



Product Data

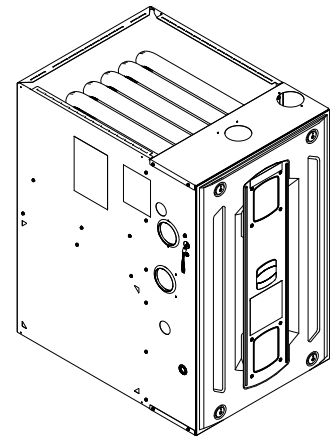
Upflow/ Horizontal Left/Right, Downflow Two Stage Condensing Gas Fired Furnace

Upflow, Convertible to Horizontal Right or Horizontal Left

S9V2B040U3PSAA
S9V2B060U3PSAA
S9V2B060U4PSAA
S9V2B080U3PSAA
S9V2B080U4PSAA
S9V2C080U5PSAA
S9V2C100U4PSAA
S9V2C100U5PSAA
S9V2D120U5PSAA

Downflow Only

S9V2B040D3PSAA
S9V2B060D3PSAA
S9V2B080D3PSAA
S9V2B080D4PSAA
S9V2C100D4PSAA
S9V2C100D5PSAA
S9V2D120D5PSAA



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



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 variable 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

96.0% AFUE ACROSS ALL 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

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

7 SKU's — Downflow

Added application flexibility and reduction in specification errors

AIRFLOW

At least 400 CFM/ton at 0.5 in. H₂O external static pressure; setup airflow options down to 290 CFM/ton

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



Features and Benefits

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

Easier to specify

Shipped ready to install (no 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 |
|-----------------------------|--|---|
| 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 | All Upflow Furnaces |
| BAYSLF1165AA ^(a) | 1" SlimFit Box with MERV 4 Filter | All Upflow Furnaces |
| BAYFLTR203 | Horizontal Filter Kit | B Cabinet Furnaces in Downflow/Horizontal |
| BAYFLTR204 | Horizontal Filter Kit | C Cabinet Furnaces in Downflow/Horizontal |
| BAYFLTR205 | Horizontal Filter Kit | D Cabinet Furnaces in Downflow/Horizontal |
| BAYLPSS400A | LP Conversion Kit with Stainless Steel Burners | All Furnaces |
| BAYMFGH200A | Manufactured/Mobile Housing Kit | All Furnaces |

^(a) Airflow greater than 1600 CFM requires dual returns



Product Specification

| MODEL | S9V2B040U3PSAA (a) | S9V2B060U3PSAA(a) | S9V2B060U4PSAA(a) | S9V2B080U3PSAA(a) |
|--|---------------------------|---------------------------|---------------------------|---------------------------|
| TYPE | Upflow/Horizontal | Upflow/Horizontal | Upflow/Horizontal | Upflow / Horizontal |
| RATINGS (b) | | | | |
| 1st Stage Input BTUH (ICS) | 26,000 | 39,000 | 39,000 | 52,000 |
| 1st Stage Capacity BTUH | 25,220 | 37,830 | 37,830 | 50,440 |
| 2nd Stage Input BTUH | 40,000 | 60,000 | 60,000 | 80,000 |
| 2nd Stage Capacity BTUH (ICS) (c)(d) | 38,800 | 58,200 | 58,200 | 77,600 |
| 1st Stage Temp. Rise (Min.-Max.) | 25 - 55 | 25 - 55 | 25 - 55 | 30 - 60 |
| 2nd Stage Temp. Rise (Min.-Max.) | 30 - 60 | 35 - 65 | 35 - 65 | 40 - 70 |
| AFUE (%) (c)(d) | 96.0 | 96.0 | 96.0 | 96.0 |
| BLOWER DRIVE | DIRECT | DIRECT | DIRECT | DIRECT |
| Diameter — Width (In.) | 11 X 8 | 11 X 8 | 11 X 8 | 11 X 8 |
| No. Used | 1 | 1 | 1 | 1 |
| Speeds (No.) | Variable | Variable | Variable | Variable |
| 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 | 1/2 | 3/4 | 1/2 |
| RPM | Variable | Variable | Variable | Variable |
| Volts/Ph/Hz | 120 / 1 / 60 | 120 / 1 / 60 | 120 / 1 / 60 | 120 / 1 / 60 |
| FLA | 5.7 | 5.7 | 8.0 | 5.7 |
| 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 — 16x25 — 1 in. |
| VENT PIPE DIAMETER — Min (in.) (e) (f) | 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 | 3 - 45 | 4 - 45 |
| LP Gas Qty. — Drill Size | 2- 56 | 3 - 56 | 3 - 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 |
| BURNERS — Type | Multiport Inshot | Multiport Inshot | Multiport Inshot | Multiport Inshot |
| Number | 2 | 3 | 3 | 4 |
| POWER CONN. — V/Ph/Hz (g) | 120 / 1 / 60 | 120 / 1 / 60 | 120 / 1 / 60 | 120 / 1 / 60 |
| Ampacity (In Amps) | 7.9 | 7.9 | 10.8 | 7.9 |



Product Specification

| MODEL | S9V2B040U3PSAA (a) | S9V2B060U3PSAA(a) | S9V2B060U4PSAA(a) | S9V2B080U3PSAA(a) |
|------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Max. Overcurrent Protection (Amps) | 15 | 15 | 15 | 15 |
| PIPE CONN. SIZE (in.) | 1/2 | 1/2 | 1/2 | 1/2 |
| DIMENSIONS | 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 17-1/2 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 19-1/2 x 30-7/8 |
| WEIGHT | | | | |
| Shipping (Lbs.)/Net (Lbs.) | 122/114 | 127/119 | 130/122 | 132/124 |

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

(f) All S9V2 furnace models have a vent outlet diameter that equals 2 in.

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

| MODEL | S9V2B080U4PSAA (a) | S9V2C080U5PSAA(a) | S9V2C100U4PSAA(a) | S9V2C100U5PSAA(a) |
|--|---------------------------|---------------------------|---------------------------|---------------------------|
| TYPE | Upflow/Horizontal | Upflow/Horizontal | Upflow/Horizontal | Upflow / Horizontal |
| RATINGS (b) | | | | |
| 1st Stage Input BTUH (ICS) | 52,000 | 52,000 | 65,000 | 65,000 |
| 1st Stage Capacity BTUH | 50,440 | 50,440 | 63,050 | 63,050 |
| 2nd Stage Input BTUH | 80,000 | 80,000 | 100,000 | 100,000 |
| 2nd Stage Capacity BTUH (ICS) (c) (d) | 77,600 | 77,600 | 97,000 | 97,000 |
| 1st Stage Temp. Rise (Min.-Max.) | 30 - 60 | 30 - 60 | 25 - 55 | 25 - 55 |
| 2nd Stage Temp. Rise (Min.-Max.) | 35 - 65 | 35 - 65 | 35 - 65 | 30 - 60 |
| AFUE (%) (c)(d) | 96.0 | 96.0 | 96.0 | 96.0 |
| BLOWER DRIVE | DIRECT | DIRECT | DIRECT | DIRECT |
| Diameter — Width (In.) | 11 X 8 | 11 X 10 | 11 X 10 | 11 X 10 |
| No. Used | 1 | 1 | 1 | 1 |
| Speeds (No.) | Variable | Variable | Variable | Variable |
| CFM vs. in. w.g. | See Fan Performance Table | See Fan Performance Table | See Fan Performance Table | See Fan Performance Table |
| Motor HP | 3/4 | 1 | 3/4 | 1 |
| RPM | Variable | Variable | Variable | Variable |
| Volts/Ph/Hz | 120 / 1 / 60 | 120 / 1 / 60 | 120 / 1 / 60 | 120 / 1 / 60 |
| FLA | 8.0 | 10.5 | 8.0 | 10.5 |
| 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 — 20x25 — 1 in. | 1 — 20x25 — 1 in. | 1 — 20x25 — 1 in. |
| VENT PIPE DIAMETER — Min (in.) (e) (f) | 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 |



Product Specification

| MODEL | S9V2B080U4PSAA (a) | S9V2C080U5PSAA(a) | S9V2C100U4PSAA(a) | S9V2C100U5PSAA(a) |
|------------------------------------|--------------------------|-----------------------|-----------------------|-----------------------|
| Gauge (Fired) | 20 | 20 | 20 | 20 |
| ORIFICES — Main | | | | |
| Nat. Gas Qty. — Drill Size | 4 - 45 | 4 - 45 | 5 - 45 | 5 - 45 |
| LP Gas Qty. — Drill Size | 4- 56 | 4- 56 | 5- 56 | 5- 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 |
| BURNERS — Type | Multiport Inshot | Multiport Inshot | Multiport Inshot | Multiport Inshot |
| Number | 4 | 4 | 5 | 5 |
| POWER CONN. — V/Ph/Hz (g) | 120 / 1 / 60 | 120 / 1 / 60 | 120 / 1 / 60 | 120 / 1 / 60 |
| Ampacity (In Amps) | 10.8 | 13.9 | 10.8 | 13.9 |
| Max. Overcurrent Protection (Amps) | 15 | 15 | 15 | 15 |
| PIPE CONN. SIZE (in.) | 1/2 | 1/2 | 1/2 | 1/2 |
| DIMENSIONS | 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 21 x 28-3/4 | 34 x 21 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 23 x 30-7/8 | 35-1/2 x 23 x 30-7/8 | 35-1/2 x 23 x 30-7/8 |
| WEIGHT | | | | |
| Shipping (Lbs.)/Net (Lbs.) | 135/127 | 149/139 | 154/144 | 155/145 |

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

(f) All S9V2 furnace models have a vent outlet diameter that equals 2 in.

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

| MODEL | S9V2D120U5PSAA (a) | S9V2B040D3PSAA(a) | S9V2B060D3PSAA(a) | S9V2B080D3PSAA(a) |
|---------------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| TYPE | Upflow/Horizontal | Downflow | Downflow | Downflow |
| RATINGS (b) | | | | |
| 1st Stage Input BTUH (ICS) | 78,000 | 26,000 | 39,000 | 52,000 |
| 1st Stage Capacity BTUH | 75,660 | 25,220 | 37,830 | 50,440 |
| 2nd Stage Input BTUH | 120,000 | 40,000 | 60,000 | 80,000 |
| 2nd Stage Capacity BTUH (ICS) (c) (d) | 116,400 | 38,800 | 58,200 | 77,600 |
| 1st Stage Temp. Rise (Min.-Max.) | 35-65 | 25 - 55 | 25 - 55 | 30 - 60 |
| 2nd Stage Temp. Rise (Min.-Max.) | 40-70 | 30 - 60 | 35 - 65 | 40 - 70 |
| AFUE (%) (c)(d) | 96.0 | 96.0 | 96.0 | 96.0 |
| BLOWER DRIVE | DIRECT | DIRECT | DIRECT | DIRECT |
| Diameter — Width (In.) | 11 X 10 | 11 X 8 | 11 X 8 | 11 X 8 |
| No. Used | 1 | 1 | 1 | 1 |
| Speeds (No.) | Variable | Variable | Variable | Variable |
| CFM vs. in. w.g. | See Fan Performance Table | See Fan Performance Table | See Fan Performance Table | See Fan Performance Table |
| Motor HP | 1 | 1/2 | 1/2 | 1/2 |
| RPM | Variable | Variable | Variable | Variable |
| Volts/Ph/Hz | 120 / 1 / 60 | 120 / 1 / 60 | 120 / 1 / 60 | 120 / 1 / 60 |
| FLA | 10.5 | 5.7 | 5.7 | 5.7 |
| COMBUSTION FAN — Type | Centrifugal | Centrifugal | Centrifugal | Centrifugal |

Product Specification

| MODEL | S9V2D120U5PSAA ^(a) | S9V2B040D3PSAA ^(a) | S9V2B060D3PSAA ^(a) | S9V2B080D3PSAA ^(a) |
|--|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| 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 — 24x25 — 1 in. | 2 — 14x20 — 1 in. | 2 — 14x20 — 1 in. | 2 — 14x20 — 1 in. |
| VENT PIPE DIAMETER — Min (in.) (e) (f) | 3 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 | 6 - 45 | 2 - 45 | 3 - 45 | 4 - 45 |
| LP Gas Qty. — Drill Size | 6 - 56 | 2 - 56 | 3 - 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 |
| BURNERS — Type | Multiport Inshot | Multiport Inshot | Multiport Inshot | Multiport Inshot |
| Number | 6 | 2 | 3 | 4 |
| POWER CONN. — V/Ph/Hz (g) | 120 / 1 / 60 | 120 / 1 / 60 | 120 / 1 / 60 | 120 / 1 / 60 |
| Ampacity (In Amps) | 13.9 | 7.9 | 7.9 | 7.9 |
| Max. Overcurrent Protection (Amps) | 15 | 15 | 15 | 15 |
| PIPE CONN. SIZE (in.) | 1/2 | 1/2 | 1/2 | 1/2 |
| DIMENSIONS | H x W x D | H x W x D | H x W x D | H x W x D |
| Uncrated (In.) | 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 | 34 x 17-1/2 x 28-3/4 |
| Crated (In.) | 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 | 35-1/2 x 19-1/2 x 30-7/8 |
| WEIGHT | | | | |
| Shipping (Lbs.)/Net (Lbs.) | 167/156 | 122/114 | 127/119 | 132/124 |

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

(f) All S9V2 furnace models have a vent outlet diameter that equals 2 in.

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



Product Specification

| MODEL | S9V2B080D4PSAA (a) | S9V2C100D4PSAA(a) | S9V2C100D5PSAA(a) | S9V2D120D5PSAA(a) |
|--|---------------------------|---------------------------|---------------------------|---------------------------|
| TYPE | Downflow | Downflow | Downflow | Downflow |
| RATINGS (b) | | | | |
| 1st Stage Input BTUH (ICS) | 52,000 | 65,000 | 65,000 | 78,000 |
| 1st Stage Capacity BTUH | 50,440 | 63,050 | 63,050 | 75,660 |
| 2nd Stage Input BTUH | 80,000 | 100,000 | 100,000 | 120,000 |
| 2nd Stage Capacity BTUH (ICS) (c) (d) | 77,600 | 97,000 | 97,000 | 116,400 |
| 1st Stage Temp. Rise (Min.-Max.) | 30 - 60 | 25 - 55 | 25 - 55 | 35-65 |
| 2nd Stage Temp. Rise (Min.-Max.) | 35 - 65 | 35 - 65 | 30 - 60 | 40-70 |
| AFUE (%) (c)(d) | 96.0 | 96.0 | 96.0 | 96.0 |
| BLOWER DRIVE | DIRECT | DIRECT | DIRECT | DIRECT |
| Diameter — Width (In.) | 11 X 8 | 11 X 10 | 11 X 10 | 11 X 10 |
| No. Used | 1 | 1 | 1 | 1 |
| Speeds (No.) | Variable | Variable | Variable | Variable |
| CFM vs. in. w.g. | See Fan Performance Table | See Fan Performance Table | See Fan Performance Table | See Fan Performance Table |
| Motor HP | 3/4 | 3/4 | 1 | 1 |
| RPM | Variable | Variable | Variable | Variable |
| Volts/Ph/Hz | 120 / 1 / 60 | 120 / 1 / 60 | 120 / 1 / 60 | 120 / 1 / 60 |
| FLA | 8.0 | 8.0 | 10.5 | 10.5 |
| 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.) | 2 — 14x20 — 1 in. | 2 — 16x20 — 1 in. | 2 — 16x20 — 1 in. | 2 — 16x20 — 1 in. |
| VENT PIPE DIAMETER — Min (in.) (e) (f) | 2 Round | 2 Round | 2 Round | 3 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 | 4 - 45 | 5 - 45 | 5 - 45 | 6 - 45 |
| LP Gas Qty. — Drill Size | 4- 56 | 5- 56 | 5- 56 | 6- 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 |
| BURNERS — Type | Multiport Inshot | Multiport Inshot | Multiport Inshot | Multiport Inshot |
| Number | 4 | 5 | 5 | 6 |
| POWER CONN. — V/Ph/Hz (g) | 120 / 1 / 60 | 120 / 1 / 60 | 120 / 1 / 60 | 120 / 1 / 60 |
| Ampacity (In Amps) | 10.8 | 10.8 | 13.9 | 13.9 |
| Max. Overcurrent Protection (Amps) | 15 | 15 | 15 | 15 |
| PIPE CONN. SIZE (in.) | 1/2 | 1/2 | 1/2 | 1/2 |



Product Specification

| MODEL | S9V2B080D4PSAA (a) | S9V2C100D4PSAA(a) | S9V2C100D5PSAA(a) | S9V2D120D5PSAA(a) |
|----------------------------|--------------------------|----------------------|----------------------|--------------------------|
| DIMENSIONS | 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 21 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 23 x 30-7/8 | 35-1/2 x 26-1/2 x 30-7/8 |
| WEIGHT | | | | |
| Shipping (Lbs.)/Net (Lbs.) | 135/127 | 154/144 | 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) Refer to the Vent Length Table in the Installer's Guide.

(f) All S9V2 furnace models have a vent outlet diameter that equals 2 in.

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



Heating and Cooling Airflow Tables

S9V2B040U3PSAA

Table 2. S9V2B040U3PSAA Heating Airflow

| S9V2B040U3PSAA Furnace Heating Airflow (CFM) and Power (Watts) vs. External Static Pressure with Filter | | | | | | | | |
|---|-----------------------|----------------|------------|--|------|------|------|------|
| | | | | 1st Stage Capacity = 25,220 2nd Stage Capacity = 38,800 | | | | |
| Heating | Airflow Setting | Target Airflow | | External Static Pressure | | | | |
| | | | | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
| Heating 1st Stage | Low | 468 | CFM | 468 | 452 | 437 | 421 | 406 |
| | | | Temp. Rise | 49 | 51 | 54 | 56 | 58 |
| | | | Watts | 27 | 58 | 90 | 121 | 152 |
| | Medium Low | 598 | CFM | 552 | 600 | 647 | 694 | 741 |
| | | | Temp. Rise | 43 | 39 | 36 | 32 | 28 |
| | | | Watts | 41 | 76 | 112 | 147 | 183 |
| | Medium ^(a) | 634 | CFM | 583 | 635 | 687 | 739 | 791 |
| | | | Temp. Rise | 39 | 36 | 33 | 30 | 27 |
| | | | Watts | 48 | 83 | 118 | 153 | 189 |
| | High | 1008 | CFM | 930 | 905 | 879 | 853 | 828 |
| | | | Temp. Rise | 25 | 25 | 26 | 27 | 27 |
| | | | Watts | 125 | 178 | 232 | 285 | 339 |
| Heating 2nd Stage | Low | 650 | CFM | 633 | 636 | 639 | 643 | 646 |
| | | | Temp. Rise | 57 | 57 | 57 | 56 | 56 |
| | | | Watts | 48 | 92 | 135 | 179 | 223 |
| | Medium Low | 830 | CFM | 760 | 786 | 813 | 840 | 866 |
| | | | Temp. Rise | 48 | 46 | 45 | 43 | 41 |
| | | | Watts | 82 | 132 | 182 | 232 | 282 |
| | Medium ^(a) | 880 | CFM | 792 | 817 | 842 | 867 | 892 |
| | | | Temp. Rise | 44 | 44 | 43 | 43 | 42 |
| | | | Watts | 94 | 142 | 189 | 237 | 284 |
| | High | 1400 | CFM | 1337 | 1269 | 1200 | 1132 | 1063 |
| | | | Temp. Rise | 27 | 29 | 31 | 32 | 34 |
| | | | Watts | 335 | 376 | 417 | 458 | 499 |

^(a) Factory Setting.

S9V2B040D3PSAA

Table 3. S9V2B040D3PSAA Heating Airflow

| S9V2B040D3PSAA Furnace Heating Airflow (CFM) and Power (Watts) vs. External Static Pressure with Filter | | | | | | | | |
|--|------------------------|-----------------------|------------|--|------------|------------|------------|------------|
| | | | | 1st Stage Capacity = 25,220 2nd Stage Capacity = 38,800 | | | | |
| Heating | Airflow Setting | Target Airflow | | External Static Pressure | | | | |
| | | | | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
| Heating 1st Stage | Low | 468 | CFM | 426 | 430 | 435 | 439 | 444 |
| | | | Temp. Rise | 54 | 54 | 53 | 53 | 52 |
| | | | Watts | 38 | 79 | 120 | 161 | 202 |
| | Medium Low | 598 | CFM | 543 | 569 | 595 | 621 | 647 |
| | | | Temp. Rise | 43 | 41 | 39 | 37 | 35 |
| | | | Watts | 66 | 125 | 184 | 243 | 303 |
| | Medium ^(a) | 634 | CFM | 611 | 612 | 614 | 616 | 618 |
| | | | Temp. Rise | 38 | 38 | 38 | 37 | 37 |
| | | | Watts | 81 | 139 | 198 | 256 | 314 |
| | High | 1008 | CFM | 923 | 918 | 914 | 909 | 904 |
| | | | Temp. Rise | 25 | 25 | 25 | 25 | 26 |
| | | | Watts | 198 | 284 | 369 | 455 | 540 |
| Heating 2nd Stage | Low | 650 | CFM | 607 | 612 | 617 | 622 | 626 |
| | | | Temp. Rise | 60 | 60 | 59 | 59 | 59 |
| | | | Watts | 78 | 124 | 170 | 216 | 261 |
| | Medium Low | 830 | CFM | 807 | 807 | 808 | 808 | 809 |
| | | | Temp. Rise | 45 | 45 | 45 | 45 | 45 |
| | | | Watts | 146 | 218 | 290 | 362 | 434 |
| | Medium ^(a) | 880 | CFM | 871 | 874 | 878 | 881 | 885 |
| | | | Temp. Rise | 42 | 42 | 42 | 41 | 41 |
| | | | Watts | 182 | 259 | 336 | 413 | 489 |
| | High | 1400 | CFM | 1307 | 1237 | 1167 | 1097 | 1028 |
| | | | Temp. Rise | 28 | 30 | 32 | 33 | 35 |
| | | | Watts | 492 | 526 | 560 | 593 | 627 |

^(a) Factory Setting.



Heating and Cooling Airflow Tables

S9V2B040U3PSAA / S9V2B040D3PSAA

Table 4. S9V2B040U3PSAA / S9V2B040D3PSAA Cooling Airflow

| S9V2B040U3PSAA / S9V2B040D3PSAA Furnace Cooling Airflow (CFM) and Power (Watts) vs. External Static Pressure with Filter | | | | | | | | |
|--|--------------|---------------------------|-------|--------------------------|-----|-----|-----|-----|
| Cooling | Unit Outdoor | Airflow Setting (CFM/Ton) | | External Static Pressure | | | | |
| | | | | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
| Cooling | 1.5 Ton | Cooling 450 CFM/Ton | CFM | 675 | 675 | 675 | 675 | 675 |
| | | | Watts | 47 | 81 | 121 | 166 | 215 |
| | | Cooling 420 CFM/Ton | CFM | 630 | 630 | 630 | 630 | 630 |
| | | | Watts | 40 | 72 | 111 | 154 | 202 |
| | | Cooling 400 CFM/Ton | CFM | 600 | 600 | 600 | 600 | 600 |
| | | | Watts | 36 | 67 | 105 | 147 | 193 |
| | | Cooling 370 CFM/Ton | CFM | 555 | 555 | 555 | 555 | 555 |
| | | | Watts | 30 | 60 | 96 | 136 | 181 |
| | | Cooling 350 CFM/Ton | CFM | 525 | 525 | 525 | 525 | 525 |
| | | | Watts | 27 | 56 | 90 | 130 | 174 |
| | | Cooling 330 CFM/Ton | CFM | 495 | 495 | 495 | 495 | 495 |
| | | | Watts | 24 | 51 | 85 | 124 | 167 |
| | | Cooling 310 CFM/Ton | CFM | 465 | 465 | 465 | 465 | 465 |
| | | | Watts | 21 | 48 | 80 | 118 | 161 |
| | | Cooling 290 CFM/Ton | CFM | 435 | 435 | 435 | 435 | 435 |
| | | | Watts | 19 | 44 | 76 | 113 | 155 |
| Cooling | 2.0 Ton | Cooling 450 CFM/Ton | CFM | 900 | 900 | 900 | 900 | 900 |
| | | | Watts | 94 | 137 | 186 | 240 | 298 |
| | | Cooling 420 CFM/Ton | CFM | 840 | 840 | 840 | 840 | 840 |
| | | | Watts | 79 | 120 | 166 | 218 | 273 |
| | | Cooling 400 CFM/Ton | CFM | 800 | 800 | 800 | 800 | 800 |
| | | | Watts | 70 | 109 | 154 | 204 | 258 |
| | | Cooling 370 CFM/Ton | CFM | 740 | 740 | 740 | 740 | 740 |
| | | | Watts | 58 | 95 | 138 | 185 | 236 |
| | | Cooling 350 CFM/Ton | CFM | 700 | 700 | 700 | 700 | 700 |
| | | | Watts | 51 | 86 | 127 | 173 | 223 |
| | | Cooling 330 CFM/Ton | CFM | 660 | 660 | 660 | 660 | 660 |
| | | | Watts | 44 | 78 | 118 | 162 | 211 |
| | | Cooling 310 CFM/Ton | CFM | 620 | 620 | 620 | 620 | 620 |
| | | | Watts | 38 | 71 | 109 | 152 | 199 |
| | | Cooling 290 CFM/Ton | CFM | 580 | 580 | 580 | 580 | 580 |
| | | | Watts | 33 | 64 | 101 | 142 | 188 |

Heating and Cooling Airflow Tables

Table 4. S9V2B040U3PSAA / S9V2B040D3PSAA Cooling Airflow (continued)

| S9V2B040U3PSAA / S9V2B040D3PSAA Furnace Cooling Airflow (CFM) and Power (Watts) vs. External Static Pressure with Filter | | | | | | | | |
|---|------------------------|------------------------------------|-------|--------------------------|------|------|------|------|
| Cooling | Unit Outdoor | Airflow Setting (CFM/ton) | | External Static Pressure | | | | |
| | | | | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
| Cooling | 2.5 Ton | Cooling 450 CFM/Ton | CFM | 1125 | 1125 | 1125 | 1125 | 1125 |
| | | | Watts | 167 | 219 | 278 | 341 | 408 |
| | | Cooling 420 CFM/Ton | CFM | 1050 | 1050 | 1050 | 1050 | 1050 |
| | | | Watts | 139 | 188 | 244 | 304 | 368 |
| | | Cooling 400 CFM/Ton | CFM | 1000 | 1000 | 1000 | 1000 | 1000 |
| | | | Watts | 123 | 170 | 223 | 281 | 343 |
| | | Cooling 370 CFM/Ton | CFM | 925 | 925 | 925 | 925 | 925 |
| | | | Watts | 100 | 145 | 195 | 250 | 308 |
| | | Cooling 350 CFM/Ton | CFM | 875 | 875 | 875 | 875 | 875 |
| | | | Watts | 87 | 129 | 178 | 230 | 287 |
| | | Cooling 330 CFM/Ton | CFM | 825 | 825 | 825 | 825 | 825 |
| | | | Watts | 121 | 160 | 205 | 254 | 308 |
| | | Cooling 310 CFM/Ton | CFM | 775 | 775 | 775 | 775 | 775 |
| | | | Watts | 101 | 139 | 182 | 229 | 281 |
| | | Cooling 290 CFM/Ton | CFM | 725 | 725 | 725 | 725 | 725 |
| | | | Watts | 88 | 123 | 164 | 210 | 260 |
| Cooling | 3.0 Ton ^(a) | Cooling 450 CFM/Ton | CFM | 1350 | 1350 | 1350 | 1298 | 1198 |
| | | | Watts | 272 | 334 | 402 | 440 | 450 |
| | | Cooling 420 CFM/Ton | CFM | 1260 | 1260 | 1260 | 1260 | 1198 |
| | | | Watts | 226 | 284 | 348 | 417 | 450 |
| | | Cooling 400 CFM/Ton | CFM | 1200 | 1200 | 1200 | 1200 | 1198 |
| | | | Watts | 198 | 254 | 315 | 381 | 450 |
| | | Cooling 370 CFM/Ton | CFM | 1110 | 1110 | 1110 | 1110 | 1110 |
| | | | Watts | 161 | 213 | 271 | 333 | 399 |
| | | Cooling 350 CFM/Ton ^(a) | CFM | 1050 | 1050 | 1050 | 1050 | 1050 |
| | | | Watts | 139 | 188 | 244 | 304 | 368 |
| | | Cooling 330 CFM/Ton | CFM | 990 | 990 | 990 | 990 | 990 |
| | | | Watts | 119 | 166 | 219 | 277 | 338 |
| | | Cooling 310 CFM/Ton | CFM | 930 | 930 | 930 | 930 | 930 |
| | | | Watts | 102 | 146 | 197 | 252 | 311 |
| | | Cooling 290 CFM/Ton | CFM | 870 | 870 | 870 | 870 | 870 |
| | | | Watts | 86 | 128 | 176 | 229 | 285 |

^(a) Factory Setting



Heating and Cooling Airflow Tables

S9V2B060U3PSAA

Table 5. S9V2B060U3PSAA Heating Airflow

| S9V2B060U3PSAA Furnace Heating Airflow (CFM) and Power (Watts) vs. External Static Pressure with Filter | | | | | | | | |
|---|---------------------------|----------------|------------|--|------|------|------|------|
| | | | | 1st Stage Capacity = 37,830 2nd Stage Capacity = 58,200 | | | | |
| Heating | Airflow Setting | Target Airflow | | External Static Pressure | | | | |
| | | | | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
| Heating 1st Stage | Low | 632 | CFM | 673 | 675 | 677 | 679 | 681 |
| | | | Temp. Rise | 52 | 52 | 52 | 52 | 52 |
| | | | Watts | 47 | 83 | 120 | 156 | 193 |
| | Medium Low ^(a) | 814 | CFM | 850 | 827 | 804 | 780 | 757 |
| | | | Temp. Rise | 41 | 42 | 43 | 44 | 45 |
| | | | Watts | 82 | 120 | 157 | 195 | 232 |
| | Medium | 893 | CFM | 901 | 903 | 905 | 907 | 909 |
| | | | Temp. Rise | 39 | 39 | 39 | 39 | 39 |
| | | | Watts | 106 | 144 | 181 | 219 | 256 |
| | High | 1153 | CFM | 1131 | 1121 | 1112 | 1102 | 1093 |
| | | | Temp. Rise | 32 | 31 | 31 | 31 | 31 |
| | | | Watts | 209 | 250 | 291 | 332 | 373 |
| Heating 2nd Stage | Low | 800 | CFM | 850 | 844 | 838 | 833 | 827 |
| | | | Temp. Rise | 63 | 63 | 64 | 64 | 65 |
| | | | Watts | 75 | 120 | 165 | 210 | 255 |
| | Medium Low ^(a) | 1030 | CFM | 1072 | 1061 | 1049 | 1038 | 1027 |
| | | | Temp. Rise | 50 | 50 | 51 | 52 | 52 |
| | | | Watts | 147 | 196 | 244 | 293 | 341 |
| | Medium | 1130 | CFM | 1115 | 1127 | 1138 | 1149 | 1160 |
| | | | Temp. Rise | 48 | 48 | 48 | 47 | 47 |
| | | | Watts | 193 | 246 | 300 | 354 | 408 |
| | High | 1460 | CFM | 1382 | 1336 | 1289 | 1243 | 1196 |
| | | | Temp. Rise | 39 | 40 | 42 | 43 | 45 |
| | | | Watts | 382 | 400 | 418 | 435 | 453 |

^(a) Factory Setting.

S9V2B060D3PSAA

Table 6. S9V2B060D3PSAA Heating Airflow

| S9V2B060D3PSAA Furnace Heating Airflow (CFM) and Power (Watts) vs. External Static Pressure with Filter | | | | | | | | |
|--|------------------------|-----------------------|------------|--|------------|------------|------------|------------|
| | | | | 1st Stage Capacity = 37,830 2nd Stage Capacity = 58,200 | | | | |
| Heating | Airflow Setting | Target Airflow | | External Static Pressure | | | | |
| | | | | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
| Heating 1st Stage | Low | 632 | CFM | 562 | 527 | 491 | 456 | 421 |
| | | | Temp. Rise | 62 | 66 | 70 | 74 | 78 |
| | | | Watts | 40 | 73 | 105 | 138 | 171 |
| | Medium Low (a) | 814 | CFM | 723 | 678 | 633 | 587 | 542 |
| | | | Temp. Rise | 49 | 50 | 51 | 52 | 53 |
| | | | Watts | 61 | 94 | 126 | 159 | 192 |
| | Medium | 893 | CFM | 793 | 744 | 694 | 645 | 595 |
| | | | Temp. Rise | 44 | 47 | 50 | 52 | 55 |
| | | | Watts | 90 | 133 | 176 | 219 | 263 |
| | High | 1153 | CFM | 1025 | 961 | 897 | 833 | 769 |
| | | | Temp. Rise | 34 | 36 | 38 | 41 | 43 |
| | | | Watts | 175 | 229 | 282 | 336 | 390 |
| Heating 2nd Stage | Low | 800 | CFM | 866 | 797 | 728 | 660 | 591 |
| | | | Temp. Rise | 61 | 67 | 73 | 79 | 85 |
| | | | Watts | 67 | 109 | 152 | 194 | 236 |
| | Medium Low (a) | 1030 | CFM | 1115 | 1026 | 938 | 849 | 761 |
| | | | Temp. Rise | 49 | 53 | 56 | 59 | 62 |
| | | | Watts | 118 | 190 | 261 | 332 | 403 |
| | Medium | 1130 | CFM | 1223 | 1126 | 1029 | 932 | 834 |
| | | | Temp. Rise | 43 | 47 | 52 | 56 | 60 |
| | | | Watts | 163 | 219 | 275 | 331 | 387 |
| | High | 1460 | CFM | 1580 | 1455 | 1329 | 1204 | 1078 |
| | | | Temp. Rise | 34 | 37 | 40 | 43 | 46 |
| | | | Watts | 328 | 398 | 467 | 537 | 607 |

(a) Factory Setting.



Heating and Cooling Airflow Tables

S9V2B060U3PSAA / S9V2B060D3PSAA

Table 7. S9V2B060U3PSAA / S9V2B060D3PSAA Cooling Airflow

| S9V2B060U3PSAA / S9V2B060D3PSAA Furnace Cooling Airflow (CFM) and Power (Watts) vs. External Static Pressure with Filter | | | | | | | | |
|--|--------------|---------------------------|-------|--------------------------|-----|-----|-----|-----|
| Cooling | Unit Outdoor | Airflow Setting (CFM/Ton) | | External Static Pressure | | | | |
| | | | | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
| Cooling | 1.5 Ton | Cooling 450 CFM/Ton | CFM | 675 | 675 | 675 | 675 | 675 |
| | | | Watts | 46 | 81 | 121 | 165 | 212 |
| | | Cooling 420 CFM/Ton | CFM | 630 | 630 | 630 | 630 | 630 |
| | | | Watts | 40 | 72 | 111 | 153 | 200 |
| | | Cooling 400 CFM/Ton | CFM | 600 | 600 | 600 | 600 | 600 |
| | | | Watts | 36 | 67 | 105 | 146 | 192 |
| | | Cooling 370 CFM/Ton | CFM | 555 | 555 | 555 | 555 | 555 |
| | | | Watts | 30 | 60 | 96 | 137 | 182 |
| | | Cooling 350 CFM/Ton | CFM | 525 | 525 | 525 | 525 | 525 |
| | | | Watts | 27 | 56 | 91 | 131 | 175 |
| | | Cooling 330 CFM/Ton | CFM | 495 | 495 | 495 | 495 | 495 |
| | | | Watts | 24 | 52 | 86 | 126 | 170 |
| | | Cooling 310 CFM/Ton | CFM | 465 | 465 | 465 | 465 | 465 |
| | | | Watts | 21 | 48 | 82 | 121 | 164 |
| | | Cooling 290 CFM/Ton | CFM | 435 | 435 | 435 | 435 | 435 |
| | | | Watts | 19 | 45 | 78 | 116 | 160 |
| Cooling | 2.0 Ton | Cooling 450 CFM/Ton | CFM | 900 | 900 | 900 | 900 | 900 |
| | | | Watts | 92 | 135 | 184 | 236 | 291 |
| | | Cooling 420 CFM/Ton | CFM | 840 | 840 | 840 | 840 | 840 |
| | | | Watts | 78 | 118 | 164 | 214 | 267 |
| | | Cooling 400 CFM/Ton | CFM | 800 | 800 | 800 | 800 | 800 |
| | | | Watts | 69 | 108 | 153 | 201 | 253 |
| | | Cooling 370 CFM/Ton | CFM | 740 | 740 | 740 | 740 | 740 |
| | | | Watts | 57 | 94 | 136 | 183 | 232 |
| | | Cooling 350 CFM/Ton | CFM | 700 | 700 | 700 | 700 | 700 |
| | | | Watts | 50 | 86 | 126 | 171 | 220 |
| | | Cooling 330 CFM/Ton | CFM | 660 | 660 | 660 | 660 | 660 |
| | | | Watts | 44 | 78 | 117 | 161 | 208 |
| | | Cooling 310 CFM/Ton | CFM | 620 | 620 | 620 | 620 | 620 |
| | | | Watts | 38 | 71 | 109 | 151 | 197 |
| | | Cooling 290 CFM/Ton | CFM | 580 | 580 | 580 | 580 | 580 |
| | | | Watts | 33 | 64 | 101 | 142 | 187 |

Heating and Cooling Airflow Tables

Table 7. S9V2B060U3PSAA / S9V2B060D3PSAA Cooling Airflow (continued)

| S9V2B060U3PSAA / S9V2B060D3PSAA Furnace Cooling Airflow (CFM) and Power (Watts) vs. External Static Pressure with Filter | | | | | | | | |
|---|------------------------|------------------------------------|-------|---------------------------------|------------|------------|------------|------------|
| Cooling | Unit Outdoor | Airflow Setting (CFM/ton) | | External Static Pressure | | | | |
| | | | | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
| Cooling | 2.5 Ton | Cooling 450 CFM/Ton | CFM | 1125 | 1125 | 1125 | 1125 | 1125 |
| | | | Watts | 164 | 216 | 273 | 334 | 399 |
| | | Cooling 420 CFM/Ton | CFM | 1050 | 1050 | 1050 | 1050 | 1050 |
| | | | Watts | 137 | 186 | 240 | 298 | 359 |
| | | Cooling 400 CFM/Ton | CFM | 1000 | 1000 | 1000 | 1000 | 1000 |
| | | | Watts | 121 | 168 | 220 | 276 | 335 |
| | | Cooling 370 CFM/Ton | CFM | 925 | 925 | 925 | 925 | 925 |
| | | | Watts | 99 | 143 | 192 | 245 | 302 |
| | | Cooling 350 CFM/Ton | CFM | 875 | 875 | 875 | 875 | 875 |
| | | | Watts | 86 | 128 | 175 | 227 | 281 |
| | | Cooling 330 CFM/Ton | CFM | 825 | 825 | 825 | 825 | 825 |
| | | | Watts | 74 | 115 | 160 | 209 | 262 |
| | | Cooling 310 CFM/Ton | CFM | 775 | 775 | 775 | 775 | 775 |
| | | | Watts | 64 | 102 | 146 | 193 | 244 |
| | | Cooling 290 CFM/Ton | CFM | 725 | 725 | 725 | 725 | 725 |
| | | | Watts | 54 | 91 | 133 | 178 | 228 |
| Cooling | 3.0 Ton ^(a) | Cooling 450 CFM/Ton | CFM | 1350 | 1350 | 1350 | 1296 | 1218 |
| | | | Watts | 267 | 329 | 395 | 431 | 452 |
| | | Cooling 420 CFM/Ton | CFM | 1260 | 1260 | 1260 | 1260 | 1218 |
| | | | Watts | 222 | 279 | 342 | 409 | 452 |
| | | Cooling 400 CFM/Ton | CFM | 1200 | 1200 | 1200 | 1200 | 1200 |
| | | | Watts | 195 | 250 | 310 | 374 | 441 |
| | | Cooling 370 CFM/Ton | CFM | 1110 | 1110 | 1110 | 1110 | 1110 |
| | | | Watts | 158 | 210 | 266 | 327 | 390 |
| | | Cooling 350 CFM/Ton ^(a) | CFM | 1050 | 1050 | 1050 | 1050 | 1050 |
| | | | Watts | 137 | 186 | 240 | 298 | 359 |
| | | Cooling 330 CFM/Ton | CFM | 990 | 990 | 990 | 990 | 990 |
| | | | Watts | 118 | 164 | 216 | 272 | 330 |
| | | Cooling 310 CFM/Ton | CFM | 930 | 930 | 930 | 930 | 930 |
| | | | Watts | 100 | 145 | 194 | 247 | 304 |
| | | Cooling 290 CFM/Ton | CFM | 870 | 870 | 870 | 870 | 870 |
| | | | Watts | 85 | 127 | 174 | 225 | 279 |

^(a) Factory Setting



Heating and Cooling Airflow Tables

S9V2B060U4PSAA

Table 8. S9V2B060U4PSAA Heating Airflow

| S9V2B060U4PSAA Furnace Heating Airflow (CFM) and Power (Watts) vs. External Static Pressure with Filter | | | | | | | | |
|---|-----------------------|----------------|------------|--|------|------|------|------|
| | | | | 1st Stage Capacity = 37,830 2nd Stage Capacity = 58,200 | | | | |
| Heating | Airflow Setting | Target Airflow | | External Static Pressure | | | | |
| | | | | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
| Heating 1st Stage | Low | 782 | CFM | 765 | 755 | 745 | 736 | 726 |
| | | | Temp. Rise | 46 | 47 | 47 | 48 | 49 |
| | | | Watts | 75 | 120 | 166 | 212 | 258 |
| | Medium Low | 861 | CFM | 817 | 812 | 807 | 802 | 797 |
| | | | Temp. Rise | 43 | 43 | 44 | 44 | 44 |
| | | | Watts | 91 | 140 | 188 | 237 | 286 |
| | Medium ^(a) | 916 | CFM | 860 | 856 | 852 | 848 | 844 |
| | | | Temp. Rise | 41 | 41 | 41 | 41 | 42 |
| | | | Watts | 102 | 153 | 204 | 256 | 307 |
| | High | 1256 | CFM | 1111 | 1109 | 1107 | 1105 | 1103 |
| | | | Temp. Rise | 32 | 32 | 32 | 32 | 32 |
| | | | Watts | 227 | 291 | 355 | 419 | 484 |
| Heating 2nd Stage | Low | 990 | CFM | 950 | 945 | 941 | 936 | 932 |
| | | | Temp. Rise | 56 | 56 | 57 | 57 | 58 |
| | | | Watts | 119 | 171 | 224 | 277 | 330 |
| | Medium Low | 1090 | CFM | 1022 | 1021 | 1020 | 1018 | 1017 |
| | | | Temp. Rise | 52 | 52 | 52 | 53 | 53 |
| | | | Watts | 147 | 202 | 257 | 312 | 367 |
| | Medium ^(a) | 1160 | CFM | 1086 | 1084 | 1081 | 1079 | 1077 |
| | | | Temp. Rise | 49 | 49 | 49 | 50 | 50 |
| | | | Watts | 181 | 239 | 297 | 356 | 414 |
| | High | 1590 | CFM | 1478 | 1459 | 1441 | 1422 | 1404 |
| | | | Temp. Rise | 36 | 37 | 37 | 38 | 38 |
| | | | Watts | 434 | 496 | 558 | 620 | 682 |

^(a) Factory Setting.

S9V2B060U4PSAA

Table 9. S9V2B060U4PSAA Cooling Airflow

| S9V2B060U4PSAA Furnace Cooling Airflow (CFM) and Power (Watts) vs. External Static Pressure with Filter | | | | | | | | | | |
|---|--------------|---------------------------|---------|--------------------------|-------|------|------|------|------|------|
| Cooling | Unit Outdoor | Airflow Setting (CFM/Ton) | | External Static Pressure | | | | | | |
| | | | | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 | | |
| Cooling | 2.5 Ton | Cooling 450 CFM/Ton | CFM | 1125 | 1125 | 1125 | 1125 | 1125 | | |
| | | | Watts | 154 | 205 | 261 | 319 | 381 | | |
| | | Cooling 420 CFM/Ton | CFM | 1050 | 1050 | 1050 | 1050 | 1050 | | |
| | | | Watts | 128 | 177 | 229 | 285 | 343 | | |
| | | Cooling 400 CFM/Ton | CFM | 1000 | 1000 | 1000 | 1000 | 1000 | | |
| | | | Watts | 113 | 159 | 210 | 264 | 320 | | |
| | | Cooling 370 CFM/Ton | CFM | 925 | 925 | 925 | 925 | 925 | | |
| | | | Watts | 93 | 136 | 184 | 234 | 288 | | |
| | | Cooling 350 CFM/Ton | CFM | 875 | 875 | 875 | 875 | 875 | | |
| | | | Watts | 81 | 122 | 168 | 217 | 269 | | |
| | | Cooling 330 CFM/Ton | CFM | 825 | 825 | 825 | 825 | 825 | | |
| | | | Watts | 70 | 109 | 153 | 200 | 251 | | |
| | | Cooling 310 CFM/Ton | CFM | 775 | 775 | 775 | 775 | 775 | | |
| | | | Watts | 60 | 97 | 139 | 185 | 234 | | |
| | | Cooling 290 CFM/Ton | CFM | 725 | 725 | 725 | 725 | 725 | | |
| | | | Watts | 51 | 87 | 127 | 171 | 219 | | |
| | | Cooling | 3.0 Ton | Cooling 450 CFM/Ton | CFM | 1350 | 1350 | 1350 | 1350 | 1350 |
| | | | | | Watts | 250 | 312 | 377 | 445 | 515 |
| Cooling 420 CFM/Ton | CFM | | | 1260 | 1260 | 1260 | 1260 | 1260 | | |
| | Watts | | | 208 | 265 | 326 | 390 | 457 | | |
| Cooling 400 CFM/Ton | CFM | | | 1200 | 1200 | 1200 | 1200 | 1200 | | |
| | Watts | | | 182 | 237 | 296 | 357 | 422 | | |
| Cooling 370 CFM/Ton | CFM | | | 1110 | 1110 | 1110 | 1110 | 1110 | | |
| | Watts | | | 148 | 199 | 254 | 312 | 373 | | |
| Cooling 350 CFM/Ton | CFM | | | 1050 | 1050 | 1050 | 1050 | 1050 | | |
| | Watts | | | 128 | 177 | 229 | 285 | 343 | | |
| Cooling 330 CFM/Ton | CFM | | | 990 | 990 | 990 | 990 | 990 | | |
| | Watts | | | 110 | 156 | 206 | 260 | 316 | | |
| Cooling 310 CFM/Ton | CFM | | | 930 | 930 | 930 | 930 | 930 | | |
| | Watts | | | 94 | 138 | 185 | 236 | 290 | | |
| Cooling 290 CFM/Ton | CFM | | | 870 | 870 | 870 | 870 | 870 | | |
| | Watts | | | 80 | 121 | 166 | 215 | 267 | | |



Heating and Cooling Airflow Tables

Table 9. S9V2B060U4PSAA Cooling Airflow (continued)

| S9V2B060U4PSAA Furnace Cooling Airflow (CFM) and Power (Watts) vs. External Static Pressure with Filter | | | | | | | | |
|---|------------------------|------------------------------------|-------|--------------------------|------|------|------|------|
| Cooling | Unit Outdoor | Airflow Setting (CFM/Ton) | | External Static Pressure | | | | |
| | | | | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
| Cooling | 3.5 Ton | Cooling 450 CFM/Ton | CFM | 1575 | 1575 | 1575 | 1575 | 1575 |
| | | | Watts | 382 | 453 | 528 | 606 | 686 |
| | | Cooling 420 CFM/Ton | CFM | 1470 | 1470 | 1470 | 1470 | 1470 |
| | | | Watts | 316 | 382 | 453 | 526 | 602 |
| | | Cooling 400 CFM/Ton | CFM | 1400 | 1400 | 1400 | 1400 | 1400 |
| | | | Watts | 276 | 340 | 407 | 477 | 550 |
| | | Cooling 370 CFM/Ton | CFM | 1295 | 1295 | 1295 | 1295 | 1295 |
| | | | Watts | 224 | 283 | 345 | 411 | 479 |
| | | Cooling 350 CFM/Ton | CFM | 1225 | 1225 | 1225 | 1225 | 1225 |
| | | | Watts | 193 | 249 | 308 | 371 | 436 |
| | | Cooling 330 CFM/Ton | CFM | 1155 | 1155 | 1155 | 1155 | 1155 |
| | | | Watts | 165 | 218 | 274 | 334 | 397 |
| | | Cooling 310 CFM/Ton | CFM | 1085 | 1085 | 1085 | 1085 | 1085 |
| | | | Watts | 140 | 190 | 243 | 301 | 360 |
| | | Cooling 290 CFM/Ton | CFM | 1015 | 1015 | 1015 | 1015 | 1015 |
| | | | Watts | 118 | 165 | 216 | 270 | 327 |
| Cooling | 4.0 Ton ^(a) | Cooling 450 CFM/Ton | CFM | 1800 | 1800 | 1730 | 1670 | 1600 |
| | | | Watts | 554 | 636 | 656 | 686 | 708 |
| | | Cooling 420 CFM/Ton | CFM | 1680 | 1680 | 1680 | 1670 | 1600 |
| | | | Watts | 457 | 533 | 613 | 686 | 708 |
| | | Cooling 400 CFM/Ton | CFM | 1600 | 1600 | 1600 | 1600 | 1600 |
| | | | Watts | 399 | 472 | 548 | 626 | 708 |
| | | Cooling 370 CFM/Ton | CFM | 1480 | 1480 | 1480 | 1480 | 1480 |
| | | | Watts | 322 | 389 | 459 | 533 | 609 |
| | | Cooling 350 CFM/Ton ^(a) | CFM | 1400 | 1400 | 1400 | 1400 | 1400 |
| | | | Watts | 276 | 340 | 407 | 477 | 550 |
| | | Cooling 330 CFM/Ton | CFM | 1320 | 1320 | 1320 | 1320 | 1320 |
| | | | Watts | 236 | 296 | 359 | 426 | 495 |
| | | Cooling 310 CFM/Ton | CFM | 1240 | 1240 | 1240 | 1240 | 1240 |
| | | | Watts | 199 | 256 | 316 | 379 | 445 |
| | | Cooling 290 CFM/Ton | CFM | 1160 | 1160 | 1160 | 1160 | 1160 |
| | | | Watts | 167 | 220 | 277 | 337 | 399 |

^(a) Factory Setting

S9V2B080U3PSAA

Table 10. S9V2B080U3PSAA Heating Airflow

| S9V2B080U3PSAA Furnace Heating Airflow (CFM) and Power (Watts) vs. External Static Pressure with Filter | | | | | | | | |
|--|------------------------|-----------------------|------------|--|------------|------------|------------|------------|
| | | | | 1st Stage Capacity = 50,440 2nd Stage Capacity = 77,600 | | | | |
| Heating | Airflow Setting | Target Airflow | | External Static Pressure | | | | |
| | | | | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
| Heating 1st Stage | Low | 948 | CFM | 1070 | 1030 | 990 | 950 | 910 |
| | | | Temp. Rise | 45 | 45 | 46 | 46 | 46 |
| | | | Watts | 120 | 162 | 203 | 245 | 286 |
| | Medium Low | 1051 | CFM | 1109 | 1061 | 1013 | 965 | 917 |
| | | | Temp. Rise | 42 | 44 | 46 | 47 | 49 |
| | | | Watts | 143 | 197 | 252 | 307 | 361 |
| | Medium ^(a) | 1090 | CFM | 1188 | 1125 | 1062 | 998 | 935 |
| | | | Temp. Rise | 40 | 42 | 43 | 45 | 47 |
| | | | Watts | 154 | 215 | 276 | 336 | 397 |
| | High | 1168 | CFM | 1230 | 1212 | 1193 | 1174 | 1156 |
| | | | Temp. Rise | 38 | 39 | 39 | 40 | 41 |
| | | | Watts | 194 | 246 | 297 | 349 | 401 |
| Heating 2nd Stage | Low | 1200 | CFM | 1331 | 1293 | 1256 | 1218 | 1172 |
| | | | Temp. Rise | 55 | 56 | 57 | 58 | 61 |
| | | | Watts | 221 | 277 | 333 | 388 | 436 |
| | Medium Low | 1330 | CFM | 1436 | 1388 | 1340 | 1263 | 1172 |
| | | | Temp. Rise | 50 | 52 | 54 | 56 | 61 |
| | | | Watts | 287 | 347 | 407 | 421 | 436 |
| | Medium ^(a) | 1380 | CFM | 1380 | 1380 | 1338 | 1263 | 1172 |
| | | | Temp. Rise | 52 | 52 | 53 | 56 | 61 |
| | | | Watts | 283 | 351 | 396 | 421 | 436 |
| | High | 1480 | CFM | 1460 | 1400 | 1338 | 1263 | 1172 |
| | | | Temp. Rise | 49 | 51 | 53 | 56 | 61 |
| | | | Watts | 329 | 363 | 396 | 421 | 436 |

^(a) Factory Setting.



Heating and Cooling Airflow Tables

S9V2B080D3PSAA

Table 11. S9V2B080D3PSAA Heating Airflow

| S9V2B080D3PSAA Furnace Heating Airflow (CFM) and Power (Watts) vs. External Static Pressure with Filter | | | | | | | | |
|---|-----------------------|----------------|------------|--|------|------|------|------|
| | | | | 1st Stage Capacity = 50,440 2nd Stage Capacity = 77,600 | | | | |
| Heating | Airflow Setting | Target Airflow | | External Static Pressure | | | | |
| | | | | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
| Heating 1st Stage | Low | 948 | CFM | 843 | 836 | 830 | 823 | 816 |
| | | | Temp. Rise | 56 | 56 | 57 | 57 | 58 |
| | | | Watts | 106 | 158 | 209 | 260 | 312 |
| | Medium Low | 1051 | CFM | 949 | 936 | 924 | 911 | 898 |
| | | | Temp. Rise | 50 | 51 | 51 | 52 | 53 |
| | | | Watts | 138 | 195 | 252 | 309 | 366 |
| | Medium ^(a) | 1090 | CFM | 981 | 952 | 922 | 893 | 864 |
| | | | Temp. Rise | 48 | 49 | 51 | 52 | 54 |
| | | | Watts | 151 | 210 | 269 | 328 | 387 |
| | High | 1168 | CFM | 1043 | 1031 | 1018 | 1006 | 993 |
| | | | Temp. Rise | 45 | 45 | 46 | 47 | 47 |
| | | | Watts | 181 | 244 | 307 | 371 | 434 |
| Heating 2nd Stage | Low | 1200 | CFM | 1087 | 1076 | 1065 | 1055 | 1044 |
| | | | Temp. Rise | 66 | 67 | 68 | 68 | 68 |
| | | | Watts | 195 | 255 | 315 | 376 | 367 |
| | Medium Low | 1330 | CFM | 1211 | 1168 | 1124 | 1080 | 1036 |
| | | | Temp. Rise | 59 | 61 | 64 | 66 | 69 |
| | | | Watts | 268 | 310 | 352 | 322 | 363 |
| | Medium ^(a) | 1380 | CFM | 1242 | 1242 | 1204 | 1137 | 1055 |
| | | | Temp. Rise | 57 | 57 | 59 | 63 | 67 |
| | | | Watts | 214 | 276 | 321 | 351 | 373 |
| | High | 1480 | CFM | 1314 | 1260 | 1204 | 1137 | 1055 |
| | | | Temp. Rise | 54 | 56 | 59 | 63 | 67 |
| | | | Watts | 249 | 285 | 321 | 351 | 373 |

^(a) Factory Setting.

S9V2B080U3PSAA / S9V2B080D3PSAA

Table 12. S9V2B080U3PSAA / S9V2B080D3PSAA Cooling Airflow

| S9V2B080U3PSAA / 9V2B080D3PSAA Furnace Cooling Airflow (CFM) and Power (Watts) vs. External Static Pressure with Filter | | | | | | | | |
|---|--------------|---------------------------|-------|--------------------------|------|------|------|------|
| Cooling | Unit Outdoor | Airflow Setting (CFM/ton) | | External Static Pressure | | | | |
| | | | | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
| Cooling | 2.0 Ton | Cooling 450 CFM/Ton | CFM | 900 | 900 | 900 | 900 | 900 |
| | | | Watts | 95 | 141 | 191 | 245 | 301 |
| | | Cooling 420 CFM/Ton | CFM | 840 | 840 | 840 | 840 | 840 |
| | | | Watts | 80 | 124 | 172 | 223 | 277 |
| | | Cooling 400 CFM/Ton | CFM | 800 | 800 | 800 | 800 | 800 |
| | | | Watts | 71 | 114 | 160 | 210 | 262 |
| | | Cooling 370 CFM/Ton | CFM | 740 | 740 | 740 | 740 | 740 |
| | | | Watts | 59 | 99 | 143 | 191 | 242 |
| | | Cooling 350 CFM/Ton | CFM | 700 | 700 | 700 | 700 | 700 |
| | | | Watts | 52 | 91 | 133 | 180 | 229 |
| | | Cooling 330 CFM/Ton | CFM | 660 | 660 | 660 | 660 | 660 |
| | | | Watts | 46 | 83 | 124 | 169 | 218 |
| | | Cooling 310 CFM/Ton | CFM | 620 | 620 | 620 | 620 | 620 |
| | | | Watts | 40 | 75 | 115 | 159 | 207 |
| | | Cooling 290 CFM/Ton | CFM | 580 | 580 | 580 | 580 | 580 |
| | | | Watts | 35 | 68 | 107 | 150 | 197 |
| Cooling | 2.5 Ton | Cooling 450 CFM/Ton | CFM | 1125 | 1125 | 1125 | 1125 | 1125 |
| | | | Watts | 166 | 222 | 282 | 345 | 410 |
| | | Cooling 420 CFM/Ton | CFM | 1050 | 1050 | 1050 | 1050 | 1050 |
| | | | Watts | 139 | 192 | 248 | 308 | 370 |
| | | Cooling 400 CFM/Ton | CFM | 1000 | 1000 | 1000 | 1000 | 1000 |
| | | | Watts | 123 | 173 | 228 | 286 | 346 |
| | | Cooling 370 CFM/Ton | CFM | 925 | 925 | 925 | 925 | 925 |
| | | | Watts | 101 | 149 | 200 | 255 | 312 |
| | | Cooling 350 CFM/Ton | CFM | 875 | 875 | 875 | 875 | 875 |
| | | | Watts | 88 | 134 | 183 | 236 | 291 |
| | | Cooling 330 CFM/Ton | CFM | 825 | 825 | 825 | 825 | 825 |
| | | | Watts | 77 | 120 | 167 | 218 | 272 |
| | | Cooling 310 CFM/Ton | CFM | 775 | 775 | 775 | 775 | 775 |
| | | | Watts | 66 | 107 | 153 | 202 | 254 |
| | | Cooling 290 CFM/Ton | CFM | 725 | 725 | 725 | 725 | 725 |
| | | | Watts | 57 | 96 | 139 | 187 | 237 |



Heating and Cooling Airflow Tables

Table 12. S9V2B080U3PSAA / S9V2B080D3PSAA Cooling Airflow (continued)

| S9V2B080U3PSAA / 9V2B080D3PSAA Furnace Cooling Airflow (CFM) and Power (Watts) vs. External Static Pressure with Filter | | | | | | | | |
|---|------------------------|------------------------------------|-------|--------------------------|------|------|------|------|
| Cooling | Unit Outdoor | Airflow Setting (CFM/ton) | | External Static Pressure | | | | |
| | | | | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
| Cooling | 3.0 Ton ^(a) | Cooling 450 CFM/Ton | CFM | 1350 | 1350 | 1338 | 1263 | 1172 |
| | | | Watts | 267 | 333 | 396 | 421 | 436 |
| | | Cooling 420 CFM/Ton | CFM | 1260 | 1260 | 1260 | 1260 | 1172 |
| | | | Watts | 223 | 285 | 350 | 419 | 436 |
| | | Cooling 400 CFM/Ton | CFM | 1200 | 1200 | 1200 | 1200 | 1172 |
| | | | Watts | 196 | 255 | 318 | 385 | 436 |
| | | Cooling 370 CFM/Ton | CFM | 1110 | 1110 | 1110 | 1110 | 1110 |
| | | | Watts | 160 | 216 | 275 | 337 | 402 |
| | | Cooling 350 CFM/Ton ^(a) | CFM | 1050 | 1050 | 1050 | 1050 | 1050 |
| | | | Watts | 139 | 192 | 248 | 308 | 370 |
| | | Cooling 330 CFM/Ton | CFM | 990 | 990 | 990 | 990 | 990 |
| | | | Watts | 120 | 170 | 224 | 281 | 341 |
| | | Cooling 310 CFM/Ton | CFM | 930 | 930 | 930 | 930 | 930 |
| | | | Watts | 103 | 150 | 202 | 257 | 314 |
| | | Cooling 290 CFM/Ton | CFM | 870 | 870 | 870 | 870 | 870 |
| | | | Watts | 87 | 132 | 181 | 234 | 289 |
| Cooling | 3.5 Ton | Cooling 450 CFM/Ton | CFM | 1460 | 1400 | 1338 | 1263 | 1172 |
| | | | Watts | 329 | 363 | 396 | 421 | 436 |
| | | Cooling 420 CFM/Ton | CFM | 1460 | 1400 | 1338 | 1263 | 1172 |
| | | | Watts | 329 | 363 | 396 | 421 | 436 |
| | | Cooling 400 CFM/Ton | CFM | 1400 | 1400 | 1338 | 1263 | 1172 |
| | | | Watts | 294 | 363 | 396 | 421 | 436 |
| | | Cooling 370 CFM/Ton | CFM | 1295 | 1295 | 1295 | 1263 | 1172 |
| | | | Watts | 239 | 303 | 370 | 421 | 436 |
| | | Cooling 350 CFM/Ton | CFM | 1225 | 1225 | 1225 | 1225 | 1172 |
| | | | Watts | 207 | 267 | 332 | 399 | 436 |
| | | Cooling 330 CFM/Ton | CFM | 1155 | 1155 | 1155 | 1155 | 1155 |
| | | | Watts | 177 | 235 | 296 | 360 | 427 |
| | | Cooling 310 CFM/Ton | CFM | 1085 | 1085 | 1085 | 1085 | 1085 |
| | | | Watts | 151 | 205 | 264 | 325 | 388 |
| | | Cooling 290 CFM/Ton | CFM | 1015 | 1015 | 1015 | 1015 | 1015 |
| | | | Watts | 128 | 179 | 234 | 292 | 353 |

^(a) Factory Setting

S9V2B080U4PSAA

Table 13. S9V2B080U4PSAA Heating Airflow

| S9V2B080U4PSAA Furnace Heating Airflow (CFM) and Power (Watts) vs. External Static Pressure with Filter | | | | | | | | |
|---|---------------------------|----------------|------------|--|------|------|------|------|
| | | | | 1st Stage Capacity = 50,440 2nd Stage Capacity = 77,600 | | | | |
| Heating | Airflow Setting | Target Airflow | | External Static Pressure | | | | |
| | | | | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
| Heating 1st Stage | Low | 864 | CFM | 914 | 882 | 849 | 816 | 783 |
| | | | Temp. Rise | 51 | 53 | 55 | 57 | 59 |
| | | | Watts | 90 | 131 | 172 | 213 | 255 |
| | Medium Low ^(a) | 907 | CFM | 940 | 912 | 885 | 858 | 831 |
| | | | Temp. Rise | 50 | 51 | 53 | 54 | 56 |
| | | | Watts | 104 | 141 | 178 | 215 | 253 |
| | Medium | 958 | CFM | 983 | 932 | 881 | 830 | 779 |
| | | | Temp. Rise | 47 | 50 | 53 | 55 | 58 |
| | | | Watts | 118 | 151 | 184 | 218 | 251 |
| | High | 1051 | CFM | 1029 | 1068 | 1107 | 1146 | 1185 |
| | | | Temp. Rise | 45 | 44 | 42 | 40 | 39 |
| | | | Watts | 155 | 195 | 235 | 275 | 314 |
| Heating 2nd Stage | Low | 1200 | CFM | 1207 | 1206 | 1205 | 1204 | 1203 |
| | | | Temp. Rise | 60 | 60 | 60 | 60 | 60 |
| | | | Watts | 206 | 258 | 309 | 361 | 412 |
| | Medium Low ^(a) | 1260 | CFM | 1260 | 1261 | 1262 | 1263 | 1264 |
| | | | Temp. Rise | 57 | 57 | 57 | 57 | 57 |
| | | | Watts | 232 | 287 | 342 | 397 | 452 |
| | Medium | 1330 | CFM | 1360 | 1347 | 1333 | 1320 | 1306 |
| | | | Temp. Rise | 53 | 53 | 54 | 54 | 55 |
| | | | Watts | 263 | 322 | 380 | 439 | 497 |
| | High | 1460 | CFM | 1420 | 1439 | 1458 | 1477 | 1496 |
| | | | Temp. Rise | 51 | 50 | 49 | 49 | 48 |
| | | | Watts | 377 | 433 | 489 | 546 | 602 |

^(a) Factory Setting.



Heating and Cooling Airflow Tables

S9V2B080D4PSAA

Table 14. S9V2B080D4PSAA Heating Airflow

| S9V2B080D4PSAA Furnace Heating Airflow (CFM) and Power (Watts) vs. External Static Pressure with Filter | | | | | | | | |
|---|---------------------------|----------------|------------|--|------|------|------|------|
| | | | | 1st Stage Capacity = 50,440 2nd Stage Capacity = 77,600 | | | | |
| Heating | Airflow Setting | Target Airflow | | External Static Pressure | | | | |
| | | | | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
| Heating 1st Stage | Low | 864 | CFM | 770 | 770 | 770 | 770 | 770 |
| | | | Temp. Rise | 61 | 61 | 61 | 61 | 61 |
| | | | Watts | 72 | 118 | 164 | 210 | 256 |
| | Medium Low ^(a) | 907 | CFM | 809 | 809 | 809 | 809 | 809 |
| | | | Temp. Rise | 58 | 58 | 58 | 58 | 58 |
| | | | Watts | 88 | 134 | 180 | 227 | 273 |
| | Medium | 958 | CFM | 854 | 854 | 854 | 854 | 854 |
| | | | Temp. Rise | 54 | 54 | 54 | 54 | 54 |
| | | | Watts | 101 | 150 | 198 | 247 | 296 |
| | High | 1051 | CFM | 993 | 993 | 993 | 993 | 993 |
| | | | Temp. Rise | 47 | 47 | 47 | 47 | 47 |
| | | | Watts | 133 | 186 | 239 | 292 | 346 |
| Heating 2nd Stage | Low | 1200 | CFM | 1082 | 1082 | 1082 | 1082 | 1082 |
| | | | Temp. Rise | 66 | 66 | 66 | 66 | 66 |
| | | | Watts | 181 | 239 | 298 | 357 | 416 |
| | Medium Low ^(a) | 1260 | CFM | 1190 | 1190 | 1190 | 1190 | 1190 |
| | | | Temp. Rise | 59 | 59 | 59 | 59 | 59 |
| | | | Watts | 206 | 268 | 329 | 390 | 451 |
| | Medium | 1330 | CFM | 1225 | 1225 | 1225 | 1225 | 1225 |
| | | | Temp. Rise | 58 | 58 | 58 | 58 | 58 |
| | | | Watts | 239 | 303 | 367 | 431 | 495 |
| | High | 1460 | CFM | 1227 | 1227 | 1227 | 1227 | 1227 |
| | | | Temp. Rise | 57 | 57 | 57 | 57 | 57 |
| | | | Watts | 320 | 390 | 460 | 530 | 600 |

^(a) Factory Setting.

S9V2B080U4PSAA / S9V2B080D4PSAA

Table 15. S9V2B080U4PSAA / S9V2B080D4PSAA Cooling Airflow

| S9V2B080U4PSAA / S9V2B080D4PSAA Furnace Cooling Airflow (CFM) and Power (Watts) vs. External Static Pressure with Filter | | | | | | | | |
|--|--------------|---------------------------|-------|--------------------------|------|------|------|------|
| Cooling | Unit Outdoor | Airflow Setting (CFM/ton) | | External Static Pressure | | | | |
| | | | | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
| Cooling | 2.5 Ton | Cooling 450 CFM/Ton | CFM | 1125 | 1125 | 1125 | 1125 | 1125 |
| | | | Watts | 155 | 205 | 259 | 316 | 376 |
| | | Cooling 420 CFM/Ton | CFM | 1050 | 1050 | 1050 | 1050 | 1050 |
| | | | Watts | 130 | 177 | 228 | 282 | 340 |
| | | Cooling 400 CFM/Ton | CFM | 1000 | 1000 | 1000 | 1000 | 1000 |
| | | | Watts | 115 | 160 | 209 | 262 | 317 |
| | | Cooling 370 CFM/Ton | CFM | 925 | 925 | 925 | 925 | 925 |
| | | | Watts | 94 | 136 | 183 | 233 | 286 |
| | | Cooling 350 CFM/Ton | CFM | 875 | 875 | 875 | 875 | 875 |
| | | | Watts | 82 | 122 | 167 | 216 | 267 |
| | | Cooling 330 CFM/Ton | CFM | 825 | 825 | 825 | 825 | 825 |
| | | | Watts | 71 | 110 | 153 | 199 | 249 |
| | | Cooling 310 CFM/Ton | CFM | 775 | 775 | 775 | 775 | 775 |
| | | | Watts | 61 | 98 | 139 | 184 | 233 |
| | | Cooling 290 CFM/Ton | CFM | 725 | 725 | 725 | 725 | 725 |
| | | | Watts | 52 | 87 | 127 | 171 | 218 |
| Cooling | 3.0 Ton | Cooling 450 CFM/Ton | CFM | 1350 | 1350 | 1350 | 1350 | 1350 |
| | | | Watts | 252 | 311 | 374 | 440 | 508 |
| | | Cooling 420 CFM/Ton | CFM | 1260 | 1260 | 1260 | 1260 | 1260 |
| | | | Watts | 209 | 265 | 324 | 386 | 451 |
| | | Cooling 400 CFM/Ton | CFM | 1200 | 1200 | 1200 | 1200 | 1200 |
| | | | Watts | 184 | 237 | 294 | 354 | 416 |
| | | Cooling 370 CFM/Ton | CFM | 1110 | 1110 | 1110 | 1110 | 1110 |
| | | | Watts | 150 | 199 | 253 | 309 | 369 |
| | | Cooling 350 CFM/Ton | CFM | 1050 | 1050 | 1050 | 1050 | 1050 |
| | | | Watts | 130 | 177 | 228 | 282 | 340 |
| | | Cooling 330 CFM/Ton | CFM | 990 | 990 | 990 | 990 | 990 |
| | | | Watts | 112 | 156 | 205 | 258 | 313 |
| | | Cooling 310 CFM/Ton | CFM | 930 | 930 | 930 | 930 | 930 |
| | | | Watts | 95 | 138 | 185 | 235 | 288 |
| | | Cooling 290 CFM/Ton | CFM | 870 | 870 | 870 | 870 | 870 |
| | | | Watts | 81 | 121 | 166 | 214 | 265 |



Heating and Cooling Airflow Tables

Table 15. S9V2B080U4PSAA / S9V2B080D4PSAA Cooling Airflow (continued)

| S9V2B080U4PSAA / S9V2B080D4PSAA Furnace Cooling Airflow (CFM) and Power (Watts) vs. External Static Pressure with Filter | | | | | | | | |
|--|------------------------|------------------------------------|-------|--------------------------|------|------|------|------|
| Cooling | Unit Outdoor | Airflow Setting (CFM/Ton) | | External Static Pressure | | | | |
| | | | | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
| Cooling | 3.5 Ton | Cooling 450 CFM/Ton | CFM | 1575 | 1575 | 1575 | 1575 | 1575 |
| | | | Watts | 383 | 452 | 524 | 599 | 676 |
| | | Cooling 420 CFM/Ton | CFM | 1470 | 1470 | 1470 | 1470 | 1470 |
| | | | Watts | 317 | 382 | 449 | 520 | 593 |
| | | Cooling 400 CFM/Ton | CFM | 1400 | 1400 | 1400 | 1400 | 1400 |
| | | | Watts | 278 | 339 | 404 | 472 | 542 |
| | | Cooling 370 CFM/Ton | CFM | 1295 | 1295 | 1295 | 1295 | 1295 |
| | | | Watts | 225 | 282 | 343 | 407 | 473 |
| | | Cooling 350 CFM/Ton | CFM | 1225 | 1225 | 1225 | 1225 | 1225 |
| | | | Watts | 194 | 248 | 306 | 367 | 431 |
| | | Cooling 330 CFM/Ton | CFM | 1155 | 1155 | 1155 | 1155 | 1155 |
| | | | Watts | 166 | 218 | 273 | 331 | 392 |
| | | Cooling 310 CFM/Ton | CFM | 1085 | 1085 | 1085 | 1085 | 1085 |
| | | | Watts | 141 | 190 | 242 | 298 | 356 |
| | | Cooling 290 CFM/Ton | CFM | 1015 | 1015 | 1015 | 1015 | 1015 |
| | | | Watts | 119 | 165 | 215 | 268 | 324 |
| Cooling | 4.0 Ton ^(a) | Cooling 450 CFM/Ton | CFM | 1800 | 1784 | 1746 | 1665 | 1581 |
| | | | Watts | 555 | 619 | 665 | 674 | 681 |
| | | Cooling 420 CFM/Ton | CFM | 1680 | 1680 | 1680 | 1665 | 1581 |
| | | | Watts | 458 | 531 | 608 | 674 | 681 |
| | | Cooling 400 CFM/Ton | CFM | 1600 | 1600 | 1600 | 1600 | 1600 |
| | | | Watts | 400 | 470 | 543 | 619 | 697 |
| | | Cooling 370 CFM/Ton | CFM | 1480 | 1480 | 1480 | 1480 | 1480 |
| | | | Watts | 323 | 388 | 456 | 527 | 600 |
| | | Cooling 350 CFM/Ton ^(a) | CFM | 1400 | 1400 | 1400 | 1400 | 1400 |
| | | | Watts | 278 | 339 | 404 | 472 | 542 |
| | | Cooling 330 CFM/Ton | CFM | 1320 | 1320 | 1320 | 1320 | 1320 |
| | | | Watts | 237 | 295 | 357 | 421 | 488 |
| | | Cooling 310 CFM/Ton | CFM | 1240 | 1240 | 1240 | 1240 | 1240 |
| | | | Watts | 201 | 255 | 314 | 375 | 439 |
| | | Cooling 290 CFM/Ton | CFM | 1160 | 1160 | 1160 | 1160 | 1160 |
| | | | Watts | 168 | 220 | 275 | 334 | 395 |

^(a) Factory Setting

S9V2C080U5PSAA

Table 16. S9V2C080U5PSAA Heating Airflow

| S9V2C080U5PSAA Furnace Heating Airflow (CFM) and Power (Watts) vs. External Static Pressure with Filter | | | | | | | | |
|---|---------------------------|----------------|------------|--|------|------|------|------|
| | | | | 1st Stage Capacity = 50,440 2nd Stage Capacity = 77,600 | | | | |
| Heating | Airflow Setting | Target Airflow | | External Static Pressure | | | | |
| | | | | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
| Heating 1st Stage | Low | 857 | CFM | 837 | 870 | 902 | 934 | 967 |
| | | | Temp. Rise | 55 | 53 | 51 | 50 | 48 |
| | | | Watts | 65 | 112 | 160 | 208 | 256 |
| | Medium Low ^(a) | 1044 | CFM | 997 | 1015 | 1033 | 1050 | 1068 |
| | | | Temp. Rise | 46 | 45 | 45 | 44 | 43 |
| | | | Watts | 102 | 155 | 209 | 263 | 316 |
| | Medium | 1123 | CFM | 1067 | 1094 | 1121 | 1148 | 1175 |
| | | | Temp. Rise | 43 | 42 | 41 | 40 | 39 |
| | | | Watts | 123 | 180 | 236 | 293 | 350 |
| | High | 1498 | CFM | 1420 | 1416 | 1411 | 1407 | 1402 |
| | | | Temp. Rise | 32 | 33 | 33 | 33 | 34 |
| | | | Watts | 238 | 320 | 402 | 485 | 567 |
| Heating 2nd Stage | Low | 1190 | CFM | 1129 | 1148 | 1168 | 1188 | 1208 |
| | | | Temp. Rise | 63 | 62 | 61 | 60 | 59 |
| | | | Watts | 127 | 195 | 263 | 331 | 399 |
| | Medium Low ^(a) | 1450 | CFM | 1387 | 1395 | 1404 | 1412 | 1420 |
| | | | Temp. Rise | 52 | 51 | 51 | 51 | 51 |
| | | | Watts | 248 | 310 | 372 | 434 | 496 |
| | Medium | 1560 | CFM | 1484 | 1498 | 1512 | 1525 | 1539 |
| | | | Temp. Rise | 48 | 48 | 47 | 47 | 47 |
| | | | Watts | 281 | 358 | 435 | 512 | 589 |
| | High | 2080 | CFM | 1954 | 1956 | 1959 | 1961 | 1964 |
| | | | Temp. Rise | 37 | 37 | 37 | 37 | 37 |
| | | | Watts | 597 | 732 | 866 | 1001 | 1135 |

^(a) Factory Setting.



Heating and Cooling Airflow Tables

S9V2C080U5PSAA

Table 17. S9V2C080U5PSAA Cooling Airflow

| S9V2C080U5PSAA Furnace Cooling Airflow (CFM) and Power (Watts) vs. External Static Pressure with Filter | | | | | | | | |
|---|--------------|---------------------------|-------|--------------------------|------|------|------|------|
| Cooling | Unit Outdoor | Airflow Setting (CFM/Ton) | | External Static Pressure | | | | |
| | | | | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
| Cooling | 3.5 Ton | Cooling 450 CFM/Ton | CFM | 1575 | 1575 | 1575 | 1575 | 1575 |
| | | | Watts | 279 | 351 | 426 | 504 | 584 |
| | | Cooling 420 CFM/Ton | CFM | 1470 | 1470 | 1470 | 1470 | 1470 |
| | | | Watts | 233 | 300 | 370 | 443 | 519 |
| | | Cooling 400 CFM/Ton | CFM | 1400 | 1400 | 1400 | 1400 | 1400 |
| | | | Watts | 205 | 269 | 336 | 406 | 478 |
| | | Cooling 370 CFM/Ton | CFM | 1295 | 1295 | 1295 | 1295 | 1295 |
| | | | Watts | 168 | 227 | 289 | 355 | 423 |
| | | Cooling 350 CFM/Ton | CFM | 1225 | 1225 | 1225 | 1225 | 1225 |
| | | | Watts | 145 | 201 | 261 | 324 | 389 |
| | | Cooling 330 CFM/Ton | CFM | 1155 | 1155 | 1155 | 1155 | 1155 |
| | | | Watts | 125 | 178 | 235 | 295 | 358 |
| | | Cooling 310 CFM/Ton | CFM | 1085 | 1085 | 1085 | 1085 | 1085 |
| | | | Watts | 107 | 157 | 211 | 269 | 329 |
| | | Cooling 290 CFM/Ton | CFM | 1015 | 1015 | 1015 | 1015 | 1015 |
| | | | Watts | 91 | 138 | 189 | 244 | 302 |
| Cooling | 4.0 Ton | Cooling 450 CFM/Ton | CFM | 1800 | 1800 | 1800 | 1800 | 1800 |
| | | | Watts | 399 | 482 | 567 | 655 | 745 |
| | | Cooling 420 CFM/Ton | CFM | 1680 | 1680 | 1680 | 1680 | 1680 |
| | | | Watts | 332 | 409 | 488 | 571 | 655 |
| | | Cooling 400 CFM/Ton | CFM | 1600 | 1600 | 1600 | 1600 | 1600 |
| | | | Watts | 291 | 364 | 441 | 519 | 600 |
| | | Cooling 370 CFM/Ton | CFM | 1480 | 1480 | 1480 | 1480 | 1480 |
| | | | Watts | 237 | 305 | 375 | 449 | 524 |
| | | Cooling 350 CFM/Ton | CFM | 1400 | 1400 | 1400 | 1400 | 1400 |
| | | | Watts | 205 | 269 | 336 | 406 | 478 |
| | | Cooling 330 CFM/Ton | CFM | 1320 | 1320 | 1320 | 1320 | 1320 |
| | | | Watts | 176 | 236 | 300 | 367 | 436 |
| | | Cooling 310 CFM/Ton | CFM | 1240 | 1240 | 1240 | 1240 | 1240 |
| | | | Watts | 150 | 207 | 267 | 330 | 396 |
| | | Cooling 290 CFM/Ton | CFM | 1160 | 1160 | 1160 | 1160 | 1160 |
| | | | Watts | 127 | 180 | 237 | 297 | 360 |

Heating and Cooling Airflow Tables

Table 17. S9V2C080U5PSAA Cooling Airflow (continued)

| S9V2C080U5PSAA Furnace Cooling Airflow (CFM) and Power (Watts) vs. External Static Pressure with Filter | | | | | | | | |
|---|------------------------|------------------------------------|-------|--------------------------|------|------|------|------|
| Cooling | Unit Outdoor | Airflow Setting (CFM/Ton) | | External Static Pressure | | | | |
| | | | | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
| Cooling | 4.5 Ton | Cooling 450 CFM/Ton | CFM | 2025 | 2025 | 2025 | 2025 | 2020 |
| | | | Watts | 550 | 643 | 740 | 838 | 934 |
| | | Cooling 420 CFM/Ton | CFM | 1890 | 1890 | 1890 | 1890 | 1890 |
| | | | Watts | 456 | 543 | 632 | 725 | 819 |
| | | Cooling 400 CFM/Ton | CFM | 1800 | 1800 | 1800 | 1800 | 1800 |
| | | | Watts | 399 | 482 | 567 | 655 | 745 |
| | | Cooling 370 CFM/Ton | CFM | 1665 | 1665 | 1665 | 1665 | 1665 |
| | | | Watts | 324 | 400 | 479 | 561 | 645 |
| | | Cooling 350 CFM/Ton | CFM | 1575 | 1575 | 1575 | 1575 | 1575 |
| | | | Watts | 279 | 351 | 426 | 504 | 584 |
| | | Cooling 330 CFM/Ton | CFM | 1485 | 1485 | 1485 | 1485 | 1485 |
| | | | Watts | 239 | 307 | 378 | 451 | 527 |
| | | Cooling 310 CFM/Ton | CFM | 1395 | 1395 | 1395 | 1395 | 1395 |
| | | | Watts | 203 | 267 | 334 | 403 | 476 |
| | | Cooling 290 CFM/Ton | CFM | 1305 | 1305 | 1305 | 1305 | 1305 |
| | | | Watts | 171 | 231 | 294 | 360 | 428 |
| Cooling | 5.0 Ton ^(a) | Cooling 450 CFM/Ton | CFM | 2250 | 2250 | 2250 | 2150 | 2020 |
| | | | Watts | 734 | 839 | 947 | 955 | 934 |
| | | Cooling 420 CFM/Ton | CFM | 2100 | 2100 | 2100 | 2100 | 2020 |
| | | | Watts | 607 | 705 | 805 | 907 | 934 |
| | | Cooling 400 CFM/Ton | CFM | 2000 | 2000 | 2000 | 2000 | 2000 |
| | | | Watts | 531 | 624 | 719 | 816 | 916 |
| | | Cooling 370 CFM/Ton | CFM | 1850 | 1850 | 1850 | 1850 | 1850 |
| | | | Watts | 430 | 515 | 603 | 693 | 785 |
| | | Cooling 350 CFM/Ton ^(a) | CFM | 1750 | 1750 | 1750 | 1750 | 1750 |
| | | | Watts | 370 | 450 | 533 | 619 | 707 |
| | | Cooling 330 CFM/Ton | CFM | 1650 | 1650 | 1650 | 1650 | 1650 |
| | | | Watts | 316 | 392 | 470 | 551 | 634 |
| | | Cooling 310 CFM/Ton | CFM | 1550 | 1550 | 1550 | 1550 | 1550 |
| | | | Watts | 268 | 339 | 412 | 489 | 568 |
| | | Cooling 290 CFM/Ton | CFM | 1450 | 1450 | 1450 | 1450 | 1450 |
| | | | Watts | 225 | 291 | 360 | 432 | 507 |

^(a) Factory Setting



Heating and Cooling Airflow Tables

S9V2C100U4PSAA

Table 18. S9V2C100U4PSAA Heating Airflow

| S9V2C100U4PSAA Furnace Heating Airflow (CFM) and Power (Watts) vs. External Static Pressure with Filter | | | | | | | | |
|---|-----------------------|----------------|------------|--|------|------|------|------|
| | | | | 1st Stage Capacity = 63,050 2nd Stage Capacity = 97,000 | | | | |
| Heating | Airflow Setting | Target Airflow | | External Static Pressure | | | | |
| | | | | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
| Heating 1st Stage | Low | 1146 | CFM | 1191 | 1199 | 1208 | 1216 | 1224 |
| | | | Temp. Rise | 50 | 49 | 49 | 49 | 49 |
| | | | Watts | 133 | 192 | 251 | 310 | 369 |
| | Medium Low | 1280 | CFM | 1314 | 1304 | 1294 | 1284 | 1274 |
| | | | Temp. Rise | 45 | 45 | 45 | 46 | 46 |
| | | | Watts | 173 | 235 | 297 | 359 | 421 |
| | Medium ^(a) | 1446 | CFM | 1478 | 1466 | 1453 | 1441 | 1428 |
| | | | Temp. Rise | 40 | 40 | 40 | 40 | 40 |
| | | | Watts | 243 | 304 | 364 | 425 | 485 |
| | High | 1493 | CFM | 1498 | 1511 | 1524 | 1537 | 1550 |
| | | | Temp. Rise | 39 | 39 | 39 | 39 | 38 |
| | | | Watts | 264 | 330 | 397 | 464 | 531 |
| Heating 2nd Stage | Low | 1450 | CFM | 1480 | 1488 | 1496 | 1503 | 1511 |
| | | | Temp. Rise | 60 | 60 | 60 | 60 | 60 |
| | | | Watts | 244 | 312 | 380 | 449 | 517 |
| | Medium Low | 1620 | CFM | 1658 | 1656 | 1654 | 1652 | 1650 |
| | | | Temp. Rise | 54 | 54 | 54 | 54 | 55 |
| | | | Watts | 330 | 408 | 486 | 564 | 642 |
| | Medium ^(a) | 1830 | CFM | 1869 | 1857 | 1846 | 1811 | 1714 |
| | | | Temp. Rise | 48 | 48 | 49 | 49 | 52 |
| | | | Watts | 471 | 549 | 628 | 677 | 695 |
| | High | 1890 | CFM | 1959 | 1919 | 1879 | 1811 | 1714 |
| | | | Temp. Rise | 46 | 47 | 48 | 49 | 52 |
| | | | Watts | 540 | 600 | 660 | 677 | 695 |

^(a) Factory Setting.

S9V2C100D4PSAA

Table 19. S9V2C100D4PSAA Heating Airflow

| S9V2C100D4PSAA Furnace Heating Airflow (CFM) and Power (Watts) vs. External Static Pressure with Filter | | | | | | | | |
|--|------------------------|-----------------------|------------|--|------------|------------|------------|------------|
| | | | | 1st Stage Capacity = 63,050 2nd Stage Capacity = 97,000 | | | | |
| Heating | Airflow Setting | Target Airflow | | External Static Pressure | | | | |
| | | | | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
| Heating 1st Stage | Low | 943 | CFM | 887 | 853 | 819 | 784 | 750 |
| | | | Temp. Rise | 65 | 67 | 70 | 72 | 74 |
| | | | Watts | 77 | 123 | 168 | 214 | 259 |
| | Medium Low | 1202 | CFM | 1162 | 1104 | 1047 | 990 | 933 |
| | | | Temp. Rise | 50 | 52 | 55 | 57 | 59 |
| | | | Watts | 135 | 187 | 239 | 291 | 343 |
| | Medium ^(a) | 1260 | CFM | 1262 | 1186 | 1110 | 1035 | 959 |
| | | | Temp. Rise | 46 | 49 | 52 | 54 | 57 |
| | | | Watts | 152 | 210 | 268 | 326 | 385 |
| | High | 1361 | CFM | 1349 | 1274 | 1200 | 1125 | 1050 |
| | | | Temp. Rise | 43 | 45 | 48 | 50 | 52 |
| | | | Watts | 186 | 242 | 299 | 355 | 411 |
| Heating 2nd Stage | Low | 1310 | CFM | 1182 | 1290 | 1397 | 1504 | 1611 |
| | | | Temp. Rise | 75 | 71 | 66 | 61 | 56 |
| | | | Watts | 120 | 264 | 409 | 554 | 699 |
| | Medium Low | 1670 | CFM | 1624 | 1586 | 1548 | 1510 | 1472 |
| | | | Temp. Rise | 55 | 57 | 58 | 60 | 61 |
| | | | Watts | 313 | 381 | 450 | 519 | 588 |
| | Medium ^(a) | 1750 | CFM | 1720 | 1670 | 1620 | 1569 | 1519 |
| | | | Temp. Rise | 52 | 54 | 56 | 57 | 59 |
| | | | Watts | 352 | 434 | 516 | 598 | 680 |
| | High | 1890 | CFM | 1872 | 1796 | 1720 | 1811 | 1714 |
| | | | Temp. Rise | 48 | 50 | 52 | 49 | 52 |
| | | | Watts | 461 | 519 | 577 | 677 | 695 |

^(a) Factory Setting.



Heating and Cooling Airflow Tables

S9V2C100U4PSAA / S9V2C100D4PSAA

Table 20. S9V2C100U4PSAA / S9V2C100D4PSAA Cooling Airflow

| S9V2C100U4PSAA / S9V2C100D4PSAA Furnace Cooling Airflow (CFM) and Power (Watts) vs. External Static Pressure with Filter | | | | | | | | |
|--|--------------|---------------------------|-------|--------------------------|------|------|------|------|
| Cooling | Unit Outdoor | Airflow Setting (CFM/Ton) | | External Static Pressure | | | | |
| | | | | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
| Cooling | 2.5 Ton | Cooling 450 CFM/Ton | CFM | 1125 | 1125 | 1125 | 1125 | 1125 |
| | | | Watts | 123 | 178 | 236 | 296 | 360 |
| | | Cooling 420 CFM/Ton | CFM | 1050 | 1050 | 1050 | 1050 | 1050 |
| | | | Watts | 104 | 156 | 210 | 268 | 329 |
| | | Cooling 400 CFM/Ton | CFM | 1000 | 1000 | 1000 | 1000 | 1000 |
| | | | Watts | 93 | 142 | 195 | 251 | 309 |
| | | Cooling 370 CFM/Ton | CFM | 925 | 925 | 925 | 925 | 925 |
| | | | Watts | 77 | 123 | 173 | 226 | 282 |
| | | Cooling 350 CFM/Ton | CFM | 875 | 875 | 875 | 875 | 875 |
| | | | Watts | 68 | 112 | 160 | 211 | 265 |
| | | Cooling 330 CFM/Ton | CFM | 825 | 825 | 825 | 825 | 825 |
| | | | Watts | 60 | 102 | 147 | 196 | 249 |
| | | Cooling 310 CFM/Ton | CFM | 775 | 775 | 775 | 775 | 775 |
| | | | Watts | 52 | 92 | 135 | 183 | 234 |
| | | Cooling 290 CFM/Ton | CFM | 725 | 725 | 725 | 725 | 725 |
| | | | Watts | 45 | 83 | 125 | 170 | 220 |
| Cooling | 3.0 Ton | Cooling 450 CFM/Ton | CFM | 1350 | 1350 | 1350 | 1350 | 1350 |
| | | | Watts | 194 | 259 | 326 | 396 | 468 |
| | | Cooling 420 CFM/Ton | CFM | 1260 | 1260 | 1260 | 1260 | 1260 |
| | | | Watts | 163 | 224 | 287 | 353 | 422 |
| | | Cooling 400 CFM/Ton | CFM | 1200 | 1200 | 1200 | 1200 | 1200 |
| | | | Watts | 144 | 202 | 263 | 327 | 393 |
| | | Cooling 370 CFM/Ton | CFM | 1110 | 1110 | 1110 | 1110 | 1110 |
| | | | Watts | 119 | 173 | 231 | 291 | 354 |
| | | Cooling 350 CFM/Ton | CFM | 1050 | 1050 | 1050 | 1050 | 1050 |
| | | | Watts | 104 | 156 | 210 | 268 | 329 |
| | | Cooling 330 CFM/Ton | CFM | 990 | 990 | 990 | 990 | 990 |
| | | | Watts | 91 | 140 | 192 | 247 | 306 |
| | | Cooling 310 CFM/Ton | CFM | 930 | 930 | 930 | 930 | 930 |
| | | | Watts | 78 | 125 | 174 | 228 | 284 |
| | | Cooling 290 CFM/Ton | CFM | 870 | 870 | 870 | 870 | 870 |
| | | | Watts | 67 | 111 | 158 | 209 | 264 |

Heating and Cooling Airflow Tables

Table 20. S9V2C100U4PSAA / S9V2C100D4PSAA Cooling Airflow (continued)

| S9V2C100U4PSAA / S9V2C100D4PSAA Furnace Cooling Airflow (CFM) and Power (Watts) vs. External Static Pressure with Filter | | | | | | | | |
|---|------------------------|------------------------------------|-------|--------------------------|------|------|------|------|
| Cooling | Unit Outdoor | Airflow Setting (CFM/ton) | | External Static Pressure | | | | |
| | | | | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
| Cooling | 3.5 Ton | Cooling 450 CFM/Ton | CFM | 1575 | 1575 | 1575 | 1575 | 1575 |
| | | | Watts | 289 | 363 | 440 | 519 | 600 |
| | | Cooling 420 CFM/Ton | CFM | 1470 | 1470 | 1470 | 1470 | 1470 |
| | | | Watts | 241 | 311 | 383 | 458 | 535 |
| | | Cooling 400 CFM/Ton | CFM | 1400 | 1400 | 1400 | 1400 | 1400 |
| | | | Watts | 213 | 280 | 349 | 421 | 495 |
| | | Cooling 370 CFM/Ton | CFM | 1295 | 1295 | 1295 | 1295 | 1295 |
| | | | Watts | 175 | 237 | 302 | 369 | 439 |
| | | Cooling 350 CFM/Ton | CFM | 1225 | 1225 | 1225 | 1225 | 1225 |
| | | | Watts | 152 | 211 | 273 | 338 | 405 |
| | | Cooling 330 CFM/Ton | CFM | 1155 | 1155 | 1155 | 1155 | 1155 |
| | | | Watts | 131 | 187 | 247 | 308 | 373 |
| | | Cooling 310 CFM/Ton | CFM | 1085 | 1085 | 1085 | 1085 | 1085 |
| | | | Watts | 113 | 166 | 222 | 281 | 343 |
| Cooling 290 CFM/Ton | CFM | 1015 | 1015 | 1015 | 1015 | 1015 | | |
| | Watts | 96 | 146 | 199 | 256 | 315 | | |
| Cooling | 4.0 Ton ^(a) | Cooling 450 CFM/Ton | CFM | 1800 | 1800 | 1800 | 1800 | 1714 |
| | | | Watts | 410 | 494 | 580 | 669 | 695 |
| | | Cooling 420 CFM/Ton | CFM | 1680 | 1680 | 1680 | 1680 | 1680 |
| | | | Watts | 342 | 420 | 502 | 585 | 671 |
| | | Cooling 400 CFM/Ton | CFM | 1600 | 1600 | 1600 | 1600 | 1600 |
| | | | Watts | 301 | 376 | 454 | 534 | 617 |
| | | Cooling 370 CFM/Ton | CFM | 1480 | 1480 | 1480 | 1480 | 1480 |
| | | | Watts | 246 | 316 | 388 | 464 | 541 |
| | | Cooling 350 CFM/Ton ^(a) | CFM | 1400 | 1400 | 1400 | 1400 | 1400 |
| | | | Watts | 213 | 280 | 349 | 421 | 495 |
| | | Cooling 330 CFM/Ton | CFM | 1320 | 1320 | 1320 | 1320 | 1320 |
| | | | Watts | 183 | 247 | 313 | 381 | 452 |
| | | Cooling 310 CFM/Ton | CFM | 1240 | 1240 | 1240 | 1240 | 1240 |
| | | | Watts | 157 | 216 | 279 | 344 | 412 |
| Cooling 290 CFM/Ton | CFM | 1160 | 1160 | 1160 | 1160 | 1160 | | |
| | Watts | 133 | 189 | 248 | 310 | 375 | | |

^(a) Factory Setting



Heating and Cooling Airflow Tables

S9V2C100U5PSAA

Table 21. S9V2C100U5PSAA Heating Airflow

| S9V2C100U5PSAA Furnace Heating Airflow (CFM) and Power (Watts) vs. External Static Pressure with Filter | | | | | | | | |
|---|---------------------------|----------------|------------|--|------|------|------|------|
| | | | | 1st Stage Capacity = 63,050 2nd Stage Capacity = 97,000 | | | | |
| Heating | Airflow Setting | Target Airflow | | External Static Pressure | | | | |
| | | | | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
| Heating 1st Stage | Low | 1145 | CFM | 1129 | 1097 | 1065 | 1033 | 1000 |
| | | | Temp. Rise | 52 | 53 | 54 | 56 | 57 |
| | | | Watts | 116 | 169 | 222 | 275 | 328 |
| | Medium Low ^(a) | 1426 | CFM | 1373 | 1376 | 1378 | 1381 | 1384 |
| | | | Temp. Rise | 43 | 42 | 42 | 42 | 42 |
| | | | Watts | 195 | 264 | 332 | 400 | 468 |
| | Medium | 1548 | CFM | 1475 | 1460 | 1445 | 1430 | 1415 |
| | | | Temp. Rise | 40 | 40 | 39 | 39 | 39 |
| | | | Watts | 248 | 311 | 374 | 436 | 499 |
| | High | 1620 | CFM | 1540 | 1545 | 1551 | 1556 | 1561 |
| | | | Temp. Rise | 38 | 38 | 38 | 38 | 38 |
| | | | Watts | 301 | 347 | 393 | 440 | 486 |
| Heating 2nd Stage | Low | 1590 | CFM | 1570 | 1548 | 1526 | 1503 | 1481 |
| | | | Temp. Rise | 57 | 58 | 59 | 60 | 61 |
| | | | Watts | 270 | 342 | 413 | 485 | 557 |
| | Medium Low ^(a) | 1980 | CFM | 1968 | 1936 | 1903 | 1871 | 1839 |
| | | | Temp. Rise | 45 | 46 | 47 | 48 | 49 |
| | | | Watts | 526 | 613 | 700 | 787 | 875 |
| | Medium | 2150 | CFM | 2092 | 2071 | 2051 | 2030 | 2010 |
| | | | Temp. Rise | 43 | 43 | 44 | 44 | 45 |
| | | | Watts | 672 | 752 | 831 | 910 | 990 |
| | High | 2250 | CFM | 2150 | 2130 | 2110 | 2090 | 2029 |
| | | | Temp. Rise | 42 | 42 | 42 | 43 | 44 |
| | | | Watts | 743 | 814 | 886 | 957 | 905 |

^(a) Factory Setting.

S9V2C100D5PSAA

Table 22. S9V2C100D5PSAA Heating Airflow

| S9V2C100D5PSAA Furnace Heating Airflow (CFM) and Power (Watts) vs. External Static Pressure with Filter | | | | | | | | |
|--|------------------------|-----------------------|------------|--|------------|------------|------------|------------|
| | | | | 1st Stage Capacity = 63,050 2nd Stage Capacity = 97,000 | | | | |
| Heating | Airflow Setting | Target Airflow | | External Static Pressure | | | | |
| | | | | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
| Heating 1st Stage | Low | 1094 | CFM | 1094 | 1023 | 952 | 881 | 809 |
| | | | Temp. Rise | 53 | 57 | 61 | 65 | 69 |
| | | | Watts | 100 | 153 | 206 | 258 | 311 |
| | Medium Low | 1296 | CFM | 1296 | 1212 | 1127 | 1043 | 958 |
| | | | Temp. Rise | 45 | 48 | 51 | 55 | 58 |
| | | | Watts | 156 | 216 | 276 | 337 | 397 |
| | Medium ^(a) | 1346 | CFM | 1346 | 1259 | 1171 | 1083 | 996 |
| | | | Temp. Rise | 43 | 46 | 49 | 53 | 56 |
| | | | Watts | 172 | 234 | 297 | 359 | 421 |
| | High | 1620 | CFM | 1620 | 1515 | 1409 | 1304 | 1198 |
| | | | Temp. Rise | 36 | 38 | 41 | 44 | 46 |
| | | | Watts | 284 | 358 | 431 | 504 | 578 |
| Heating 2nd Stage | Low | 1520 | CFM | 1437 | 1420 | 1403 | 1385 | 1368 |
| | | | Temp. Rise | 62 | 63 | 63 | 64 | 65 |
| | | | Watts | 236 | 308 | 380 | 453 | 525 |
| | Medium Low | 1800 | CFM | 1744 | 1712 | 1680 | 1649 | 1617 |
| | | | Temp. Rise | 51 | 52 | 53 | 54 | 55 |
| | | | Watts | 378 | 462 | 545 | 629 | 713 |
| | Medium ^(a) | 1870 | CFM | 1811 | 1779 | 1747 | 1715 | 1683 |
| | | | Temp. Rise | 49 | 50 | 51 | 52 | 53 |
| | | | Watts | 421 | 508 | 594 | 681 | 768 |
| | High | 2250 | CFM | 2211 | 2109 | 2006 | 1903 | 1800 |
| | | | Temp. Rise | 40 | 42 | 45 | 47 | 49 |
| | | | Watts | 714 | 817 | 920 | 1023 | 905 |

^(a) Factory Setting.



Heating and Cooling Airflow Tables

S9V2C100U5PSAA / S9V2C100D5PSAA

Table 23. S9V2C100U5PSAA / S9V2C100D5PSAA Cooling Airflow

| S9V2C100U5PSAA / S9V2C100D5PSAA Furnace Cooling Airflow (CFM) and Power (Watts) vs. External Static Pressure with Filter | | | | | | | | |
|--|--------------|---------------------------|-------|--------------------------|------|------|------|------|
| Cooling | Unit Outdoor | Airflow Setting (CFM/Ton) | | External Static Pressure | | | | |
| | | | | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
| Cooling | 3.5 Ton | Cooling 450 CFM/Ton | CFM | 1575 | 1575 | 1575 | 1575 | 1575 |
| | | | Watts | 263 | 333 | 406 | 481 | 558 |
| | | Cooling 420 CFM/Ton | CFM | 1470 | 1470 | 1470 | 1470 | 1470 |
| | | | Watts | 218 | 283 | 352 | 423 | 496 |
| | | Cooling 400 CFM/Ton | CFM | 1400 | 1400 | 1400 | 1400 | 1400 |
| | | | Watts | 191 | 254 | 319 | 388 | 458 |
| | | Cooling 370 CFM/Ton | CFM | 1295 | 1295 | 1295 | 1295 | 1295 |
| | | | Watts | 155 | 214 | 275 | 340 | 406 |
| | | Cooling 350 CFM/Ton | CFM | 1225 | 1225 | 1225 | 1225 | 1225 |
| | | | Watts | 134 | 190 | 249 | 311 | 375 |
| | | Cooling 330 CFM/Ton | CFM | 1155 | 1155 | 1155 | 1155 | 1155 |
| | | | Watts | 115 | 168 | 225 | 284 | 346 |
| | | Cooling 310 CFM/Ton | CFM | 1085 | 1085 | 1085 | 1085 | 1085 |
| | | | Watts | 98 | 148 | 202 | 259 | 319 |
| | | Cooling 290 CFM/Ton | CFM | 1015 | 1015 | 1015 | 1015 | 1015 |
| | | | Watts | 83 | 131 | 182 | 237 | 294 |
| Cooling | 4.0 Ton | Cooling 450 CFM/Ton | CFM | 1800 | 1800 | 1800 | 1800 | 1800 |
| | | | Watts | 381 | 460 | 542 | 627 | 713 |
| | | Cooling 420 CFM/Ton | CFM | 1680 | 1680 | 1680 | 1680 | 1680 |
| | | | Watts | 314 | 388 | 466 | 545 | 627 |
| | | Cooling 400 CFM/Ton | CFM | 1600 | 1600 | 1600 | 1600 | 1600 |
| | | | Watts | 275 | 345 | 419 | 496 | 574 |
| | | Cooling 370 CFM/Ton | CFM | 1480 | 1480 | 1480 | 1480 | 1480 |
| | | | Watts | 222 | 288 | 357 | 428 | 502 |
| | | Cooling 350 CFM/Ton | CFM | 1400 | 1400 | 1400 | 1400 | 1400 |
| | | | Watts | 191 | 254 | 319 | 388 | 458 |
| | | Cooling 330 CFM/Ton | CFM | 1320 | 1320 | 1320 | 1320 | 1320 |
| | | | Watts | 163 | 223 | 285 | 351 | 418 |
| | | Cooling 310 CFM/Ton | CFM | 1240 | 1240 | 1240 | 1240 | 1240 |
| | | | Watts | 139 | 195 | 254 | 317 | 381 |
| | | Cooling 290 CFM/Ton | CFM | 1160 | 1160 | 1160 | 1160 | 1160 |
| | | | Watts | 117 | 170 | 226 | 286 | 348 |

Heating and Cooling Airflow Tables

Table 23. S9V2C100U5PSAA / S9V2C100D5PSAA Cooling Airflow (continued)

| S9V2C100U5PSAA / S9V2C100D5PSAA Furnace Cooling Airflow (CFM) and Power (Watts) vs. External Static Pressure with Filter | | | | | | | | |
|---|------------------------|------------------------------------|-------|---------------------------------|------------|------------|------------|------------|
| Cooling | Unit Outdoor | Airflow Setting (CFM/ton) | | External Static Pressure | | | | |
| | | | | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
| Cooling | 4.5 Ton | Cooling 450 CFM/Ton | CFM | 2025 | 2025 | 2025 | 2025 | 2025 |
| | | | Watts | 531 | 620 | 711 | 805 | 901 |
| | | Cooling 420 CFM/Ton | CFM | 1890 | 1890 | 1890 | 1890 | 1890 |
| | | | Watts | 437 | 520 | 606 | 694 | 784 |
| | | Cooling 400 CFM/Ton | CFM | 1800 | 1800 | 1800 | 1800 | 1800 |
| | | | Watts | 381 | 460 | 542 | 627 | 713 |
| | | Cooling 370 CFM/Ton | CFM | 1665 | 1665 | 1665 | 1665 | 1665 |
| | | | Watts | 307 | 380 | 457 | 536 | 616 |
| | | Cooling 350 CFM/Ton | CFM | 1575 | 1575 | 1575 | 1575 | 1575 |
| | | | Watts | 263 | 333 | 406 | 481 | 558 |
| | | Cooling 330 CFM/Ton | CFM | 1485 | 1485 | 1485 | 1485 | 1485 |
| | | | Watts | 224 | 290 | 359 | 431 | 505 |
| | | Cooling 310 CFM/Ton | CFM | 1395 | 1395 | 1395 | 1395 | 1395 |
| | | | Watts | 189 | 252 | 317 | 386 | 456 |
| | | Cooling 290 CFM/Ton | CFM | 1305 | 1305 | 1305 | 1305 | 1305 |
| | | | Watts | 158 | 217 | 279 | 344 | 411 |
| Cooling | 5.0 Ton ^(a) | Cooling 450 CFM/Ton | CFM | 2250 | 2250 | 2242 | 2137 | 2029 |
| | | | Watts | 717 | 816 | 909 | 908 | 905 |
| | | Cooling 420 CFM/Ton | CFM | 2100 | 2100 | 2100 | 2100 | 2029 |
| | | | Watts | 589 | 681 | 776 | 873 | 905 |
| | | Cooling 400 CFM/Ton | CFM | 2000 | 2000 | 2000 | 2000 | 2000 |
| | | | Watts | 512 | 600 | 691 | 784 | 878 |
| | | Cooling 370 CFM/Ton | CFM | 1850 | 1850 | 1850 | 1850 | 1850 |
| | | | Watts | 411 | 492 | 577 | 663 | 752 |
| | | Cooling 350 CFM/Ton ^(a) | CFM | 1750 | 1750 | 1750 | 1750 | 1750 |
| | | | Watts | 352 | 429 | 509 | 592 | 676 |
| | | Cooling 330 CFM/Ton | CFM | 1650 | 1650 | 1650 | 1650 | 1650 |
| | | | Watts | 299 | 372 | 448 | 526 | 606 |
| | | Cooling 310 CFM/Ton | CFM | 1550 | 1550 | 1550 | 1550 | 1550 |
| | | | Watts | 252 | 320 | 392 | 467 | 543 |
| | | Cooling 290 CFM/Ton | CFM | 1450 | 1450 | 1450 | 1450 | 1450 |
| | | | Watts | 210 | 275 | 342 | 413 | 485 |

^(a) Factory Setting



Heating and Cooling Airflow Tables

S9V2D120U5PSAA

Table 24. S9V2D120U5PSAA Heating Airflow

| S9V2D120U5PSAA Furnace Heating Airflow (CFM) and Power (Watts) vs. External Static Pressure with Filter | | | | | | | | |
|---|-----------------------|----------------|------------|---|------|------|------|------|
| | | | | 1st Stage Capacity = 75,660 2nd Stage Capacity = 116,400 | | | | |
| Heating | Airflow Setting | Target Airflow | | External Static Pressure | | | | |
| | | | | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
| Heating 1st Stage | Low | 1123 | CFM | 1138 | 1158 | 1178 | 1198 | 1218 |
| | | | Temp. Rise | 61 | 60 | 59 | 58 | 57 |
| | | | Watts | 115 | 176 | 236 | 297 | 358 |
| | Medium Low | 1332 | CFM | 1371 | 1383 | 1394 | 1406 | 1417 |
| | | | Temp. Rise | 51 | 50 | 50 | 49 | 49 |
| | | | Watts | 182 | 251 | 320 | 389 | 457 |
| | Medium ^(a) | 1404 | CFM | 1440 | 1450 | 1461 | 1471 | 1482 |
| | | | Temp. Rise | 48 | 48 | 48 | 47 | 47 |
| | | | Watts | 208 | 283 | 357 | 431 | 505 |
| | High | 1620 | CFM | 1669 | 1674 | 1680 | 1685 | 1691 |
| | | | Temp. Rise | 42 | 42 | 41 | 41 | 41 |
| | | | Watts | 315 | 388 | 460 | 533 | 605 |
| Heating 2nd Stage | Low | 1560 | CFM | 1654 | 1637 | 1621 | 1604 | 1587 |
| | | | Temp. Rise | 65 | 66 | 67 | 67 | 68 |
| | | | Watts | 291 | 360 | 430 | 499 | 568 |
| | Medium Low | 1850 | CFM | 1980 | 1951 | 1922 | 1893 | 1864 |
| | | | Temp. Rise | 55 | 56 | 57 | 58 | 58 |
| | | | Watts | 456 | 539 | 621 | 704 | 787 |
| | Medium ^(a) | 1950 | CFM | 2075 | 2037 | 1999 | 1961 | 1923 |
| | | | Temp. Rise | 52 | 53 | 54 | 55 | 56 |
| | | | Watts | 527 | 611 | 696 | 781 | 865 |
| | High | 2250 | CFM | 2280 | 2197 | 2114 | 2032 | 1949 |
| | | | Temp. Rise | 48 | 50 | 52 | 54 | 56 |
| | | | Watts | 795 | 819 | 842 | 865 | 888 |

^(a) Factory Setting.

S9V2D120D5PSAA

Table 25. S9V2D120D5PSAA Heating Airflow

| S9V2D120D5PSAA Furnace Heating Airflow (CFM) and Power (Watts) vs. External Static Pressure with Filter | | | | | | | | |
|---|---------------------|----------------|------------|---|------|------|------|------|
| | | | | 1st Stage Capacity = 75,660 2nd Stage Capacity = 116,400 | | | | |
| Heating | Airflow Setting | Target Airflow | | External Static Pressure | | | | |
| | | | | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
| Heating 1st Stage | Low | 1160 | CFM | 1234 | 1240 | 1246 | 1252 | 1258 |
| | | | Temp. Rise | 56 | 56 | 56 | 55 | 55 |
| | | | Watts | 137 | 198 | 258 | 319 | 380 |
| | Medium Low | 1332 | CFM | 1305 | 1311 | 1318 | 1325 | 1332 |
| | | | Temp. Rise | 53 | 53 | 53 | 52 | 52 |
| | | | Watts | 158 | 221 | 284 | 347 | 410 |
| | Medium | 1404 | CFM | 1324 | 1510 | 1697 | 1884 | 2070 |
| | | | Temp. Rise | 53 | 46 | 39 | 32 | 25 |
| | | | Watts | 179 | 246 | 313 | 380 | 447 |
| | High ^(a) | 1620 | CFM | 1598 | 1484 | 1371 | 1257 | 1144 |
| | | | Temp. Rise | 44 | 47 | 49 | 52 | 54 |
| | | | Watts | 266 | 316 | 366 | 416 | 466 |
| Heating 2nd Stage | Low | 1750 | CFM | 1687 | 1673 | 1659 | 1645 | 1631 |
| | | | Temp. Rise | 63 | 64 | 64 | 65 | 65 |
| | | | Watts | 327 | 407 | 487 | 568 | 648 |
| | Medium Low | 1850 | CFM | 1788 | 1771 | 1754 | 1738 | 1721 |
| | | | Temp. Rise | 60 | 60 | 61 | 61 | 62 |
| | | | Watts | 380 | 464 | 549 | 633 | 718 |
| | Medium | 1950 | CFM | 1891 | 1862 | 1833 | 1803 | 1774 |
| | | | Temp. Rise | 56 | 57 | 58 | 60 | 61 |
| | | | Watts | 424 | 524 | 624 | 724 | 824 |
| | High ^(a) | 2250 | CFM | 2080 | 2100 | 2120 | 2140 | 2160 |
| | | | Temp. Rise | 51 | 51 | 51 | 51 | 51 |
| | | | Watts | 708 | 768 | 828 | 888 | 948 |

^(a) Factory Setting.



Heating and Cooling Airflow Tables

9V2D120U5PSAA / 9V2D120D5PSAA

Table 26. 9V2D120U5PSAA / 9V2D120D5PSAA Cooling Airflow

| S9V2D120U5PSAA / 9V2D120D5PSAA Furnace Cooling Airflow (CFM) and Power (Watts) vs. External Static Pressure with Filter | | | | | | | | |
|---|--------------|---------------------------|-------|--------------------------|------|------|------|------|
| Cooling | Unit Outdoor | Airflow Setting (CFM/Ton) | | External Static Pressure | | | | |
| | | | | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
| Cooling | 3.5 Ton | Cooling 450 CFM/Ton | CFM | 1575 | 1575 | 1575 | 1575 | 1575 |
| | | | Watts | 248 | 316 | 387 | 461 | 537 |
| | | Cooling 420 CFM/Ton | CFM | 1470 | 1470 | 1470 | 1470 | 1470 |
| | | | Watts | 206 | 270 | 337 | 407 | 479 |
| | | Cooling 400 CFM/Ton | CFM | 1400 | 1400 | 1400 | 1400 | 1400 |
| | | | Watts | 181 | 243 | 307 | 374 | 443 |
| | | Cooling 370 CFM/Ton | CFM | 1295 | 1295 | 1295 | 1295 | 1295 |
| | | | Watts | 148 | 205 | 265 | 328 | 393 |
| | | Cooling 350 CFM/Ton | CFM | 1225 | 1225 | 1225 | 1225 | 1225 |
| | | | Watts | 128 | 182 | 240 | 300 | 363 |
| | | Cooling 330 CFM/Ton | CFM | 1155 | 1155 | 1155 | 1155 | 1155 |
| | | | Watts | 111 | 162 | 217 | 274 | 335 |
| | | Cooling 310 CFM/Ton | CFM | 1085 | 1085 | 1085 | 1085 | 1085 |
| | | | Watts | 95 | 143 | 195 | 250 | 309 |
| | | Cooling 290 CFM/Ton | CFM | 1015 | 1015 | 1015 | 1015 | 1015 |
| | | | Watts | 80 | 126 | 176 | 228 | 285 |
| Cooling | 4.0 Ton | Cooling 450 CFM/Ton | CFM | 1800 | 1800 | 1800 | 1800 | 1800 |
| | | | Watts | 356 | 433 | 514 | 597 | 682 |
| | | Cooling 420 CFM/Ton | CFM | 1680 | 1680 | 1680 | 1680 | 1680 |
| | | | Watts | 295 | 368 | 443 | 521 | 601 |
| | | Cooling 400 CFM/Ton | CFM | 1600 | 1600 | 1600 | 1600 | 1600 |
| | | | Watts | 258 | 328 | 400 | 475 | 552 |
| | | Cooling 370 CFM/Ton | CFM | 1480 | 1480 | 1480 | 1480 | 1480 |
| | | | Watts | 210 | 274 | 342 | 412 | 484 |
| | | Cooling 350 CFM/Ton | CFM | 1400 | 1400 | 1400 | 1400 | 1400 |
| | | | Watts | 181 | 243 | 307 | 374 | 443 |
| | | Cooling 330 CFM/Ton | CFM | 1320 | 1320 | 1320 | 1320 | 1320 |
| | | | Watts | 155 | 213 | 274 | 338 | 405 |
| | | Cooling 310 CFM/Ton | CFM | 1240 | 1240 | 1240 | 1240 | 1240 |
| | | | Watts | 132 | 187 | 245 | 306 | 369 |
| | | Cooling 290 CFM/Ton | CFM | 1160 | 1160 | 1160 | 1160 | 1160 |
| | | | Watts | 112 | 163 | 218 | 276 | 337 |

Heating and Cooling Airflow Tables

Table 26. 9V2D120U5PSAA / 9V2D120D5PSAA Cooling Airflow (continued)

| S9V2D120U5PSAA / 9V2D120D5PSAA Furnace Cooling Airflow (CFM) and Power (Watts) vs. External Static Pressure with Filter | | | | | | | | |
|--|------------------------|------------------------------------|-------|--------------------------|------|------|------|------|
| Cooling | Unit Outdoor | Airflow Setting (CFM/Ton) | | External Static Pressure | | | | |
| | | | | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
| Cooling | 4.5 Ton | Cooling 450 CFM/Ton | CFM | 2025 | 2025 | 2025 | 2025 | 2025 |
| | | | Watts | 492 | 579 | 669 | 761 | 855 |
| | | Cooling 420 CFM/Ton | CFM | 1890 | 1890 | 1890 | 1890 | 1890 |
| | | | Watts | 406 | 488 | 572 | 659 | 747 |
| | | Cooling 400 CFM/Ton | CFM | 1800 | 1800 | 1800 | 1800 | 1800 |
| | | | Watts | 356 | 433 | 514 | 597 | 682 |
| | | Cooling 370 CFM/Ton | CFM | 1665 | 1665 | 1665 | 1665 | 1665 |
| | | | Watts | 288 | 360 | 435 | 512 | 592 |
| | | Cooling 350 CFM/Ton | CFM | 1575 | 1575 | 1575 | 1575 | 1575 |
| | | | Watts | 248 | 316 | 387 | 461 | 537 |
| | | Cooling 330 CFM/Ton | CFM | 1485 | 1485 | 1485 | 1485 | 1485 |
| | | | Watts | 212 | 277 | 344 | 414 | 487 |
| | | Cooling 310 CFM/Ton | CFM | 1395 | 1395 | 1395 | 1395 | 1395 |
| | | | Watts | 180 | 241 | 305 | 371 | 440 |
| | | Cooling 290 CFM/Ton | CFM | 1305 | 1305 | 1305 | 1305 | 1305 |
| | | | Watts | 151 | 208 | 269 | 332 | 398 |
| Cooling | 5.0 Ton ^(a) | Cooling 450 CFM/Ton | CFM | 2250 | 2250 | 2250 | 2188 | 2103 |
| | | | Watts | 659 | 756 | 856 | 900 | 922 |
| | | Cooling 420 CFM/Ton | CFM | 2100 | 2100 | 2100 | 2100 | 2100 |
| | | | Watts | 544 | 634 | 728 | 823 | 920 |
| | | Cooling 400 CFM/Ton | CFM | 2000 | 2000 | 2000 | 2000 | 2000 |
| | | | Watts | 475 | 561 | 650 | 741 | 834 |
| | | Cooling 370 CFM/Ton | CFM | 1850 | 1850 | 1850 | 1850 | 1850 |
| | | | Watts | 383 | 463 | 546 | 631 | 717 |
| | | Cooling 350 CFM/Ton ^(a) | CFM | 1750 | 1750 | 1750 | 1750 | 1750 |
| | | | Watts | 329 | 405 | 484 | 564 | 647 |
| | | Cooling 330 CFM/Ton | CFM | 1650 | 1650 | 1650 | 1650 | 1650 |
| | | | Watts | 281 | 352 | 427 | 503 | 582 |
| | | Cooling 310 CFM/Ton | CFM | 1550 | 1550 | 1550 | 1550 | 1550 |
| | | | Watts | 237 | 305 | 375 | 448 | 523 |
| | | Cooling 290 CFM/Ton | CFM | 1450 | 1450 | 1450 | 1450 | 1450 |
| | | | Watts | 199 | 262 | 328 | 397 | 468 |

^(a) Factory Setting



Maximum Vent Length Table

| Maximum Vent Length Table | Maximum Total Equivalent Length In Feet for Vent and Inlet Air (See Notes) | |
|--|---|-----------------------|
| | 2 Inch or 2.5 Inch Pipe | 3 Inch or 4 Inch Pipe |
| Altitude 0–2,000 Feet | | |
| S9V2B040U3PS, S9V2B040D3PS, S9V2B060U3PS, S9V2B060D3PS, S9V2B060U4PS | 200 | 200 |
| S9V2B080U3PS, S9V2B080D3PS, S9V2B080U4PS, S9V2B080D4PS, S9V2C080U5PS | 100 | 200 |
| S9V2C100U4PS, S9V2C100D4PS, S9V2C100U5PS, S9V2C100D5PS | 50 | 200 |
| S9V2D120U5PS, S9V2D120D5PS | Note 1 | 200 |
| Altitude 2,001–5,400 Feet | | |
| S9V2B040U3PS, S9V2B040D3PS, S9V2B060U3PS, S9V2B060D3PS, S9V2B060U4PS | 200 | 200 |
| S9V2B080U3PS, S9V2B080D3PS, S9V2B080U4PS, S9V2B080D4PS, S9V2C080U5PS | 80 | 120 |
| S9V2C100U4PS, S9V2C100D4PS, S9V2C100U5PS, S9V2C100D5PS | 50 | 150 |
| S9V2D120U5PS, S9V2D120D5PS | Note 1 | 200 |
| Altitude 5,401–7,800 Feet | | |
| S9V2B040U3PS, S9V2B040D3PS, S9V2B060U3PS, S9V2B060D3PS, S9V2B060U4PS | 100 | 150 |
| S9V2B080U3PS, S9V2B080D3PS, S9V2B080U4PS, S9V2B080D4PS, S9V2C080U5PS | 50 | 70 |
| S9V2C100U4PS, S9V2C100D4PS, S9V2C100U5PS, S9V2C100D5PS | Note 1 | 100 |
| S9V2D120U5PS, S9V2D120D5PS | Note 1 | 100 |
| Altitude 7,801–10,100 Feet | | |
| S9V2B040U3PS, S9V2B040D3PS, S9V2B060U3PS, S9V2B060D3PS, S9V2B060U4PS | 90 | 90 |
| S9V2B080U3PS, S9V2B080D3PS, S9V2B080U4PS, S9V2B080D4PS, S9V2C080U5PS | Note 1 | 50 |
| S9V2C100U4PS, S9V2C100D4PS, S9V2C100U5PS, S9V2C100D5PS | Note 1 | 50 |
| S9V2D120U5PS, S9V2D120D5PS | Note 1 | 50 |

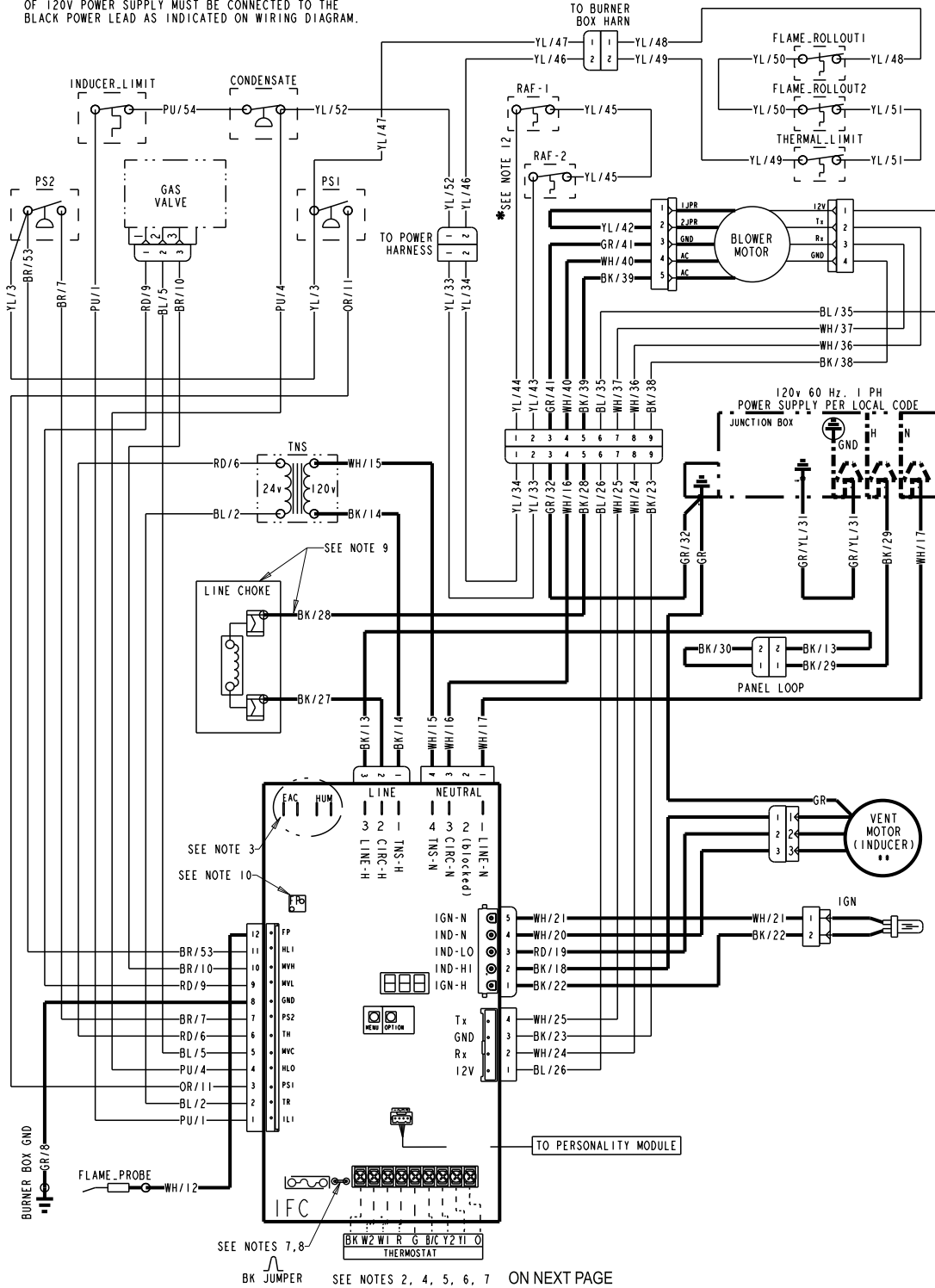
Notes:

1. Not allowed
2. **FOR DURAVENT MANUFACTURED MODULAR VENTING SYSTEMS THAT ARE IN THE APPROVED VENT PIPE MATERIAL TABLE, EQUIVALENT VENT LENGTHS MAY BE DIFFERENT FROM WHAT IS SHOWN ABOVE. REFER TO THE VENTING SYSTEM MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR APPROPRIATE VENTING DIAMETERS AND EQUIVALENT LENGTHS.**
3. Minimum vent length for all models: 15' equivalent.
4. 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.
5. 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).
6. 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.
7. 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.
8. For Canadian applications, venting systems must meet ULC-S636 requirements.
9. 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).

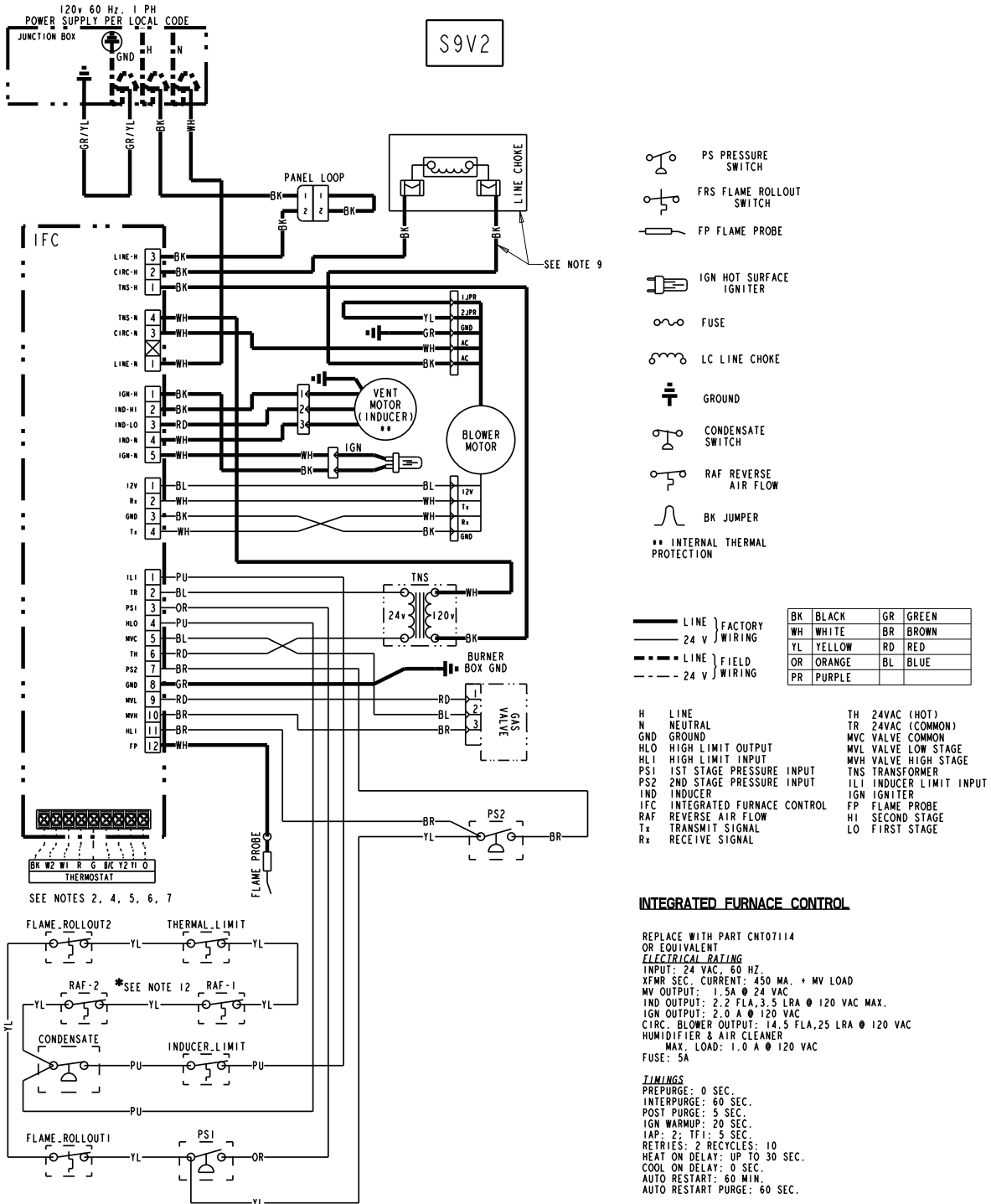
S9V2 Wiring Diagram

S9V2 Wiring Diagram and Schematic

IMPORTANT:
 INTEGRATED FURNACE CONTROL IS POLARITY SENSITIVE. HOT LEG
 OF 120V POWER SUPPLY MUST BE CONNECTED TO THE
 BLACK POWER LEAD AS INDICATED ON WIRING DIAGRAM.



S9V2 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.
- FOR PROPER AIRFLOW IN COOLING/HEAT PUMP MODE, "Y1" AND/OR "Y2" MUST BE CONNECTED TO THE THERMOSTAT.
- EAC AND HUM ARE DRY CONTACTS WITH MAX. LOAD OF 1A @ 120V EACH.
- FOR SINGLE STAGE THERMOSTATS, JUMPER "W1" AND "W2" TERMINALS. SECOND STAGE HEATING WILL BE ENERGIZED ONCE THE INTER-STAGE DELAY HAS EXPIRED.
- FOR HEAT PUMP SYSTEMS "Y1" AND/OR "Y2" AND "O" TERMINALS MUST BE CONNECTED TO THE ROOM THERMOSTAT.
- FOR TWO STAGE SYSTEMS, USE "Y1" FOR LOW SPEED AND "Y2" FOR HIGH SPEED CONNECTION TO THE LOW-VOLTAGE TERMINAL BLOCK. SINGLE STAGE SYSTEMS USE "Y1" FOR THE CONNECTION TO THE LOW-VOLTAGE TERMINAL BLOCK.
- THE "BK" JUMPER MUST BE CUT WHEN APPLYING AN AIRFLOW COMMAND TO THE "BK" TERMINAL SUCH AS PULSE WIDTH MODULATING (PWM).
- SEE INDOOR MOTOR AIRFLOW SELECTION CHART, LOCATED IN THE INTEGRATED FURNACE CONTROL MENU & OPTIONS SETTINGS TO SET AIRFLOW AND COOLING OFF DELAYS.
- LINE CHOKE AND WIRE BK/28 ONLY USED ON MODELS WITH 3/4 AND 1 HP MOTORS.
- 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.
- CORRECT PERSONALITY MODULE IS REQUIRED FOR PROPER FURNACE OPERATION. PERSONALITY MODULE IS SPECIFIC TO EACH MODEL & SERIAL NUMBER, AND IS TO REMAIN WITHIN ITS ORIGINAL UNIT.
- DOWNFLOW MODELS USE ONLY ONE REVERSE AIRFLOW SWITCH.

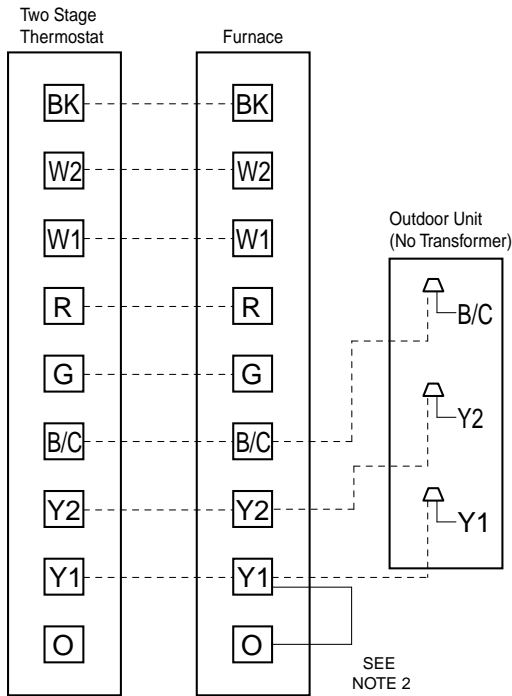


Electrical Connections

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.

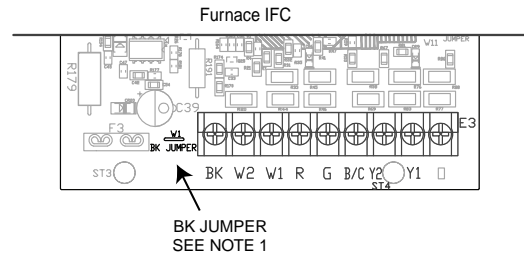
Field Wiring

FIELD WIRING DIAGRAM FOR TWO STAGE HEATING THERMOSTAT, TWO STAGE COOLING



NOTES:

- 1) For PWM (BK) enabled thermostats, cut the BK jumper on the IFC and connect wiring.
- 2) The factory Y1-O jumper must remain in place for proper LED read out in cooling mode.
- 3) Y1 and Y2 wiring from the thermostat must connect to the IFC for proper airflow and LED readout.
- 4) Single compressor and two compressor airflow is automatically set with the IFC Menu options in ODU section.
 2-1=2 stage / 1 compressor (1st stage airflow = 75%)
 2-2=2 stage / 2 compressors (1st stage airflow = 50%)

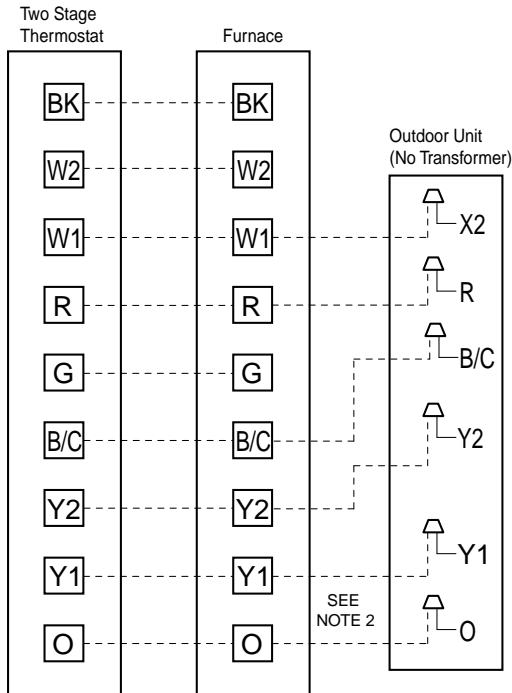


INTER-COMPONENT WIRING

- 24 V FIELD WIRING
- 24 V FACTORY WIRING

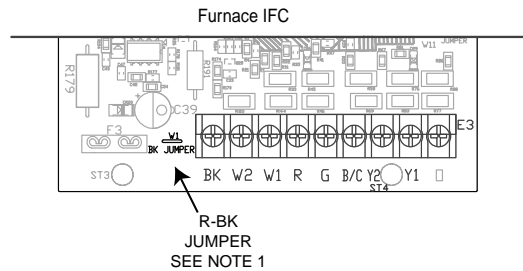
Electrical Connections

FIELD WIRING DIAGRAM FOR TWO STAGE HEATING THERMOSTAT, TWO STAGE HEAT PUMP



NOTES:

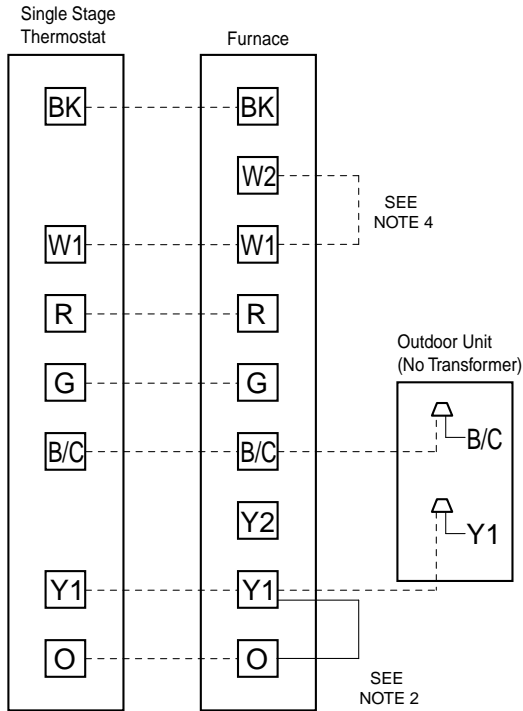
- 1) For PWM (BK) enabled thermostats, cut the BK jumper on the IFC and connect wiring.
- 2) Remove the factory Y1-O jumper for HP systems for proper LED read out.
- 3) Y1 and Y2 wiring from the thermostat must connect to Y1 and Y2 of the IFC for proper airflow and LED readout.
- 4) Single compressor and two compressor airflow is automatically set with the IFC Menu options in ODU section.
 2-1=2 stage / 1 compressor (1st stage airflow = 75%)
 2-2=2 stage / 2 compressors (1st stage airflow = 50%)



INTER-COMPONENT WIRING

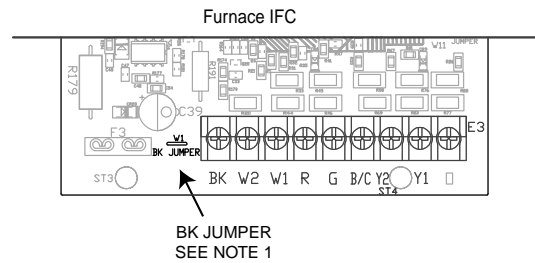
- 24 V FIELD WIRING
- 24 V FACTORY WIRING

FIELD WIRING DIAGRAM FOR
SINGLE STAGE HEATING THERMOSTAT, SINGLE STAGE COOLING



NOTES:

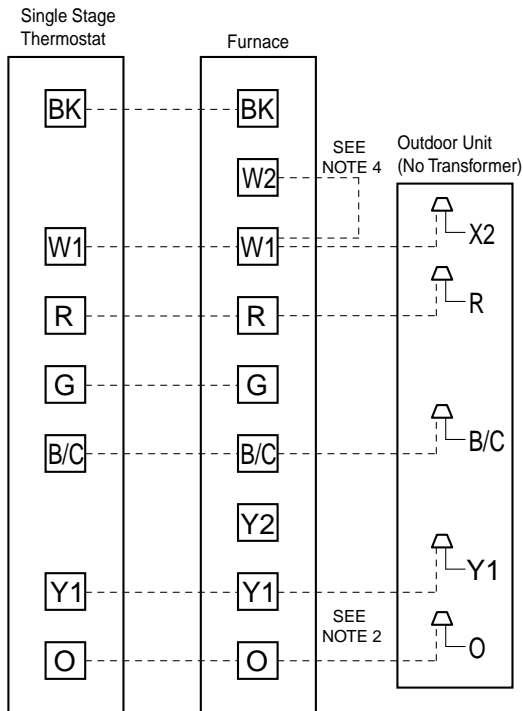
- 1) For PWM (BK) enabled thermostats, cut the BK jumper on the IFC and connect wiring.
- 2) The factory Y1-O jumper must remain in place for proper LED read out in cooling mode.
- 3) Y1 wiring from the thermostat must connect to Y1 of the IFC for proper airflow and LED readout.
- 4) Place field supplied jumper between W1 and W2 on the IFC. Interstage delay is factory set for 10 minutes but is field adjustable with the Menu option in the ISD section.
- 5) Single stage airflow is set with the IFC Menu options in ODU section. Select 1-1.



INTER-COMPONENT WIRING

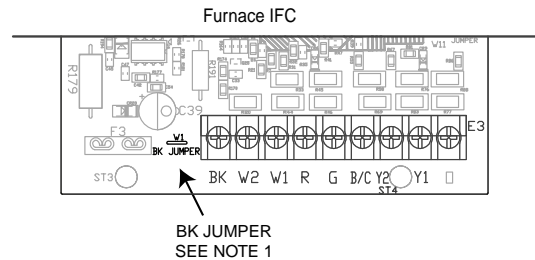
- 24 V FIELD WIRING
- 24 V FACTORY WIRING

FIELD WIRING DIAGRAM FOR SINGLE STAGE HEATING THERMOSTAT, SINGLE STAGE HEAT PUMP



NOTES:

- 1) For PWM (BK) enabled thermostats, cut the BK jumper on the IFC and connect wiring.
- 2) Remove the factory Y1-O jumper for HP systems for proper LED read out.
- 3) Y1 wiring from the thermostat must connect to Y1 of the IFC for proper airflow and LED readout.
- 4) Place field supplied jumper between W1 and W2 on the IFC. Interstage delay is factory set for 10 minutes but is field adjustable with the Menu option in the ISD section.
- 5) Single stage airflow is set with the IFC Menu options in ODU section. Select 1-1.

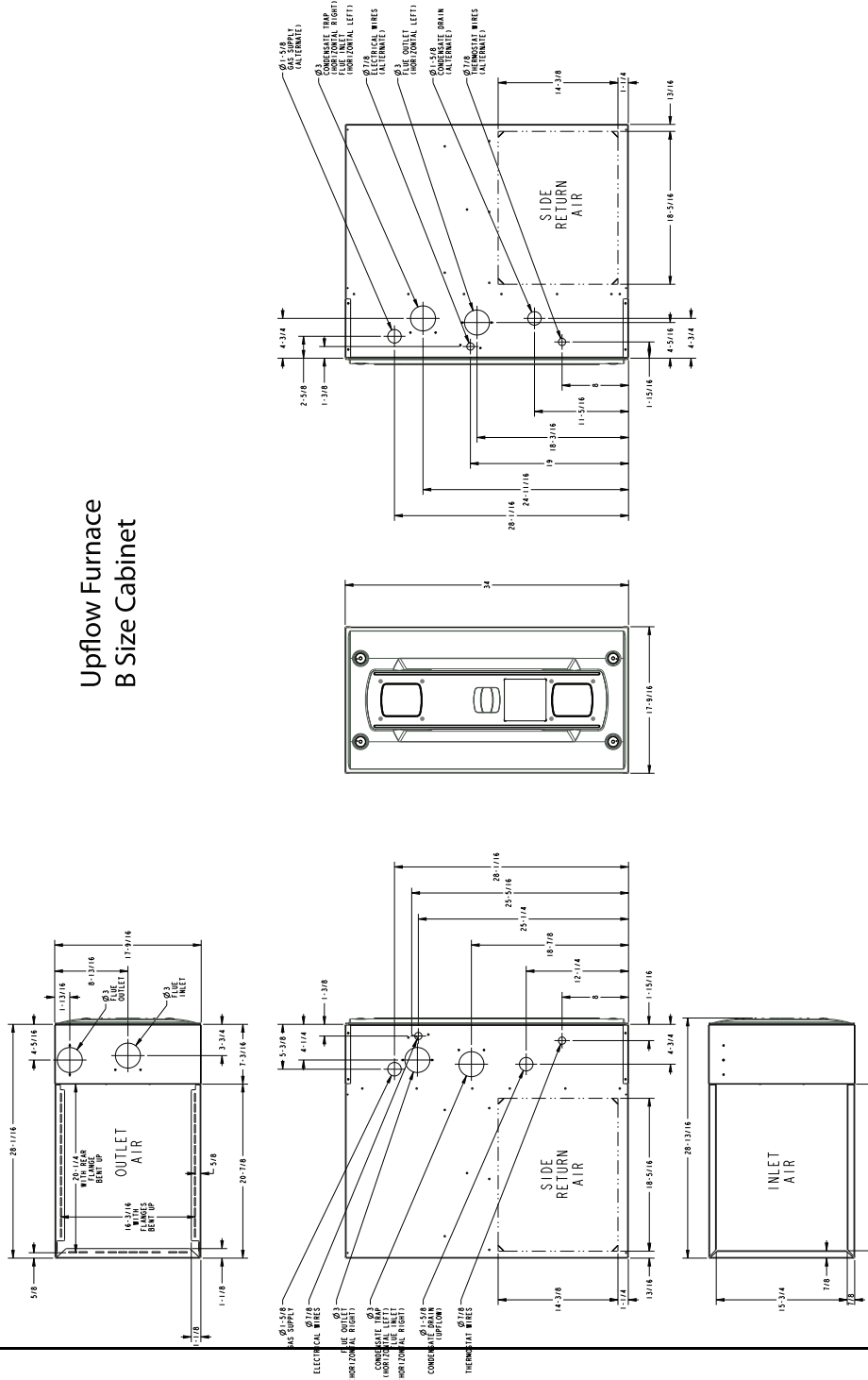


INTER-COMPONENT WIRING

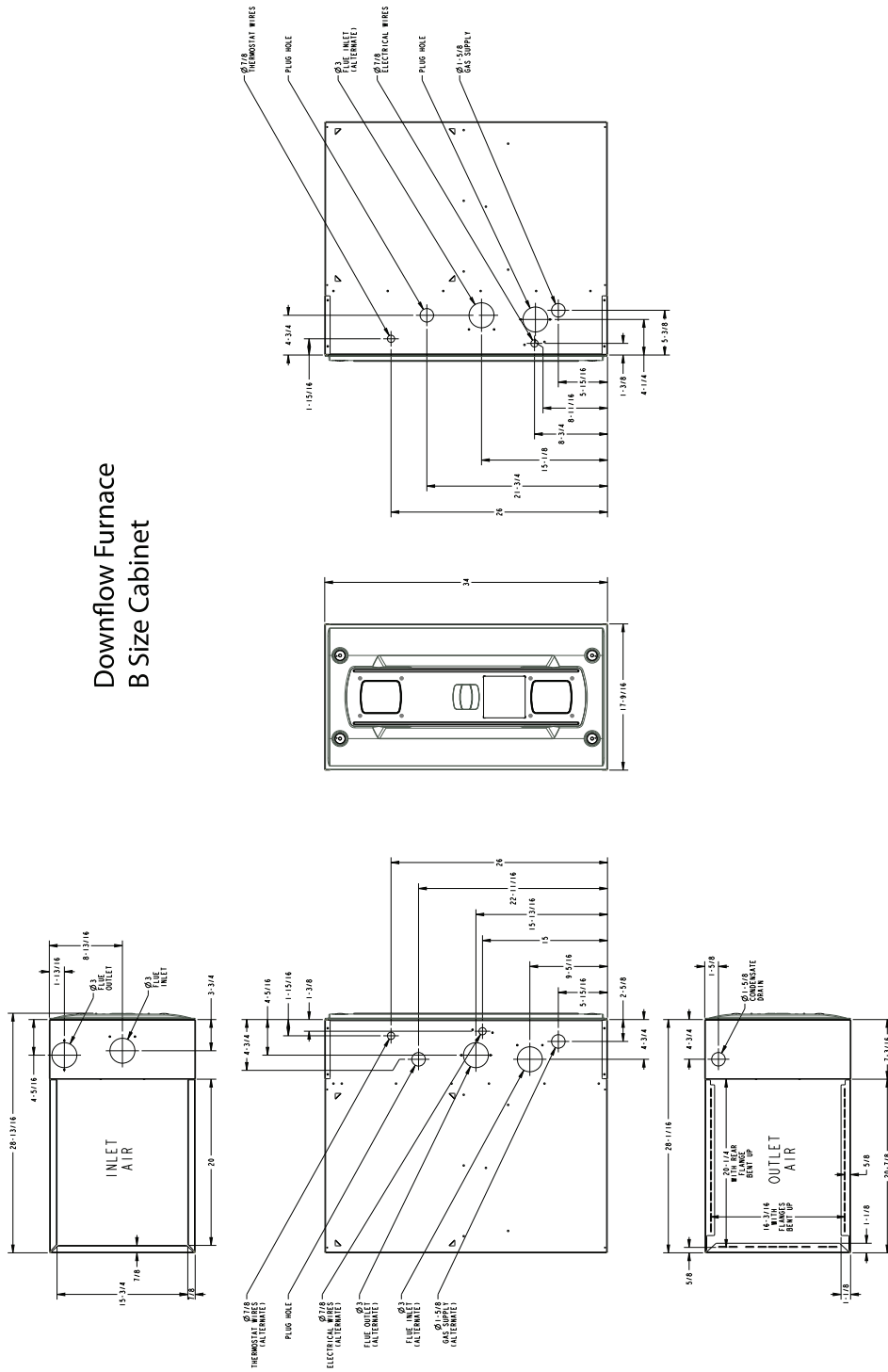
- 24 V FIELD WIRING
- 24 V FACTORY WIRING

Outline Drawings

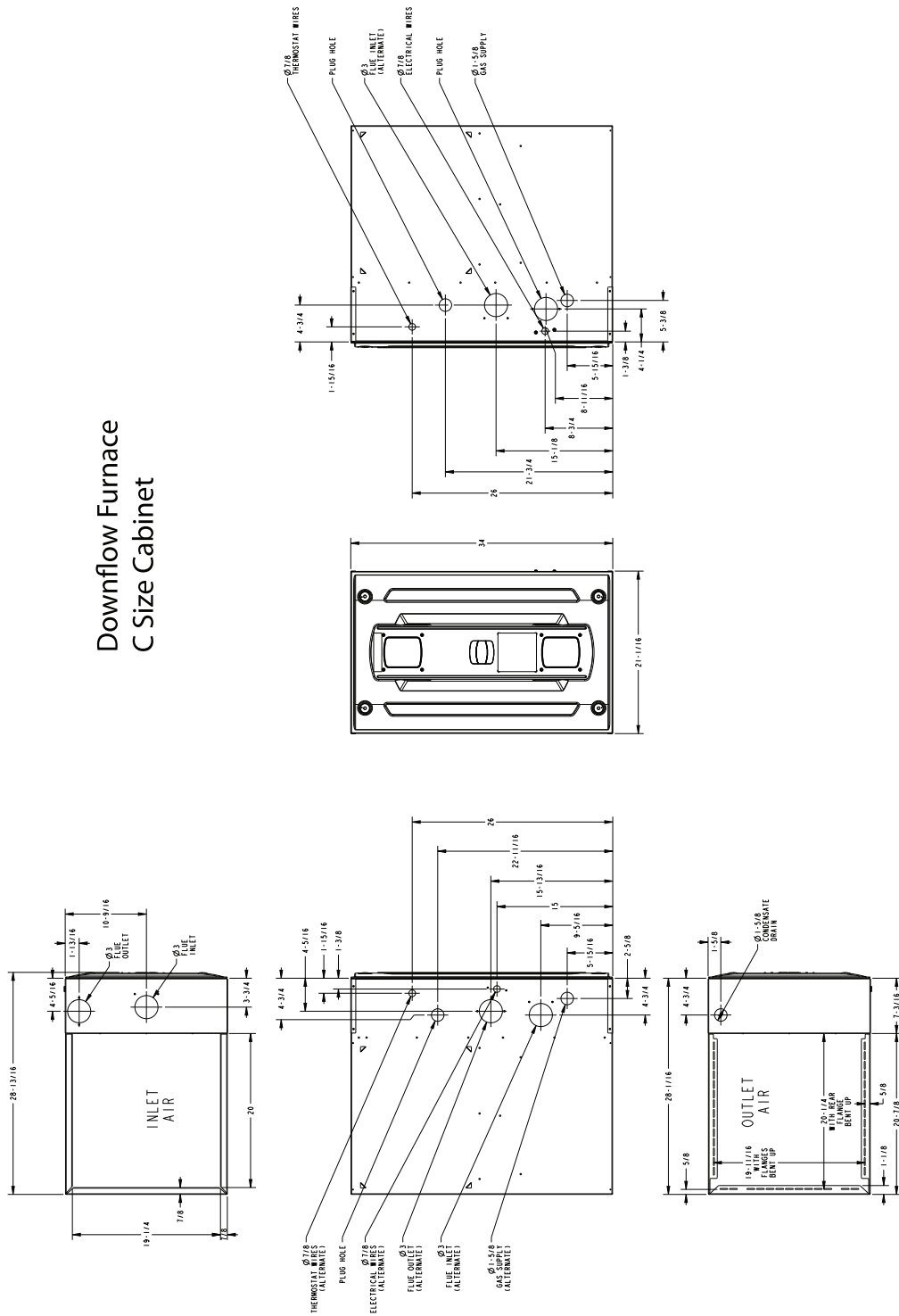
Upflow Furnace B Size Cabinet



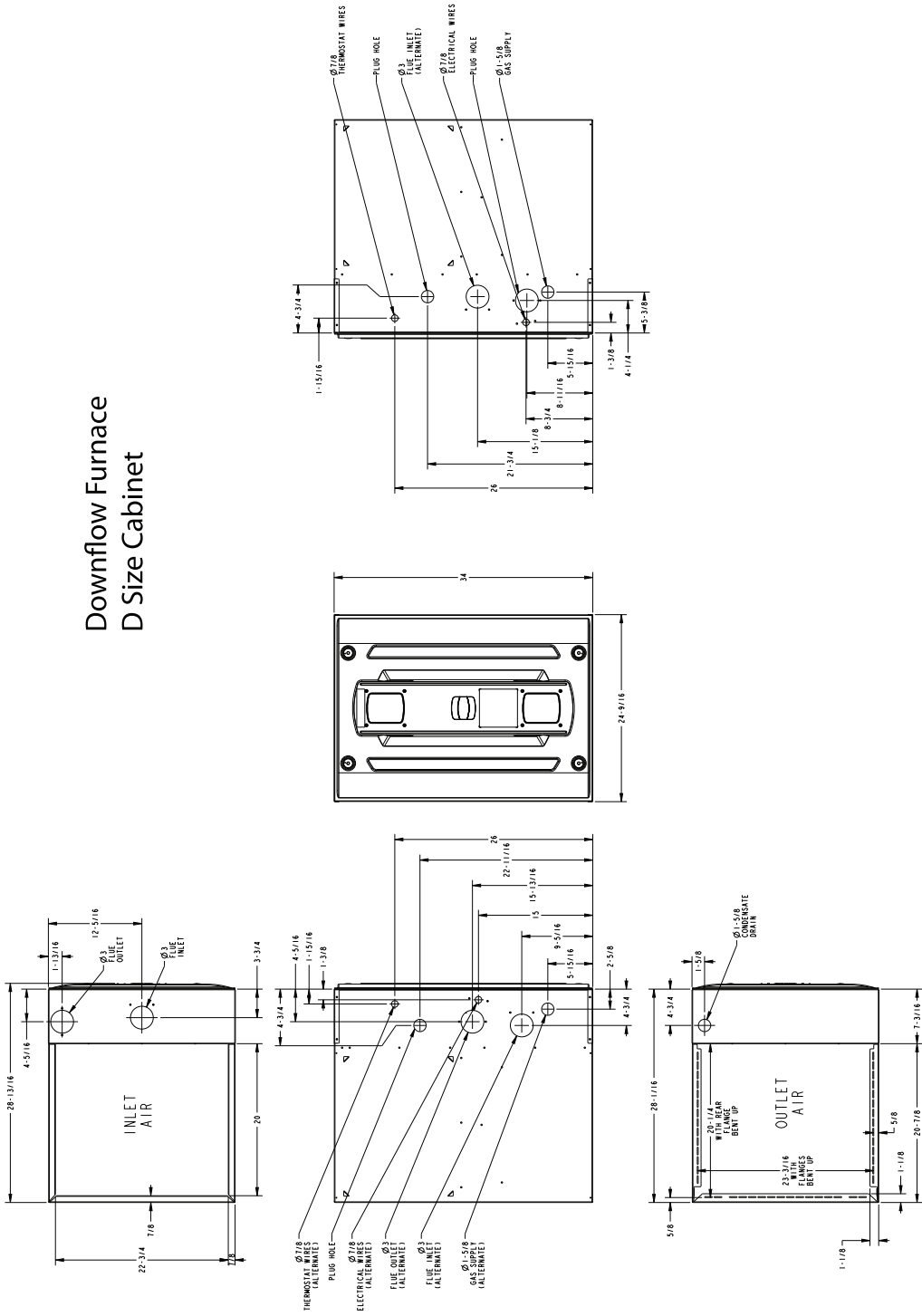
Downflow Furnace
B Size Cabinet



Downflow Furnace C Size Cabinet



Downflow Furnace
D Size Cabinet





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22-1921-1A-EN 01 Feb 2016
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