



# Product Data

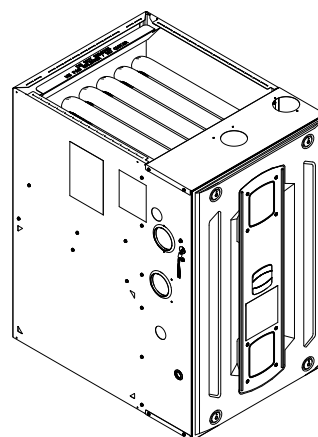
## Upflow/ Horizontal Left/Right, Dedicated Downflow Two Stage Condensing Gas Fired Furnace

### Upflow, Convertible to Horizontal Right or Horizontal Left

S9X2B040U3PSBA  
S9X2B060U4PSBA  
S9X2B080U4PSBA  
S9X2C080U5PSBA  
S9X2C100U5PSBA  
S9X2D120U5PSBA

### Downflow Only

S9X2B040D3PSBA  
S9X2B060D3PSBA  
S9X2B080D4PSBA  
S9X2C100D5PSBA  
S9X2D120D5PSBA



**Note:** Graphics in this document are for representation only. Actual model may differ in appearance.

### CAUTION

#### COIL REQUIREMENT!

Failure to follow this Caution could result in property damage or personal injury. 4GXC\* and 4MXC\* coils installed on upflow furnaces in vertical, horizontal left, or horizontal right orientations without a factory installed metal drain pan shield must use a MAY\*FERCOLKITAA kit. Coils installed on upflow furnaces must have drain pans that are suitable for 400° F (205°C) or have a metal drain pan shield. Downflow furnaces do not require a metal drain pan shield or the use of the MAY\*FERCOLKITAA kit. See Installer's Guide for more information.



# General Features

## NATURAL GAS MODELS

Central Heating furnace designs are certified by the American Gas Association for both natural and L.P. gas. Limit setting and rating data were established and approved under standard rating conditions using American National Standards Institute standards.

## SAFE OPERATION

The Integrated System Control is a solid state device which continuously monitors for presence of flame when the system is in the heating mode of operation. Dual solenoid combination gas valve and regulator provide additional safety.

## QUICK HEATING

Durable, cycle tested, heavy gauge **tubular stainless steel primary heat exchanger** quickly transfers heat to provide warm conditioned air to the structure. **Low energy power vent blower**, to increase efficiency and provide a positive discharge of gas fumes to the outside.

## BURNERS

Multiport Inshot burners will give years of quiet and efficient service. All models can be converted to **L.P. gas** with LP conversion kit.

## INTEGRATED SYSTEM CONTROL

Exclusively designed operational program provides total control of furnace limit sensors, blowers, gas valve, flame control and includes self diagnostics for ease of service. Also contains dry contacts for EAC and HUM.

## ENERGY EFFICIENT OPERATION

Furnace is certified by the manufacturer to leak 1% or less of nominal air conditioning CFM delivered when pressurized to .5" water column with all inlets, outlets, and drains sealed.

## AIR DELIVERY

The 9 speed blower motor has sufficient airflow for most heating and cooling requirements and will switch from heating to cooling speeds on demand from room thermostat.

## SECONDARY HEAT EXCHANGER

The S-Series furnace has a special type 29- 4C™ stainless steel secondary heat exchanger to reclaim heat from flue gases which would normally be lost.

## STYLING

**Heavy gauge steel and "wrap-around" cabinet construction** is used in the cabinet with baked-on enamel finish for strength and beauty. Every orientation has at least two venting options. There are no knockouts on cabinet.

## FEATURES AND GENERAL OPERATION

The S-Series furnace utilizes a Silicon Nitride Hot Surface Ignition system, which eliminates the waste of a constant burning pilot. The integrated system control lights the main burners upon a demand for heat from the room thermostat. Complete front service access.

- a. Low energy power venter
- b. Vent proving pressure switches.



## Features and Benefits

### **UP TO 96.0% AFUE ON S9X2 FURNACE MODELS**

Meets utility rebates

Lowers utility bills

### **ELECTRICALLY EFFICIENT**

Efficient airflow design reduces electrical energy use

### **34 INCH TALL**

Lighter, easier to move and fit into tight spaces like short basements or tight closets

Works great with larger, high-efficiency coils

No knockouts

### **3-WAY MULTI-POISE / DEDICATED DOWNFLOW**

6 SKU's — Upflow / Horizontal Left / Horizontal Right

5 SKU's — Downflow

Added application flexibility and reduction in specification errors

### **AIRFLOW**

At least 400 CFM/ton at 0.5 in. H<sub>2</sub>O external static pressure

### **REGULATORY**

All models are air tight; 1% or less air leakage as per ASHRAE 193

Open vestibule design provides a full 34" high open vestibule

### **DIMENSIONS**

Widths are industry standard: 17.5", 21", and 24.5"

Depth remains approximately 28"

Cabinet will be compatible with industry standard coils, as well as, other accessories

### **INTEGRATED FURNACE CONTROL**

Setup / Status / Diagnostics / Digital Display

No dip switches

Last six errors stored

Dry contact EAC and HUM connections

All Molex connections; no spade terminals

Low voltage labeled above and below

Rain shield over IFC keeps condensate off the control

### **TUBULAR STAINLESS STEEL PRIMARY HEAT EXCHANGER**

### **29-4C STAINLESS STEEL SECONDARY HEAT EXCHANGER**

Stainless steel is a more durable, corrosive-resistant material than aluminumized steel

Integrated rail system for easy access if required

Reduces or eliminates need for baffles

### **VORTICA II BLOWER, DESIGNED EXCLUSIVELY FOR THE S-SERIES FURNACE**

Improved airflow efficiency

Durable, easy to clean, two piece housing

Single piece belly band/ motor arm assembly

Blower deck has full-length rails for easy removal and replacement, regardless of poise

### **THREE-WAY MULTI-POISE (UPFLOW, HORIZONTAL LEFT AND RIGHT) PLUS DEDICATED DOWNFLOW**



## Features and Benefits

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Easier to specify

Shipped ready to install (no conversion kits required)

Every model has at least two venting options

When in horizontal, trap extends only about 2"

Barbed fitting on trap at hose connection and on cabinet transition for hose has barbed fitting and clamps at both ends for leak resistance.

Vent table improvements including longer vent lengths; 2" pipe can be used up to 100K



# Accessories

**Table 1. Accessories**

| Model Number               | Description                                                          | Use with                                                                            |
|----------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| MAYBFERCOLKITA             | Heat Shield Kit for B-width 4GXCB or 4MCXB Coils                     | B width 4GXCB or 4MCXB Coils when installed with Upflow Furnace in all orientations |
| MAYCFERCOLKITA             | Heat Shield Kit for C-width 4GXCC or 4MCXC Coils                     | C-width 4GXCC or 4MCXC Coils when installed with Upflow Furnace in all orientations |
| MAYDFERCOLKITA             | Heat Shield Kit for D-width 4GXCD or 4MCXD Coils                     | D width 4GXCD or 4MCXD Coils when installed with Upflow Furnace in all orientations |
| BAYHANG                    | Horizontal Hanging Kit                                               | All Upflow Furnaces                                                                 |
| BAYVENT200B                | Sidewall Vent Termination Kit                                        | All Furnaces                                                                        |
| BAYVENTCN200B              | Sidewall Vent Termination Kit (Canada —CPVC)                         | All Furnaces                                                                        |
| BAYAIR30AVENTA             | Concentric Vent Kit                                                  | All Furnaces                                                                        |
| BAYAIR30CNVENT             | Concentric Vent Kit (Canada — CPVC)                                  | All Furnaces                                                                        |
| BAYREDUCE                  | Reducing Coupling (CPVC)                                             | All Furnaces                                                                        |
| BAYLIFTB                   | Dual Return Kit (B size extension)                                   | B Cabinet Upflow Furnaces                                                           |
| BAYLIFTC                   | Dual Return Kit (C size extension)                                   | C Cabinet Upflow Furnaces                                                           |
| BAYLIFTD                   | Dual Return Kit (D size extension)                                   | D Cabinet Upflow Furnaces                                                           |
| BAYBASE205                 | Downflow Subbase                                                     | All Downflow Furnaces                                                               |
| BAYFLTR206                 | Filter Access Door Kit (Downflow only)                               | All Downflow Furnaces                                                               |
| BAYSF1165AA <sup>(a)</sup> | 1" SlimFit Box with MERV 4 Filter                                    | All Upflow Furnaces                                                                 |
| BAYSF1255BA                | 1" SlimFit Filter and Insulated Frame                                | All Furnaces <sup>(b)</sup>                                                         |
| FLRSF1255                  | 1" Filter replacement (Qty 12)                                       | BAYSF1255BA                                                                         |
| BAYLPSS400*                | Propane Conversion Kit with Stainless Steel Burners                  | All Furnaces                                                                        |
| BAYBURNERSS                | All Stainless Steel Natural Gas Burners - Set of Six                 | All Upflow Furnaces - Special Case                                                  |
| BAYMFGH200B                | Manufactured/Mobile Housing Kit                                      | All Furnaces                                                                        |
| BAYCNDTRAP2A               | Inline Condensate Trap Kit used with Special Venting on 2" Vent Pipe | All Furnaces                                                                        |
| BAYCNDTRAP3A               | Inline Condensate Trap Kit used with Special Venting on 3" Vent Pipe | All Furnaces                                                                        |

<sup>(a)</sup> Airflow greater than 1600 CFM requires dual returns

<sup>(b)</sup> Designed to fit all S-Series furnaces with or without transition when used in side return. Fits B width cabinet without a transition in upflow/downflow applications.



# Product Specifications

| MODEL                                  | S9X2B040U3PSBA (a)        | S9X2B060U4PSBA (a)        | S9X2B080U4PSBA (a)        | S9X2C080U5PSBA (a)        |
|----------------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| TYPE                                   | Upflow/Horizontal         | Upflow/Horizontal         | Upflow/Horizontal         | Upflow/Horizontal         |
| RATINGS (b)                            |                           |                           |                           |                           |
| 1st Stage Input BTUH (ICS)             | 26,000                    | 39,000                    | 52,000                    | 52,000                    |
| 1st Stage Capacity BTUH                | 25,220                    | 37,830                    | 50,440                    | 50,440                    |
| 2nd Stage Input BTUH                   | 40,000                    | 60,000                    | 80,000                    | 80,000                    |
| 2nd Stage Capacity BTUH (ICS) (c) (d)  | 39,000                    | 58,300                    | 77,200                    | 77,800                    |
| 1st Stage Temp. Rise (Min.-Max.)       | 25 - 55                   | 25 - 55                   | 30 - 60                   | 30 - 60                   |
| 2nd Stage Temp. Rise (Min.-Max.)       | 30 - 60                   | 30 - 60                   | 45 - 75                   | 40 - 70                   |
| AFUE (%)                               | 96.0                      | 96.0                      | 96.0                      | 95.0                      |
| Return Air Temp. (Min. - Max.)         | 45°F - 80°F               | 45°F - 80°F               | 45°F - 80°F               | 45°F - 80°F               |
| BLOWER DRIVE                           | DIRECT                    | DIRECT                    | DIRECT                    | DIRECT                    |
| Diameter — Width (In.)                 | 11 X 8                    | 11 X 8                    | 11 X 8                    | 11 X 10                   |
| No. Used                               | 1                         | 1                         | 1                         | 1                         |
| Speeds (No.) (e)                       | 9                         | 9                         | 9                         | 9                         |
| CFM vs. in. w.g.                       | See Fan Performance Table | See Fan Performance Table | See Fan Performance Table | See Fan Performance Table |
| Motor HP                               | 1/2                       | 3/4                       | 3/4                       | 1                         |
| RPM                                    | 1075                      | 1075                      | 1075                      | 1075                      |
| Volts/Ph/Hz                            | 120 / 1 / 60              | 120 / 1 / 60              | 120 / 1 / 60              | 120 / 1 / 60              |
| FLA                                    | 6.4                       | 7.6                       | 7.6                       | 10.6                      |
| COMBUSTION FAN — Type                  | Centrifugal               | Centrifugal               | Centrifugal               | Centrifugal               |
| Drive — No. Speeds                     | Direct - 2                | Direct - 2                | Direct - 2                | Direct - 2                |
| Motor HP — RPM                         | 3300/2600                 | 3300/2600                 | 3300/2600                 | 3300/2600                 |
| Volts/Ph/Hz                            | 120 / 1 / 60              | 120 / 1 / 60              | 120 / 1 / 60              | 120 / 1 / 60              |
| FLA                                    | 0.66                      | 0.66                      | 0.66                      | 0.66                      |
| FILTER — Furnished?                    | No                        | No                        | No                        | No                        |
| Type recommended                       | High Velocity             | High Velocity             | High Velocity             | High Velocity             |
| Hi Vel. (No.-Size-Thk.)                | 1 — 16x25 — 1 in.         | 1 — 16x25 — 1 in.         | 1 — 16x25 — 1 in.         | 1 — 20x25 — 1 in.         |
| VENT PIPE DIAMETER — Min (in.) (f) (g) | 2 Round                   | 2 Round                   | 2 Round                   | 2 Round                   |
| HEAT EXCHANGER                         |                           |                           |                           |                           |
| Type — Fired                           | 409 Stainless Steel       | 409 Stainless Steel       | 409 Stainless Steel       | 409 Stainless Steel       |
| — Unfired                              | 29-4C Stainless Steel     | 29-4C Stainless Steel     | 29-4C Stainless Steel     | 29-4C Stainless Steel     |
| Gauge (Fired)                          | 20                        | 20                        | 20                        | 20                        |
| ORIFICES — Main                        |                           |                           |                           |                           |
| Nat. Gas Qty. — Drill Size             | 2- 45                     | 3 - 45                    | 4 - 45                    | 4 - 45                    |
| LP Gas Qty. — Drill Size               | 2- 56                     | 3 - 56                    | 4- 56                     | 4- 56                     |
| GAS VALVE                              | Redundant - Two Stage     | Redundant - Two Stage     | Redundant - Two Stage     | Redundant - Two Stage     |
| PILOT SAFETY DEVICE                    |                           |                           |                           |                           |
| Type                                   | 120 V SiNi Igniter        | 120 V SiNi Igniter        | 120 V SiNi Igniter        | 120 V SiNi Igniter        |

## Product Specifications

| MODEL                              | S9X2B040U3PSBA (a)       | S9X2B060U4PSBA (a)       | S9X2B080U4PSBA (a)       | S9X2C080U5PSBA (a)   |
|------------------------------------|--------------------------|--------------------------|--------------------------|----------------------|
| <b>BURNERS — Type</b>              | Multiport Inshot         | Multiport Inshot         | Multiport Inshot         | Multiport Inshot     |
| Number                             | 2                        | 3                        | 4                        | 4                    |
| <b>POWER CONN. — V/Ph/Hz (h)</b>   | 120 / 1 / 60             | 120 / 1 / 60             | 120 / 1 / 60             | 120 / 1 / 60         |
| Ampacity (In Amps)                 | 8.8                      | 10.3                     | 10.3                     | 14.1                 |
| Max. Overcurrent Protection (Amps) | 15                       | 15                       | 15                       | 15                   |
| <b>PIPE CONN. SIZE (in.)</b>       | 1/2                      | 1/2                      | 1/2                      | 1/2                  |
| <b>DIMENSIONS</b>                  | H x W x D                | H x W x D                | H x W x D                | H x W x D            |
| Uncrated (In.)                     | 34 x 17-1/2 x 28-3/4     | 34 x 17-1/2 x 28-3/4     | 34 x 17-1/2 x 28-3/4     | 34 x 21 x 28-3/4     |
| Crated (In.)                       | 35-1/2 x 19-1/2 x 30-7/8 | 35-1/2 x 19-1/2 x 30-7/8 | 35-1/2 x 19-1/2 x 30-7/8 | 35-1/2 x 23 x 30-7/8 |
| <b>WEIGHT</b>                      |                          |                          |                          |                      |
| Shipping (Lbs.)/Net (Lbs.)         | 122/114                  | 130/122                  | 135/127                  | 149/139              |

(a) Meets Energy Star

(b) For U.S. applications, above input ratings (BTUH) are up to 2,000 feet, derate 4% per 1,000 feet for elevations above 2,000 feet above sea level. For Canadian applications, above input ratings (BTUH) are up to 4,500 feet, derate 4% per 1,000 feet for elevations above 4,500 feet above sea level.

(c) Central Furnace heating designs are certified to ANSI Z21.47 / CSA 2.3 — latest edition.

(d) Based on U.S. government standard tests.

(e) 9 Speed constant torque ECM blower motor

(f) Refer to the Vent Length Table in the Installer's Guide.

(g) All S9X2 furnace models have a vent outlet diameter that equals 2 in.

(h) The above wiring specifications are in accordance with National Electrical Code; however, installations must comply with local codes.

| MODEL                                 | S9X2C100U5PSBA (a)        | S9X2D120U5PSBA (a)        | S9X2B040D3PSBA (a)        | S9X2B060D3PSBA (a)        |
|---------------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| <b>TYPE</b>                           | Upflow / Horizontal       | Upflow/Horizontal         | Downflow                  | Downflow                  |
| <b>RATINGS (b)</b>                    |                           |                           |                           |                           |
| 1st Stage Input BTUH (ICS)            | 65,000                    | 78,000                    | 26,000                    | 39,000                    |
| 1st Stage Capacity BTUH               | 63,050                    | 75,660                    | 25,220                    | 37,830                    |
| 2nd Stage Input BTUH                  | 100,000                   | 120,000                   | 40,000                    | 60,000                    |
| 2nd Stage Capacity BTUH (ICS) (c) (d) | 97,400                    | 113,400                   | 38,900                    | 57,600                    |
| 1st Stage Temp. Rise (Min.-Max.)      | 25 - 55                   | 30 - 60                   | 25 - 55                   | 25 - 55                   |
| 2nd Stage Temp. Rise (Min.-Max.)      | 40 - 70                   | 40 - 70                   | 30 - 60                   | 35 - 65                   |
| AFUE (%)                              | 96.0                      | 96.0                      | 96.0                      | 95.0                      |
| Return Air Temp. (Min. - Max.)        | 45°F - 80°F               | 45°F - 80°F               | 45°F - 80°F               | 45°F - 80°F               |
| <b>BLOWER DRIVE</b>                   | DIRECT                    | DIRECT                    | DIRECT                    | DIRECT                    |
| Diameter — Width (In.)                | 11 X 10                   | 11 X 10                   | 11 X 8                    | 11 X 8                    |
| No. Used                              | 1                         | 1                         | 1                         | 1                         |
| Speeds (No.) (e)                      | 9                         | 9                         | 9                         | 9                         |
| CFM vs. in. w.g.                      | See Fan Performance Table | See Fan Performance Table | See Fan Performance Table | See Fan Performance Table |
| Motor HP                              | 1                         | 1                         | 1/2                       | 1/2                       |
| RPM                                   | 1075                      | 1075                      | 1075                      | 1075                      |
| Volts/Ph/Hz                           | 120 / 1 / 60              | 120 / 1 / 60              | 120 / 1 / 60              | 120 / 1 / 60              |
| FLA                                   | 10                        | 10.6                      | 6.4                       | 6.4                       |
| <b>COMBUSTION FAN — Type</b>          | Centrifugal               | Centrifugal               | Centrifugal               | Centrifugal               |
| Drive — No. Speeds                    | Direct - 2                | Direct - 2                | Direct - 2                | Direct - 2                |
| Motor HP — RPM                        | 3300/2600                 | 3300/2600                 | 3300/2600                 | 3300/2600                 |
| Volts/Ph/Hz                           | 120 / 1 / 60              | 120 / 1 / 60              | 120 / 1 / 60              | 120 / 1 / 60              |



## Product Specifications

| MODEL                                            | S9X2C100U5PSBA (a)    | S9X2D120U5PSBA (a)       | S9X2B040D3PSBA (a)       | S9X2B060D3PSBA (a)       |
|--------------------------------------------------|-----------------------|--------------------------|--------------------------|--------------------------|
| FLA                                              | 0.66                  | 0.66                     | 0.66                     | 0.66                     |
| <b>FILTER — Furnished?</b>                       | No                    | No                       | No                       | No                       |
| Type recommended                                 | High Velocity         | High Velocity            | High Velocity            | High Velocity            |
| Hi Vel. (No.-Size-Thk.)                          | 1 — 20x25 — 1 in.     | 1 — 24x25 — 1 in.        | 2 — 14x20 — 1 in.        | 2 — 14x20 — 1 in.        |
| <b>VENT PIPE DIAMETER — Min (in.)</b><br>(f) (g) | 2 Round               | 3 Round                  | 2 Round                  | 2 Round                  |
| <b>HEAT EXCHANGER</b>                            |                       |                          |                          |                          |
| Type — Fired                                     | 409 Stainless Steel   | 409 Stainless Steel      | 409 Stainless Steel      | 409 Stainless Steel      |
| — Unfired                                        | 29-4C Stainless Steel | 29-4C Stainless Steel    | 29-4C Stainless Steel    | 29-4C Stainless Steel    |
| Gauge (Fired)                                    | 20                    | 20                       | 20                       | 20                       |
| <b>ORIFICES — Main</b>                           |                       |                          |                          |                          |
| Nat. Gas Qty. — Drill Size                       | 5 - 45                | 6 - 45                   | 2 - 45                   | 3 - 45                   |
| LP Gas Qty. — Drill Size                         | 5 - 56                | 6 - 56                   | 2 - 56                   | 3 - 56                   |
| <b>GAS VALVE</b>                                 | Redundant - Two Stage | Redundant - Two Stage    | Redundant - Two Stage    | Redundant - Two Stage    |
| <b>PILOT SAFETY DEVICE</b>                       |                       |                          |                          |                          |
| Type                                             | 120 V SiNi Igniter    | 120 V SiNi Igniter       | 120 V SiNi Igniter       | 120 V SiNi Igniter       |
| <b>BURNERS — Type</b>                            | Multiport Inshot      | Multiport Inshot         | Multiport Inshot         | Multiport Inshot         |
| Number                                           | 5                     | 6                        | 2                        | 3                        |
| <b>POWER CONN. — V/Ph/Hz (h)</b>                 | 120 / 1 / 60          | 120 / 1 / 60             | 120 / 1 / 60             | 120 / 1 / 60             |
| Ampacity (In Amps)                               | 13.3                  | 14.1                     | 8.8                      | 8.8                      |
| Max. Overcurrent Protection (Amps)               | 15                    | 15                       | 15                       | 15                       |
| <b>PIPE CONN. SIZE (in.)</b>                     | 1/2                   | 1/2                      | 1/2                      | 1/2                      |
| <b>DIMENSIONS</b>                                | H x W x D             | H x W x D                | H x W x D                | H x W x D                |
| Uncrated (In.)                                   | 34 x 21 x 28-3/4      | 34 x 24-1/2 x 28-3/4     | 34 x 17-1/2 x 28-3/4     | 34 x 17-1/2 x 28-3/4     |
| Crated (In.)                                     | 35-1/2 x 23 x 30-7/8  | 35-1/2 x 26-1/2 x 30-7/8 | 35-1/2 x 19-1/2 x 30-7/8 | 35-1/2 x 19-1/2 x 30-7/8 |
| <b>WEIGHT</b>                                    |                       |                          |                          |                          |
| Shipping (Lbs.)/Net (Lbs.)                       | 155/145               | 167/156                  | 122/114                  | 127/119                  |

(a) Meets Energy Star

(b) For U.S. applications, above input ratings (BTUH) are up to 2,000 feet, derate 4% per 1,000 feet for elevations above 2,000 feet above sea level. For Canadian applications, above input ratings (BTUH) are up to 4,500 feet, derate 4% per 1,000 feet for elevations above 4,500 feet above sea level.

(c) Central Furnace heating designs are certified to ANSI Z21.47 / CSA 2.3.

(d) Based on U.S. government standard tests.

(e) 9 Speed constant torque ECM blower motor

(f) Refer to the Vent Length Table in the Installer's Guide.

(g) All S9X2 furnace models have a vent outlet diameter that equals 2 in.

(h) The above wiring specifications are in accordance with National Electrical Code; however, installations must comply with local codes.

| MODEL                                 | S9X2B080D4PSBA (a) | S9X2C100D5PSBA (a) | S9X2D120D5PSBA (a) |
|---------------------------------------|--------------------|--------------------|--------------------|
| <b>TYPE</b>                           | Downflow           | Downflow           | Downflow           |
| <b>RATINGS (b)</b>                    |                    |                    |                    |
| 1st Stage Input BTUH (ICS)            | 52,000             | 65,000             | 78,000             |
| 1st Stage Capacity BTUH               | 50,440             | 63,050             | 75,660             |
| 2nd Stage Input BTUH                  | 80,000             | 100,000            | 120,000            |
| 2nd Stage Capacity BTUH (ICS) (c) (d) | 76,900             | 96,800             | 115,500            |
| 1st Stage Temp. Rise (Min.-Max.)      | 30 - 60            | 25 - 55            | 30-60              |
| 2nd Stage Temp. Rise (Min.-Max.)      | 45 - 75            | 40 - 70            | 45-75              |
| AFUE (%)                              | 96.0               | 95.0               | 96.0               |



| MODEL                                            | S9X2B080D4PSBA (a)        | S9X2C100D5PSBA (a)        | S9X2D120D5PSBA (a)        |
|--------------------------------------------------|---------------------------|---------------------------|---------------------------|
| Return Air Temp. (Min. - Max.)                   | 45°F - 80°F               | 45°F - 80°F               | 45°F - 80°F               |
| <b>BLOWER DRIVE</b>                              | DIRECT                    | DIRECT                    | DIRECT                    |
| Diameter — Width (In.)                           | 11 X 8                    | 11 X 10                   | 11 X 10                   |
| No. Used                                         | 1                         | 1                         | 1                         |
| Speeds (No.) (e)                                 | 9                         | 9                         | 9                         |
| CFM vs. in. w.g.                                 | See Fan Performance Table | See Fan Performance Table | See Fan Performance Table |
| Motor HP                                         | 3/4                       | 1                         | 1                         |
| RPM                                              | 1075                      | 1075                      | 1075                      |
| Volts/Ph/Hz                                      | 120 / 1 / 60              | 120 / 1 / 60              | 120 / 1 / 60              |
| FLA                                              | 9.3                       | 10.6                      | 10.6                      |
| <b>COMBUSTION FAN — Type</b>                     | Centrifugal               | Centrifugal               | Centrifugal               |
| Drive — No. Speeds                               | Direct - 2                | Direct - 2                | Direct - 2                |
| Motor HP — RPM                                   | 3300/2600                 | 3300/2600                 | 3300/2600                 |
| Volts/Ph/Hz                                      | 120 / 1 / 60              | 120 / 1 / 60              | 120 / 1 / 60              |
| FLA                                              | 0.66                      | 0.66                      | 0.66                      |
| <b>FILTER — Furnished?</b>                       | No                        | No                        | No                        |
| Type recommended                                 | High Velocity             | High Velocity             | High Velocity             |
| Hi Vel. (No.-Size-Thk.)                          | 2 — 14x20 — 1 in.         | 2 — 16x20 — 1 in.         | 2 — 16x20 — 1 in.         |
| <b>VENT PIPE DIAMETER — Min (in.)</b><br>(f) (g) | 2 Round                   | 2 Round                   | 3 Round                   |
| <b>HEAT EXCHANGER</b>                            |                           |                           |                           |
| Type — Fired                                     | 409 Stainless Steel       | 409 Stainless Steel       | 409 Stainless Steel       |
| — Unfired                                        | 29-4C Stainless Steel     | 29-4C Stainless Steel     | 29-4C Stainless Steel     |
| Gauge (Fired)                                    | 20                        | 20                        | 20                        |
| <b>ORIFICES — Main</b>                           |                           |                           |                           |
| Nat. Gas Qty. — Drill Size                       | 4 - 45                    | 5 - 45                    | 6 - 45                    |
| LP Gas Qty. — Drill Size                         | 4- 56                     | 5- 56                     | 6- 56                     |
| <b>GAS VALVE</b>                                 | Redundant - Two Stage     | Redundant - Two Stage     | Redundant - Two Stage     |
| <b>PILOT SAFETY DEVICE</b>                       |                           |                           |                           |
| Type                                             | 120 V SiNi Igniter        | 120 V SiNi Igniter        | 120 V SiNi Igniter        |
| <b>BURNERS — Type</b>                            | Multiport Inshot          | Multiport Inshot          | Multiport Inshot          |
| Number                                           | 4                         | 5                         | 6                         |
| <b>POWER CONN. — V/Ph/Hz (h)</b>                 | 120 / 1 / 60              | 120 / 1 / 60              | 120 / 1 / 60              |
| Ampacity (In Amps)                               | 12.4                      | 14.1                      | 14.1                      |
| Max. Overcurrent Protection (Amps)               | 15                        | 15                        | 15                        |
| <b>PIPE CONN. SIZE (in.)</b>                     | 1/2                       | 1/2                       | 1/2                       |
| <b>DIMENSIONS</b>                                | H x W x D                 | H x W x D                 | H x W x D                 |
| Uncrated (In.)                                   | 34 x 17-1/2 x 28-3/4      | 34 x 21 x 28-3/4          | 34 x 24-1/2 x 28-3/4      |
| Crated (In.)                                     | 35-1/2 x 19-1/2 x 30-7/8  | 35-1/2 x 23 x 30-7/8      | 35-1/2 x 26-1/2 x 30-7/8  |
| <b>WEIGHT</b>                                    |                           |                           |                           |
| Shipping (Lbs.)/Net (Lbs.)                       | 135/127                   | 155/145                   | 167/156                   |

(a) Meets Energy Star

(b) For U.S. applications, above input ratings (BTUH) are up to 2,000 feet, derate 4% per 1,000 feet for elevations above 2,000 feet above sea level. For Canadian applications, above input ratings (BTUH) are up to 4,500 feet, derate 4% per 1,000 feet for elevations above 4,500 feet above sea level.

(c) Central Furnace heating designs are certified to ANSI Z21.47 / CSA 2.3.

(d) Based on U.S. government standard tests.

(e) 9 Speed constant torque ECM blower motor

(f) Refer to the Vent Length Table in the Installer's Guide.

(g) All S9X2 furnace models have a vent outlet diameter that equals 2 in.

(h) The above wiring specifications are in accordance with National Electrical Code; however, installations must comply with local codes.

# Airflow tables

| Furnace Airflow (CFM) Vs. External Static Pressure (in. W.C.) |     |       |      |      |      |      |      |
|---------------------------------------------------------------|-----|-------|------|------|------|------|------|
| Model                                                         | Tap |       | 0.1  | 0.3  | 0.5  | 0.7  | 0.9  |
| <b>S9X2B040U3PSBA</b>                                         | 1   | SCFM  | 510  | 314  | 118  | -    | -    |
|                                                               |     | Watts | 34   | 43   | 52   | -    | -    |
|                                                               | 2   | SCFM  | 532  | 341  | 150  | -    | -    |
|                                                               |     | Watts | 36   | 45   | 54   | -    | -    |
|                                                               | 3   | SCFM  | 877  | 748  | 620  | 491  | 362  |
|                                                               |     | Watts | 91   | 104  | 118  | 131  | 144  |
|                                                               | 4   | SCFM  | 933  | 813  | 693  | 573  | 452  |
|                                                               |     | Watts | 106  | 120  | 133  | 147  | 161  |
|                                                               | 5   | SCFM  | 1056 | 950  | 843  | 737  | 631  |
|                                                               |     | Watts | 140  | 156  | 172  | 188  | 204  |
|                                                               | 6   | SCFM  | 1111 | 1009 | 908  | 806  | 705  |
|                                                               |     | Watts | 157  | 174  | 190  | 207  | 223  |
|                                                               | 7   | SCFM  | 1174 | 1078 | 983  | 887  | 791  |
|                                                               |     | Watts | 182  | 199  | 216  | 233  | 251  |
|                                                               | 8   | SCFM  | 1376 | 1297 | 1218 | 1140 | 1061 |
|                                                               |     | Watts | 285  | 305  | 325  | 344  | 364  |
|                                                               | 9   | SCFM  | 1512 | 1445 | 1378 | 1312 | 1245 |
|                                                               |     | Watts | 382  | 403  | 424  | 445  | 466  |

| Furnace Airflow (CFM) Vs. External Static Pressure (in. W.C.) |     |       |      |      |      |      |      |
|---------------------------------------------------------------|-----|-------|------|------|------|------|------|
| Model                                                         | Tap |       | 0.1  | 0.3  | 0.5  | 0.7  | 0.9  |
| <b>S9X2B060U4PSBA</b>                                         | 1   | SCFM  | 840  | 702  | 565  | 427  | 290  |
|                                                               |     | Watts | 91   | 101  | 111  | 121  | 130  |
|                                                               | 2   | SCFM  | 1001 | 893  | 786  | 678  | 571  |
|                                                               |     | Watts | 137  | 149  | 162  | 174  | 186  |
|                                                               | 3   | SCFM  | 1140 | 1051 | 963  | 875  | 786  |
|                                                               |     | Watts | 193  | 207  | 221  | 235  | 249  |
|                                                               | 4   | SCFM  | 1208 | 1128 | 1048 | 969  | 889  |
|                                                               |     | Watts | 223  | 238  | 253  | 268  | 283  |
|                                                               | 5   | SCFM  | 1299 | 1224 | 1148 | 1073 | 998  |
|                                                               |     | Watts | 270  | 284  | 298  | 312  | 327  |
|                                                               | 6   | SCFM  | 1413 | 1348 | 1283 | 1217 | 1152 |
|                                                               |     | Watts | 343  | 359  | 375  | 391  | 406  |
|                                                               | 7   | SCFM  | 1444 | 1380 | 1315 | 1251 | 1186 |
|                                                               |     | Watts | 354  | 370  | 386  | 403  | 419  |
|                                                               | 8   | SCFM  | 1727 | 1674 | 1622 | 1570 | 1518 |
|                                                               |     | Watts | 612  | 631  | 650  | 668  | 687  |
|                                                               | 9   | SCFM  | 1790 | 1741 | 1691 | 1642 | 1593 |
|                                                               |     | Watts | 694  | 712  | 729  | 747  | 765  |

| Furnace Airflow (CFM) Vs. External Static Pressure (in. W.C.) |     |       |      |      |      |      |      |
|---------------------------------------------------------------|-----|-------|------|------|------|------|------|
| Model                                                         | Tap |       | 0.1  | 0.3  | 0.5  | 0.7  | 0.9  |
| <b>S9X2B080U4PSBA</b>                                         | 1   | SCFM  | 911  | 766  | 622  | 477  | 332  |
|                                                               |     | Watts | 94   | 104  | 115  | 125  | 136  |
|                                                               | 2   | SCFM  | 1075 | 963  | 851  | 740  | 628  |
|                                                               |     | Watts | 139  | 153  | 168  | 182  | 197  |
|                                                               | 3   | SCFM  | 1215 | 1121 | 1028 | 934  | 840  |
|                                                               |     | Watts | 185  | 202  | 219  | 236  | 253  |
|                                                               | 4   | SCFM  | 1250 | 1164 | 1077 | 990  | 903  |
|                                                               |     | Watts | 203  | 221  | 239  | 257  | 274  |
|                                                               | 5   | SCFM  | 1349 | 1272 | 1194 | 1116 | 1039 |
|                                                               |     | Watts | 251  | 271  | 291  | 310  | 330  |
|                                                               | 6   | SCFM  | 1453 | 1387 | 1321 | 1254 | 1188 |
|                                                               |     | Watts | 313  | 335  | 356  | 378  | 400  |
|                                                               | 7   | SCFM  | 1505 | 1438 | 1372 | 1305 | 1239 |
|                                                               |     | Watts | 340  | 362  | 384  | 406  | 427  |
|                                                               | 8   | SCFM  | 1657 | 1597 | 1538 | 1479 | 1419 |
|                                                               |     | Watts | 453  | 477  | 500  | 524  | 547  |
|                                                               | 9   | SCFM  | 1878 | 1815 | 1752 | 1690 | 1627 |
|                                                               |     | Watts | 669  | 686  | 702  | 718  | 735  |

| Furnace Airflow (CFM) Vs. External Static Pressure (in. W.C.) |     |       |      |      |      |      |      |
|---------------------------------------------------------------|-----|-------|------|------|------|------|------|
| Model                                                         | Tap |       | 0.1  | 0.3  | 0.5  | 0.7  | 0.9  |
| <b>S9X2C080U5PSBA</b>                                         | 1   | SCFM  | 643  | 384  | 125  |      |      |
|                                                               |     | Watts | 45   | 53   | 62   | -    | -    |
|                                                               | 2   | SCFM  | 1125 | 982  | 838  | 694  | 551  |
|                                                               |     | Watts | 126  | 142  | 158  | 174  | 190  |
|                                                               | 3   | SCFM  | 1192 | 1038 | 884  | 730  | 576  |
|                                                               |     | Watts | 140  | 157  | 174  | 191  | 208  |
|                                                               | 4   | SCFM  | 1509 | 1377 | 1246 | 1115 | 983  |
|                                                               |     | Watts | 245  | 268  | 291  | 314  | 337  |
|                                                               | 5   | SCFM  | 1548 | 1428 | 1308 | 1187 | 1067 |
|                                                               |     | Watts | 257  | 281  | 304  | 328  | 352  |
|                                                               | 6   | SCFM  | 1602 | 1467 | 1331 | 1196 | 1061 |
|                                                               |     | Watts | 320  | 345  | 371  | 396  | 421  |
|                                                               | 7   | SCFM  | 1640 | 1512 | 1383 | 1255 | 1127 |
|                                                               |     | Watts | 352  | 379  | 406  | 433  | 459  |
|                                                               | 8   | SCFM  | 1831 | 1778 | 1726 | 1673 | 1621 |
|                                                               |     | Watts | 521  | 550  | 579  | 608  | 637  |
|                                                               | 9   | SCFM  | 2351 | 2278 | 2204 | 2131 | 2058 |
|                                                               |     | Watts | 886  | 918  | 950  | 982  | 1014 |



## Airflow tables

| Furnace Airflow (CFM) Vs. External Static Pressure (in. W.C.) |     |       |      |      |      |      |      |
|---------------------------------------------------------------|-----|-------|------|------|------|------|------|
| Model                                                         | Tap |       | 0.1  | 0.3  | 0.5  | 0.7  | 0.9  |
| <b>S9X2C100U5PSBA</b>                                         | 1   | SCFM  | 1013 | 847  | 680  | 514  | 348  |
|                                                               |     | Watts | 104  | 116  | 129  | 142  | 155  |
|                                                               | 2   | SCFM  | 1261 | 1126 | 990  | 854  | 718  |
|                                                               |     | Watts | 168  | 185  | 202  | 219  | 236  |
|                                                               | 3   | SCFM  | 1519 | 1407 | 1296 | 1184 | 1072 |
|                                                               |     | Watts | 267  | 290  | 313  | 336  | 358  |
|                                                               | 4   | SCFM  | 1554 | 1446 | 1337 | 1229 | 1120 |
|                                                               |     | Watts | 283  | 307  | 330  | 353  | 377  |
|                                                               | 5   | SCFM  | 1749 | 1651 | 1554 | 1457 | 1359 |
|                                                               |     | Watts | 385  | 411  | 436  | 462  | 488  |
|                                                               | 6   | SCFM  | 1868 | 1778 | 1688 | 1599 | 1509 |
|                                                               |     | Watts | 464  | 491  | 519  | 546  | 574  |
|                                                               | 7   | SCFM  | 2018 | 1936 | 1853 | 1770 | 1688 |
|                                                               |     | Watts | 573  | 602  | 631  | 660  | 689  |
|                                                               | 8   | SCFM  | 2191 | 2112 | 2033 | 1954 | 1875 |
|                                                               |     | Watts | 718  | 750  | 782  | 815  | 847  |
|                                                               | 9   | SCFM  | 2395 | 2303 | 2212 | 2120 | 2028 |
|                                                               |     | Watts | 966  | 981  | 996  | 1012 | 1027 |

| Furnace Airflow (CFM) Vs. External Static Pressure (in. W.C.) |     |       |      |      |      |      |      |
|---------------------------------------------------------------|-----|-------|------|------|------|------|------|
| Model                                                         | Tap |       | 0.1  | 0.3  | 0.5  | 0.7  | 0.9  |
| <b>S9X2D120U5PSBA</b>                                         | 1   | SCFM  | 707  | 443  | 179  | -    | -    |
|                                                               |     | Watts | 46   | 55   | 64   | -    | -    |
|                                                               | 2   | SCFM  | 1344 | 1218 | 1092 | 966  | 840  |
|                                                               |     | Watts | 163  | 183  | 202  | 222  | 241  |
|                                                               | 3   | SCFM  | 1532 | 1419 | 1307 | 1195 | 1083 |
|                                                               |     | Watts | 225  | 247  | 268  | 290  | 312  |
|                                                               | 4   | SCFM  | 1584 | 1477 | 1370 | 1263 | 1156 |
|                                                               |     | Watts | 247  | 270  | 292  | 315  | 338  |
|                                                               | 5   | SCFM  | 1915 | 1818 | 1722 | 1625 | 1529 |
|                                                               |     | Watts | 401  | 428  | 454  | 480  | 506  |
|                                                               | 6   | SCFM  | 2104 | 2016 | 1927 | 1839 | 1750 |
|                                                               |     | Watts | 525  | 553  | 582  | 610  | 639  |
|                                                               | 7   | SCFM  | 2132 | 2045 | 1958 | 1870 | 1783 |
|                                                               |     | Watts | 546  | 575  | 604  | 633  | 662  |
|                                                               | 8   | SCFM  | 2410 | 2328 | 2247 | 2165 | 2084 |
|                                                               |     | Watts | 833  | 868  | 903  | 937  | 972  |
|                                                               | 9   | SCFM  | 2472 | 2401 | 2329 | 2257 | 2186 |
|                                                               |     | Watts | 909  | 944  | 979  | 1013 | 1048 |

| Furnace Airflow (CFM) Vs. External Static Pressure (in. W.C.) |     |       |      |      |      |      |      |
|---------------------------------------------------------------|-----|-------|------|------|------|------|------|
| Model                                                         | Tap |       | 0.1  | 0.3  | 0.5  | 0.7  | 0.9  |
| <b>S9X2B040D3PSBA</b>                                         | 1   | SCFM  | 378  | 153  | -    | -    | -    |
|                                                               |     | Watts | 28   | 32   | -    | -    | -    |
|                                                               | 2   | SCFM  | 514  | 330  | 145  | -    | -    |
|                                                               |     | Watts | 35   | 45   | 55   | 64   | 74   |
|                                                               | 3   | SCFM  | 765  | 618  | 471  | 324  | 178  |
|                                                               |     | Watts | 69   | 81   | 93   | 105  | 116  |
|                                                               | 4   | SCFM  | 827  | 691  | 554  | 418  | 281  |
|                                                               |     | Watts | 81   | 94   | 106  | 119  | 132  |
|                                                               | 5   | SCFM  | 988  | 879  | 770  | 661  | 553  |
|                                                               |     | Watts | 124  | 140  | 156  | 171  | 187  |
|                                                               | 6   | SCFM  | 1085 | 986  | 887  | 787  | 688  |
|                                                               |     | Watts | 156  | 173  | 190  | 207  | 224  |
|                                                               | 7   | SCFM  | 1125 | 1030 | 934  | 839  | 743  |
|                                                               |     | Watts | 170  | 188  | 205  | 222  | 239  |
|                                                               | 8   | SCFM  | 1129 | 1035 | 941  | 847  | 753  |
|                                                               |     | Watts | 170  | 187  | 204  | 221  | 239  |
|                                                               | 9   | SCFM  | 1492 | 1419 | 1346 | 1273 | 1200 |
|                                                               |     | Watts | 369  | 390  | 411  | 431  | 452  |

| Furnace Airflow (CFM) Vs. External Static Pressure (in. W.C.) |     |       |      |      |      |      |      |
|---------------------------------------------------------------|-----|-------|------|------|------|------|------|
| Model                                                         | Tap |       | 0.1  | 0.3  | 0.5  | 0.7  | 0.9  |
| <b>S9X2B060D3PSBA</b>                                         | 1   | SCFM  | 624  | 451  | 277  | 104  | -    |
|                                                               |     | Watts | 47   | 57   | 68   | 79   | -    |
|                                                               | 2   | SCFM  | 866  | 734  | 602  | 470  | 338  |
|                                                               |     | Watts | 89   | 102  | 116  | 129  | 142  |
|                                                               | 3   | SCFM  | 949  | 833  | 718  | 602  | 486  |
|                                                               |     | Watts | 113  | 128  | 142  | 156  | 171  |
|                                                               | 4   | SCFM  | 1122 | 1025 | 928  | 831  | 733  |
|                                                               |     | Watts | 165  | 182  | 200  | 217  | 235  |
|                                                               | 5   | SCFM  | 1178 | 1087 | 996  | 905  | 814  |
|                                                               |     | Watts | 191  | 209  | 227  | 246  | 264  |
|                                                               | 6   | SCFM  | 1260 | 1180 | 1100 | 1021 | 941  |
|                                                               |     | Watts | 233  | 252  | 271  | 290  | 309  |
|                                                               | 7   | SCFM  | 1370 | 1299 | 1228 | 1158 | 1087 |
|                                                               |     | Watts | 296  | 316  | 336  | 355  | 375  |
|                                                               | 8   | SCFM  | 1480 | 1416 | 1352 | 1287 | 1223 |
|                                                               |     | Watts | 365  | 387  | 408  | 429  | 450  |
|                                                               | 9   | SCFM  | 1504 | 1440 | 1376 | 1312 | 1249 |
|                                                               |     | Watts | 384  | 406  | 427  | 449  | 470  |

## Airflow tables

| Furnace Airflow (CFM) Vs. External Static Pressure (in. W.C.) |     |       |      |      |      |      |      |
|---------------------------------------------------------------|-----|-------|------|------|------|------|------|
| Model                                                         | Tap |       | 0.1  | 0.3  | 0.5  | 0.7  | 0.9  |
| <b>S9X2B080D4PSBA</b>                                         | 1   | SCFM  | 499  | 306  | 113  | -    | -    |
|                                                               |     | Watts | 36   | 43   | 49   | -    | -    |
|                                                               | 2   | SCFM  | 1017 | 922  | 828  | 734  | 640  |
|                                                               |     | Watts | 143  | 158  | 173  | 188  | 203  |
|                                                               | 3   | SCFM  | 1119 | 1029 | 940  | 850  | 761  |
|                                                               |     | Watts | 176  | 192  | 207  | 223  | 239  |
|                                                               | 4   | SCFM  | 1205 | 1125 | 1044 | 964  | 883  |
|                                                               |     | Watts | 215  | 233  | 250  | 268  | 285  |
|                                                               | 5   | SCFM  | 1237 | 1160 | 1083 | 1006 | 928  |
|                                                               |     | Watts | 231  | 250  | 268  | 286  | 305  |
|                                                               | 6   | SCFM  | 1378 | 1309 | 1240 | 1172 | 1103 |
|                                                               |     | Watts | 315  | 334  | 354  | 373  | 393  |
|                                                               | 7   | SCFM  | 1453 | 1389 | 1324 | 1260 | 1195 |
|                                                               |     | Watts | 360  | 380  | 399  | 419  | 439  |
|                                                               | 8   | SCFM  | 1618 | 1562 | 1505 | 1449 | 1392 |
|                                                               |     | Watts | 496  | 518  | 540  | 561  | 583  |
|                                                               | 9   | SCFM  | 1794 | 1742 | 1691 | 1639 | 1587 |
|                                                               |     | Watts | 682  | 704  | 726  | 748  | 770  |

| Furnace Airflow (CFM) Vs. External Static Pressure (in. W.C.) |     |       |      |      |      |      |      |
|---------------------------------------------------------------|-----|-------|------|------|------|------|------|
| Model                                                         | Tap |       | 0.1  | 0.3  | 0.5  | 0.7  | 0.9  |
| <b>S9X2C100D5PSBA</b>                                         | 1   | SCFM  | 1002 | 823  | 644  | 465  | 285  |
|                                                               |     | Watts | 103  | 117  | 130  | 144  | 157  |
|                                                               | 2   | SCFM  | 1385 | 1276 | 1167 | 1057 | 948  |
|                                                               |     | Watts | 223  | 243  | 264  | 284  | 304  |
|                                                               | 3   | SCFM  | 1527 | 1430 | 1333 | 1236 | 1139 |
|                                                               |     | Watts | 286  | 310  | 333  | 357  | 380  |
|                                                               | 4   | SCFM  | 1610 | 1516 | 1421 | 1326 | 1231 |
|                                                               |     | Watts | 328  | 352  | 377  | 401  | 425  |
|                                                               | 5   | SCFM  | 1761 | 1677 | 1593 | 1509 | 1425 |
|                                                               |     | Watts | 433  | 459  | 486  | 512  | 538  |
|                                                               | 6   | SCFM  | 1861 | 1783 | 1706 | 1628 | 1551 |
|                                                               |     | Watts | 492  | 520  | 549  | 577  | 605  |
|                                                               | 7   | SCFM  | 1984 | 1902 | 1820 | 1738 | 1656 |
|                                                               |     | Watts | 548  | 577  | 606  | 635  | 663  |
|                                                               | 8   | SCFM  | 2173 | 2097 | 2020 | 1944 | 1867 |
|                                                               |     | Watts | 728  | 760  | 792  | 824  | 856  |
|                                                               | 9   | SCFM  | 2342 | 2269 | 2196 | 2123 | 2050 |
|                                                               |     | Watts | 945  | 973  | 1002 | 1031 | 1060 |

| <b>Furnace Airflow (CFM) Vs. External Static Pressure (in. W.C.)</b> |            |       |            |            |            |            |            |
|----------------------------------------------------------------------|------------|-------|------------|------------|------------|------------|------------|
| <b>Model</b>                                                         | <b>Tap</b> |       | <b>0.1</b> | <b>0.3</b> | <b>0.5</b> | <b>0.7</b> | <b>0.9</b> |
| <b>S9X2D120D5PSBA</b>                                                | 1          | SCFM  | 680        | 419        | 159        | -          | -          |
|                                                                      |            | Watts | 47         | 56         | 66         | -          | -          |
|                                                                      | 2          | SCFM  | 1481       | 1372       | 1264       | 1155       | 1046       |
|                                                                      |            | Watts | 236        | 259        | 282        | 304        | 327        |
|                                                                      | 3          | SCFM  | 1566       | 1461       | 1357       | 1253       | 1149       |
|                                                                      |            | Watts | 268        | 292        | 316        | 340        | 363        |
|                                                                      | 4          | SCFM  | 1803       | 1711       | 1619       | 1527       | 1435       |
|                                                                      |            | Watts | 393        | 420        | 446        | 472        | 498        |
|                                                                      | 5          | SCFM  | 1891       | 1801       | 1711       | 1621       | 1532       |
|                                                                      |            | Watts | 445        | 472        | 500        | 527        | 555        |
|                                                                      | 6          | SCFM  | 2132       | 2025       | 1919       | 1812       | 1705       |
|                                                                      |            | Watts | 568        | 601        | 633        | 666        | 698        |
|                                                                      | 7          | SCFM  | 2154       | 2068       | 1982       | 1896       | 1810       |
|                                                                      |            | Watts | 644        | 675        | 705        | 736        | 766        |
|                                                                      | 8          | SCFM  | 2344       | 2267       | 2190       | 2113       | 2035       |
|                                                                      |            | Watts | 837        | 870        | 902        | 934        | 967        |
|                                                                      | 9          | SCFM  | 2414       | 2333       | 2251       | 2170       | 2088       |
|                                                                      |            | Watts | 896        | 928        | 961        | 993        | 1026       |



# CFM Versus Temperature Rise

**S9X2 Furnaces have two stage heating. First Stage is Low heating and Second Stage is High heating.**

**Table 2. 2nd Stage Heating Table — Upflow**

| CFM VS. 2ND STAGE TEMPERATURE RISE |                             |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------------------------------------|-----------------------------|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MODEL                              | CFM (CUBIC FEET PER MINUTE) |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                                    | 600                         | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 |
| S9X2B040U3PSBA                     | 60                          | 51  | 45  | 40  | 36   | 33   |      |      |      |      |      |      |      |      |      |      |      |      |
| S9X2B060U4PSBA                     |                             |     |     | 60  | 54   | 49   | 45   | 41   | 38   | 36   | 34   | 32   |      |      |      |      |      |      |
| S9X2B080U4PSBA                     |                             |     |     |     | 72   | 65   | 60   | 55   | 51   | 48   |      |      |      |      |      |      |      |      |
| S9X2C080U5PSBA                     |                             |     |     |     |      | 65   | 60   | 55   | 51   | 48   | 45   | 42   |      |      |      |      |      |      |
| S9X2C100U5PSBA                     |                             |     |     |     |      |      |      | 69   | 64   | 60   | 56   | 53   | 50   | 47   | 45   | 43   | 41   |      |
| S9X2D120U5PSBA                     |                             |     |     |     |      |      |      |      |      |      | 67   | 63   | 60   | 57   | 54   | 51   | 49   | 47   |

**Table 3. 1st Stage Heating Table — Upflow**

| CFM VS. 1ST STAGE TEMPERATURE RISE |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |
|------------------------------------|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| MODEL                              |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |
|                                    | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 |
| S9X2B040U3PSBA                     | 47  | 39  | 33  | 29  | 26  |      |      |      |      |      |      |      |      |      |      |      |      |
| S9X2B060U4PSBA                     |     |     | 50  | 44  | 39  | 35   | 32   | 29   | 27   | 25   |      |      |      |      |      |      |      |
| S9X2B080U4PSBA                     |     |     |     | 58  | 52  | 47   | 42   | 39   | 36   | 33   | 31   |      |      |      |      |      |      |
| S9X2C080U5PSBA                     |     |     |     | 58  | 52  | 47   | 42   | 39   | 36   | 33   | 31   |      |      |      |      |      |      |
| S9X2C100U5PSBA                     |     |     |     |     |     |      | 53   | 49   | 45   | 42   | 39   | 36   | 34   | 32   | 31   | 29   | 28   |
| S9X2D120U5PSBA                     |     |     |     |     |     |      |      | 58   | 54   | 50   | 47   | 44   | 41   | 39   | 37   | 35   | 33   |

**Table 4. 2nd Stage Heating Table — Downflow**

| CFM VS. 2ND STAGE TEMPERATURE RISE |                             |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------------------------------------|-----------------------------|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MODEL                              | CFM (CUBIC FEET PER MINUTE) |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                                    | 600                         | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 |
| S9X2B040D3PSBA                     | 60                          | 51  | 45  | 40  | 36   | 33   |      |      |      |      |      |      |      |      |      |      |      |      |
| S9X2B060D3PSBA                     |                             |     |     | 60  | 54   | 49   | 45   | 41   | 38   | 36   |      |      |      |      |      |      |      |      |
| S9X2B080D4PSBA                     |                             |     |     |     | 72   | 65   | 60   | 55   | 51   | 48   |      |      |      |      |      |      |      |      |
| S9X2C100D5PSBA                     |                             |     |     |     |      |      |      | 69   | 64   | 60   | 56   | 53   | 50   | 47   | 45   | 43   | 41   |      |
| S9X2D120D5PSBA                     |                             |     |     |     |      |      |      |      |      | 72   | 67   | 63   | 60   | 57   | 54   | 51   | 49   | 47   |



**Table 5. 1st Stage Heating Table — Downflow**

| CFM VS. 1ST STAGE TEMPERATURE RISE |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |
|------------------------------------|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| MODEL                              |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |
|                                    | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 |
| S9X2B040D3PSBA                     | 47  | 39  | 33  | 29  | 26  |      |      |      |      |      |      |      |      |      |      |      |      |
| S9X2B060D3PSBA                     |     |     | 50  | 44  | 39  | 35   | 32   | 29   | 27   | 25   |      |      |      |      |      |      |      |
| S9X2B080D4PSBA                     |     |     |     | 58  | 52  | 47   | 42   | 39   | 36   | 33   | 31   |      |      |      |      |      |      |
| S9X2C100D5PSBA                     |     |     |     |     |     |      | 53   | 49   | 45   | 42   | 39   | 36   | 34   | 32   | 31   | 29   | 28   |
| S9X2D120D5PSBA                     |     |     |     |     |     |      |      | 58   | 54   | 50   | 47   | 44   | 41   | 39   | 37   | 35   | 33   |



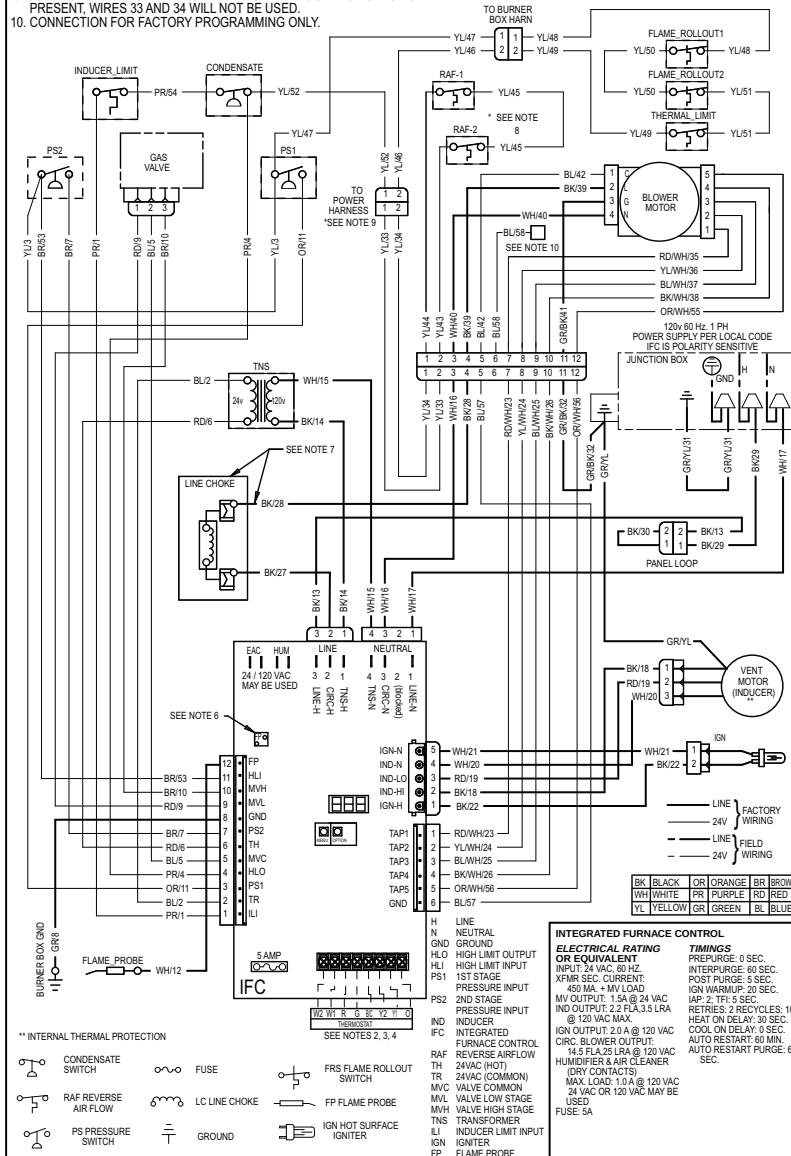
# Maximum Vent Length Table S9X2

| Maximum Vent Length Table                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Maximum Total Equivalent Length In Feet<br>for Vent and Inlet Air (See Notes) |                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------|
| Model                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2 Inch or 2.5 Inch Pipe                                                       | 3 Inch or 4 Inch Pipe |
| Altitude 0–2,000 Feet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                               |                       |
| S9X2B040U3PS, S9X2B040D3PS,<br>S9X2B060D3PS, S9X2B060U4PS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 200                                                                           | 200                   |
| S9X2B080U4PS, S9X2B080D4PS,<br>S9X2C080U5PS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 100                                                                           | 200                   |
| S9X2C100U5PS, S9X2C100D5PS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 50                                                                            | 200                   |
| S9X2D120U5PS, S9X2D120D5PS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Note 1                                                                        | 200                   |
| Altitude 2,001–5,400 Feet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                               |                       |
| S9X2B040U3PS, S9X2B040D3PS,<br>S9X2B060D3PS, S9X2B060U4PS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 200                                                                           | 200                   |
| S9X2B080U4PS, S9X2B080D4PS,<br>S9X2C080U5PS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 80                                                                            | 120                   |
| S9X2C100U5PS, S9X2C100D5PS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 50                                                                            | 150                   |
| S9X2D120U5PS, S9X2D120D5PS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Note 1                                                                        | 200                   |
| Altitude 5,401–7,800 Feet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                               |                       |
| S9X2B040U3PS, S9X2B040D3PS,<br>S9X2B060D3PS, S9X2B060U4PS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 100                                                                           | 150                   |
| S9X2B080U4PS, S9X2B080D4PS,<br>S9X2C080U5PS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 50                                                                            | 70                    |
| S9X2C100U5PS, S9X2C100D5PS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Note 1                                                                        | 100                   |
| S9X2D120U5PS, S9X2D120D5PS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Note 1                                                                        | 100                   |
| Altitude 7,801–10,100 Feet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                               |                       |
| S9X2B040U3PS, S9X2B040D3PS,<br>S9X2B060D3PS, S9X2B060U4PS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 50                                                                            | 90                    |
| S9X2B080U4PS, S9X2B080D4PS,<br>S9X2C080U5PS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Note 1                                                                        | 50                    |
| S9X2C100U5PS, S9X2C100D5PS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Note 1                                                                        | 50                    |
| S9X2D120U5PS, S9X2D120D5PS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Note 1                                                                        | 50                    |
| Notes:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                               |                       |
| <ol style="list-style-type: none"> <li>Not allowed</li> <li>For PolyPro® by Duravent, Z-DENS by Novaflex Group, InnoFlue® by Centrotherm, and Polyflue™ manufactured modular venting systems that are in the approved vent pipe material table, fitting equivalent vent lengths may be different from what is shown in Note 6. Refer to the venting system manufacturer's installation instruction for appropriate venting diameters and equivalent lengths.</li> <li>Minimum vent length for all models: 15' equivalent.</li> <li>DO NOT MIX PIPE DIAMETERS IN THE SAME LENGTH OF PIPE OUTSIDE THE FURNACE CABINET (Except adapters at the top of the furnace). If different inlet and vent pipe sizes are used, the vent pipe must adhere to the maximum length limit shown in the table above (See note 7 below for exception). The inlet pipe can be of a larger diameter, but never smaller than the vent pipe.</li> <li>MAXIMUM PIPE LENGTHS MUST NOT BE EXCEEDED! THE LENGTH SHOWN IS NOT A COMBINED TOTAL, IT IS THE MAXIMUM LENGTH OF EACH (Vent or Inlet air pipes).</li> <li>One SHORT radius 90° elbow is equivalent to 10' of 4" pipe, 10' of 3" pipe, or 8' of 2" pipe. One LONG radius elbow is equivalent to 6' of 4" pipe, 7' of 3" pipe, or 5' of 2" pipe. Two 45° elbows equal one 90° LONG elbow. One MITERED elbow is equivalent to 12' of 3" pipe or 12' of 2" pipe.</li> <li>The termination tee or bend must be included in the total number of elbows. If the BAYAIR30AVENTA or BAYAIR30CNVENT termination kit is used, the equivalent length of pipe is 5 feet. For BAYVENT200B and BAYVENTCN200B the equivalent length is 0 feet.</li> <li>For Canadian applications, venting systems must meet ULC-S636 requirements.</li> <li>The INLET AIR of one pipe systems require the installation of a minimum of one 90° elbow (to prevent dust and debris from falling straight into the furnace).</li> </ol> |                                                                               |                       |

# S9X2 Wiring Diagram

## NOTES:

- IF ANY OF THE ORIGINAL WIRING AS SUPPLIED WITH THIS FURNACE MUST BE REPLACED, IT MUST BE WITH WIRE HAVING A TEMPERATURE RATING OF AT LEAST 105°C. WIRES 12, 48, 49, 50, AND 51 REQUIRE A TEMPERATURE RATING OF AT LEAST 250°C.
- FOR PROPER AIRFLOW WITH SINGLE STAGE COOLING UNITS, "Y1" ON THE THERMOSTAT MUST BE CONNECTED TO "Y1" OF THE IFC.
- HEAT PUMP UNITS MUST ALSO HAVE "O" CONNECTED FROM THE THERMOSTAT TO THE IFC.
- FOR PROPER AIRFLOW WITH TWO STAGE COOLING UNITS, "Y1" AND "Y2" ON THE THERMOSTAT MUST BE CONNECTED TO "Y1" AND "Y2" OF THE IFC. HEAT PUMP UNITS MUST ALSO HAVE "O" CONNECTED FROM THE THERMOSTAT TO THE IFC.
- FOR SINGLE STAGE THERMOSTATS, JUMPER "W1" AND "W2" TERMINALS. SECOND STAGE HEATING WILL BE ENERGIZED ONCE THE INTER-STAGE DELAY HAS EXPIRED. "HT2" WILL BE SHOWN ON DISPLAY AT ALL TIMES.
- THE INDOOR BLOWER MOTOR AIRFLOW TABLES ARE LOCATED IN THE SERVICE FACTS. TO CHANGE AIRFLOW USE THE MENU/OPTIONS BUTTONS.
- FLAME SENSE TEST PADS: 1 VDC = 1 MICROAMP. FLAME CURRENT CAN VARY DEPENDING ON THE VOM THAT IS USED AND THE VOLTAGE SUPPLIED TO THE FURNACE. THE ACCEPTABLE RANGE IS 0.75-3 MICROAMPS.
- LINE CHOKE AND WIRE BK/28 ONLY USED ON MODELS WITH 3/4 AND 1 HP MOTORS.
- DOWNFLOW MODELS USE ONLY ONE REVERSE AIRFLOW SWITCH.
- CONNECTION MAY OR MAY NOT BE PRESENT. IF CONNECTION IS NOT PRESENT, WIRES 33 AND 34 WILL NOT BE USED.
- CONNECTION FOR FACTORY PROGRAMMING ONLY.



## 2 Stage Inducer with CTM Blower Motor

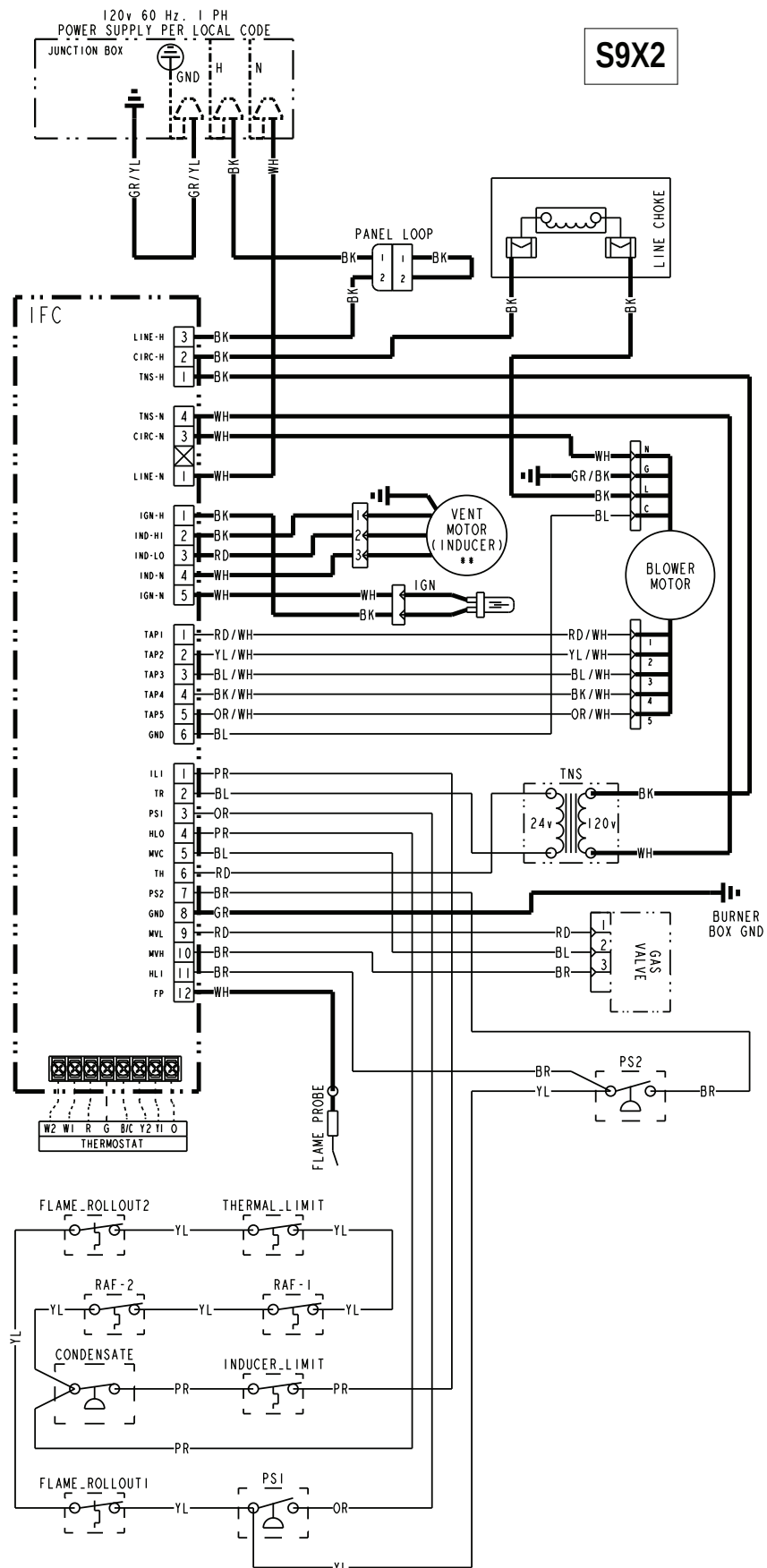
| Status Codes | 15d                                                | Inter-Stage Delay (sec) | E3.4                                                                        | Open Pressure Switch, 2nd Stage                               |
|--------------|----------------------------------------------------|-------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------|
| IdL          | Idle                                               |                         | E04                                                                         | Open Thermal Limit, Rollout Switch, or Reverse Airflow Switch |
| H1.1         | 1st Stage Heating                                  | CDP                     | Blower Tap Number for Continuous Fan                                        |                                                               |
| H2.2         | 2nd Stage Heating                                  | C1.1                    | Blower Tap for 1st Stage Compressor Mode                                    |                                                               |
| C2.2         | Blower Tap Number                                  | C2.2                    | Blower Tap for 2nd Stage Compressor Mode                                    |                                                               |
| CDP          | Continuous Fan                                     |                         |                                                                             |                                                               |
| CL.1         | 1st Stage Cooling                                  | H1.1                    | Blower Tap for 1st Stage Heating                                            |                                                               |
| CL.2         | 2nd Stage Cooling                                  | H2.2                    | Blower Tap for 2nd Stage Heating                                            |                                                               |
| HP.1         | 1st Stage Heat Pump                                | rUn                     | Run Test Mode                                                               |                                                               |
| HP.2         | 2nd Stage Heat Pump                                |                         |                                                                             |                                                               |
| dFt          | Defrost Mode                                       |                         |                                                                             |                                                               |
|              | Menu Options                                       | E01                     | Loss of the IRQ/other internal failures                                     |                                                               |
| E01          | Active Alarm Menu                                  | E02.1                   | Retries exceeded (Failed to est flame)                                      |                                                               |
| L6F          | Last 6 Faults (To Clear, Hold Option Button 5 sec) | E02.2                   | Retries exceeded (loss of established flame) or 10X PS1 open                |                                                               |
| C1           | Code Release Number                                | E02.3                   | 1st Stage Gas Valve not energized when it should be exceeded after 10 times |                                                               |
| CDd          | Cooling Off Delay (sec)                            | E03.1                   | Shorted Pressure Switch, 1st Stage                                          |                                                               |
| OdU          | Outdoor Unit                                       | E03.2                   | Open Pressure Switch, 1st Stage                                             |                                                               |
| HdU          | Heat Off Delay (sec)                               | E03.3                   | Shorted Pressure Switch, 2nd Stage                                          |                                                               |
|              |                                                    | E04                     | Open fuse                                                                   |                                                               |



D346024P01 REV C



## S9X2 Wiring Diagram

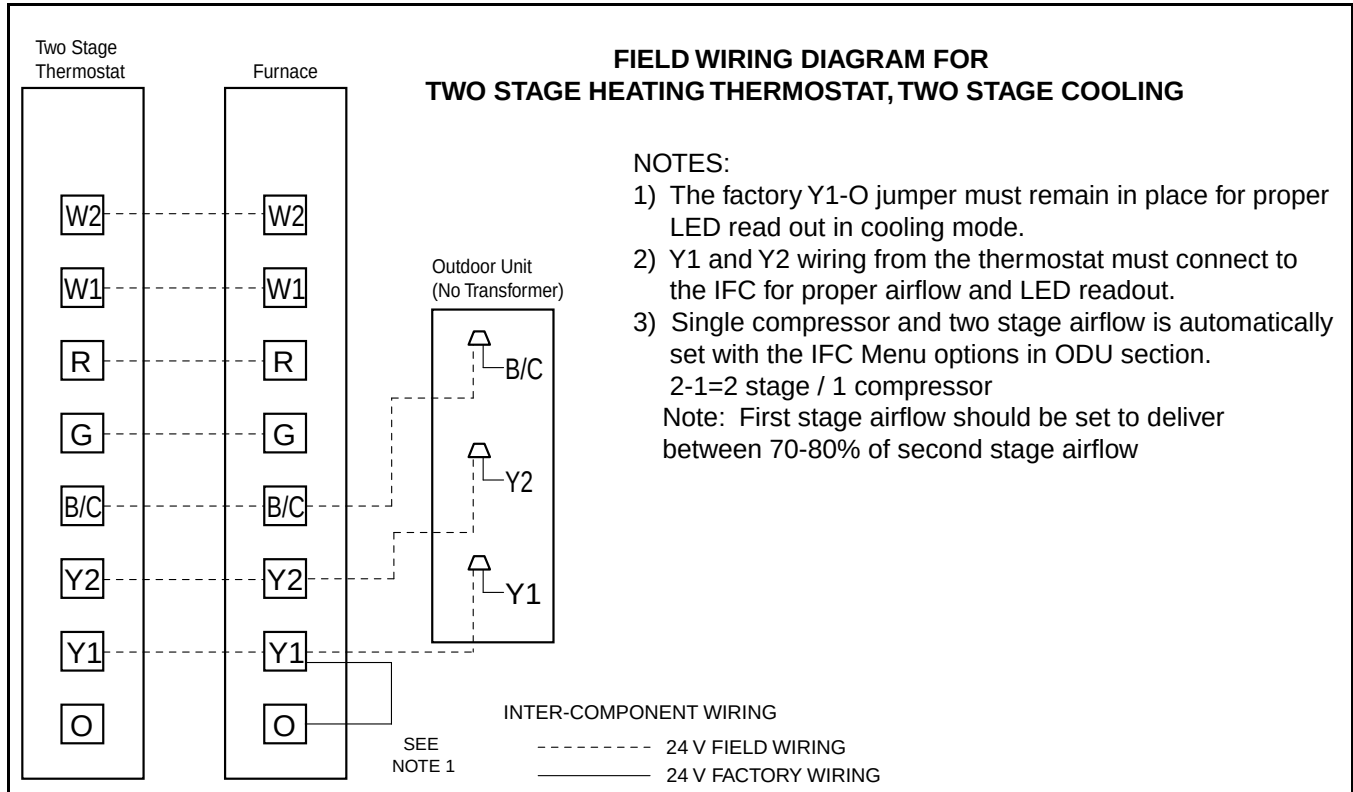


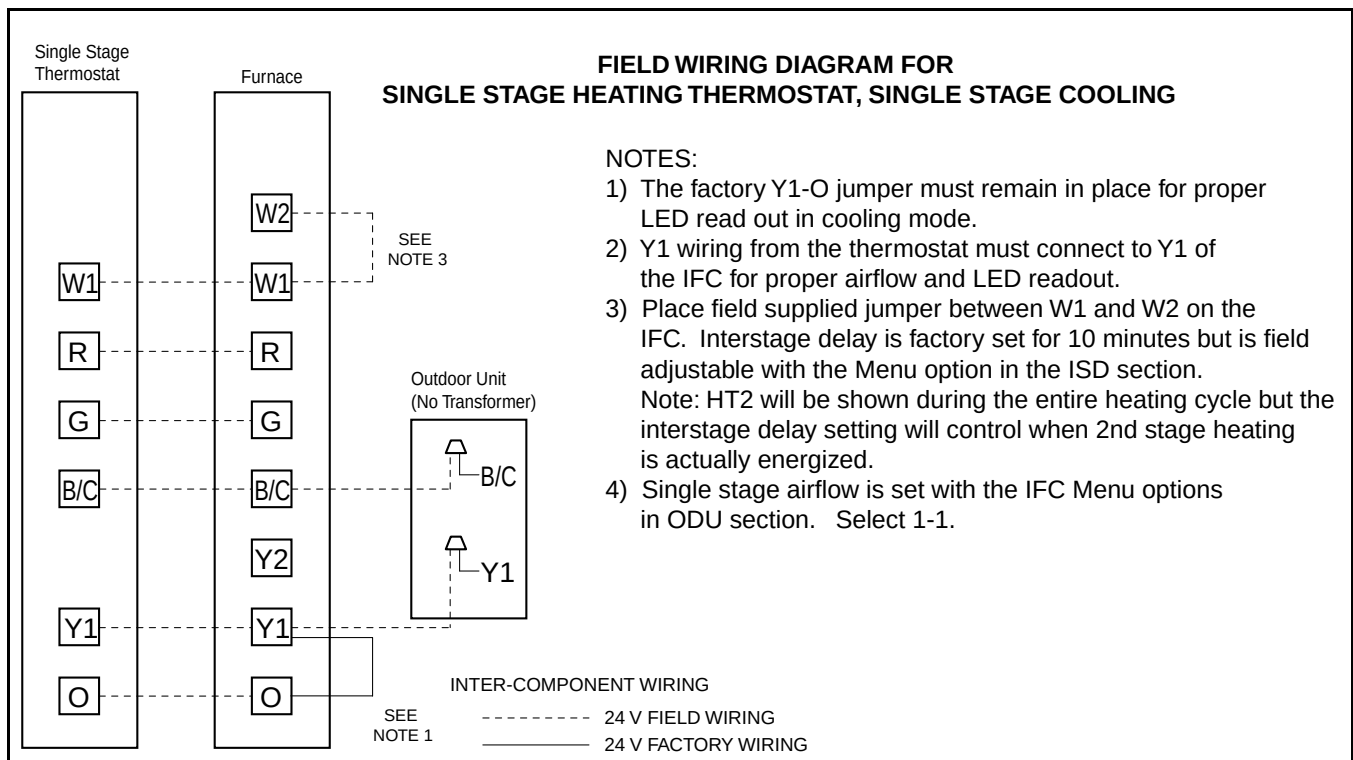
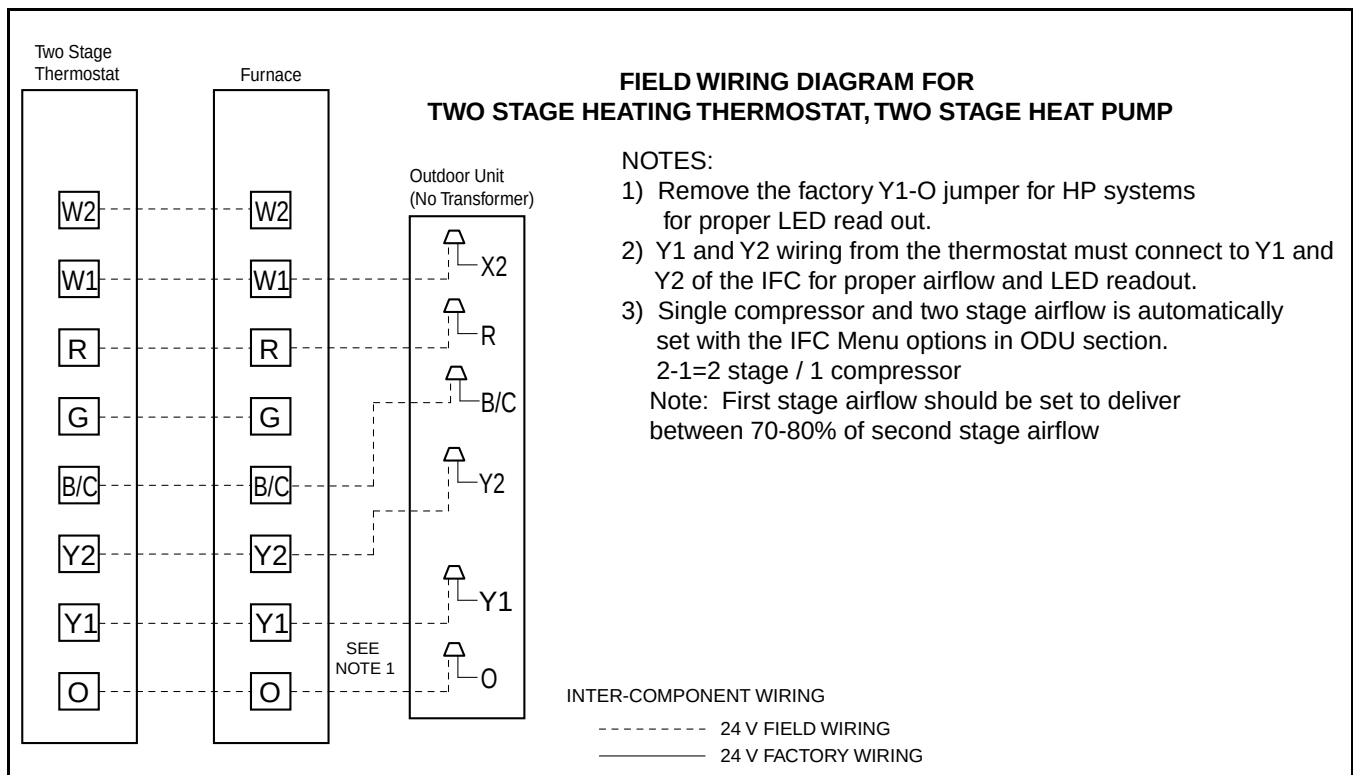


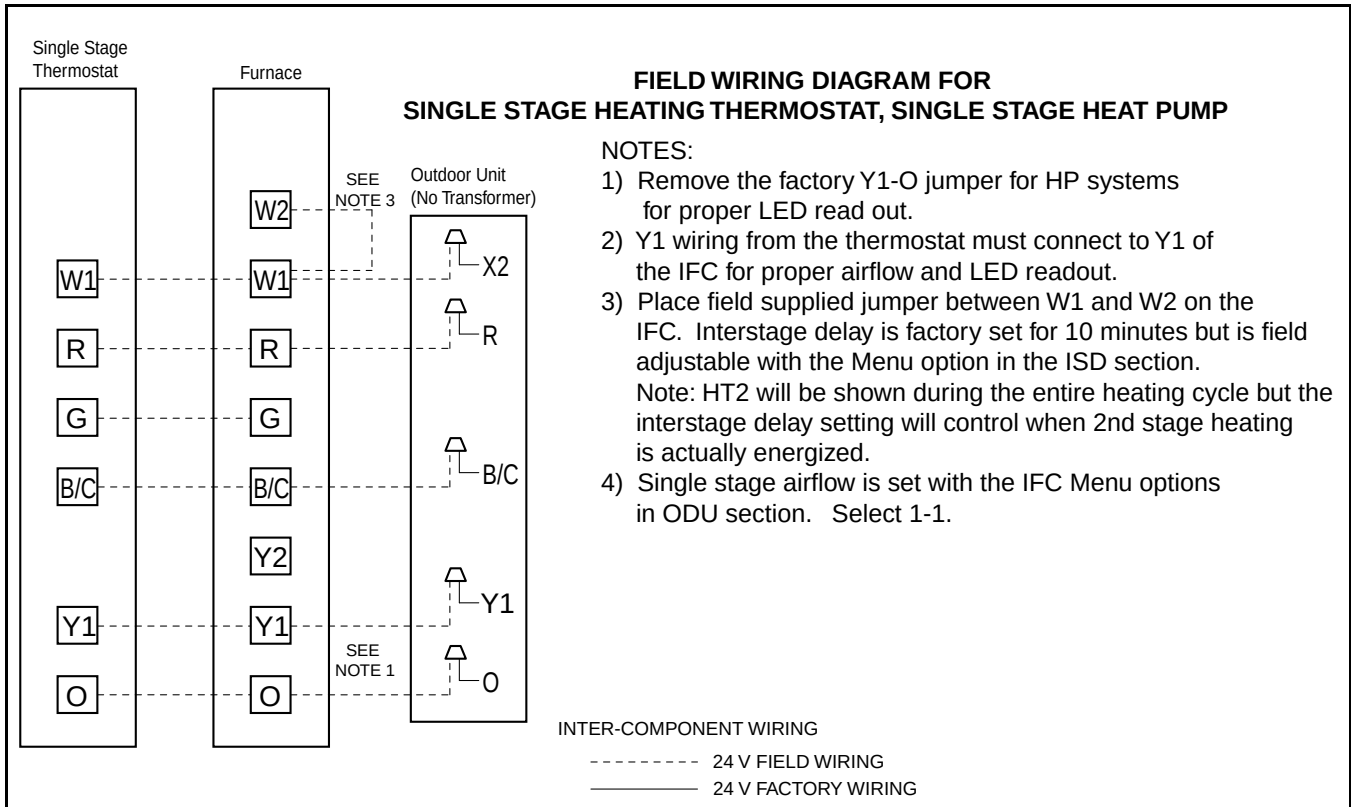
## Electrical Connections

Make wiring connections to the unit as indicated on enclosed wiring diagram. As with all gas appliances using electrical power, this furnace shall be connected into a permanently live electric circuit. It is recommended that furnace be provided with a separate "circuit protection device" electric circuit. The furnace must be electrically grounded in accordance with local codes or in the absence of local codes with the National Electrical Code, ANSI/NFPA 70 or CSA C22.1 Electrical Code, if an external electrical source is utilized. **The integrated furnace control is polarity sensitive.** The hot leg of the 120V power supply must be connected to the black power lead as indicated on the wiring diagram. Refer to the SERVICE FACTS literature and unit wiring diagram attached to furnace.

## Field Wiring

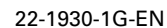








Upflow Furnace  
B Size Cabinet

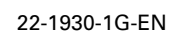




## Upflow Furnace C Size Cabinet



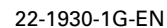
## Upflow Furnace D Size Cabinet



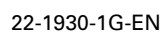
## Downflow Furnace B Size Cabinet



28



## Downflow Furnace D Size Cabinet









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