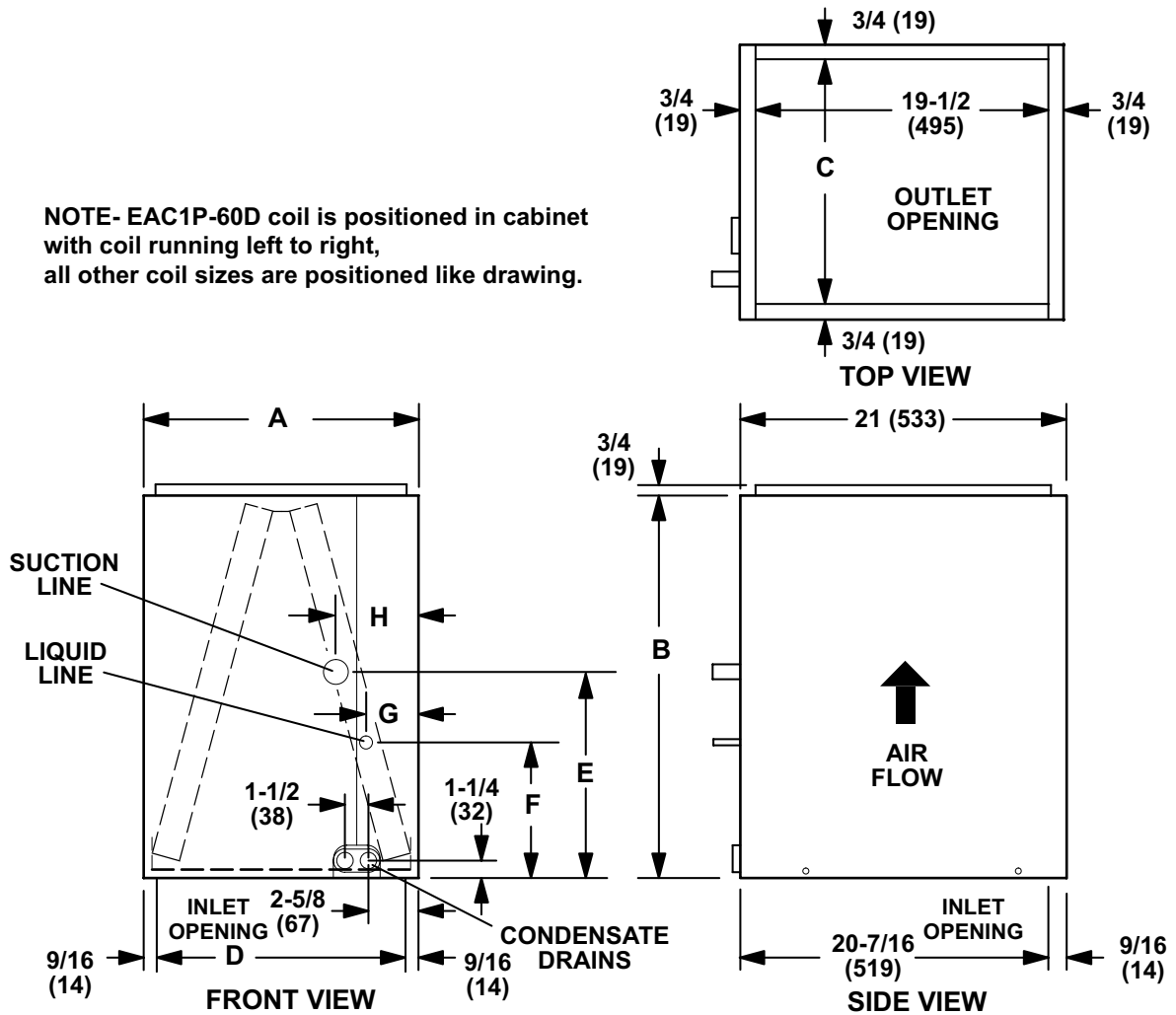
## EAC1P-18/24(A/B), -30/36(A/B/C), -36(A/B) Coils



| Model Number | A      |     | B      |     | C      |     | D      |     | E      |     | F     |     | G     |    | H     |     |
|--------------|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|-------|-----|-------|----|-------|-----|
|              | in.    | mm  | in.    | mm  | in.    | mm  | in.    | mm  | in.    | mm  | in.   | mm  | in.   | mm | in.   | mm  |
| EAC1P-18/24A | 14-1/2 | 368 | 16-1/2 | 419 | 13     | 330 | 13-3/8 | 340 | 7-3/8  | 187 | 3-1/2 | 89  | 3     | 76 | 3-7/8 | 98  |
| EAC1P-18/24B | 17-1/2 | 445 | 16-1/2 | 419 | 16     | 406 | 16-3/8 | 416 | 7      | 178 | 3-1/2 | 89  | 3     | 76 | 3-7/8 | 98  |
| EAC1P-30/36A | 14-1/2 | 368 | 24-1/2 | 622 | 13     | 330 | 13-3/8 | 340 | 14-1/4 | 362 | 4-3/4 | 121 | 3     | 76 | 3-7/8 | 98  |
| EAC1P-30/36B | 17-1/2 | 445 | 24-1/2 | 622 | 16     | 406 | 16-3/8 | 416 | 13-3/8 | 340 | 4-3/4 | 121 | 3     | 76 | 4-1/8 | 108 |
| EAC1P-30/36C | 21     | 533 | 24-1/2 | 622 | 19-1/2 | 495 | 19-7/8 | 505 | 14-3/8 | 365 | 4-3/4 | 121 | 3     | 76 | 3-5/8 | 92  |
| EAC1P-36A    | 14-1/2 | 368 | 24-1/2 | 622 | 13     | 330 | 13-3/8 | 340 | 13-1/2 | 343 | 4-3/4 | 121 | 2     | 52 | 3-1/4 | 83  |
| EAC1P-36B    | 17-1/2 | 445 | 24-1/2 | 622 | 16     | 406 | 16-3/8 | 416 | 13-3/4 | 350 | 4-3/4 | 121 | 2-5/8 | 67 | 3-7/8 | 98  |

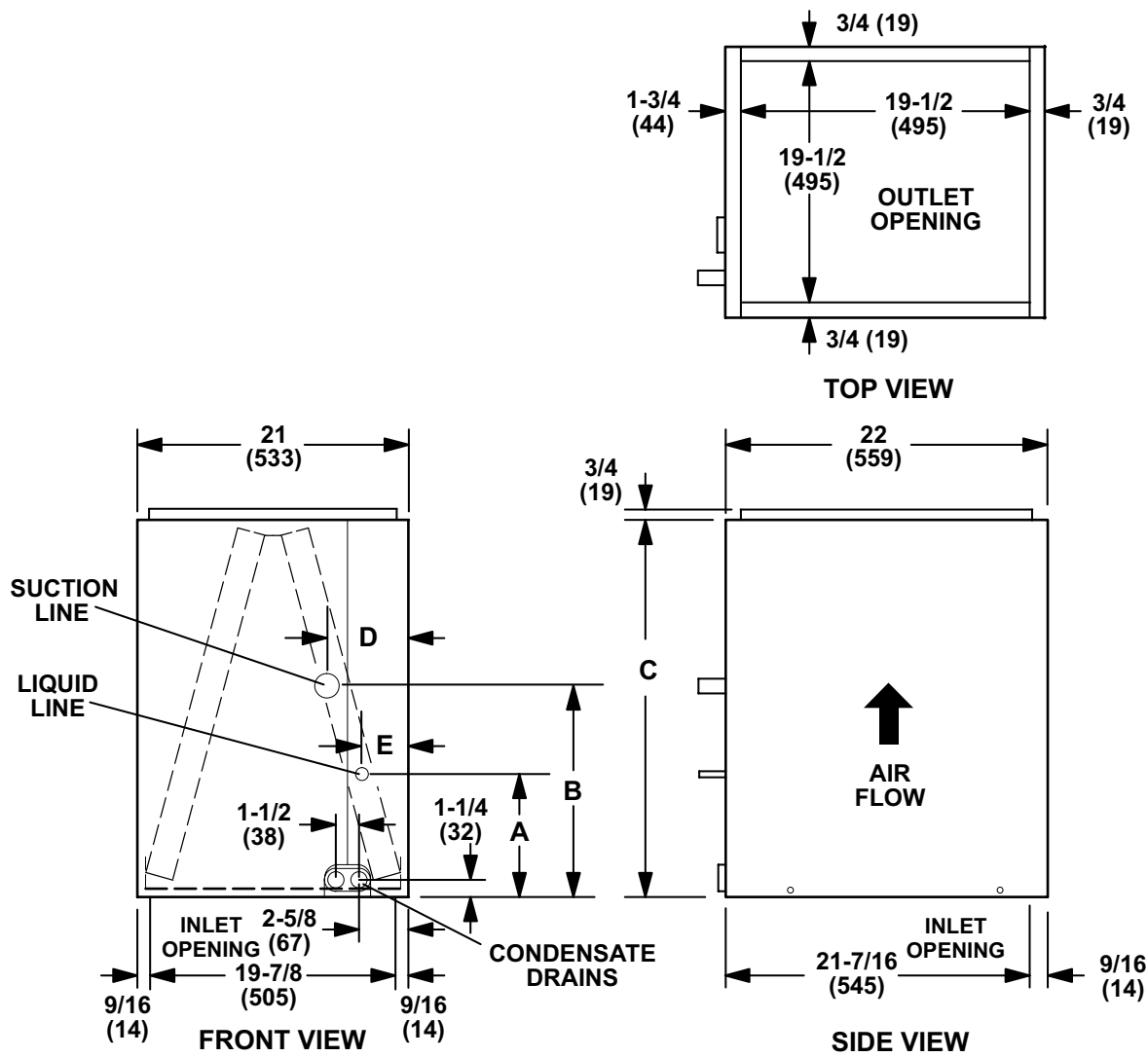
### EAC1P-24(A/B), -30(A/B), -48(B/C), -50/60C and -60D Coils

NOTE- EAC1P-60D coil is positioned in cabinet with coil running left to right, all other coil sizes are positioned like drawing.



| Model Number | A      |     | B      |     | C      |     | D      |     | E      |     | F     |     | G     |    | H     |     |
|--------------|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|-------|-----|-------|----|-------|-----|
|              | in.    | mm  | in.    | mm  | in.    | mm  | in.    | mm  | in.    | mm  | in.   | mm  | in.   | mm | in.   | mm  |
| EAC1P-24A    | 14-1/2 | 368 | 18-1/2 | 470 | 13     | 330 | 13-3/8 | 340 | 10-1/8 | 257 | 3-3/8 | 86  | 3     | 76 | 3-7/8 | 98  |
| EAC1P-24B    | 17-1/2 | 445 | 18-1/2 | 470 | 16     | 406 | 16-3/8 | 416 | 10     | 254 | 3-1/2 | 89  | 3     | 76 | 3-7/8 | 98  |
| EAC1P-30A    | 14-1/2 | 368 | 22-1/2 | 572 | 13     | 330 | 13-3/8 | 340 | 12     | 305 | 3-3/8 | 86  | 3     | 76 | 3-7/8 | 98  |
| EAC1P-30B    | 17-1/2 | 445 | 22-1/2 | 572 | 16     | 406 | 16-3/8 | 416 | 10-1/2 | 267 | 3-3/8 | 86  | 3     | 76 | 3-7/8 | 98  |
| EAC1P-48B    | 17-1/2 | 445 | 27-1/2 | 699 | 16     | 406 | 16-3/8 | 416 | 12-7/8 | 327 | 3-7/8 | 98  | 3     | 76 | 4     | 102 |
| EAC1P-48C    | 21     | 533 | 27-1/2 | 699 | 19-1/2 | 495 | 19-7/8 | 505 | 12-1/2 | 318 | 4-3/4 | 121 | 2-3/4 | 70 | 3-1/2 | 89  |
| EAC1P-50/60C | 21     | 533 | 27-1/2 | 699 | 19-1/2 | 495 | 19-7/8 | 505 | 12-1/2 | 318 | 4-3/4 | 121 | 2-3/4 | 70 | 3-1/2 | 89  |
| EAC1P-60D    | 24-1/2 | 622 | 29-1/2 | 749 | 23     | 584 | 23-3/8 | 594 | 15-1/8 | 384 | 4-1/2 | 121 | 1-5/8 | 41 | 2-5/8 | 67  |

EAC1P-49C and EAC1P-60C



| Model Number | A     |     | B      |     | C      |     | D     |    | E     |    |
|--------------|-------|-----|--------|-----|--------|-----|-------|----|-------|----|
|              | in.   | mm  | in.    | mm  | in.    | mm  | in.   | mm | in.   | mm |
| EAC1P-49C    | 4-3/4 | 121 | 12-1/8 | 308 | 29-1/2 | 749 | 3-3/8 | 86 | 2-1/2 | 64 |
| EAC1P-60C    | 4-3/4 | 121 | 14-1/2 | 368 | 31-1/2 | 800 | 3-3/8 | 86 | 2-1/2 | 64 |

## EVAPORATOR COILS

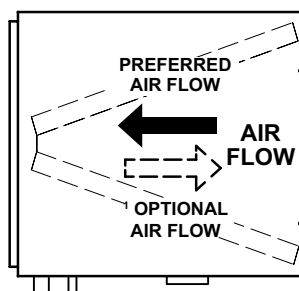
## EAH1P

| SPECIFICATIONS       |                        |           |           |           |           |           | 1.5 TO 3 TON |           |           |    |
|----------------------|------------------------|-----------|-----------|-----------|-----------|-----------|--------------|-----------|-----------|----|
| General Data         |                        | Model No. | EAH1P-18A | EAH1P-24A | EAH1P-24B | EAH1P-30A | EAH1P-30B    | EAH1P-36A | EAH1P-36B |    |
| Nominal size - Tons  |                        |           | 1.5       | 2         | 2         | 2.5       | 2.5          | 3         | 3         |    |
| Line connections in. | Suction o.d. - sweat   |           | 3/4       | 3/4       | 3/4       | 3/4       | 3/4          | 3/4       | 3/4       |    |
|                      | Liquid o.d. - sweat    |           | 3/8       | 3/8       | 3/8       | 3/8       | 3/8          | 3/8       | 3/8       |    |
|                      | Condensate drain (fpt) |           | (2) 3/4   | (2) 3/4   | (2) 3/4   | (2) 3/4   | (2) 3/4      | (2) 3/4   | (2) 3/4   |    |
| Shipping Data - lbs. |                        |           |           | 43        | 45        | 49        | 55           | 53        | 47        | 48 |

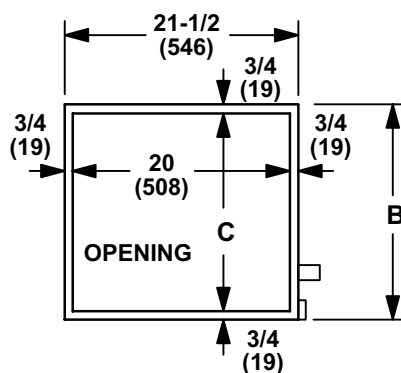
| SPECIFICATIONS       |                        | 3 TO 5 TON |           |           |           |           |           |           |           |
|----------------------|------------------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| General Data         |                        | Model No.  | EAH1P-36C | EAH1P-42B | EAH1P-42C | EAH1P-48B | EAH1P-48C | EAH1P-51C | EAH1P-60D |
| Nominal size - Tons  |                        |            | 3         | 3.5       | 3.5       | 3.5/4     | 3.5/4     | 4         | 5         |
| Line connections in. | Suction o.d. - sweat   |            | 3/4       | 7/8       | 7/8       | 7/8       | 7/8       | 7/8       | 7/8       |
|                      | Liquid o.d. - sweat    |            | 3/8       | 3/8       | 3/8       | 3/8       | 3/8       | 3/8       | 3/8       |
|                      | Condensate drain (fpt) |            | (2) 3/4   | (2) 3/4   | (2) 3/4   | (2) 3/4   | (2) 3/4   | (2) 3/4   | (2) 3/4   |
| Shipping Data - lbs. |                        |            | 55        | 66        | 60        | 60        | 59        | 69        | 78        |

## EH1P-18 Through EH1P-60

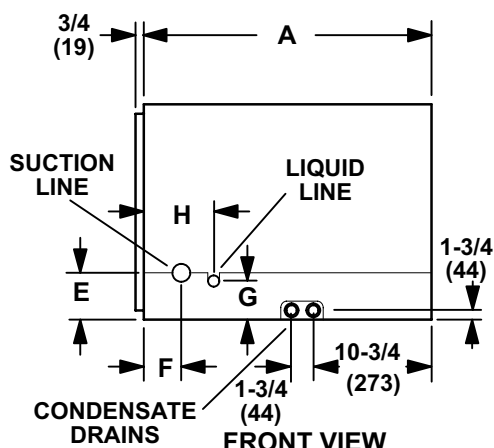
<sup>1</sup> Optional right-hand airflow requires a field fabricated 6 in. (152 mm) spacer in-between the furnace and coil.



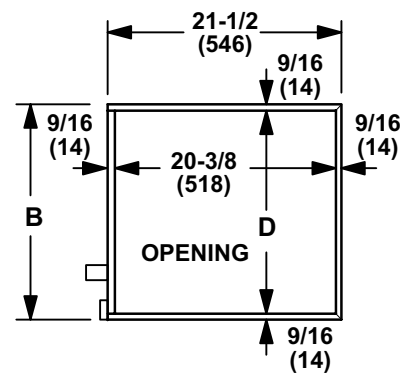
TOP VIEW



END VIEW



FRONT VIEW



END VIEW

| Model No. | A      |     | B      |     | C      |     | D      |     | E   |     | F     |    | G   |    | H     |     |
|-----------|--------|-----|--------|-----|--------|-----|--------|-----|-----|-----|-------|----|-----|----|-------|-----|
|           | in.    | mm  | in.    | mm  | in.    | mm  | in.    | mm  | in. | mm  | in.   | mm | in. | mm | in.   | mm  |
| EAH1P-18A | 26-1/2 | 673 | 14-1/2 | 368 | 13     | 330 | 13-3/8 | 340 | 4   | 102 | 2-1/8 | 54 | 3   | 76 | 4-7/8 | 124 |
| EAH1P-24A | 26-1/2 | 673 | 14-1/2 | 368 | 13     | 330 | 13-3/8 | 340 | 4   | 102 | 2-1/8 | 54 | 3   | 76 | 4-7/8 | 124 |
| EAH1P-24B | 26-1/2 | 673 | 17-1/2 | 444 | 16     | 406 | 16-3/8 | 416 | 4   | 102 | 2-1/8 | 54 | 3   | 76 | 4-7/8 | 124 |
| EAH1P-30A | 31-1/2 | 800 | 14-1/2 | 368 | 13     | 330 | 13-3/8 | 340 | 4   | 102 | 2-1/8 | 54 | 3   | 76 | 4-7/8 | 124 |
| EAH1P-30B | 26-1/2 | 673 | 17-1/2 | 444 | 16     | 406 | 16-3/8 | 416 | 4   | 102 | 2-1/8 | 54 | 3   | 76 | 4-7/8 | 124 |
| EAH1P-36A | 26-1/2 | 673 | 14-1/2 | 368 | 13     | 330 | 13-3/8 | 340 | 4   | 102 | 2-1/8 | 54 | 3   | 76 | 4-7/8 | 124 |
| EAH1P-36B | 26-1/2 | 673 | 17-1/2 | 444 | 16     | 406 | 16-3/8 | 416 | 4   | 102 | 2-1/8 | 54 | 3   | 76 | 4-7/8 | 124 |
| EAH1P-36C | 26-1/2 | 673 | 21     | 533 | 19-1/2 | 495 | 19-7/8 | 505 | 4   | 102 | 2-1/8 | 54 | 3   | 76 | 4-7/8 | 124 |
| EAH1P-42B | 31-1/2 | 800 | 17-1/2 | 444 | 16     | 406 | 16-3/8 | 416 | 4   | 102 | 2-1/8 | 54 | 3   | 76 | 4-7/8 | 124 |
| EAH1P-42C | 26-1/2 | 673 | 21     | 533 | 19-1/2 | 495 | 19-7/8 | 505 | 4   | 102 | 2-1/8 | 54 | 3   | 76 | 4-7/8 | 124 |
| EAH1P-48B | 31-1/2 | 800 | 17-1/2 | 444 | 16     | 406 | 16-3/8 | 416 | 4   | 102 | 2-1/8 | 54 | 3   | 76 | 4-7/8 | 124 |
| EAH1P-48C | 26-1/2 | 673 | 21     | 533 | 19-1/2 | 495 | 19-7/8 | 505 | 4   | 102 | 2-1/8 | 54 | 3   | 76 | 4-7/8 | 124 |
| EAH1P-51C | 31-1/2 | 800 | 21     | 533 | 19-1/2 | 495 | 19-7/8 | 505 | 4   | 102 | 2-1/8 | 54 | 3   | 76 | 4-7/8 | 124 |
| EAH1P-60D | 31-1/2 | 800 | 24-1/2 | 622 | 23     | 584 | 23-3/8 | 594 | 4   | 102 | 2-1/8 | 54 | 3   | 76 | 4-7/8 | 124 |

## EVAPORATOR COILS

## EAC4X

| SPECIFICATIONS       |                              |              |              |           | 1.5 TO 2 TON |
|----------------------|------------------------------|--------------|--------------|-----------|--------------|
| General Data         | Model No.                    | EAC4X-18/24A | EAC4X-18/24B | EAC4X-24A | EAC4X-24B    |
|                      | Nominal size - Tons          | 1.5 / 2      | 1.5 / 2      | 2         | 2            |
| Line Connections in. | Suction / vapor o.d. - sweat | 3/4          | 3/4          | 3/4       | 3/4          |
|                      | Liquid o.d. - sweat          | 3/8          | 3/8          | 3/8       | 3/8          |
|                      | Condensate drain (fpt)       | (2) 3/4      | (2) 3/4      | (2) 3/4   | (2) 3/4      |
| Shipping Data - lbs. |                              | 30           | 34           | 38        | 43           |

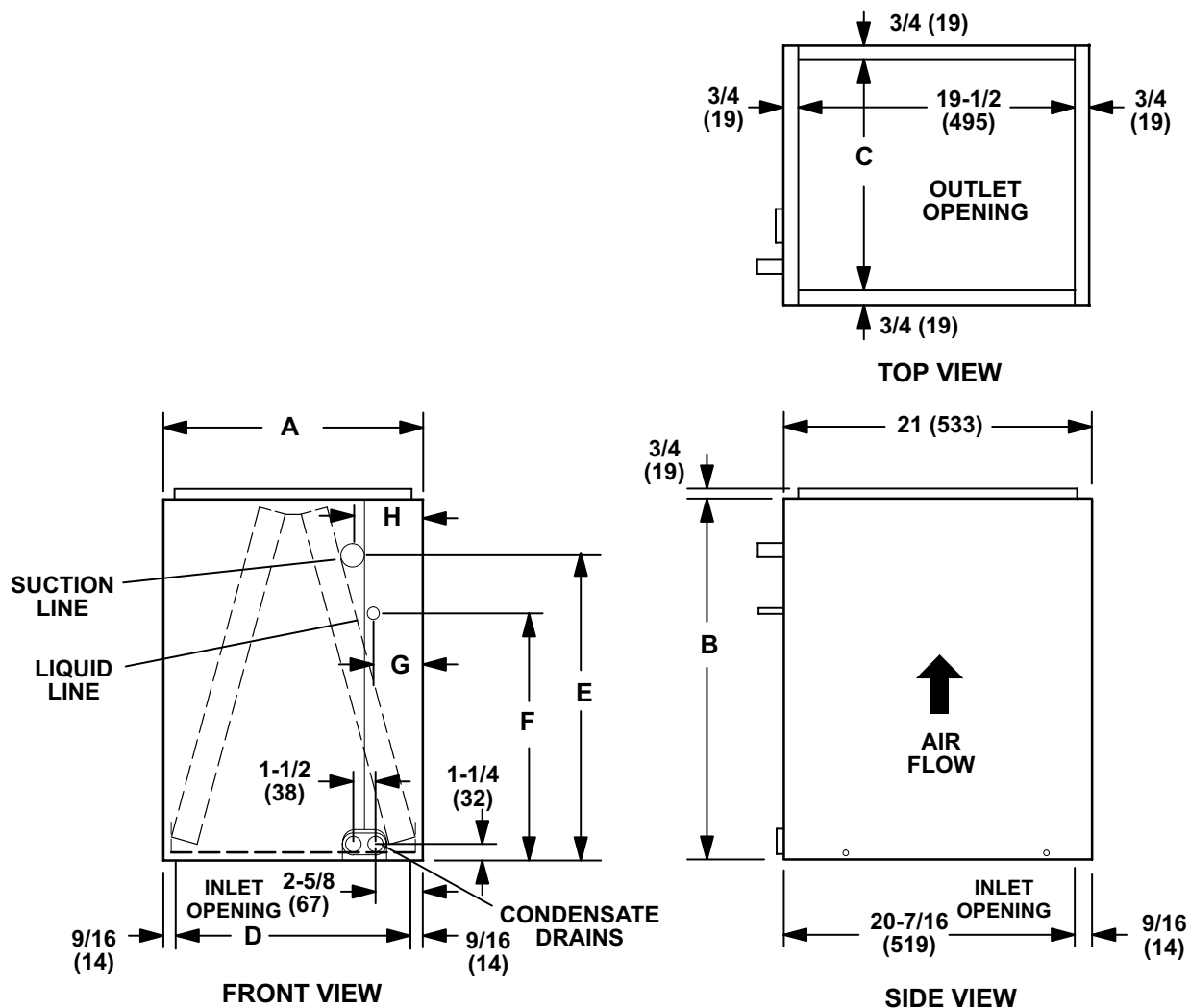
| SPECIFICATIONS       |                              |           |           |              | 2.5 TO 3 TON |
|----------------------|------------------------------|-----------|-----------|--------------|--------------|
| General Data         | Model No.                    | EAC4X-30A | EAC4X-30B | EAC4X-30/36A | EAC4X-30/36B |
|                      | Nominal size - Tons          | 2.5       | 2.5       | 2.5 / 3      | 2.5 / 3      |
| Line Connections in. | Suction / vapor o.d. - sweat | 3/4       | 3/4       | 3/4          | 3/4          |
|                      | Liquid o.d. - sweat          | 3/8       | 3/8       | 3/8          | 3/8          |
|                      | Condensate drain (fpt)       | (2) 3/4   | (2) 3/4   | (2) 3/4      | (2) 3/4      |
| Shipping Data - lbs. |                              | 45        | 50        | 41           | 45           |

| SPECIFICATIONS       |                              |           |              | 2.5 TO 4 TON |           |           |           |
|----------------------|------------------------------|-----------|--------------|--------------|-----------|-----------|-----------|
| General Data         |                              | Model No. | EAC4X-30/36C | EAC4X-36A    | EAC4X-36B | EAC4X-48B | EAC4X-48C |
| Nominal size - Tons  |                              | 2.5 / 3   | 3            | 3            | 3.5 / 4   | 3.5 / 4   |           |
| Line Connections in. | Suction / vapor o.d. - sweat | 3/4       | 3/4          | 3/4          | 7/8       | 7/8       |           |
|                      | Liquid o.d. - sweat          | 3/8       | 3/8          | 3/8          | 3/8       | 3/8       |           |
|                      | Condensate drain (fpt)       | (2) 3/4   | (2) 3/4      | (2) 3/4      | (2) 3/4   | (2) 3/4   |           |
| Shipping Data - lbs. |                              | 48        | 46           | 50           | 55        | 60        |           |

| SPECIFICATIONS       |                              |           |              |           | 4 TO 5 TON |
|----------------------|------------------------------|-----------|--------------|-----------|------------|
| General Data         | Model No.                    | EAC4X-49C | EAC4X-50/60C | EAC4X-60C | EAC4X-60D  |
|                      | Nominal size - Tons          | 4         | 4 / 5        | 5         | 5          |
| Line Connections in. | Suction / vapor o.d. - sweat | 7/8       | 7/8          | 7/8       | 7/8        |
|                      | Liquid o.d. - sweat          | 3/8       | 3/8          | 3/8       | 3/8        |
|                      | Condensate drain (fpt)       | (2) 3/4   | (2) 3/4      | (2) 3/4   | (2) 3/4    |
| Shipping Data - lbs. |                              | 70        | 60           | 73        | 72         |



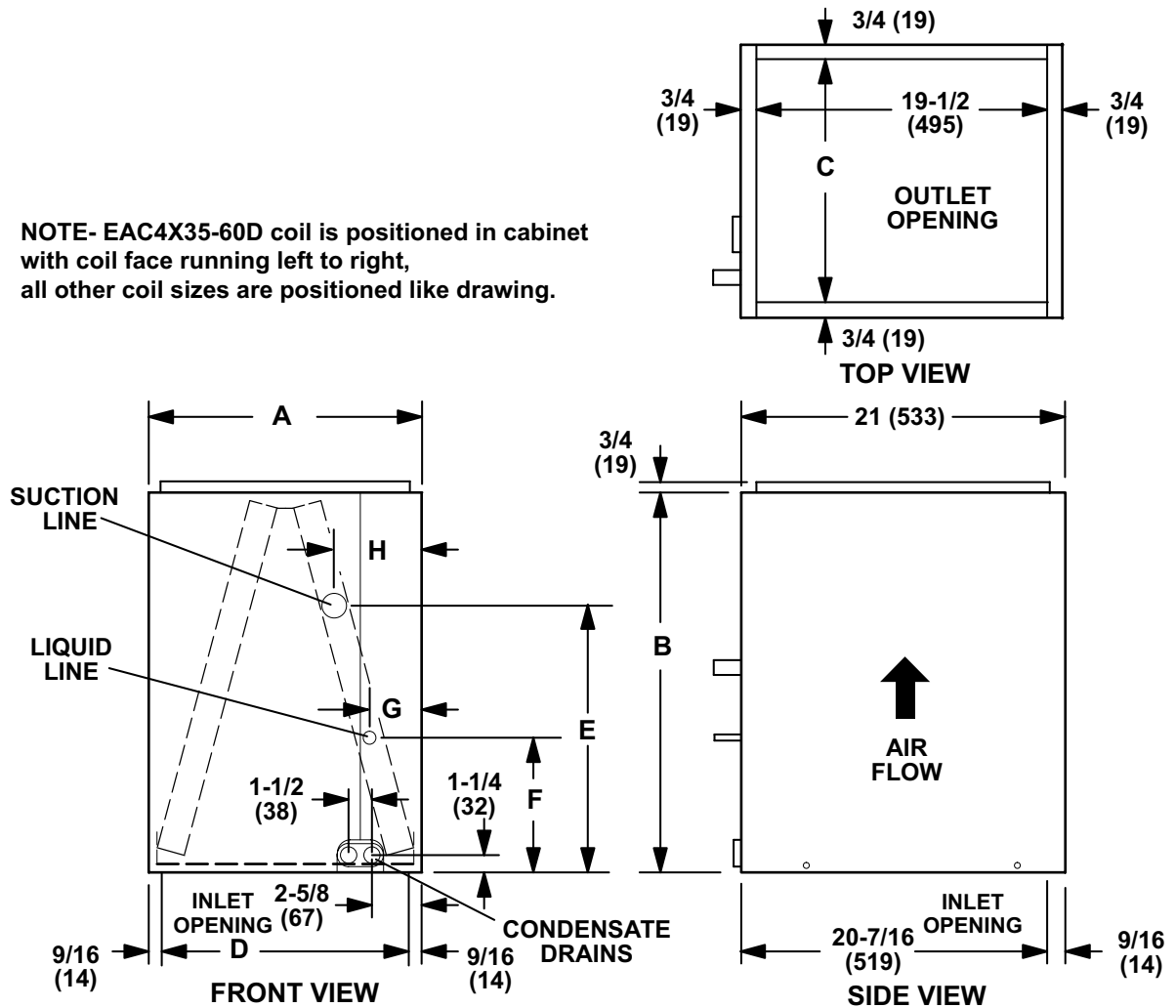
### EAC4X-18/24(A/B), -30/36(A/B/C) and -36(A/B) Coils



| Model Number | A      |     | B      |     | C      |     | D      |     | E      |     | F     |     | G     |    | H     |     |
|--------------|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|-------|-----|-------|----|-------|-----|
|              | in.    | mm  | in.    | mm  | in.    | mm  | in.    | mm  | in.    | mm  | in.   | mm  | in.   | mm | in.   | mm  |
| EAC4X-18/24A | 14-1/2 | 368 | 16-1/2 | 419 | 13     | 330 | 13-3/8 | 340 | 7-3/8  | 187 | 3-1/2 | 89  | 3     | 76 | 3-7/8 | 98  |
| EAC4X-18/24B | 17-1/2 | 445 | 16-1/2 | 419 | 16     | 406 | 16-3/8 | 416 | 7      | 178 | 3-1/2 | 89  | 3     | 76 | 3-7/8 | 98  |
| EAC4X-30/36A | 14-1/2 | 368 | 24-1/2 | 622 | 13     | 330 | 13-3/8 | 340 | 14-1/4 | 362 | 4-3/4 | 121 | 3     | 76 | 3-7/8 | 98  |
| EAC4X-30/36B | 17-1/2 | 445 | 24-1/2 | 622 | 16     | 406 | 16-3/8 | 416 | 13-3/8 | 340 | 4-3/4 | 121 | 3     | 76 | 4-1/8 | 108 |
| EAC4X-30/36C | 21     | 533 | 24-1/2 | 622 | 19-1/2 | 495 | 19-7/8 | 505 | 14-3/8 | 365 | 4-3/4 | 121 | 3     | 76 | 3-5/8 | 92  |
| EAC4X-36A    | 14-1/2 | 368 | 24-1/2 | 622 | 13     | 330 | 13-3/8 | 340 | 13-1/2 | 343 | 4-3/4 | 121 | 2     | 52 | 3-1/4 | 83  |
| EAC4X-36B    | 17-1/2 | 445 | 24-1/2 | 622 | 16     | 406 | 16-3/8 | 416 | 13-3/4 | 350 | 4-3/4 | 121 | 2-5/8 | 67 | 3-7/8 | 98  |

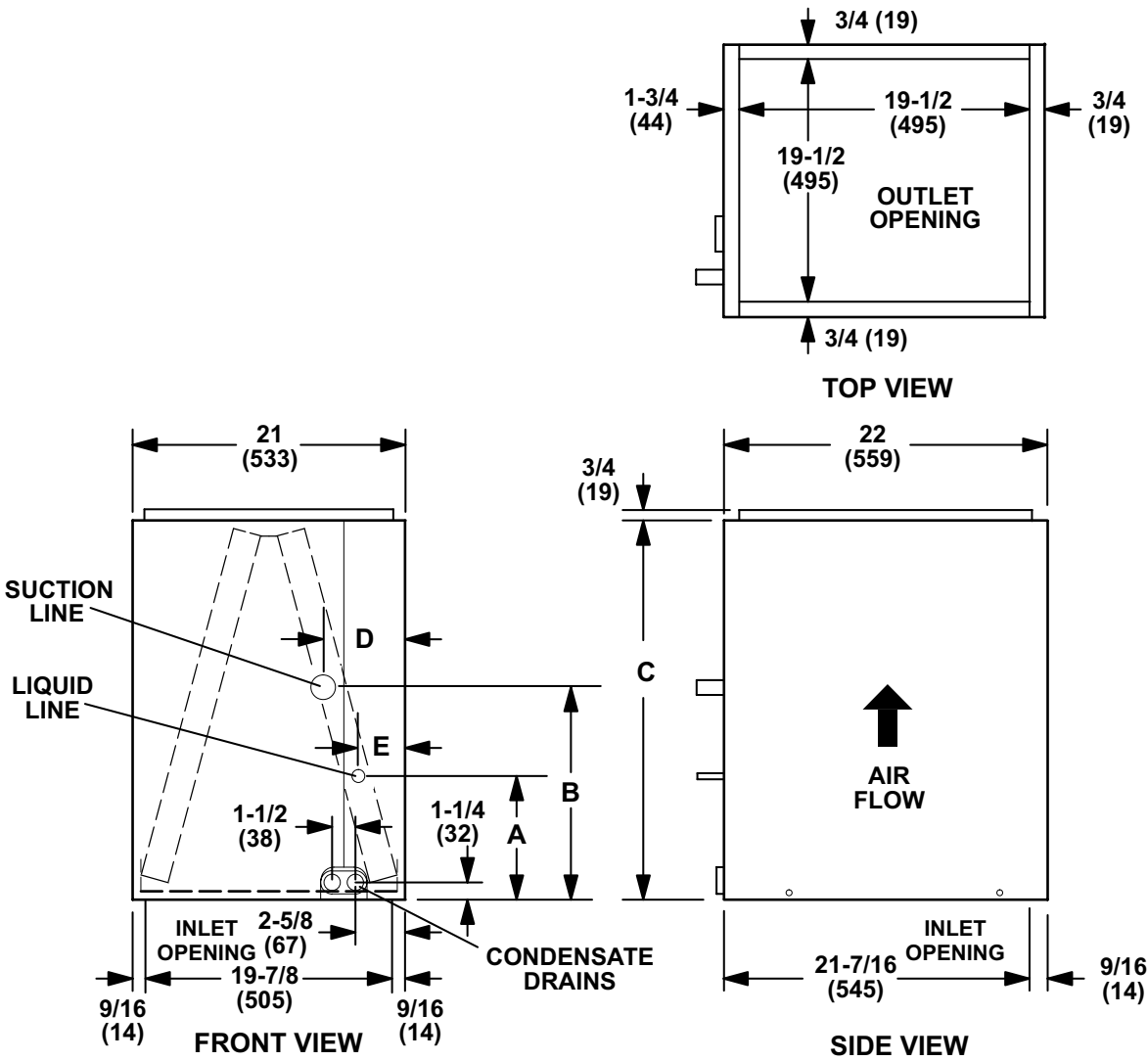
### EAC4X-24(A/B), -30(A/B), -48(B/C), -50/60C and -60D Coils

NOTE- EAC4X35-60D coil is positioned in cabinet with coil face running left to right, all other coil sizes are positioned like drawing.



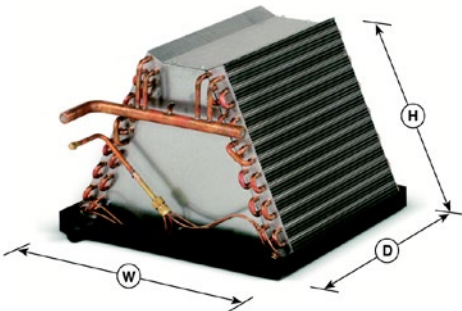
| Model Number | A      |     | B      |     | C      |     | D      |     | E      |     | F     |     | G     |    | H     |     |
|--------------|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|-------|-----|-------|----|-------|-----|
|              | in.    | mm  | in.    | mm  | in.    | mm  | in.    | mm  | in.    | mm  | in.   | mm  | in.   | mm | in.   | mm  |
| EAC4X-24A    | 14-1/2 | 368 | 18-1/2 | 470 | 13     | 330 | 13-3/8 | 340 | 10-1/8 | 257 | 3-3/8 | 86  | 3     | 76 | 3-7/8 | 98  |
| EAC4X-24B    | 17-1/2 | 445 | 18-1/2 | 470 | 16     | 406 | 16-3/8 | 416 | 10     | 254 | 3-1/2 | 89  | 3     | 76 | 3-7/8 | 98  |
| EAC4X-30A    | 14-1/2 | 368 | 22-1/2 | 572 | 13     | 330 | 13-3/8 | 340 | 12     | 305 | 3-3/8 | 86  | 3     | 76 | 3-7/8 | 98  |
| EAC4X-30B    | 17-1/2 | 445 | 22-1/2 | 572 | 16     | 406 | 16-3/8 | 416 | 10-1/2 | 267 | 3-3/8 | 86  | 3     | 76 | 3-7/8 | 98  |
| EAC4X-48B    | 17-1/2 | 445 | 27-1/2 | 699 | 16     | 406 | 16-3/8 | 416 | 12-7/8 | 327 | 3-7/8 | 98  | 3     | 76 | 4     | 102 |
| EAC4X-48C    | 21     | 533 | 27-1/2 | 699 | 19-1/2 | 495 | 19-7/8 | 505 | 12-1/2 | 318 | 4-3/4 | 121 | 2-3/4 | 70 | 3-1/2 | 89  |
| EAC4X-50/60C | 21     | 533 | 27-1/2 | 699 | 19-1/2 | 495 | 19-7/8 | 505 | 12-1/2 | 318 | 4-3/4 | 121 | 2-3/4 | 70 | 3-1/2 | 89  |
| EAC4X-60D    | 24-1/2 | 622 | 29-1/2 | 749 | 23     | 584 | 23-3/8 | 594 | 15-1/8 | 384 | 4-1/2 | 121 | 1-5/8 | 41 | 2-5/8 | 67  |

EAC4X-49C and EAC4X-60C



| Model Number | A     |     | B      |     | C      |     | D     |    | E     |    |
|--------------|-------|-----|--------|-----|--------|-----|-------|----|-------|----|
|              | in.   | mm  | in.    | mm  | in.    | mm  | in.   | mm | in.   | mm |
| EAC4X-49C    | 4-3/4 | 121 | 12-1/8 | 308 | 29-1/2 | 749 | 3-3/8 | 86 | 2-1/2 | 64 |
| EAC4X-60C    | 4-3/4 | 121 | 14-1/2 | 368 | 31-1/2 | 800 | 3-3/8 | 86 | 2-1/2 | 64 |

|  | PRODUCT DIMENSIONS & SPECIFICATIONS                   |  |
|-----------------------------------------------------------------------------------|-------------------------------------------------------|--|
|                                                                                   | DX-TREME CA SERIES<br>UNCASED UPFLOW / DOWNFLOW COILS |  |



Representative drawing only. Some models may vary in appearance.

**STANDARD SPECIFICATIONS**

- Rifled copper tubing, enhanced aluminum fins.
- Immersion-tested at 500 psi, then nitrogen-pressurized and sealed.
- Left- or right-hand refrigerant and plumbing connections.
- Liquid line - 3/8" ODS, suction line - 7/8" ODS.
- Externally mounted flowrater body with Schrader valve for hiss-testing.
- Heavy duty polypropylene drain pans on most models.
- Upflow without field modification. Downflow applications require plate kit, included.
- ARI certifiable with all brands of A/C and heat pump systems.
- ETL listed for use with both R-22 and R-410a when proper metering device is used.
- Ten-year limited warranty.

**AVAILABLE OPTIONS:**

- Factory or field-installable TXV.
- Powder painted stainless steel drain pan.
- Schrader mounted on suction manifold, external to cabinet.

| COIL MODEL | FLOW RATER SIZE |       | DIMENSIONS                 |    |            |        |               |                      | SHIPPING INFORMATION |       |       |          |
|------------|-----------------|-------|----------------------------|----|------------|--------|---------------|----------------------|----------------------|-------|-------|----------|
|            |                 |       | PAN WIDTHS (W)             |    |            |        | PAN DEPTH (D) | BARE SLAB HEIGHT (H) | SHIPPING WEIGHT      |       |       | SKID QTY |
|            |                 |       | 13                         | 16 | 19-1/2     | 23     |               |                      | 2 ROW                | 3 ROW | 4 ROW |          |
|            | R22             | R410a |                            |    |            |        |               |                      |                      |       |       |          |
| CA24A*     | 0.059           | 0.055 | 13                         | 16 | 19-1/2     |        | 19-3/8        | 12                   | 17                   | 27    | 35    | 30       |
| CA24B*     | 0.059           | 0.055 | 13                         | 16 | 19-1/2     |        | 19-3/8        | 14                   | 20                   | 31    | 41    | 25       |
| CA24C*     | 0.059           | 0.055 | 13                         | 16 | 19-1/2     |        | 19-3/8        | 16                   | 23                   | 36    | 47    | 25       |
| CA24D*     | 0.059           | 0.055 | 13                         | 16 | 19-1/2     |        | 19-3/8        | 18                   | 25                   | 40    | 53    | 20       |
| CA30A*     | 0.068           | 0.059 | 13                         | 16 | 19-1/2     |        | 19-3/8        | 14                   | 20                   | 31    | 41    | 25       |
| CA30B*     | 0.068           | 0.059 | 13                         | 16 | 19-1/2     |        | 19-3/8        | 16                   | 23                   | 36    | 47    | 25       |
| CA30C*     | 0.068           | 0.059 | 13                         | 16 | 19-1/2     |        | 19-3/8        | 18                   | 25                   | 40    | 53    | 20       |
| CA30D*     | 0.068           | 0.059 | 13                         | 16 | 19-1/2     |        | 19-3/8        | 20                   | 28                   | 45    | 58    | 16       |
| CA30E*     | 0.068           | 0.059 | 13                         | 16 | 19-1/2     |        | 19-3/8        | 20                   | 30                   | 47    | 60    | 16       |
| CA36A*     | 0.074           | 0.068 | 13 for 2, 3R;<br>16 for 4R | 16 | 19-1/2     |        | 19-3/8        | 16                   | 23                   | 36    | 47    | 25       |
| CA36B*     | 0.074           | 0.068 | 13 for 2, 3R;<br>16 for 4R | 16 | 19-1/2     |        | 19-3/8        | 18                   | 25                   | 40    | 53    | 20       |
| CA36C*     | 0.074           | 0.068 | 13 for 2, 3R;<br>16 for 4R | 16 | 19-1/2     |        | 19-3/8        | 20                   | 28                   | 45    | 58    | 16       |
| CA36D*     | 0.074           | 0.068 | 13 for 2, 3R;<br>16 for 4R | 16 | 19-1/2     |        | 19-3/8        | 22                   | 31                   | 49    | 64    | 12       |
| CA42A*     | 0.080           | 0.074 |                            | 16 | 19-1/2     | 23     | 19-3/8        | 18                   | 25                   | 40    | 53    | 20       |
| CA42B*     | 0.080           | 0.074 |                            | 16 | 19-1/2     | 23     | 19-3/8        | 20                   | 28                   | 45    | 58    | 16       |
| CA42C*     | 0.080           | 0.074 |                            | 16 | 19-1/2     | 23     | 19-3/8        | 22                   | 31                   | 49    | 64    | 12       |
| CA42D*     | 0.080           | 0.074 |                            | 16 | 19-1/2     | 23     | 19-3/8        | 24                   | 34                   | 54    | 70    | 12       |
| CA48A*     | 0.084           | 0.080 |                            | 16 | 19-1/2     | 23     | 19-3/8        | 20                   | 28                   | 45    | 58    | 16       |
| CA48B*     | 0.084           | 0.080 |                            | 16 | 19-1/2     | 23     | 19-3/8        | 22                   | 31                   | 49    | 64    | 12       |
| CA48C*     | 0.084           | 0.080 |                            | 16 | 19-1/2     | 23     | 19-3/8        | 24                   | 34                   | 54    | 70    | 12       |
| CA48D*     | 0.084           | 0.080 |                            | 16 | 19-1/2     | 23     | 19-3/8        | 26                   | 37                   | 58    | 76    | 12       |
| CA48F*     | 0.084           | 0.080 |                            | 16 | 19-1/2     | 23     | 19-3/8        | 24                   | 36                   | 56    | 72    | 12       |
| CA48G*     | 0.084           | 0.080 |                            | 16 | 19-1/2     | 23     | 19-3/8        | 26                   | 39                   | 60    | 78    | 12       |
| CA60A*     | 0.092           | 0.089 |                            |    | 19-1/2     | 23     | 19-3/8        | 24                   | 34                   | 54    | 70    | 12       |
| CA60B*     | 0.092           | 0.089 |                            |    | 19-1/2     | 23     | 19-3/8        | 26                   | 37                   | 58    | 76    | 12       |
| CA60C*     | 0.092           | 0.089 |                            |    | 19-1/2 [2] | 23 [2] | 21-3/4        | 24                   | 38                   | 60    | 79    | 12       |
| CA60D*     | 0.092           | 0.089 |                            |    | 19-1/2 [2] | 23 [2] | 21-3/4        | 26                   | 41                   | 65    | 86    | 12       |
| CA60E*     | 0.092           | 0.089 |                            |    |            | 24 [3] | 21            | 26                   | 46                   | 73    | 95    | 12       |
| CA60F*     | 0.092           | 0.089 |                            |    | 19-1/2     | 23     | 19-3/8        | 24                   | 41                   | 62    | 80    | 12       |
| CA60G*     | 0.092           | 0.089 |                            |    |            | 24 [3] | 21            | 26                   | 48                   | 75    | 97    | 12       |

Notes: 1) Do not use heavy duty polypropylene drain pans on oil furnaces or other applications where outlet temperatures may exceed 300°F. Specify metal drain pans for these applications. 2) Metal drain pan. 3) Metal drain pan. Slab rotated 90°. Refrigerant and plumbing connections still exit in front.

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