

Product Data

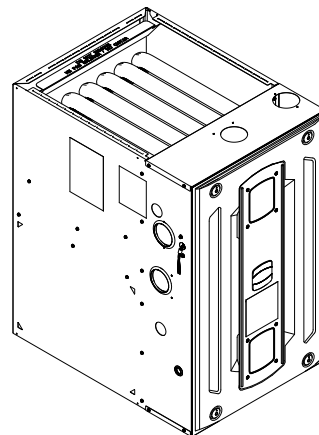
Upflow/ Horizontal Left/Right, Dedicated Downflow Two Stage Condensing Gas Fired Furnace

Upflow, Convertible to Horizontal Right or Horizontal Left

S9V2B040U3PSBB
S9V2B060U3PSBB
S9V2B060U4PSBB
S9V2B080U4PSBB
S9V2C080U5PSBB
S9V2C100U4PSBB
S9V2C100U5PSBB
S9V2D120U5PSBB

Downflow Only

S9V2B040D3PSBB
S9V2B060D3PSBB
S9V2B080D4PSBB
S9V2C100D4PSBB
S9V2C100D5PSBB
S9V2D120D5PSBB



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

CAUTION

COIL REQUIREMENT!

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

General Features

NATURAL GAS MODELS

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

SAFE OPERATION

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

QUICK HEATING

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

BURNERS

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

INTEGRATED SYSTEM CONTROL

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

ENERGY EFFICIENT OPERATION

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

AIR DELIVERY

The 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

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

6 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 aluminized 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 (Downflow only)	All Downflow Furnaces
BAYSF1165AA ^(a)	1" SlimFit Box with MERV 4 Filter	All Upflow Furnaces
BAYLPSS400*	Propane Conversion Kit with Stainless Steel Burners	All Furnaces
BAYMFGH200B	Manufactured/Mobile Housing Kit	All Furnaces
BAYCNDTRAP2A	Inline Condensate Trap Kit used with Special Venting on 2" Vent Pipe	All Furnaces
BAYCNDTRAP3A	Inline Condensate Trap Kit used with Special Venting on 3" Vent Pipe	All Furnaces

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

Product Specification

MODEL	S9V2B040U3PSBB (a)	S9V2B060U3PSBB (a)	S9V2B060U4PSBB (a)	S9V2B080U4PSBB (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	35 - 65
AFUE (%) (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	3/4
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	8.0
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	10.8

Product Specification

MODEL	S9V2B040U3PSBB (a)	S9V2B060U3PSBB (a)	S9V2B060U4PSBB (a)	S9V2B080U4PSBB (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	135/127

(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	S9V2C080U5PSBB (a)	S9V2C100U4PSBB (a)	S9V2C100U5PSBB (a)	S9V2D120U5PSBB (a)
TYPE	Upflow/Horizontal	Upflow/Horizontal	Upflow / Horizontal	Upflow/Horizontal
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 (%) (d)	96.0	96.0	96.0	96.0
BLOWER DRIVE	DIRECT	DIRECT	DIRECT	DIRECT
Diameter — Width (In.)	11 X 10	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	1	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	10.5	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.)	1 — 20x25 — 1 in.	1 — 20x25 — 1 in.	1 — 20x25 — 1 in.	1 — 24x25 — 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

Product Specification

MODEL	S9V2C080U5PSBB (a)	S9V2C100U4PSBB (a)	S9V2C100U5PSBB (a)	S9V2D120U5PSBB (a)
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)	13.9	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
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 21 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 23 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.)	149/139	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 — 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	S9V2B040D3PSBB (a)	S9V2B060D3PSBB (a)	S9V2B080D4PSBB (a)
TYPE	Downflow	Downflow	Downflow
RATINGS (b)			
1st Stage Input BTUH (ICS)	26,000	39,000	52,000
1st Stage Capacity BTUH	25,220	37,830	50,440
2nd Stage Input BTUH	40,000	60,000	80,000
2nd Stage Capacity BTUH (ICS) (c) (d)	38,800	58,200	77,600
1st Stage Temp. Rise (Min.-Max.)	25 - 55	25 - 55	30 - 60
2nd Stage Temp. Rise (Min.-Max.)	30 - 60	35 - 65	35 - 65
AFUE (%) (d)	96.0	96.0	96.0
BLOWER DRIVE	DIRECT	DIRECT	DIRECT
Diameter — Width (In.)	11 X 8	11 X 8	11 X 8
No. Used	1	1	1
Speeds (No.)	Variable	Variable	Variable
CFM vs. in. w.g.	See Fan Performance Table	See Fan Performance Table	See Fan Performance Table
Motor HP	1/2	1/2	3/4
RPM	Variable	Variable	Variable
Volts/Ph/Hz	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60
FLA	5.7	5.7	8.0
COMBUSTION FAN — Type	Centrifugal	Centrifugal	Centrifugal

Product Specification

MODEL	S9V2B040D3PSBB (a)	S9V2B060D3PSBB (a)	S9V2B080D4PSBB (a)
Drive — No. Speeds	Direct - 2	Direct - 2	Direct - 2
Motor HP — RPM	3300/2600	3300/2600	3300/2600
Volts/Ph/Hz	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60
FLA	0.66	0.66	0.66
FILTER — Furnished?	No	No	No
Type recommended	High Velocity	High Velocity	High Velocity
Hi Vel. (No.-Size-Thk.)	2 — 14x20 — 1 in.	2 — 14x20 — 1 in.	2 — 14x20 — 1 in.
VENT PIPE DIAMETER — Min (in.) (e) (f)	2 Round	2 Round	2 Round
HEAT EXCHANGER			
Type — Fired	409 Stainless Steel	409 Stainless Steel	409 Stainless Steel
— Unfired	29-4C Stainless Steel	29-4C Stainless Steel	29-4C Stainless Steel
Gauge (Fired)	20	20	20
ORIFICES — Main			
Nat. Gas Qty. — Drill Size	2- 45	3 - 45	4 - 45
LP Gas Qty. — Drill Size	2- 56	3 - 56	4- 56
GAS VALVE	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
BURNERS — Type	Multiport Inshot	Multiport Inshot	Multiport Inshot
Number	2	3	4
POWER CONN. — V/Ph/Hz (g)	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60
Ampacity (In Amps)	7.9	7.9	10.8
Max. Overcurrent Protection (Amps)	15	15	15
PIPE CONN. SIZE (in.)	1/2	1/2	1/2
DIMENSIONS	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
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
WEIGHT			
Shipping (Lbs.)/Net (Lbs.)	122/114	127/119	135/127

(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	S9V2C100D4PSBB (a)	S9V2C100D5PSBB (a)	S9V2D120D5PSBB (a)
TYPE	Downflow	Downflow	Downflow
RATINGS (b)			
1st Stage Input BTUH (ICS)	65,000	65,000	78,000
1st Stage Capacity BTUH	63,050	63,050	75,660
2nd Stage Input BTUH	100,000	100,000	120,000
2nd Stage Capacity BTUH (ICS) (c) (d)	97,000	97,000	116,400
1st Stage Temp. Rise (Min.-Max.)	25 - 55	25 - 55	35-65
2nd Stage Temp. Rise (Min.-Max.)	35 - 65	30 - 60	40-70
AFUE (%) (d)	96.0	96.0	96.0
BLOWER DRIVE	DIRECT	DIRECT	DIRECT
Diameter — Width (In.)	11 X 10	11 X 10	11 X 10
No. Used	1	1	1
Speeds (No.)	Variable	Variable	Variable
CFM vs. in. w.g.	See Fan Performance Table	See Fan Performance Table	See Fan Performance Table
Motor HP	3/4	1	1
RPM	Variable	Variable	Variable
Volts/Ph/Hz	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60
FLA	8.0	10.5	10.5
COMBUSTION FAN — Type	Centrifugal	Centrifugal	Centrifugal
Drive — No. Speeds	Direct - 2	Direct - 2	Direct - 2
Motor HP — RPM	3300/2600	3300/2600	3300/2600
Volts/Ph/Hz	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60
FLA	0.66	0.66	0.66
FILTER — Furnished?	No	No	No
Type recommended	High Velocity	High Velocity	High Velocity
Hi Vel. (No.-Size-Thk.)	2 — 16x20 — 1 in.	2 — 16x20 — 1 in.	2 — 16x20 — 1 in.
VENT PIPE DIAMETER — Min (in.) (e) (f)	2 Round	2 Round	3 Round
HEAT EXCHANGER			
Type — Fired	409 Stainless Steel	409 Stainless Steel	409 Stainless Steel
— Unfired	29-4C Stainless Steel	29-4C Stainless Steel	29-4C Stainless Steel
Gauge (Fired)	20	20	20
ORIFICES — Main			
Nat. Gas Qty. — Drill Size	5 - 45	5 - 45	6 - 45
LP Gas Qty. — Drill Size	5- 56	5- 56	6- 56
GAS VALVE	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
BURNERS — Type	Multiport Inshot	Multiport Inshot	Multiport Inshot
Number	5	5	6
POWER CONN. — V/Ph/Hz (g)	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60
Ampacity (In Amps)	10.8	13.9	13.9
Max. Overcurrent Protection (Amps)	15	15	15
PIPE CONN. SIZE (in.)	1/2	1/2	1/2

Product Specification

MODEL	S9V2C100D4PSBB (a)	S9V2C100D5PSBB (a)	S9V2D120D5PSBB (a)
DIMENSIONS	H x W x D	H x W x D	H x W x D
Uncrated (In.)	34 x 21 x 28-3/4	34 x 21 x 28-3/4	34 x 24-1/2 x 28-3/4
Crated (In.)	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.)	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

Table 2. S9V2B040U3PSBB Heating Airflow

S9V2B040U3PSBB 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.

Table 3. S9V2B040D3PSBB Heating Airflow

S9V2B040D3PSBB 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	464	453	442	431	420
			Temp. Rise	51	52	53	54	55
			Watts	26	55	84	113	142
	Medium Low (a)	634	CFM	616	607	599	591	583
			Temp. Rise	38	38	39	40	40
			Watts	40	78	115	152	190
	Medium	684	CFM	635	643	650	658	666
			Temp. Rise	37	37	36	36	35
			Watts	47	106	165	224	283
	High	900	CFM	824	843	861	880	898
			Temp. Rise	28	28	27	26	26
			Watts	82	130	178	226	274
Heating 2nd Stage	Low	650	CFM	662	655	649	642	635
			Temp. Rise	54	55	55	56	56
			Watts	37	79	120	162	203
	Medium Low (a)	880	CFM	811	818	826	834	841
			Temp. Rise	45	44	44	43	42
			Watts	67	121	176	230	284
	Medium	950	CFM	859	865	871	877	884
			Temp. Rise	42	41	41	41	41
			Watts	88	144	200	256	312
	High	1250	CFM	1082	1092	1102	1111	1121
			Temp. Rise	33	33	33	33	33
			Watts	192	253	314	375	436

(a) Factory Setting.

Heating and Cooling Airflow Tables

Table 4. S9V2B040U3PSBB / S9V2B040D3PSBB Cooling Airflow

S9V2B040U3PSBB / S9V2B040D3PSBB 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	675	675	675	675	675
		CFM/Ton	Watts	47	81	121	166	215
		Cooling 420	CFM	630	630	630	630	630
		CFM/Ton	Watts	40	72	111	154	202
		Cooling 400	CFM	600	600	600	600	600
		CFM/Ton	Watts	36	67	105	147	193
		Cooling 370	CFM	555	555	555	555	555
		CFM/Ton	Watts	30	60	96	136	181
		Cooling 350	CFM	525	525	525	525	525
		CFM/Ton	Watts	27	56	90	130	174
		Cooling 330	CFM	495	495	495	495	495
		CFM/Ton	Watts	24	51	85	124	167
Cooling	2.0 Ton	Cooling 310	CFM	465	465	465	465	465
		CFM/Ton	Watts	21	48	80	118	161
		Cooling 290	CFM	435	435	435	435	435
		CFM/Ton	Watts	19	44	76	113	155
		Cooling 450	CFM	900	900	900	900	900
		CFM/Ton	Watts	94	137	186	240	298
		Cooling 420	CFM	840	840	840	840	840
		CFM/Ton	Watts	79	120	166	218	273
		Cooling 400	CFM	800	800	800	800	800
		CFM/Ton	Watts	70	109	154	204	258
		Cooling 370	CFM	740	740	740	740	740
		CFM/Ton	Watts	58	95	138	185	236
Cooling	2.5 Ton	Cooling 350	CFM	700	700	700	700	700
		CFM/Ton	Watts	51	86	127	173	223
		Cooling 330	CFM	660	660	660	660	660
		CFM/Ton	Watts	44	78	118	162	211
		Cooling 310	CFM	620	620	620	620	620
		CFM/Ton	Watts	38	71	109	152	199
		Cooling 290	CFM	580	580	580	580	580
		CFM/Ton	Watts	33	64	101	142	188
		Cooling 450	CFM	1125	1125	1125	1125	1125
		CFM/Ton	Watts	167	219	278	341	408
		Cooling 420	CFM	1050	1050	1050	1050	1050
		CFM/Ton	Watts	139	188	244	304	368
Cooling	3.0 Ton ^(a)	Cooling 400	CFM	1000	1000	1000	1000	1000
		CFM/Ton	Watts	123	170	223	281	343
		Cooling 370	CFM	925	925	925	925	925
		CFM/Ton	Watts	100	145	195	250	308
		Cooling 350	CFM	875	875	875	875	875
		CFM/Ton	Watts	87	129	178	230	287
		Cooling 330	CFM	825	825	825	825	825
		CFM/Ton	Watts	121	160	205	254	308
		Cooling 310	CFM	775	775	775	775	775
		CFM/Ton	Watts	101	139	182	229	281
		Cooling 290	CFM	725	725	725	725	725
		CFM/Ton	Watts	88	123	164	210	260
Cooling	3.0 Ton ^(a)	Cooling 450	CFM	1350	1350	1350	1298	1198
		CFM/Ton	Watts	272	334	402	440	450
		Cooling 420	CFM	1260	1260	1260	1260	1198
		CFM/Ton	Watts	226	284	348	417	450
		Cooling 400	CFM	1200	1200	1200	1200	1198
		CFM/Ton	Watts	198	254	315	381	450
		Cooling 370	CFM	1110	1110	1110	1110	1110
		CFM/Ton	Watts	161	213	271	333	399
		Cooling 350	CFM	1050	1050	1050	1050	1050
		CFM/Ton ^(a)	Watts	139	188	244	304	368
		Cooling 330	CFM	990	990	990	990	990
		CFM/Ton	Watts	119	166	219	277	338
Cooling	3.0 Ton ^(a)	Cooling 310	CFM	930	930	930	930	930
		CFM/Ton	Watts	102	146	197	252	311
		Cooling 290	CFM	870	870	870	870	870
		CFM/Ton	Watts	86	128	176	229	285

^(a) Factory Setting

Heating and Cooling Airflow Tables

Table 5. S9V2B060U3PSBB Heating Airflow

S9V2B060U3PSBB 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	660	658	656	654	652
			Temp. Rise	53	53	53	53	54
			Watts	48	85	121	157	193
	Medium Low (a)	814	CFM	860	856	852	848	844
			Temp. Rise	41	41	42	42	43
			Watts	91	128	164	200	236
	Medium	893	CFM	900	899	898	897	896
			Temp. Rise	39	39	39	39	39
			Watts	110	147	183	219	255
	High	1027	CFM	1068	1061	1054	1047	1041
			Temp. Rise	33	33	33	33	33
			Watts	165	202	239	276	313
Heating 2nd Stage	Low	800	CFM	838	838	837	837	837
			Temp. Rise	64	64	64	64	64
			Watts	81	127	172	218	264
	Medium Low (a)	1030	CFM	1097	1084	1071	1058	1045
			Temp. Rise	49	50	50	51	52
			Watts	157	209	262	314	366
	Medium	1130	CFM	1140	1135	1130	1124	1119
			Temp. Rise	47	47	48	48	48
			Watts	201	255	308	362	416
	High	1300	CFM	1289	1288	1288	1287	1287
			Temp. Rise	42	42	42	42	42
			Watts	319	365	410	456	502

(a) Factory Setting.

Table 6. S9V2B060D3PSBB Heating Airflow

S9V2B060D3PSBB 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	634	636	638	640	641
			Temp. Rise	55	55	55	55	55
			Watts	52	93	133	174	215
	Medium Low	711	CFM	712	713	714	715	716
			Temp. Rise	49	49	49	49	49
			Watts	63	106	148	190	232
	Medium(a)	814	CFM	814	814	814	814	814
			Temp. Rise	43	43	43	43	43
			Watts	88	135	181	228	274
	High	893	CFM	892	892	891	890	889
			Temp. Rise	39	39	39	39	39
			Watts	104	145	186	227	268
Heating 2nd Stage	Low	800	CFM	800	800	801	801	801
			Temp. Rise	67	67	67	67	67
			Watts	82	134	186	238	290
	Medium Low	900	CFM	899	898	898	897	896
			Temp. Rise	60	60	60	60	60
			Watts	109	163	217	271	325
	Medium (a)	1030	CFM	1028	1026	1024	1022	1019
			Temp. Rise	52	53	53	53	53
			Watts	161	210	260	310	360
	High	1130	CFM	1127	1124	1121	1118	1114
			Temp. Rise	48	48	48	48	48
			Watts	189	247	305	363	421

(a) Factory Setting.

Heating and Cooling Airflow Tables

Table 7. S9V2B060U3PSBB / S9V2B060D3PSBB Cooling Airflow

S9V2B060U3PSBB / S9V2B060D3PSBB 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	675	675	675	675	675
		CFM/Ton	Watts	46	81	121	165	212
		Cooling 420	CFM	630	630	630	630	630
		CFM/Ton	Watts	40	72	111	153	200
		Cooling 400	CFM	600	600	600	600	600
		CFM/Ton	Watts	36	67	105	146	192
		Cooling 370	CFM	555	555	555	555	555
		CFM/Ton	Watts	30	60	96	137	182
		Cooling 350	CFM	525	525	525	525	525
		CFM/Ton	Watts	27	56	91	131	175
		Cooling 330	CFM	495	495	495	495	495
		CFM/Ton	Watts	24	52	86	126	170
Cooling	2.0 Ton	Cooling 450	CFM	900	900	900	900	900
		CFM/Ton	Watts	92	135	184	236	291
		Cooling 420	CFM	840	840	840	840	840
		CFM/Ton	Watts	78	118	164	214	267
		Cooling 400	CFM	800	800	800	800	800
		CFM/Ton	Watts	69	108	153	201	253
		Cooling 370	CFM	740	740	740	740	740
		CFM/Ton	Watts	57	94	136	183	232
		Cooling 350	CFM	700	700	700	700	700
		CFM/Ton	Watts	50	86	126	171	220
		Cooling 330	CFM	660	660	660	660	660
		CFM/Ton	Watts	44	78	117	161	208
Cooling	2.5 Ton	Cooling 450	CFM	1125	1125	1125	1125	1125
		CFM/Ton	Watts	164	216	273	334	399
		Cooling 420	CFM	1050	1050	1050	1050	1050
		CFM/Ton	Watts	137	186	240	298	359
		Cooling 400	CFM	1000	1000	1000	1000	1000
		CFM/Ton	Watts	121	168	220	276	335
		Cooling 370	CFM	925	925	925	925	925
		CFM/Ton	Watts	99	143	192	245	302
		Cooling 350	CFM	875	875	875	875	875
		CFM/Ton	Watts	86	128	175	227	281
		Cooling 330	CFM	825	825	825	825	825
		CFM/Ton	Watts	74	115	160	209	262
Cooling	3.0 Ton ^(a)	Cooling 450	CFM	1350	1350	1350	1296	1218
		CFM/Ton	Watts	267	329	395	431	452
		Cooling 420	CFM	1260	1260	1260	1260	1218
		CFM/Ton	Watts	222	279	342	409	452
		Cooling 400	CFM	1200	1200	1200	1200	1200
		CFM/Ton	Watts	195	250	310	374	441
		Cooling 370	CFM	1110	1110	1110	1110	1110
		CFM/Ton	Watts	158	210	266	327	390
		Cooling 350	CFM	1050	1050	1050	1050	1050
		CFM/Ton ^(a)	Watts	137	186	240	298	359
		Cooling 330	CFM	990	990	990	990	990
		CFM/Ton	Watts	118	164	216	272	330
Cooling		Cooling 310	CFM	930	930	930	930	930
		CFM/Ton	Watts	100	145	194	247	304
		Cooling 290	CFM	870	870	870	870	870
		CFM/Ton	Watts	85	127	174	225	279

^(a) Factory Setting

Heating and Cooling Airflow Tables

Table 8. S9V2B060U4PSBB Heating Airflow

S9V2B060U4PSBB 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	776	769	762	756	749
			Temp. Rise	45	45	45	45	46
			Watts	70	109	149	188	227
	Medium Low	861	CFM	842	823	805	786	768
			Temp. Rise	42	43	43	44	44
			Watts	88	126	164	202	240
	Medium (a)	916	CFM	863	860	858	855	853
			Temp. Rise	41	41	41	41	41
			Watts	105	143	181	219	257
	High	1027	CFM	1105	1084	1063	1042	1021
			Temp. Rise	32	32	33	34	34
			Watts	135	173	210	248	285
Heating 2nd Stage	Low	990	CFM	1002	996	990	984	979
			Temp. Rise	55	55	55	55	55
			Watts	126	172	219	266	313
	Medium Low	1090	CFM	1130	1117	1105	1092	1079
			Temp. Rise	49	49	49	50	50
			Watts	160	206	253	300	347
	Medium (a)	1160	CFM	1139	1133	1128	1122	1116
			Temp. Rise	48	48	49	49	49
			Watts	181	231	281	331	381
	High	1300	CFM	1319	1307	1295	1283	1272
			Temp. Rise	41	42	42	42	43
			Watts	246	300	353	407	461

(a) Factory Setting.

Heating and Cooling Airflow Tables

Table 9. S9V2B060U4PSBB Cooling Airflow

S9V2B060U4PSBB 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
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

Heating and Cooling Airflow Tables

Table 10. S9V2B080U4PSBB Heating Airflow

S9V2B080U4PSBB 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.

Table 11. S9V2B080D4PSBB Heating Airflow

S9V2B080D4PSBB 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	1480	CFM	1227	1227	1227	1227	1227
			Temp. Rise	57	57	57	57	57
			Watts	320	390	460	530	600

^(a) Factory Setting.

Heating and Cooling Airflow Tables

Table 12. S9V2B080U4PSBB / S9V2B080D4PSBB Cooling Airflow

S9V2B080U4PSBB / S9V2B080D4PSBB 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	3.0 Ton	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 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	3.5 Ton	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
		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	4.0 Ton ^(a)	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	4.0 Ton ^(a)	Cooling 310 CFM/Ton	CFM	1240	1240	1240	1240	1240
			Watts	201	255	314	375	439
Cooling	4.0 Ton ^(a)	Cooling 290 CFM/Ton	CFM	1160	1160	1160	1160	1160
			Watts	168	220	275	334	395

^(a) Factory Setting

Heating and Cooling Airflow Tables

Table 13. S9V2C080U5PSBB Heating Airflow

S9V2C080U5PSBB 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

Table 14. S9V2C080U5PSBB Cooling Airflow

S9V2C080U5PSBB 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	4.0 Ton	Cooling 290 CFM/Ton	CFM	1015	1015	1015	1015	1015
			Watts	91	138	189	244	302
		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	4.5 Ton	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
		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	5.0 Ton ^(a)	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 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	5.0 Ton ^(a)	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

Table 15. S9V2C100U4PSBB Heating Airflow

S9V2C100U4PSBB 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	1139	1128	1118	1107	1097
			Temp. Rise	52	52	52	52	53
			Watts	139	192	246	299	352
	Medium Low	1280	CFM	1275	1260	1244	1229	1213
			Temp. Rise	46	47	47	48	48
			Watts	187	239	291	343	395
	Medium	1359	CFM	1304	1287	1270	1253	1236
			Temp. Rise	45	46	46	47	47
			Watts	211	272	332	393	454
	High (a)	1446	CFM	1437	1436	1436	1435	1434
			Temp. Rise	41	41	41	41	41
			Watts	255	311	367	423	479
Heating 2nd Stage	Low	1450	CFM	1449	1445	1440	1435	1431
			Temp. Rise	63	63	63	63	63
			Watts	272	336	401	466	531
	Medium Low	1620	CFM	1664	1651	1639	1626	1613
			Temp. Rise	55	55	55	56	56
			Watts	354	424	493	562	631
	Medium	1720	CFM	1694	1687	1681	1674	1667
			Temp. Rise	53	54	54	54	54
			Watts	408	484	559	635	711
	High (a)	1830	CFM	1849	1827	1805	1783	1761
			Temp. Rise	49	50	50	51	51
			Watts	525	579	633	687	741

(a) Factory Setting.

Table 16. S9V2C100D4PSBB Heating Airflow

S9V2C100D4PSBB 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	1080	CFM	1068	1048	1029	1009	989
			Temp. Rise	55	57	60	63	66
			Watts	101	151	201	251	301
	Medium Low	1166	CFM	1158	1113	1068	1023	978
			Temp. Rise	51	53	55	57	59
			Watts	115	172	229	285	342
	Medium (a)	1318	CFM	1326	1272	1218	1164	1111
			Temp. Rise	46	48	50	51	53
			Watts	153	206	259	312	365
	High	1361	CFM	1312	1270	1229	1188	1147
			Temp. Rise	46	47	47	48	49
			Watts	166	221	276	331	387
Heating 2nd Stage	Low	1500	CFM	1514	1478	1441	1404	1367
			Temp. Rise	58	60	61	63	64
			Watts	223	297	370	443	516
	Medium Low	1620	CFM	1620	1588	1556	1523	1491
			Temp. Rise	55	56	57	58	59
			Watts	276	345	415	484	553
	Medium (a)	1830	CFM	1768	1746	1724	1702	1620
			Temp. Rise	50	51	52	53	53
			Watts	372	446	520	594	668
	High	1890	CFM	1810	1783	1756	1729	1702
			Temp. Rise	49	50	51	52	52
			Watts	405	476	548	677	695

(a) Factory Setting.

Heating and Cooling Airflow Tables

Table 17. S9V2C100U4PSBB / S9V2C100D4PSBB Cooling Airflow

S9V2C100U4PSBB / S9V2C100D4PSBB 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	3.0 Ton	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 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	3.5 Ton	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
		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	4.0 Ton ^(a)	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

Table 18. S9V2C100U5PSBB Heating Airflow

S9V2C100U5PSBB 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	1111	1097	1083	1068	1054
			Temp. Rise	52	52	52	52	53
			Watts	135	184	234	283	333
	Medium Low	1426	CFM	1393	1383	1372	1362	1352
			Temp. Rise	41	41	42	42	42
			Watts	232	286	340	394	447
	Medium (a)	1483	CFM	1451	1447	1443	1438	1434
			Temp. Rise	39	40	40	40	40
			Watts	260	310	360	410	460
	High	1548	CFM	1495	1477	1458	1439	1421
			Temp. Rise	38	39	39	40	40
			Watts	285	352	419	486	553
Heating 2nd Stage	Low	1590	CFM	1564	1550	1536	1522	1508
			Temp. Rise	58	58	58	58	59
			Watts	323	397	470	544	618
	Medium Low	1980	CFM	1959	1936	1913	1891	1868
			Temp. Rise	46	46	47	47	47
			Watts	597	681	764	847	930
	Medium (a)	2060	CFM	2047	2034	2021	2008	1995
			Temp. Rise	44	44	44	45	45
			Watts	655	737	818	900	982
	High	2150	CFM	2102	2087	2073	2058	2044
			Temp. Rise	43	43	43	44	44
			Watts	745	801	857	913	969

(a) Factory Setting.

Table 19. S9V2C100D5PSBB Heating Airflow

S9V2C100D5PSBB 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	1093	1092	1090	1089	1088
			Temp. Rise	53	53	53	52	52
			Watts	126	183	240	296	353
	Medium Low	1296	CFM	1234	1238	1242	1247	1251
			Temp. Rise	47	47	47	47	47
			Watts	186	243	299	356	413
	Medium	1346	CFM	1279	1268	1256	1245	1234
			Temp. Rise	45	45	46	46	47
			Watts	214	268	321	375	428
	High (a)	1512	CFM	1453	1429	1405	1381	1358
			Temp. Rise	40	40	41	41	42
			Watts	277	344	411	478	545
Heating 2nd Stage	Low	1520	CFM	1484	1477	1469	1461	1453
			Temp. Rise	60	60	61	61	61
			Watts	296	370	444	518	592
	Medium Low	1800	CFM	1693	1688	1684	1679	1674
			Temp. Rise	53	53	53	53	53
			Watts	449	533	618	702	786
	Medium	1870	CFM	1768	1772	1775	1778	1781
			Temp. Rise	51	50	50	50	50
			Watts	505	591	678	765	852
	High (a)	2100	CFM	1969	1956	1944	1931	1918
			Temp. Rise	45	45	46	46	46
			Watts	723	789	854	920	986

(a) Factory Setting.

Heating and Cooling Airflow Tables

Table 20. S9V2C100U5PSBB / S9V2C100D5PSBB Cooling Airflow

S9V2C100U5PSBB / S9V2C100D5PSBB 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	4.0 Ton	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 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	4.5 Ton	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
		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	5.0 Ton ^(a)	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	5.0 Ton ^(a)	Cooling 310 CFM/Ton	CFM	1550	1550	1550	1550	1550
			Watts	252	320	392	467	543
Cooling	5.0 Ton ^(a)	Cooling 290 CFM/Ton	CFM	1450	1450	1450	1450	1450
			Watts	210	275	342	413	485

^(a) Factory Setting

Heating and Cooling Airflow Tables

Table 21. S9V2D120U5PSBB Heating Airflow

S9V2D120U5PSBB 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.

Table 22. S9V2D120D5PSBB Heating Airflow

S9V2D120D5PSBB 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

Table 23. S9V2D120U5PSBB / S9V2D120D5PSBB Cooling Airflow

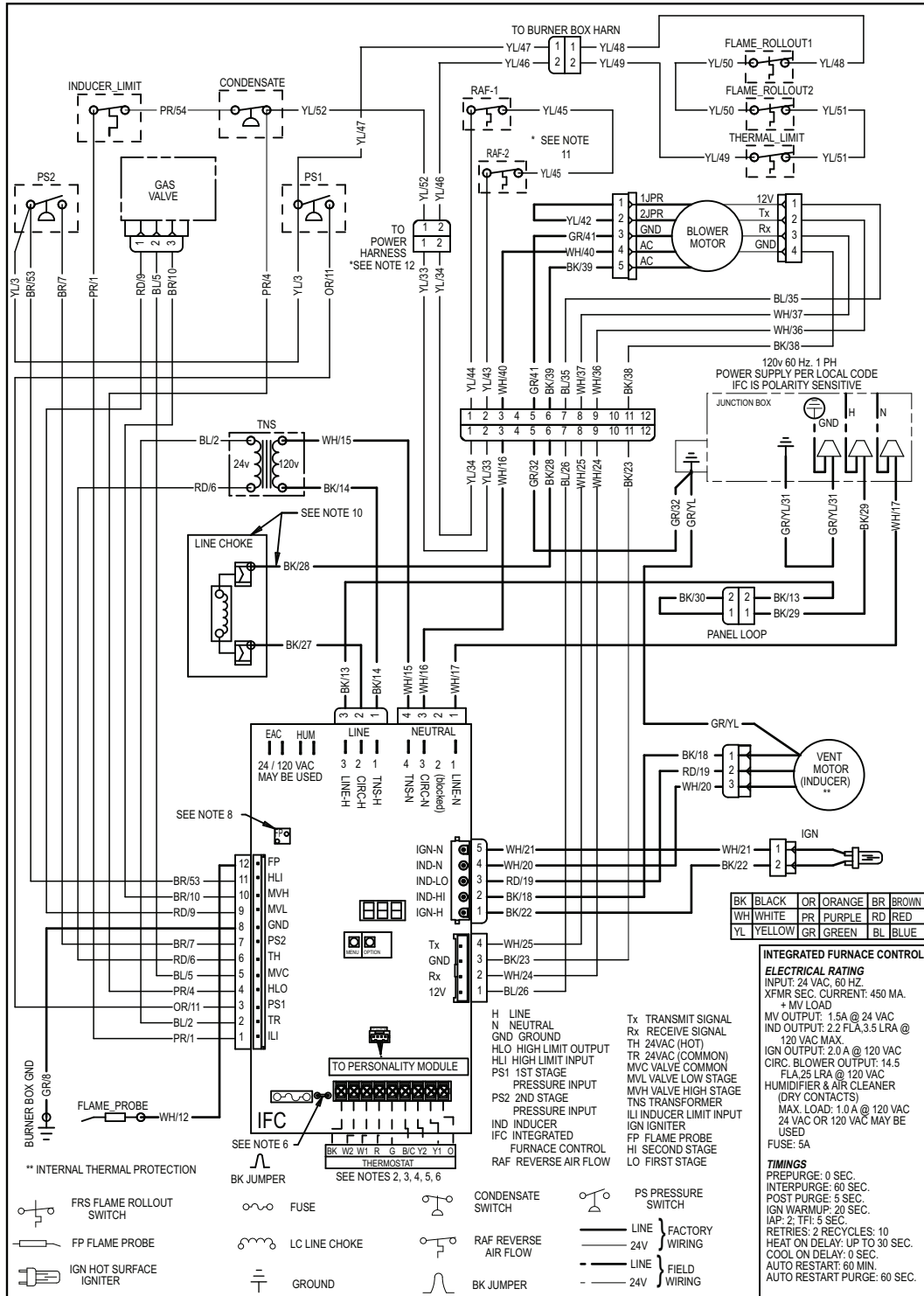
S9V2D120U5PSBB / S9V2D120D5PSBB Furnace Cooling Airflow (CFM) and Power (Watts) vs. External Static Pressure with Filter								
Cooling	Unit Outdoor	Airflow Setting (CFM/ton)		External Static Pressure				
				0.1	0.3	0.5	0.7	0.9
Cooling	3.5 Ton	Cooling 450 CFM/Ton	CFM	1575	1575	1575	1575	1575
			Watts	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	4.0 Ton	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 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	4.5 Ton	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
		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	5.0 Ton ^(a)	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	5.0 Ton ^(a)	Cooling 310 CFM/Ton	CFM	1550	1550	1550	1550	1550
			Watts	237	305	375	448	523
Cooling	5.0 Ton ^(a)	Cooling 290 CFM/Ton	CFM	1450	1450	1450	1450	1450
			Watts	199	262	328	397	468

^(a) Factory Setting

Maximum Vent Length Table

Model	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
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
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
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	50	90
S9V2B080U4PS, S9V2B080D4PS, S9V2C080U5PS	Note 1	50
S9V2C100U4PS, S9V2C100D4PS, S9V2C100U5PS, S9V2C100D5PS	Note 1	50
S9V2D120U5PS, S9V2D120D5PS	Note 1	50
Notes:		
- Not allowed - For PolyPro® by Duravent, Z-DENS by Novaflex Group, InnoFlue® by Centrotherm, and Polyflue™ manufactured modular venting systems that are in the approved vent pipe material table, fitting equivalent vent lengths may be different from what is shown in Note 6. Refer to the venting system manufacturer's installation instruction for appropriate venting diameters and equivalent lengths. - Minimum vent length for all models: 15' equivalent. - 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. - 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). - 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. - 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. - For Canadian applications, venting systems must meet ULC-S636 requirements. - 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

NOTES:

- IF ANY OF THE ORIGINAL WIRING AS SUPPLIED WITH THIS FURNACE MUST BE REPLACED. IT MUST BE WITH WIRE HAVING A TEMPERATURE RATING OF AT LEAST 105°C. WIRES 12, 48, 49, 50, AND 51 REQUIRE A TEMPERATURE RATING OF AT LEAST 250°C.
- FOR PROPER AIRFLOW IN COOLING/HEAT PUMP MODE, "Y1" MUST BE CONNECTED TO THE THERMOSTAT FOR SINGLE STAGE UNITS. FOR TWO STAGE UNITS, "Y1" AND "Y2" MUST BE CONNECTED TO THE THERMOSTAT. VSPD OD SYSTEMS REQUIRE DIFFERENT CONNECTIONS. SEE RELAY PANEL INSTRUCTIONS.
- FOR SINGLE STAGE THERMOSTATS, JUMPER "W1" AND "W2" TERMINALS. SECOND STAGE HEATING WILL BE ENERGIZED ONCE THE INTER-STAGE DELAY HAS EXPIRED. "HT2" WILL BE SHOWN ON SEVEN SEGMENT DISPLAY AT ALL TIMES.
- FOR HEAT PUMP SYSTEMS, "Y1" AND "O" TERMINALS MUST BE CONNECTED TO THE ROOM THERMOSTAT.
- FOR TWO STAGE UNITS, "Y1", "Y2", AND "O" TERMINALS MUST ALL 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 MODULATION. TO SET AIRFLOW AND COOLING OFF DELAYS.
- 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.
- LINE CHOKE AND WIRE BK/28 ONLY USED ON MODELS WITH 3/4 AND 1 HP MOTORS.
- DOWNFLOW MODELS ONLY USE ONE REVERSE AIRFLOW SWITCH.
- CONNECTION MAY OR MAY NOT BE PRESENT. IF CONNECTION IS NOT PRESENT, WIRES 33 AND 34 WILL NOT BE USED.

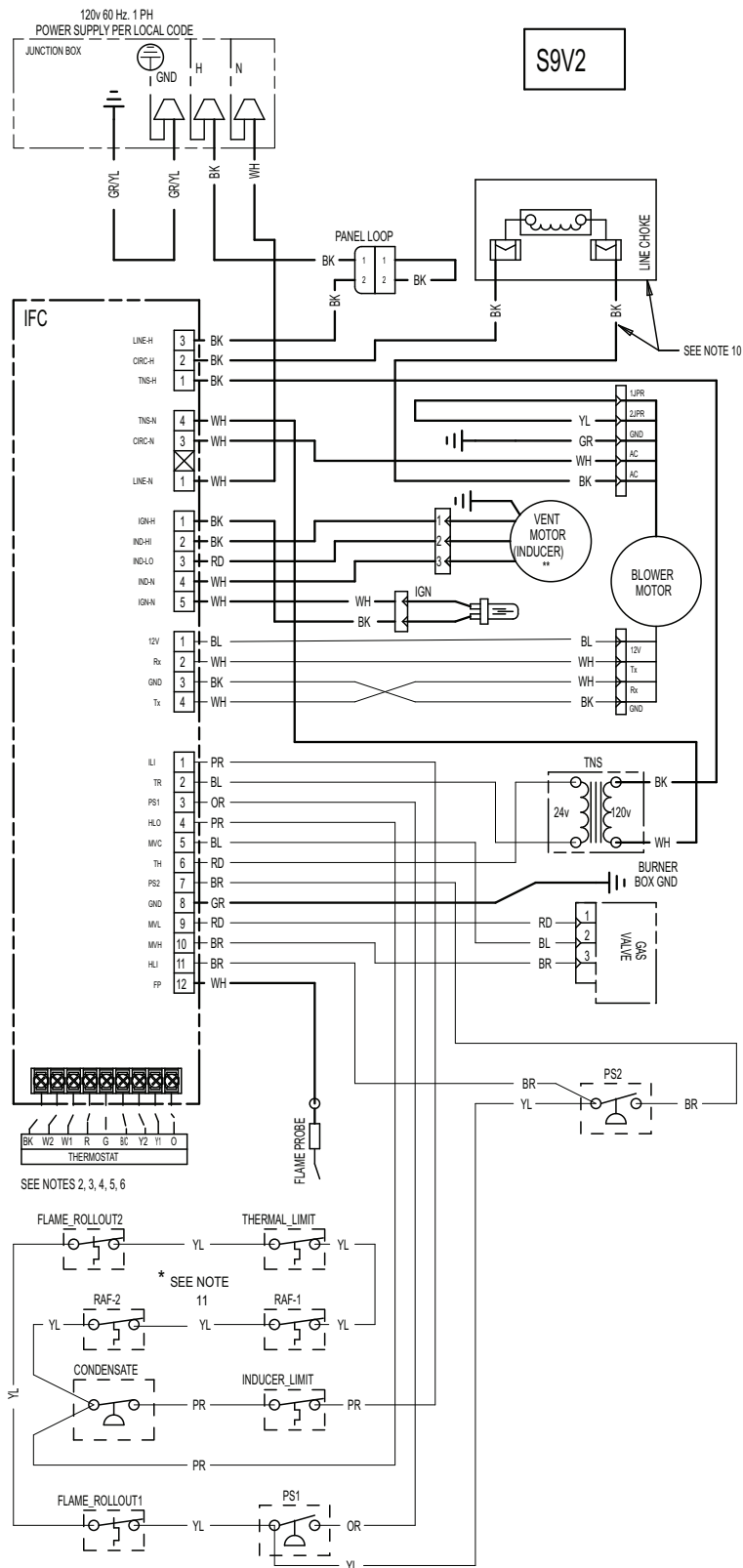
S9V2

2 Stage Inducer with ECM Blower Motor			
Status Codes	OdU	Outdoor Unit	EO4 Open Thermal Limit, Rollout Switch, or Reverse Airflow Switch
IdL Idle	ODF	Blower Constant Fan Airflow Multiplier %	EO5 Flame detected, should not be present
HL1 1st Stage Heating	CPC	Cooling (CFM/Ton)	EE1 Voltage reversed polarity
HL2 2nd Stage Heating	CPH	Heat Pump Heating (CFM/Ton)	EE2 Bad Grounding
ArF Airflow (followed by Airflow x 10)	Hod	Heat Off Delay (sec)	EE3 (1) Igniter relay fails, (2) Igniter open
	ISd	Inter-Stage Delay (sec)	E71 1st stage gas valve (MVL) is energized when it should be off
COF Continuous Fan	9HC	Gas Heating CFM (Airflow x10)	EO8 Flame current is low, but still strong enough to allow operation.
CL1 1st Stage Cooling	rUn	Run Test Mode	EO9 Open Inducer Limit Switch or Condensate Switch
CL2 2nd Stage Cooling		Error Codes	E11 (1) 1st stage gas valve not energized when it should be
HP1 1st Stage Heat Pump	EO1	Loss of the IRQ/other internal failures	(2) 1st stage gas valve relay stuck closed
HP2 2nd Stage Heat Pump	E21	Retry exceeded (Failed to est flame)	(3) 2nd stage gas valve relay stuck closed
dFt Defrost Mode	E22	Recycles exceeded (loss of established flame) or 10X PS1 open	(4) 2nd stage gas valve energized when it should not be
Menu Options			(5) 2nd stage gas valve not energized when it should be
Err Active Alarm Menu	E23	1st Stage Gas Valve not energized when it should be exceeded after 10 times	E12 Open fuse
L6F Last 6 Faults (To Clear, Hold Option Button 5 sec)	E31	Shorted Pressure Switch, 1st Stage	E13 Blower HP/OEM ID
Cr Code Release Number	E32	Open Pressure Switch, 1st Stage	E14 No PM and local copy bad
COd Cooling Off Delay (sec)	E33	Shorted Pressure Switch, 2nd Stage	E15 Both Unit Data File in PM and local Unit Data File are Corrupt
OdL Outdoor Tonnage	E34	Open Pressure Switch, 2nd Stage	E17 Blower motor no communication response
			E18 Blower communication failure on the control



D346022P01

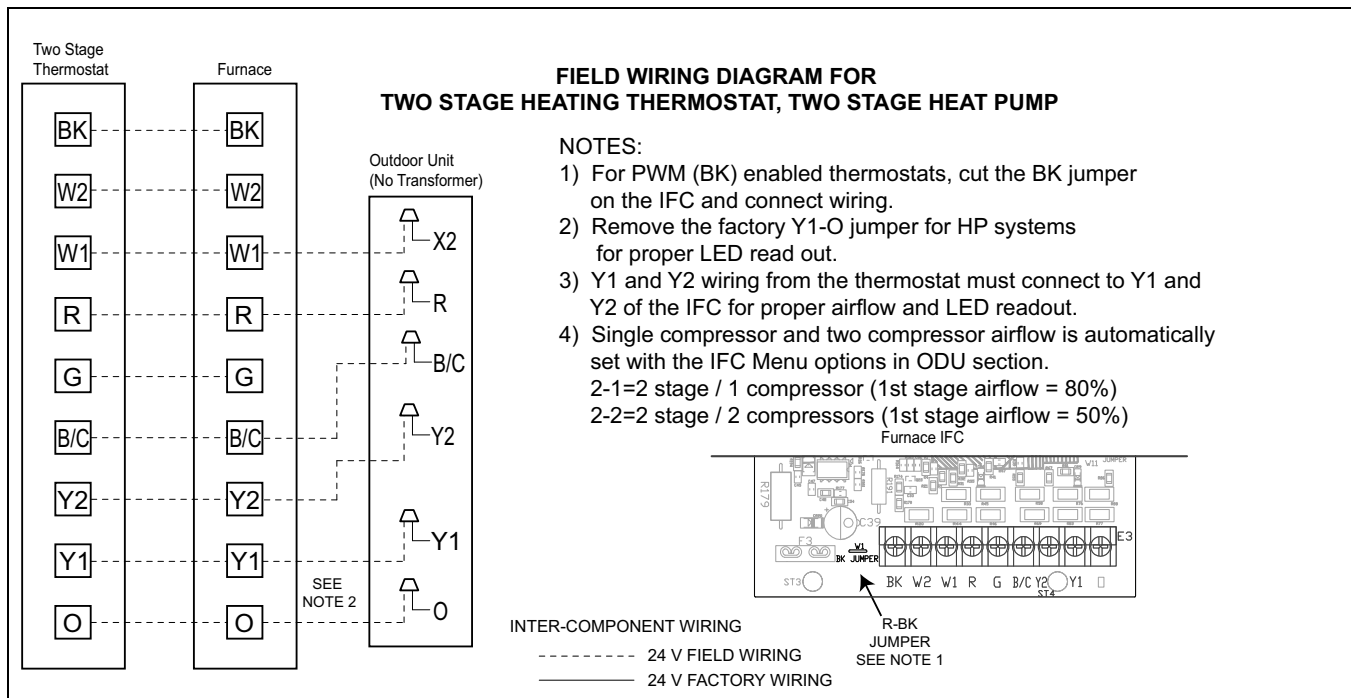
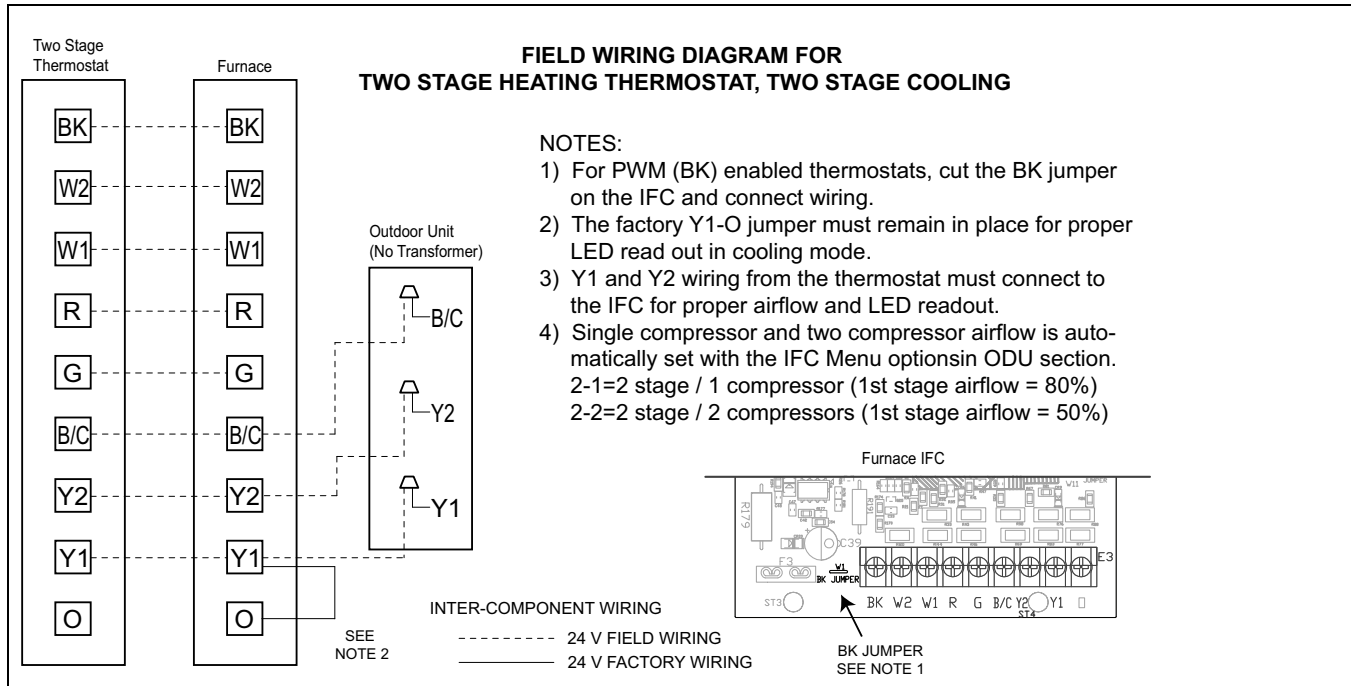
S9V2 Wiring Diagram

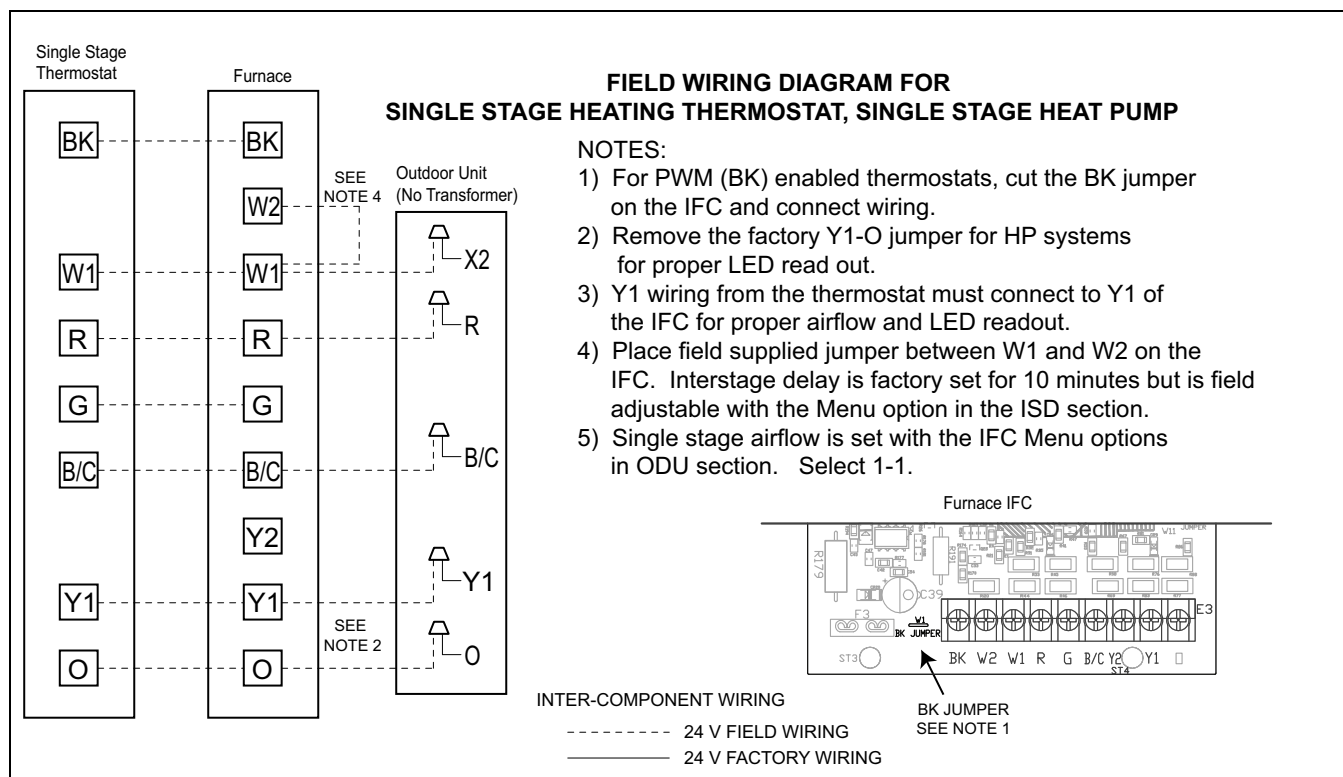
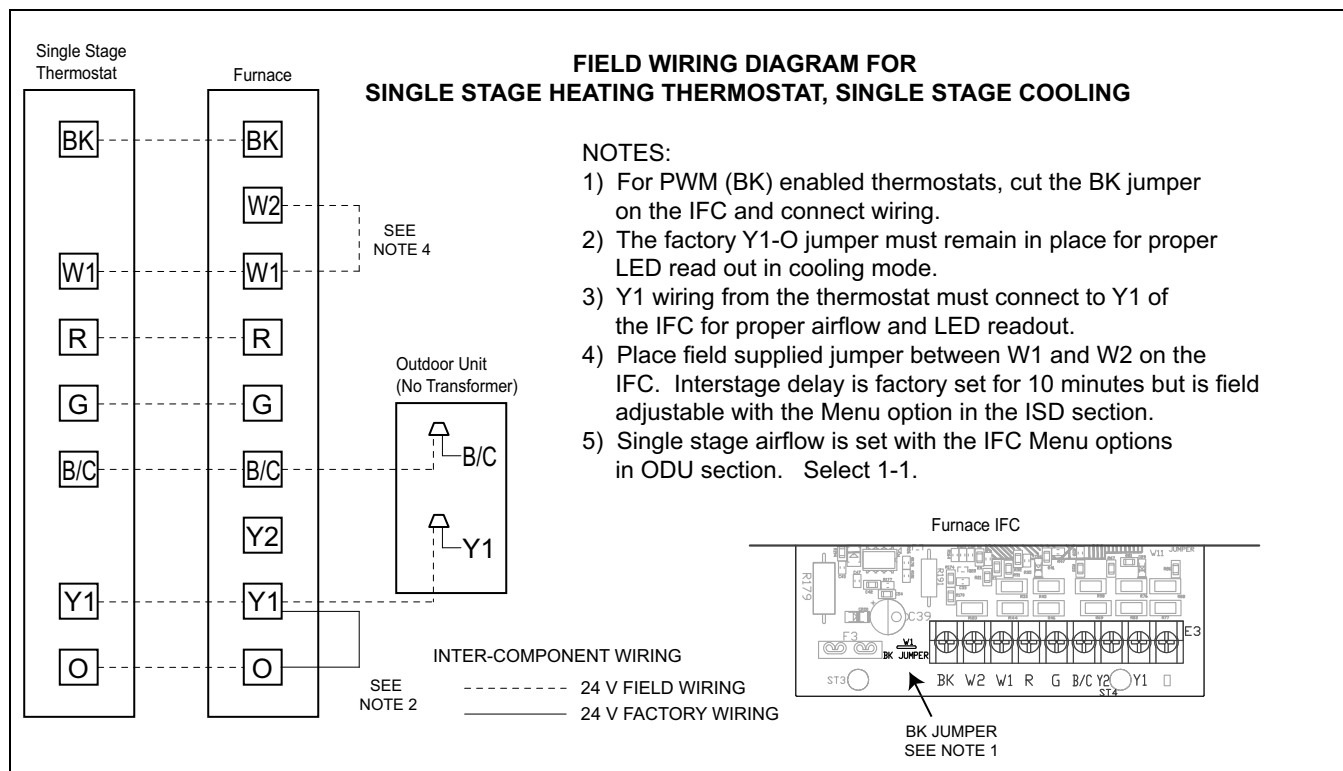


Electrical Connections

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

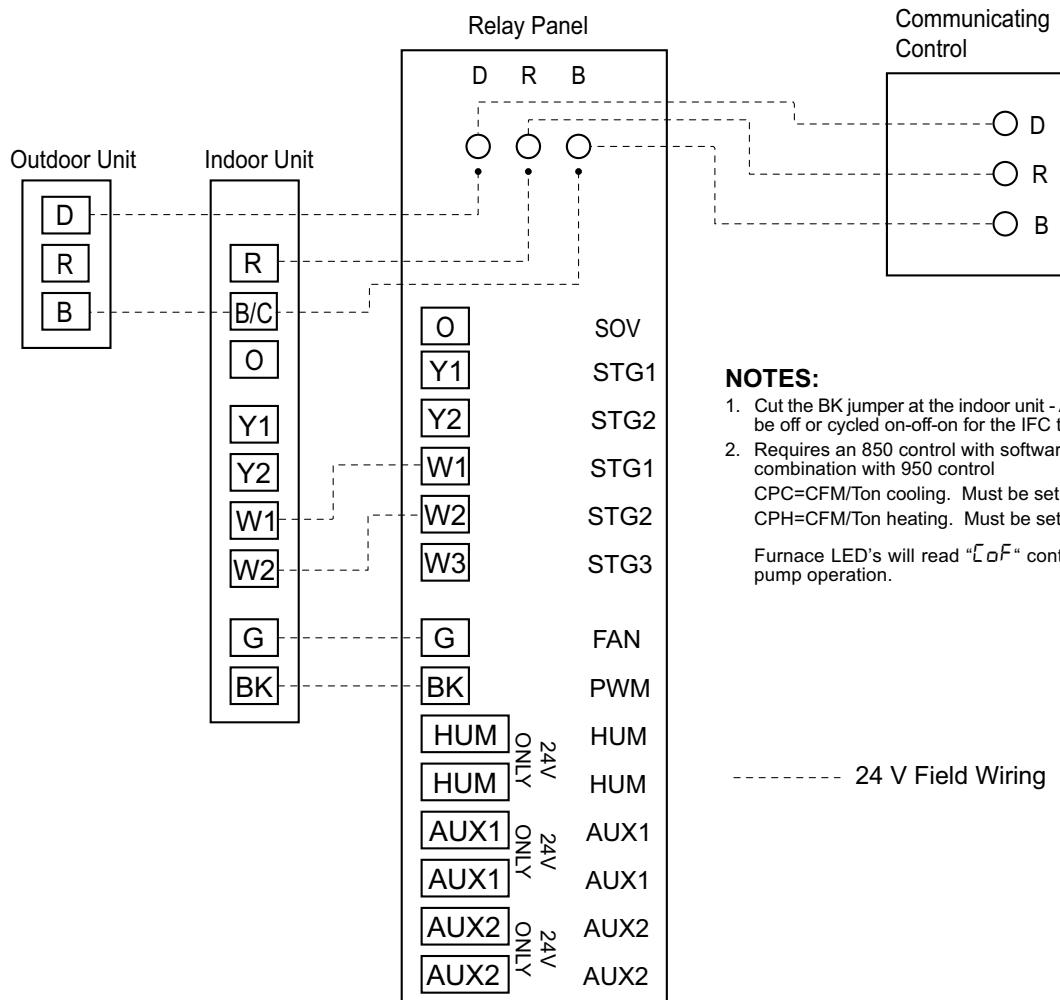
Field Wiring





Electrical Connections

COMMUNICATING CONTROLS WITH NON-COMMUNICATING S9V2 FURNACE AND COMMUNICATING VS COOLING/HP



NOTES:

1. Cut the BK jumper at the indoor unit - After cutting the jumper, power must be off or cycled on-off-on for the IFC to work properly
2. Requires an 850 control with software version 3.0+ or 1050. Not a valid combination with 950 control
CPC=CFM/Ton cooling. Must be set to 400.
CPH=CFM/Ton heating. Must be set to 400.

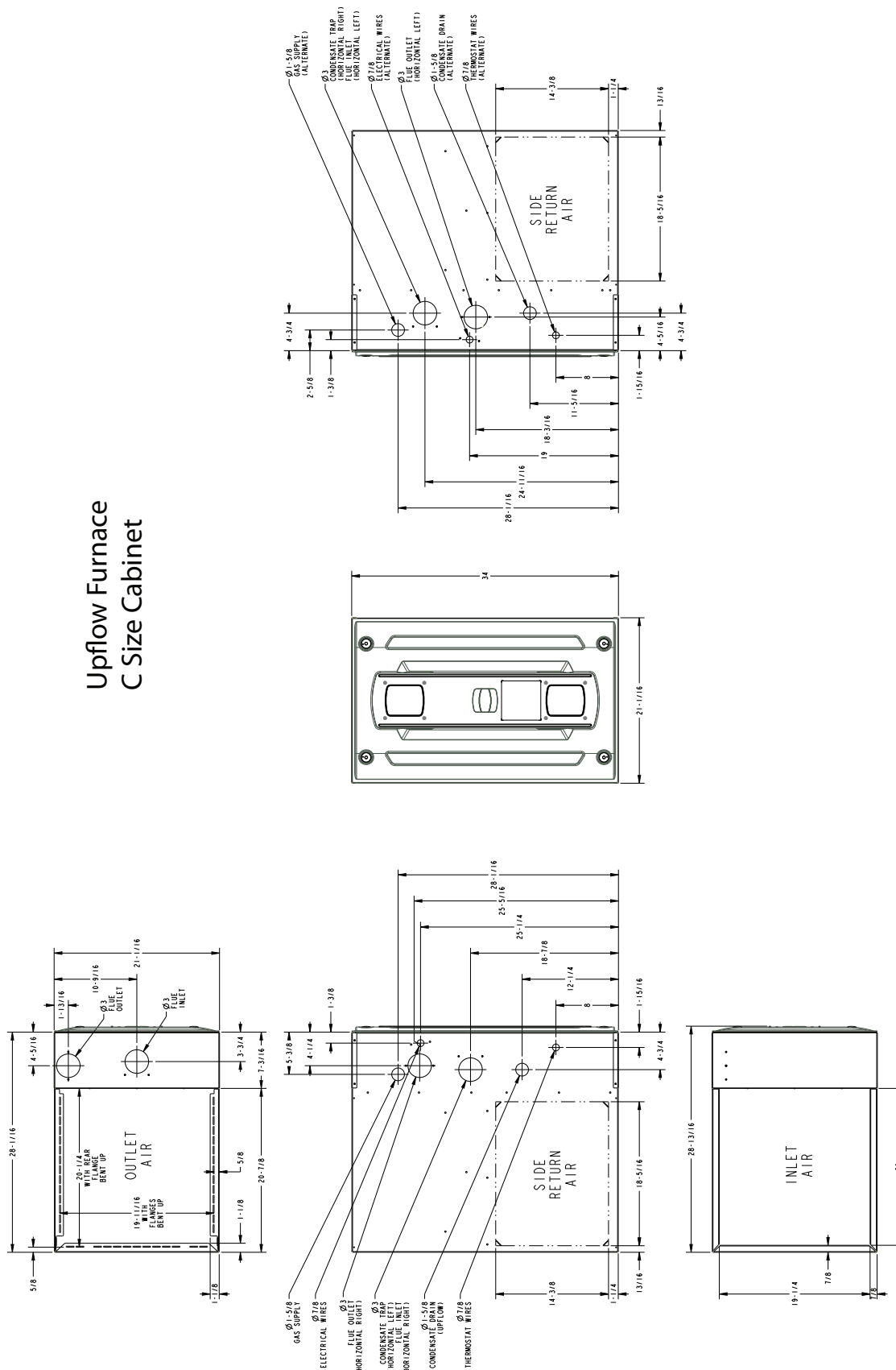
Furnace LED's will read "LF" continuous fan during cooling and heat pump operation.

----- 24 V Field Wiring

Outline Drawings

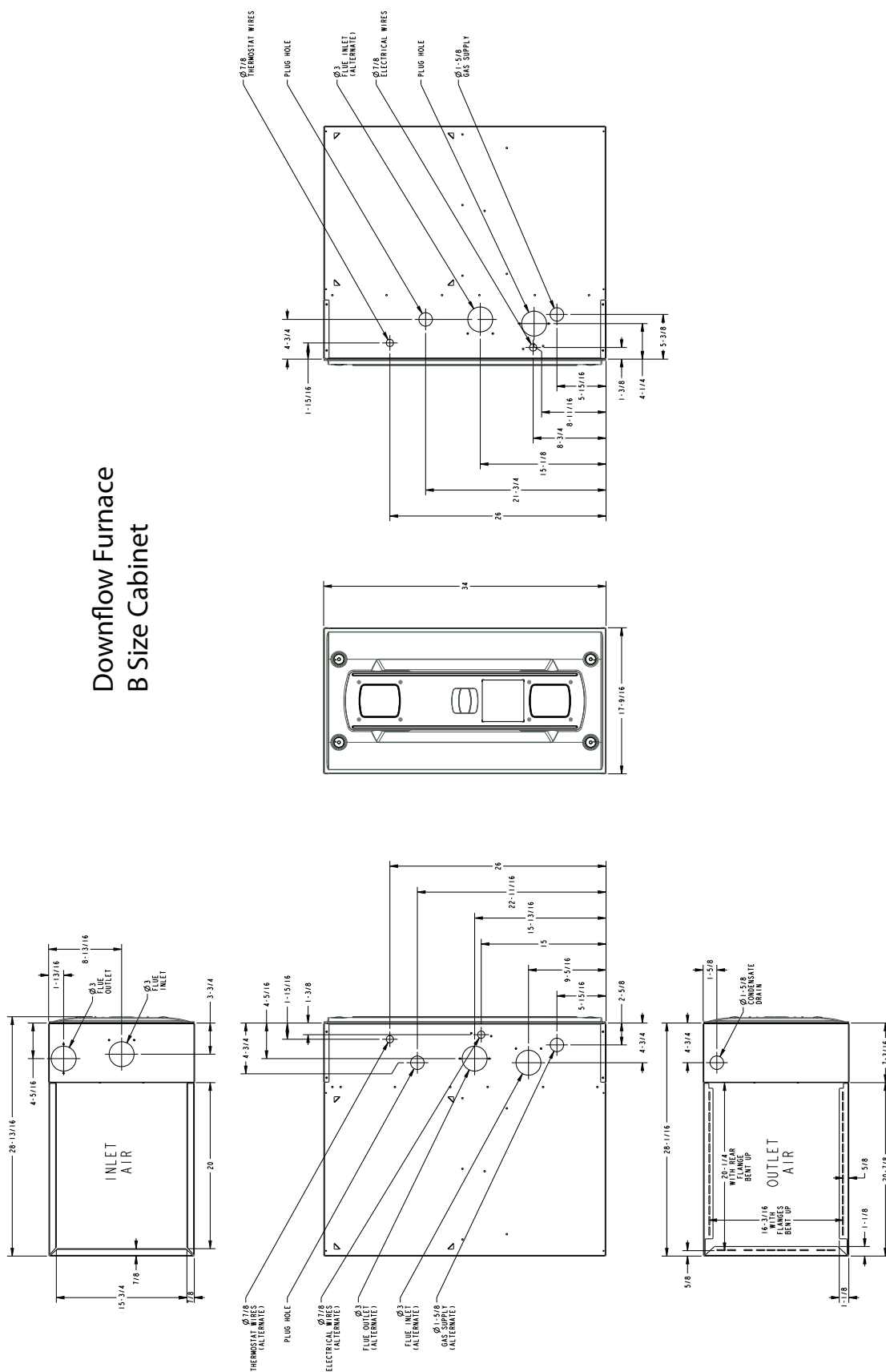


Upflow Furnace C Size Cabinet

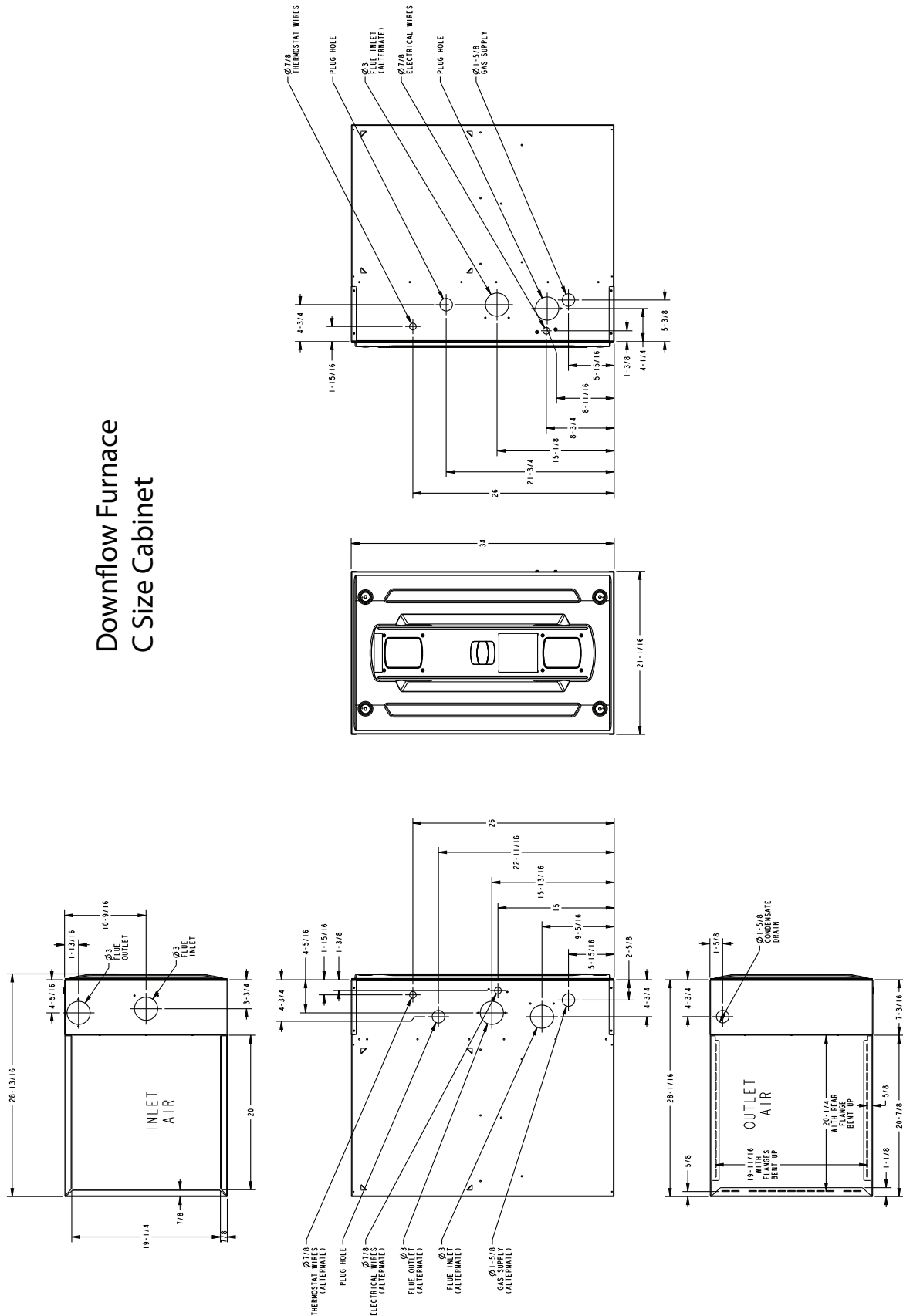


[illegible]

Downflow Furnace B Size Cabinet

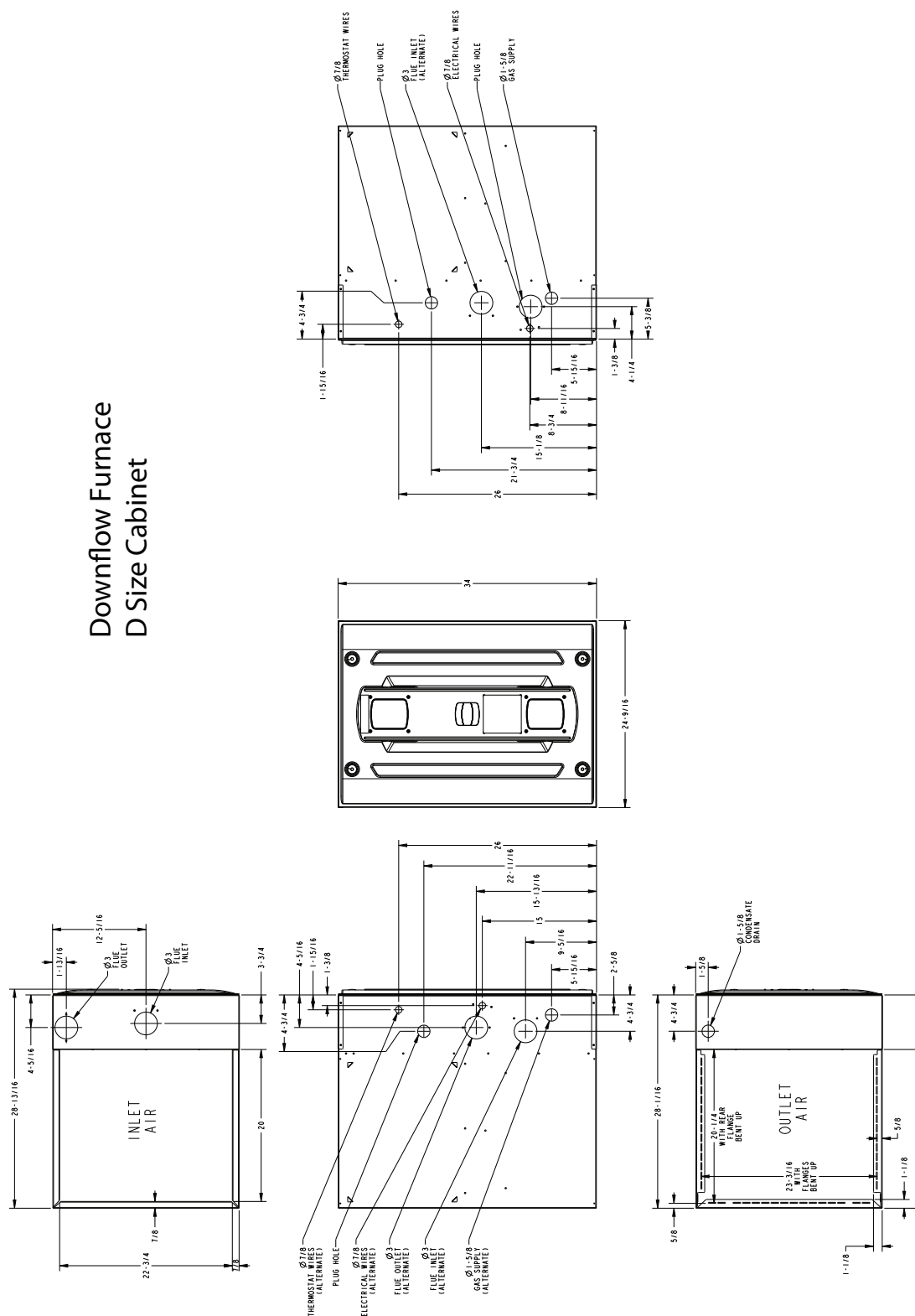


Downflow Furnace C Size Cabinet



Outline Drawings

Downflow Furnace D Size Cabinet





About American Standard Heating and Air Conditioning

American Standard has been creating comfortable and affordable living environments for more than a century. For more information, please visit www.americanstandardair.com.



The manufacturer has a policy of continuous data improvement and it reserves the right to change design and specifications without notice. We are committed to using environmentally conscious print practices.