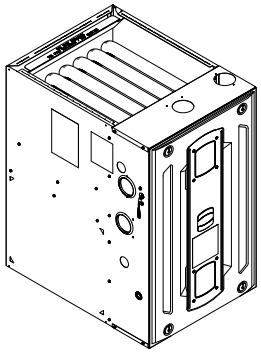
Product and Submittal Data

Upflow/Horizontal Left/Right, Dedicated Downflow Modulating Condensing Gas-Fired Furnace

Upflow, Convertible to Horizontal Right or Horizontal Left
S9VMB060U3VCAA
S9VMB060U4VCAA
S9VMB080U4VCAA
S9VMC100U5VCAA
S9VMD120U5VCAA

Downflow Only
S9VMB060D3VCAA
S9VMB080D4VCAA
S9VMC100D5VCAA
S9VMD120D5VCAA



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

October 2026

FNR-PSD018B-EN

Introduction

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Revision History

Updated the title to remove the term Natural.

Table of Contents

General Features 4

Features and Benefits 6

Accessories 8

Product Specification 9

Airflow Tables 13

Maximum Vent Length Table 32

Wiring Diagrams 33

Electrical Connections 35

- Field Wiring 35

Dimensional Data 38

General Features

Modulating Operation

The modulating gas valves provides longer heating cycles for more consistent heating comfort. Modulates from 40% to 100% in 1% increments of the furnace's heating capacity saving energy, while at the same time maximizing homeowner comfort.

Communicating Mode

Furnace is shipped ready to be connected in communicating mode. Link Smart Thermostat and System Controller must be ordered separately.

Comfort Control

Link communicating technology seamlessly connects each of the system’s components, allowing for advanced diagnostics, system performance updates, and optional remote monitoring that can help keep the system running at optimal performance levels throughout its lifetime.

Alternate 24V Mode

Furnace is field configurable to 24V non-communicating mode.

Link Communication or 24 Volt Control

Link communication technology provides seamless connection between the system components to monitor system performance and efficiency and provides diagnostics and configuration capability through Mobile App Field configurable to 24V non-communicating mode.

Natural Gas Models

Central Heating furnace designs are certified by the Intertek/ETL for natural gas, and propane gas. Limit setting and rating data were established and approved under standard rating conditions using American National Standards Institute standards.

Safe Operation

The Integrated Furnace 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 propane with propane conversion kit.

Integrated Furnace 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 contact accessory terminals.

Energy Efficient Operation

Furnace is certified by the manufacturer to leak 1% or less of nominal air conditioning CFM delivered when pressurized to 0.5-inch 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 furnace control lights the main burners upon a demand for heat from the room thermostat. Complete front service access.

- Low energy power venter.
- No vent proving pressure switches utilized.

Features and Benefits

97.0% 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

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

4 SKU's — Downflow

Added application flexibility and reduction in specification errors

Airflow

At least 400 CFM/ton at 0.5-inch water column 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-inch high open vestibule

Variable Speed Draft Inducer Motor

Increased efficiency

Dimensions

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

Depth remains approximately 28-inch

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 accessory terminals

All multi-pin polarized terminals connections; no spade terminals

Low voltage labeled above and below

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 Blower, Designed Exclusively For The S-Series Furnace

Improved airflow efficiency

Durable, easy to clean, two piece housing

Single piece belly band/ motor arm assembly

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

Three-Way Multi-Poise (Upflow, Horizontal Left And Right) Plus Dedicated Downflow

Easier to specify

Shipped ready to install (no kits required)

Every model has at least two venting options

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-inch pipe can be used up to 100K.

Accessories

Table 1. Accessories

Model Number	Description	Use with
MAYBFERCOLKITA	Heat Shield Kit for B-sidth 4GXCB or 4MCXB Coils	B width 4GXCB or 4MCXB Coils when installed with Upflow Furnace in all orientations.
MAYCFERCOLKITA	Heat Shield Kit for C-sidth 4GXCC or 4MCXC Coils	C width 4GXCC or 4MCXC Coils when installed with Upflow Furnace in all orientations.
MAYDFERCOLKITA	Heat Shield Kit for D-sidth 4GXCD or 4MCXD Coils	D width 4GXCD or 4MCXD Coils when installed with Upflow Furnace in all orientations.
BAYSENSC360	Supply Air Temperature Sensor	All Furnaces
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 (Canada - CPVC)	All Furnaces
BAYLIFTB[a]	Dual Return Kit (B size extension)	B Cabinet Upflow Furnaces
BAYLIFTC[a]	Dual Return Kit (C size extension)	C Cabinet Upflow Furnaces
BAYLIFTD[a]	Dual Return Kit (D size extension)	D Cabinet Upflow Furnaces
BAYBASE205	Downflow Subbase	All Downflow 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
BAYFLTR206	Filter Access Door Kit (Downflow only)	All Downflow Furnaces
BAYSF1165[a][b]	1-in. SlimFit Cabinet with MERV 4 Filter	All Upflow Furnaces
BAYSF1255[b]	1-in. SlimFit Rack with MERV 4 Filter	All Furnaces[c]
FLRSF1255	1-in. Filter Replacement (Qty 12)	BAYSF1255[b]
BAYLPSS5AM22DA	Propane Conversion Kit	All Furnaces
BAYBURNERSS	All Stainless Steel Natural Gas Burners - Set of Six	All Upflow Furnaces - Special Case
BAYCNDTRAP2A	Inline Condensate Trap Kit used with Special Venting on 2-in. Vent Pipe	All Furnaces
BAYCNDTRAP3A	Inline Condensate Trap Kit used with Special Venting on 3-in. Vent Pipe	All Furnaces

[a] Airflow greater than 1600 CFM, Furnace will require return air openings and filters on: (1) both sides, (2) one side and the bottom, or (3) just on the bottom.
[b] Latest revision.
[c] Designed to fit all S-Series furnaces with or without transition when used in side return. Fits B width cabinet without a transition in upflow/downflow application.

Product Specification

Table 2. Models S9VMB060U3VCAA, S9VMB060U4VCAA, S9VMB080U4VCAA, S9VMC100U5VCAA, and S9VMD120U5VCAA

Model	S9VMB060U3VCAA [a]	S9VMB060U4VCAA [a]	S9VMB080U4VCAA [a]	S9VMC100U5VCAA [a]	S9VMD120U5VCAA [a]
Type	Upflow / Horizontal	Upflow / Horizontal	Upflow / Horizontal	Upflow / Horizontal	Upflow / Horizontal
Ratings[b]	—				
40% (low) Input BTUH	24,000	24,000	32,000	40,000	48,000
40% (low) heat Capacity BTUH (ICS)[c]	23,280	23,280	31,040	38,800	46,560
100% (high) heat Input BTUH	60,000	60,000	80,000	100,000	120,000
100% (high) heat Capacity BTUH (ICS)	58,200	58,200	77,600	97,000	116,400
40% (low) Temp. Rise (Min. - Max.) °F	25 - 55	25 - 55	30 - 60	25 - 55	35 - 65
100% (high) Temp. Rise (Min. - Max.) °F	35 - 65	35 - 65	35 - 65	30 - 60	40 - 70
AFUE (%)[c]	97.0	97.0	97.0	97.0	97.0
Return Air Temp. (Min. - Max.) °F	45°F - 80°F	45°F - 80°F	45°F - 80°F	45°F - 80°F	45°F - 80°F
CEE Tier	Tier 3	Tier 3	Tier 3	Tier 3	Tier 3
Energy Star Rated Region Before July 31, 2026	US - All/Canada	US - All/Canada	US - All/Canada	US - All/Canada	US - All/Canada
Energy Star Rated Region On or After July 31, 2026	US - All/Canada	US - All/Canada	US - All/Canada	US - All/Canada	US - All/Canada
Energy Star Orientation	Upflow / Horizontal	Upflow / Horizontal	Upflow / Horizontal	Upflow / Horizontal	Upflow / Horizontal
Integrated Furnace Control	—				
Input–Communication Protocol	Link or 24 Volts	Link or 24 Volts	Link or 24 Volts	Link or 24 Volts	Link or 24 Volts
Blower Drive	Direct	Direct	Direct	Direct	Direct
Diameter - Width (in.)	11 X 8	11 X 8	11 X 8	11 X 10	11 X 10
No. Used	1	1	1	1	1
Speeds (No.)	Variable	Variable	Variable	Variable	Variable
CFM vs. in. w.g.	See “Airflow Tables,” p. 13	See “Airflow Tables,” p. 13	See “Airflow Tables,” p. 13	See “Airflow Tables,” p. 13	See “Airflow Tables,” p. 13
Motor RPM	1/2	3/4	3/4	1	1
R.P.M.	Variable	Variable	Variable	Variable	Variable
Volts / Ph / Hz	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60
FLA	6.4	9.6	9.6	10	10
Combustion Fan - Type	Variable Speed	Variable Speed	Variable Speed	Variable Speed	Variable Speed

Table 2. Models S9VMB060U3VCAA, S9VMB060U4VCAA, S9VMB080U4VCAA, S9VMC100U5VCAA, and S9VMD120U5VCAA (continued)

Model	S9VMB060U3VCAA [a]	S9VMB060U4VCAA [a]	S9VMB080U4VCAA [a]	S9VMC100U5VCAA [a]	S9VMD120U5VCAA [a]
Drive - No. Speeds	Direct - Variable	Direct - Variable	Direct - Variable	Direct - Variable	Direct - Variable
hp and Max Motor RPM	1/50 - 5000	1/50 - 5000	1/50 - 5000	1/50 - 5000	1/50 - 5000
Volts/Ph/Hz	33 - 110/3/60 - 180	33 - 110/3/60 - 180	33 - 110/3/60 - 180	33 - 110/3/60 - 180	33 - 110/3/60 - 180
FLA	0.77	0.77	0.77	0.77	0.77
Inducer Orifice	0.79	0.79	0.96	1.05	1.19
Filter - Furnished?	No	No	No	No	No
Type Recommended	High Velocity	High Velocity	High Velocity	High Velocity	High Velocity
Hi Vel. (No.-Size-Thk.)	1 - 16 X 25 - 1 in.	1 - 16 X 25 - 1 in.	1 - 16 X 25 - 1 in.	1 - 20 X 25 - 1 in.	1 - 24 X 25 - 1 in.
Vent Outlet Dia - Min. (in.) [d]	2 Round	2 Round	2 Round	2 Round	3 Round
Inlet Air Dia - Min. (in.)[d]	2 Round	2 Round	2 Round	2 Round	3 Round
Heat Exchanger – Type	—				
Fired	409 Stainless Steel	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	29-4C Stainless Steel
Gauge (Fired)	20	20	20	20	20
Orifices - Main	—				
Nat. Gas (Qty. - Drill Size)	3 - 45	3 - 45	4 - 45	5 - 45	6 - 45
Propane Gas (Qty. - Drill Size)	3 - 56	3 - 56	4 - 56	5 - 56	6 - 56
Gas Valve	Modulating	Modulating	Modulating	Modulating	Modulating
Pilot Safety Device – Type	120 V SiNi Igniter	120 V SiNi Igniter	120 V SiNi Igniter	120 V SiNi Igniter	120 V SiNi Igniter
Burners - Type - Qty	Inshot - 3	Inshot - 3	Inshot - 4	Inshot - 5	Inshot - 6
Power Conn. - V/Ph/HZ [e]	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60
Ampacity (Amps)	8.9	12.9	12.9	13.4	13.4
Max. Overcurrent Protection (Amps)	15	15	15	15	15
Pipe Conn. Size (in.)	1/2	1/2	1/2	1/2	1/2
Dimensions (HxWxD)	H x W x D	H x W x D	H x W x D	H x W x D	H x W x D
Uncrated (in.)	34 x 17-1/2 x 28-3/4	34 x 17-1/2 x 28-3/4	34 x 17-1/2 x 28-3/4	34 x 21 x 28-3/4	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 19-1/2 x 30-7/8	35-1/2 x 19-1/2 x 30-7/8	35-1/2 x 23 x 30-7/8	35-1/2 x 26-1/2 x 30-7/8
Weight	—				
Shipping (lbs.)/Net (lbs.)	127/119	130/122	135/127	155/145	167/156

[a] Central Furnace heating designs are certified to ANSI Z21.47 / CSA 2.3 - latest edition.

[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.

Table 2. Models S9VMB060U3VCAA, S9VMB060U4VCAA, S9VMB080U4VCAA, S9VMC100U5VCAA, and S9VMD120U5VCAA (continued)

(c) Based on U.S. government standard tests.
(d) See Maximum Vent Length Table, p. 32.
(e) The above wiring specifications are in accordance with National Electrical Code; however, installations must comply with local codes.

Table 3. Models S9VMB060D3VCAA, S9VMB080D4VCAA, S9VMC100D5VCAA, and S9VMD120D5VCAA

Model	S9VMB060D3VCAA (a)	S9VMB080D4VCAA (a)	S9VMC100D5VCAA (a)	S9VMD120D5VCAA (a)
Type	Downflow	Downflow	Downflow	Downflow
Ratings(b)	—			
40% (low) Input BTUH	24,000	32,000	40,000	48,000
40% (low) heat Capacity BTUH (ICS)	23,280	31,040	38,800	46,560
100% (high) heat Input BTUH	60,000	80,000	100,000	120,000
2nd Stage Capacity BTUH (ICS)(c)	58,200	77,600	97,000	116,400
1st Stage Temp. Rise (Min. - Max.) °F	25 - 55	30 - 60	30 - 60	30 - 60
2nd Stage Temp. Rise (Min. - Max.) °F	35 - 65	35 - 65	35 - 65	35 - 65
AFUE (%)	97.0	97.0	97.0	97.0
Return Air Temp. (Min. - Max.) °F	45°F - 80°F	45°F - 80°F	45°F - 80°F	45°F - 80°F
CEE Tier	Tier 3	Tier 3	Tier 3	Tier 3
Energy Star Rated Region Before July 31, 2026	US - All/Canada	US - All/Canada	US - All/Canada	US - All/Canada
Energy Star Rated Region On or After July 31, 2026	US - All/Canada	US - All/Canada	US - All/Canada	US - All/Canada
Energy Star Orientation	Downflow	Downflow	Downflow	Downflow
Integrated Furnace Control	—			
Input–Communication Protocol	Link or 24 Volts	Link or 24 Volts	Link or 24 Volts	Link or 24 Volts
Blower Drive	Direct	Direct	Direct	Direct
Diameter - Width (in.)	11 X 8	11 X 8	11 X 10	11 X 10
No. Used	1	1	1	1
Speeds (No.)	Variable	Variable	Variable	Variable
CFM vs. in. w.g.	See "Airflow Tables," p. 13	See "Airflow Tables," p. 13	See "Airflow Tables," p. 13	See "Airflow Tables," p. 13
Motor hp	1/2	3/4	1	1
R.P.M.	Variable	Variable	Variable	Variable
Volts / Ph / Hz	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60
FLA	6.4	9.6	10	10
Combustion Fan - Type	Variable Speed	Variable Speed	Variable Speed	Variable Speed
Drive - No. Speeds	Direct - Variable	Direct - Variable	Direct - Variable	Direct - Variable
hp and Max Motor RPM	1/50 - 5000	1/50 - 5000	1/50 - 5000	1/50 - 5000
Volts/Ph/Hz	33 - 110/3/60 - 180	33 - 110/3/60 - 180	33 - 110/3/60 - 180	33 - 110/3/60 - 180
FLA	0.77	0.77	0.77	0.77
Inducer Orifice	0.79	0.96	1.05	1.19
Filter - Furnished?	No	No	No	No
Type Recommended	High Velocity	High Velocity	High Velocity	High Velocity

Table 3. Models S9VMB060D3VCAA, S9VMB080D4VCAA, S9VMC100D5VCAA, and S9VMD120D5VCAA (continued)

Model	S9VMB060D3VCAA [a]	S9VMB080D4VCAA [a]	S9VMC100D5VCAA [a]	S9VMD120D5VCAA [a]
Hi Vel. (No.-Size-Thk.)	1 - 16 X 25 - 1 in.	1 - 16 X 25 - 1 in.	1 - 20 X 25 - 1 in.	1 - 24 X 25 - 1 in.
Vent Outlet Dia - Min. (in.)[d]	2 Round	2 Round	2 Round	3 Round
Inlet Air Dia - Min. (in.)	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)	3 - 45	4 - 45	5 - 45	6 - 45
Propane Gas (Qty. - Drill Size)	3 - 56	4 - 56	5 - 56	6 - 56
Gas Valve	Modulating	Modulating	Modulating	Modulating
Pilot Safety Device – Type	120 V SiNi Igniter	120 V SiNi Igniter	120 V SiNi Igniter	120 V SiNi Igniter
Burners - TYPE - QTY	Inshot - 3	Inshot - 4	Inshot - 5	Inshot - 6
Power Conn. - V/Ph/HZ[e]	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60
Ampacity (Amps)	8.9	12.9	13.4	13.4
Max. Overcurrent Protection (Amps)	15	15	15	15
Pipe Conn. Size (in.)	1/2	1/2	1/2	1/2
Dimensions (HxWxD)	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 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 19-1/2 x 30-7/8	35-1/2 x 23 x 30-7/8	35-1/2 x 26-1/2 x 30-7/8
Weight	—			
Shipping (lbs.)/Net (lbs.)	127/119	135/127	155/145	167/156

[a] Central Furnace heating designs are certified to ANSI Z21.47 / CSA 2.3 - latest edition.
[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] Based on U.S. government standard tests.
[d] See Maximum Vent Length Table, p. 32.
[e] The above wiring specifications are in accordance with National Electrical Code; however, installations must comply with local codes.

Airflow Tables

Table 4. S9VMB060U3VC heating airflow

Furnace Heating Airflow (CFM), Power (Watts), and Temp. Rise (°F) vs. External Static Pressure with Filter (iwc)								
Airflow Setting	**Heating Stage**	**Target Airflow**		**External Static Pressure (in. w. c.)**				
				0.1	**0.3**	**0.5**	**0.7**	**0.9**
880	40% (Low)	470	CFM / Watts	474 / 25	472 / 49	470 / 74	468 / 98	466 / 123
			Temp. Rise	47	47	47	47	47
	65% (Medium)	728	CFM / Watts	743 / 51	735 / 87	727 / 124	719 / 161	711 / 198
			Temp. Rise	47	47	47	47	47
	100% (High)	880	CFM / Watts	943 / 80	937 / 125	931 / 171	925 / 216	919 / 262
			Temp. Rise	57	57	57	57	57
1055	40% (Low)	535	CFM / Watts	538 / 31	536 / 58	534 / 85	532 / 112	530 / 139
			Temp. Rise	42	42	42	42	43
	65% (Medium)	845	CFM / Watts	848 / 73	846 / 115	845 / 157	844 / 199	842 / 240
			Temp. Rise	42	42	42	42	42
	100% (High)	1055	CFM / Watts	1058 / 121	1055 / 172	1052 / 223	1050 / 274	1047 / 325
			Temp. Rise	52	52	52	52	52
1100[a]	40% (Low)	570	CFM / Watts	565 / 33	567 / 61	570 / 88	572 / 115	574 / 143
			Temp. Rise	40	40	40	39	39
	65% (Medium)	893	CFM / Watts	893 / 82	892 / 124	892 / 166	892 / 208	892 / 251
			Temp. Rise	40	40	40	40	39
	100% (High)	1100	CFM / Watts	1102 / 139	1103 / 192	1105 / 244	1106 / 296	1108 / 349
			Temp. Rise	49	49	49	49	49
1160	40% (Low)	583	CFM / Watts	588 / 37	586 / 63	583 / 88	580 / 114	578 / 140
			Temp. Rise	38	38	37	37	36
	65% (Medium)	927	CFM / Watts	932 / 93	929 / 137	926 / 180	923 / 224	920 / 268
			Temp. Rise	38	38	38	38	38
	100% (High)	1160	CFM / Watts	1149 / 157	1146 / 212	1144 / 267	1141 / 321	1139 / 376
			Temp. Rise	48	48	48	48	48
1200	40% (Low)	588	CFM / Watts	613 / 39	600 / 67	587 / 94	574 / 122	561 / 150
			Temp. Rise	35	35	35	35	35
	65% (Medium)	968	CFM / Watts	962 / 100	965 / 146	967 / 192	970 / 237	973 / 283
			Temp. Rise	36	35	35	35	35
	100% (High)	1200	CFM / Watts	1202 / 168	1202 / 226	1201 / 284	1200 / 342	1199 / 400
			Temp. Rise	45	45	45	45	45
1270	40% (Low)	672	CFM / Watts	655 / 45	664 / 76	672 / 106	680 / 137	689 / 168
			Temp. Rise	33	33	33	34	34
	65% (Medium)	1028	CFM / Watts	1019 / 124	1023 / 171	1027 / 218	1032 / 265	1036 / 311
			Temp. Rise	33	33	33	33	33
	100% (High)	1270	CFM / Watts	1260 / 211	1264 / 274	1268 / 337	1273 / 400	1277 / 463
			Temp. Rise	43	43	43	43	43

[a] Factory setting.

Airflow Tables

Table 5. S9VMB060D3VC heating airflow

Furnace Heating Airflow (CFM), Power (Watts), and Temp. Rise (°F) vs. External Static Pressure with Filter (iwc)								
Airflow Setting	**Heating Stage**	**Target Airflow**		**External Static Pressure (in. w. c.)**				
				0.1	**0.3**	**0.5**	**0.7**	**0.9**
1005	40% (Low)	402	CFM / Watts	459 / 27	446 / 55	433 / 82	421 / 109	408 / 136
			Temp. Rise	47	47	48	48	49
	65% (Medium)	653	CFM / Watts	782 / 72	775 / 115	768 / 158	761 / 201	754 / 244
			Temp. Rise	45	45	46	46	46
	100% (High)	1005	CFM / Watts	972 / 111	965 / 166	959 / 220	952 / 275	945 / 330
			Temp. Rise	56	56	56	57	57
1055	40% (Low)	422	CFM / Watts	476 / 29	460 / 55	445 / 82	429 / 108	413 / 135
			Temp. Rise	45	46	47	48	49
	65% (Medium)	686	CFM / Watts	811 / 77	802 / 121	792 / 164	782 / 207	773 / 250
			Temp. Rise	43	44	44	45	46
	100% (High)	1055	CFM / Watts	1010 / 124	1004 / 180	997 / 236	990 / 292	984 / 348
			Temp. Rise	53	54	54	55	55
1135	40% (Low)	454	CFM / Watts	509 / 32	501 / 61	492 / 90	483 / 119	474 / 148
			Temp. Rise	42	42	43	44	45
	65% (Medium)	738	CFM / Watts	871 / 93	862 / 138	853 / 184	844 / 229	835 / 274
			Temp. Rise	40	41	41	41	42
	100% (High)	1135	CFM / Watts	1084 / 155	1076 / 212	1067 / 268	1058 / 324	1049 / 381
			Temp. Rise	50	51	51	51	52
1175[a]	40% (Low)	470	CFM / Watts	526 / 34	519 / 65	512 / 96	505 / 127	498 / 158
			Temp. Rise	41	41	42	42	42
	65% (Medium)	764	CFM / Watts	890 / 99	889 / 149	888 / 199	887 / 249	886 / 299
			Temp. Rise	39	39	40	40	40
	100% (High)	1175	CFM / Watts	1107 / 163	1103 / 223	1099 / 284	1094 / 344	1090 / 404
			Temp. Rise	49	49	49	50	50
1240	40% (Low)	496	CFM / Watts	548 / 36	543 / 65	538 / 95	533 / 125	528 / 155
			Temp. Rise	39	39	39	39	38
	65% (Medium)	806	CFM / Watts	934 / 115	929 / 165	925 / 215	920 / 265	915 / 316
			Temp. Rise	38	38	38	38	38
	100% (High)	1240	CFM / Watts	1173 / 195	1161 / 255	1149 / 316	1137 / 377	1125 / 438
			Temp. Rise	46	47	47	48	48
1325	40% (Low)	530	CFM / Watts	576 / 41	565 / 73	554 / 106	543 / 139	532 / 171
			Temp. Rise	37	38	39	39	40
	65% (Medium)	861	CFM / Watts	1000 / 134	993 / 185	986 / 235	978 / 286	971 / 336
			Temp. Rise	35	35	35	36	36
	100% (High)	1325	CFM / Watts	1245 / 233	1232 / 296	1219 / 359	1206 / 421	1193 / 484
			Temp. Rise	44	44	45	45	46

[a] Factory setting.

Table 6. S9VMB060U3VC / S9VMB060D3VC cooling airflow

S9VMB060U3VC / S9VMB060D3VC Furnace Cooling Airflow (CFM) and Power (Watts) vs. External Static Pressure with Filter							
Outdoor Tonnage - Odt	Airflow Setting (CFM/ton)		External Static Pressure (in. w. c.)				
			0.1	0.3	0.5	0.7	0.9
1.5	450	CFM	677	673	668	659	648
		WATTS	54	90	129	169	209
	420	CFM	632	628	622	614	602
		WATTS	46	82	120	157	198
	400	CFM	602	598	592	583	572
		WATTS	42	77	112	149	189
	370	CFM	556	552	546	537	526
		WATTS	36	68	104	139	178
	350	CFM	526	522	516	507	496
		WATTS	33	64	97	133	169
	330	CFM	495	491	485	476	465
		WATTS	30	60	91	125	162
	310	CFM	465	460	454	445	434
		WATTS	26	55	87	120	156
	290	CFM	434	429	423	414	403
		WATTS	24	51	82	114	149
2.0	450	CFM	899	896	891	883	872
		WATTS	98	145	192	239	289
	420	CFM	841	837	832	823	813
		WATTS	85	129	170	222	267
	400	CFM	801	798	793	784	773
		WATTS	76	119	161	209	252
	370	CFM	742	739	733	724	713
		WATTS	65	104	146	188	231
	350	CFM	702	699	692	684	673
		WATTS	58	95	137	177	219
	330	CFM	662	658	652	644	633
		WATTS	51	87	126	166	206
	310	CFM	622	618	612	604	592
		WATTS	45	80	117	155	196
	290	CFM	581	578	571	563	552
		WATTS	40	72	109	145	184

Table 6. S9VMB060U3VC / S9VMB060D3VC cooling airflow (continued)

S9VMB060U3VC / S9VMB060D3VC Furnace Cooling Airflow (CFM) and Power (Watts) vs. External Static Pressure with Filter							
Outdoor Tonnage - Odt	Airflow Setting (CFM/ton)		External Static Pressure (in. w. c.)				
			0.1	0.3	0.5	0.7	0.9
2.5	450	CFM	1117	1114	1109	1101	1090
		WATTS	160	221	277	336	394
	420	CFM	1045	1042	1036	1029	1018
		WATTS	138	193	249	301	355
	400	CFM	997	994	988	980	970
		WATTS	124	175	229	282	329
	370	CFM	924	921	916	907	896
		WATTS	104	152	200	252	302
	350	CFM	875	872	867	859	847
		WATTS	92	138	181	230	281
	330	CFM	826	822	818	809	798
		WATTS	82	127	166	215	263
	310	CFM	776	773	768	759	748
		WATTS	71	112	153	199	244
	290	CFM	727	723	717	710	698
		WATTS	62	101	143	182	227
3.0[(a)]	450	CFM	1330	1326	1321	1314	1303
		WATTS	242	319	385	449	514
	420	CFM	1245	1242	1237	1229	1219
		WATTS	208	276	336	400	464
	400	CFM	1188	1185	1180	1172	1162
		WATTS	185	251	309	374	429
	370	CFM	1103	1099	1094	1086	1076
		WATTS	156	216	271	329	385
	350	CFM	1045	1042	1036	1029	1018
		WATTS	138	193	249	302	355
	330	CFM	987	984	979	971	960
		WATTS	121	172	224	276	329
	310	CFM	929	926	920	912	901
		WATTS	105	154	201	251	305
	290	CFM	870	867	862	853	843
		WATTS	91	137	180	230	277

[(a)] Factory setting.

Table 7. S9VMB060U4VC heating airflow

Furnace Heating Airflow (CFM), Power (Watts), and Temp. Rise (°F) vs. External Static Pressure with Filter (iwc)								
Airflow Setting	Heating Stage	Target Airflow		External Static Pressure (in. w. c.)				
				0.1	0.3	0.5	0.7	0.9
880	40% (Low)	420	CFM / Watts	446 / 29	433 / 58	420 / 87	406 / 116	393 / 145
			Temp. Rise	48	49	49	50	51
	65% (Medium)	695	CFM / Watts	703 / 61	699 / 101	695 / 142	690 / 182	686 / 222
			Temp. Rise	49	50	50	50	50
	100% (High)	880	CFM / Watts	891 / 94	887 / 144	883 / 195	880 / 245	876 / 295
			Temp. Rise	61	61	61	61	61
980	40% (Low)	471	CFM / Watts	489 / 34	480 / 64	470 / 94	461 / 124	452 / 154
			Temp. Rise	43	44	44	44	45
	65% (Medium)	766	CFM / Watts	771 / 77	768 / 119	766 / 162	763 / 204	761 / 246
			Temp. Rise	45	45	45	45	45
	100% (High)	980	CFM / Watts	984 / 121	982 / 177	980 / 232	979 / 288	977 / 344
			Temp. Rise	55	55	55	55	55
1050	40% (Low)	516	CFM / Watts	517 / 38	516 / 70	516 / 102	515 / 134	514 / 166
			Temp. Rise	41	41	41	41	41
	65% (Medium)	821	CFM / Watts	818 / 90	819 / 134	821 / 178	822 / 222	824 / 267
			Temp. Rise	43	42	42	42	42
	100% (High)	1055	CFM / Watts	1047 / 144	1048 / 203	1050 / 262	1051 / 321	1053 / 380
			Temp. Rise	52	52	52	51	51
1100[a]	40% (Low)	529	CFM / Watts	538 / 41	534 / 73	529 / 105	524 / 138	520 / 170
			Temp. Rise	39	40	40	40	40
	65% (Medium)	852	CFM / Watts	858 / 98	855 / 143	851 / 188	847 / 233	844 / 278
			Temp. Rise	41	41	41	41	41
	100% (High)	1100	CFM / Watts	1069 / 159	1077 / 219	1084 / 280	1092 / 341	1099 / 401
			Temp. Rise	50	50	50	50	49
1160	40% (Low)	556	CFM / Watts	576 / 45	566 / 76	556 / 108	546 / 140	536 / 171
			Temp. Rise	37	37	37	38	38
	65% (Medium)	893	CFM / Watts	889 / 113	890 / 159	892 / 205	894 / 252	896 / 298
			Temp. Rise	39	39	39	39	38
	100% (High)	1160	CFM / Watts	1135 / 189	1138 / 252	1142 / 315	1145 / 378	1148 / 441
			Temp. Rise	48	48	48	47	47
1220	40% (Low)	601	CFM / Watts	582 / 46	591 / 81	600 / 115	610 / 150	619 / 185
			Temp. Rise	37	36	35	34	34
	65% (Medium)	937	CFM / Watts	929 / 128	933 / 175	936 / 221	940 / 268	943 / 315
			Temp. Rise	37	37	37	37	36
	100% (High)	1220	CFM / Watts	1166 / 217	1174 / 280	1181 / 343	1189 / 407	1197 / 470
			Temp. Rise	46	46	46	46	45

[a] Factory setting.

Airflow Tables

Table 8. S9VMB060U4VC cooling airflow

S9VMB060U4VC Furnace Cooling Airflow (CFM) and Power (Watts) vs. External Static Pressure with Filter							
Outdoor Tonnage - Odt	Airflow Setting (CFM/ton)		External Static Pressure (in. w. c.)				
			0.1	0.3	0.5	0.7	0.9
1.5	450	CFM	668	663	662	658	650
		WATTS	50	83	119	158	198
	420	CFM	623	617	615	610	601
		WATTS	43	75	110	147	186
	400	CFM	592	586	583	578	568
		WATTS	39	70	104	140	178
	370	CFM	547	539	536	530	519
		WATTS	33	63	95	130	168
	350	CFM	516	508	504	497	486
		WATTS	30	58	90	125	162
	330	CFM	486	476	472	464	452
		WATTS	26	54	85	119	156
	310	CFM	456	445	439	431	419
		WATTS	24	50	81	114	151
	290	CFM	420	412	407	398	385
		WATTS	20	47	77	110	147
2.0	450	CFM	894	894	895	894	888
		WATTS	96	137	181	226	272
	420	CFM	834	832	833	832	825
		WATTS	82	121	162	206	250
	400	CFM	794	792	792	790	783
		WATTS	73	111	151	193	236
	370	CFM	733	730	730	727	719
		WATTS	61	97	135	175	217
	350	CFM	693	689	688	685	676
		WATTS	54	88	125	164	205
	330	CFM	653	648	646	642	633
		WATTS	47	80	116	154	194
	310	CFM	612	606	604	600	590
		WATTS	41	73	108	144	183
	290	CFM	572	565	562	557	546
		WATTS	36	66	100	136	174
2.5	450	CFM	1119	1122	1124	1124	1119
		WATTS	168	216	267	320	373
	420	CFM	1044	1046	1048	1048	1043
		WATTS	141	187	235	286	337
	400	CFM	994	995	997	997	991
		WATTS	125	169	216	264	314
	370	CFM	919	919	921	919	914
		WATTS	103	145	189	235	282
	350	CFM	869	868	869	868	862
		WATTS	90	130	173	217	263
	330	CFM	819	817	818	816	809
		WATTS	78	117	158	201	245
	310	CFM	769	766	766	764	756
		WATTS	68	105	144	185	228
	290	CFM	718	715	714	711	703
		WATTS	58	93	131	171	212

Table 8. S9VMB060U4VC cooling airflow (continued)

S9VMB060U4VC Furnace Cooling Airflow (CFM) and Power (Watts) vs. External Static Pressure with Filter							
Outdoor Tonnage - Odt	Airflow Setting (CFM/ton)		External Static Pressure (in. w. c.)				
			0.1	0.3	0.5	0.7	0.9
3.0	450	CFM	1342	1347	1351	1351	1347
		WATTS	268	324	382	443	504
	420	CFM	1253	1257	1261	1261	1257
		WATTS	224	277	333	390	448
	400	CFM	1194	1197	1200	1200	1196
		WATTS	197	249	302	357	413
	370	CFM	1104	1106	1109	1109	1104
		WATTS	162	210	261	313	366
	350	CFM	1044	1046	1048	1048	1043
		WATTS	141	187	235	286	337
	330	CFM	984	985	987	986	981
		WATTS	122	166	212	260	310
	310	CFM	924	924	926	925	919
		WATTS	104	146	191	237	284
	290	CFM	864	863	864	863	856
		WATTS	89	129	171	216	261
3.5	450	CFM	1563	1570	1574	1575	1571
		WATTS	401	465	531	599	668
	420	CFM	1460	1466	1470	1471	1467
		WATTS	334	395	457	522	587
	400	CFM	1391	1397	1401	1401	1397
		WATTS	294	352	412	474	537
	370	CFM	1288	1292	1296	1296	1292
		WATTS	240	295	351	410	469
	350	CFM	1218	1222	1225	1226	1221
		WATTS	208	260	315	371	427
	330	CFM	1149	1152	1155	1155	1150
		WATTS	179	229	281	334	389
	310	CFM	1079	1081	1084	1084	1079
		WATTS	153	200	250	301	353
	290	CFM	1009	1010	1013	1012	1007
		WATTS	129	174	222	271	321
4.0[(a)]	450	CFM	1780	1789	1794	1795	1791
		WATTS	573	645	718	794	870
	420	CFM	1664	1673	1677	1678	1674
		WATTS	477	544	614	685	757
	400	CFM	1587	1594	1599	1600	1595
		WATTS	419	483	550	619	688
	370	CFM	1470	1476	1480	1481	1476
		WATTS	341	401	464	529	594
	350	CFM	1391	1397	1401	1401	1397
		WATTS	294	352	412	474	537
	330	CFM	1313	1317	1321	1321	1317
		WATTS	253	308	365	424	485
	310	CFM	1233	1237	1240	1241	1236
		WATTS	215	267	322	379	436
	290	CFM	1154	1157	1160	1160	1155
		WATTS	181	231	283	337	392

[(a)] Factory setting.

Airflow Tables

Table 9. S9VMB080U4VC heating airflow

Furnace Heating Airflow (CFM), Power (Watts), and Temp. Rise (°F) vs. External Static Pressure with Filter (iwc)								
Outdoor Tonnage - Odt	Heating Stage	Target Airflow		External Static Pressure (in. w. c.)				
				0.1	0.3	0.5	0.7	0.9
1260	40% (Low)	559	CFM / Watts	563 / 47	561 / 78	559 / 108	556 / 139	554 / 170
			Temp. Rise	51	51	51	51	51
	65% (Medium)	907	CFM / Watts	901 / 123	904 / 167	906 / 212	909 / 256	912 / 301
			Temp. Rise	52	52	52	52	52
	100% (High)	1260	CFM / Watts	1248 / 266	1253 / 330	1258 / 393	1263 / 457	1268 / 520
			Temp. Rise	58	58	57	57	57
1380	40% (Low)	614	CFM / Watts	615 / 56	614 / 89	613 / 123	613 / 157	612 / 191
			Temp. Rise	47	47	47	47	47
	65% (Medium)	987	CFM / Watts	986 / 151	986 / 201	987 / 251	987 / 301	987 / 352
			Temp. Rise	47	48	48	48	48
	100% (High)	1380	CFM / Watts	1367 / 345	1366 / 416	1366 / 486	1366 / 556	1365 / 626
			Temp. Rise	53	53	53	53	53
1450[(a)]	40% (Low)	640	CFM / Watts	648 / 62	644 / 97	640 / 133	636 / 168	632 / 204
			Temp. Rise	44	44	44	44	45
	65% (Medium)	1039	CFM / Watts	1040 / 172	1039 / 223	1038 / 275	1037 / 327	1037 / 378
			Temp. Rise	45	45	45	45	45
	100% (High)	1450	CFM / Watts	1435 / 397	1431 / 471	1428 / 545	1424 / 619	1420 / 693
			Temp. Rise	50	50	50	50	51
1510	40% (Low)	661	CFM / Watts	670 / 67	665 / 101	660 / 136	655 / 171	650 / 205
			Temp. Rise	43	44	45	45	46
	65% (Medium)	1070	CFM / Watts	1073 / 191	1071 / 244	1070 / 298	1068 / 351	1067 / 405
			Temp. Rise	44	44	44	44	44
	100% (High)	1510	CFM / Watts	1486 / 447	1479 / 521	1473 / 594	1466 / 668	1460 / 742
			Temp. Rise	48	49	49	49	49
1640	40% (Low)	716	CFM / Watts	717 / 78	716 / 116	715 / 155	715 / 193	714 / 231
			Temp. Rise	40	40	40	40	40
	65% (Medium)	1140	CFM / Watts	1156 / 240	1148 / 294	1140 / 347	1131 / 401	1123 / 454
			Temp. Rise	41	41	41	41	41
	100% (High)	1640	CFM / Watts	1609 / 577	1594 / 650	1579 / 723	1564 / 796	1548 / 869
			Temp. Rise	45	45	46	46	46
1775	40% (Low)	765	CFM / Watts	778 / 92	771 / 129	764 / 166	758 / 203	751 / 240
			Temp. Rise	37	38	38	39	39
	65% (Medium)	1229	CFM / Watts	1239 / 292	1233 / 352	1228 / 411	1223 / 471	1218 / 531
			Temp. Rise	38	38	38	38	39
	100% (High)	1775	CFM / Watts	1725 / 720	1677 / 751	1628 / 783	1580 / 815	1532 / 846
			Temp. Rise	42	43	44	45	47

[(a)] Factory setting.

Table 10. S9VMB080D4VC heating airflow

Furnace Heating Airflow (CFM), Power (Watts), and Temp. Rise (°F) vs. External Static Pressure with Filter (iwc)								
Airflow Setting	Heating Stage	Target Airflow		External Static Pressure (in. w. c.)				
				0.1	0.3	0.5	0.7	0.9
1285	40% (Low)	528	CFM / Watts	545 / 38	536 / 71	528 / 105	519 / 138	510 / 172
			Temp. Rise	53	53	53	53	54
	65% (Medium)	875	CFM / Watts	901 / 96	888 / 142	874 / 188	861 / 234	848 / 280
			Temp. Rise	51	52	53	54	54
	100% (High)	1285	CFM / Watts	1255 / 210	1241 / 271	1228 / 332	1214 / 393	1201 / 453
			Temp. Rise	57	58	58	59	59
1415	40% (Low)	562	CFM / Watts	605 / 44	584 / 79	562 / 113	540 / 147	518 / 182
			Temp. Rise	47	49	51	52	54
	65% (Medium)	952	CFM / Watts	982 / 119	967 / 170	951 / 220	936 / 271	920 / 321
			Temp. Rise	47	48	49	49	50
	100% (High)	1415	CFM / Watts	1400 / 274	1379 / 341	1358 / 408	1337 / 476	1316 / 543
			Temp. Rise	51	52	53	53	54
1455[a]	40% (Low)	595	CFM / Watts	627 / 47	611 / 80	594 / 114	578 / 147	562 / 180
			Temp. Rise	46	47	48	49	51
	65% (Medium)	976	CFM / Watts	1026 / 130	1001 / 180	976 / 230	950 / 280	925 / 330
			Temp. Rise	45	46	47	49	50
	100% (High)	1455	CFM / Watts	1436 / 308	1414 / 370	1392 / 431	1370 / 493	1348 / 555
			Temp. Rise	50	51	51	52	53
1530	40% (Low)	629	CFM / Watts	647 / 51	638 / 85	628 / 118	619 / 152	610 / 186
			Temp. Rise	44	45	46	46	47
	65% (Medium)	1026	CFM / Watts	1064 / 149	1045 / 197	1026 / 246	1006 / 294	987 / 342
			Temp. Rise	44	44	45	46	47
	100% (High)	1530	CFM / Watts	1503 / 346	1482 / 413	1462 / 480	1442 / 547	1421 / 614
			Temp. Rise	48	48	49	50	50
1650	40% (Low)	672	CFM / Watts	699 / 59	686 / 96	672 / 134	658 / 172	645 / 209
			Temp. Rise	41	42	43	43	44
	65% (Medium)	1113	CFM / Watts	1150 / 178	1131 / 232	1113 / 286	1095 / 340	1076 / 394
			Temp. Rise	40	41	41	42	43
	100% (High)	1650	CFM / Watts	1592 / 424	1576 / 496	1559 / 569	1543 / 642	1526 / 714
			Temp. Rise	45	45	46	46	47
1730	40% (Low)	713	CFM / Watts	734 / 64	723 / 102	712 / 141	701 / 180	690 / 218
			Temp. Rise	39	39	40	41	41
	65% (Medium)	1172	CFM / Watts	1192 / 196	1182 / 256	1171 / 317	1160 / 377	1150 / 437
			Temp. Rise	39	39	39	40	40
	100% (High)	1730	CFM / Watts	1674 / 467	1653 / 549	1632 / 632	1611 / 714	1590 / 796
			Temp. Rise	43	43	44	44	45

[a] Factory setting.

Table 11. S9VMB080U4VC / S9VMB080D4VC cooling airflow

S9VMB080U4VC / S9VMB080D4VC Furnace Cooling Airflow (CFM) and Power (Watts) vs. External Static Pressure with Filter							
Outdoor Tonnage - Odt	Airflow Setting (CFM/ton)		External Static Pressure (in. w. c.)				
			0.1	0.3	0.5	0.7	0.9
2.0	450	CFM	911	907	903	897	891
		WATTS	103	147	191	235	279
	420	CFM	850	846	841	835	829
		WATTS	88	130	171	213	254
	400	CFM	809	805	800	793	787
		WATTS	79	119	159	199	239
	370	CFM	747	743	737	730	723
		WATTS	66	104	141	179	217
	350	CFM	706	701	694	687	680
		WATTS	59	95	131	167	204
	330	CFM	664	658	652	644	636
		WATTS	52	86	121	156	191
	310	CFM	622	616	609	601	593
		WATTS	45	78	111	145	179
	290	CFM	580	573	565	557	548
		WATTS	40	71	102	135	168
2.5	450	CFM	1134	1131	1128	1123	1118
		WATTS	177	230	282	335	387
	420	CFM	1060	1058	1054	1049	1043
		WATTS	149	199	249	299	348
	400	CFM	1011	1008	1004	999	993
		WATTS	133	181	229	276	323
	370	CFM	936	933	928	923	917
		WATTS	110	155	200	245	289
	350	CFM	885	882	877	872	865
		WATTS	97	140	183	226	268
	330	CFM	835	831	826	820	813
		WATTS	85	125	166	207	248
	310	CFM	783	779	774	767	760
		WATTS	73	112	151	190	229
	290	CFM	732	727	721	714	707
		WATTS	63	100	137	175	212
3.0	450	CFM	1350	1347	1344	1339	1334
		WATTS	279	340	402	463	524
	420	CFM	1264	1262	1258	1254	1249
		WATTS	234	292	351	408	465
	400	CFM	1207	1204	1201	1196	1191
		WATTS	207	263	319	374	429
	370	CFM	1119	1117	1113	1109	1103
		WATTS	171	223	275	327	379
	350	CFM	1060	1058	1054	1049	1043
		WATTS	149	199	249	299	348
	330	CFM	1001	998	994	989	983
		WATTS	130	177	225	272	319
	310	CFM	941	938	933	928	922
		WATTS	112	157	202	247	291
	290	CFM	880	877	872	866	860
		WATTS	96	138	181	224	266

Table 11. S9VMB080U4VC / S9VMB080D4VC cooling airflow (continued)

S9VMB080U4VC / S9VMB080D4VC Furnace Cooling Airflow (CFM) and Power (Watts) vs. External Static Pressure with Filter							
Outdoor Tonnage - Odt	Airflow Setting (CFM/ton)		External Static Pressure (in. w. c.)				
			0.1	0.3	0.5	0.7	0.9
3.5	450	CFM	1557	1554	1550	1546	1540
		WATTS	414	484	554	624	694
	420	CFM	1461	1459	1455	1451	1445
		WATTS	347	413	479	545	610
	400	CFM	1396	1394	1390	1386	1381
		WATTS	306	369	433	496	559
	370	CFM	1298	1295	1292	1287	1282
		WATTS	251	310	370	429	488
	350	CFM	1231	1228	1225	1220	1215
		WATTS	218	275	332	388	444
	330	CFM	1163	1161	1157	1153	1147
		WATTS	189	243	297	350	403
	310	CFM	1095	1092	1088	1084	1078
		WATTS	162	213	264	315	366
	290	CFM	1026	1023	1019	1014	1008
		WATTS	138	186	235	283	331
4.0[(a)]	450	CFM	1757	1753	1749	1743	1737
		WATTS	586	665	744	822	900
	420	CFM	1652	1648	1644	1639	1634
		WATTS	490	564	638	712	785
	400	CFM	1580	1577	1573	1568	1563
		WATTS	431	502	573	644	715
	370	CFM	1471	1468	1464	1460	1454
		WATTS	353	419	486	552	618
	350	CFM	1396	1394	1390	1386	1381
		WATTS	306	369	433	496	559
	330	CFM	1321	1319	1315	1311	1306
		WATTS	264	324	384	444	504
	310	CFM	1245	1243	1239	1235	1230
		WATTS	225	282	340	397	453
	290	CFM	1168	1166	1162	1157	1152
		WATTS	191	245	299	353	406

[(a)] Factory setting.

Table 12. S9VMC100U5VC heating airflow

Furnace Heating Airflow (CFM), Power (Watts), and Temp. Rise (°F) vs. External Static Pressure with Filter (iwc)								
Airflow Setting	Heating Stage	Target Airflow		External Static Pressure (in. w. c.)				
				0.1	0.3	0.5	0.7	0.9
1620	40% (Low)	712	CFM / Watts	749 / 53	730 / 93	711 / 132	692 / 172	674 / 212
			Temp. Rise	48	50	51	53	54
	65% (Medium)	1175	CFM / Watts	1182 / 140	1178 / 198	1175 / 256	1171 / 314	1168 / 371
			Temp. Rise	49	49	50	50	50
	100% (High)	1620	CFM / Watts	1644 / 324	1641 / 405	1639 / 486	1637 / 567	1635 / 648
			Temp. Rise	55	55	55	55	55
1700	40% (Low)	757	CFM / Watts	783 / 58	770 / 98	757 / 138	743 / 178	730 / 218
			Temp. Rise	46	47	48	49	50
	65% (Medium)	1230	CFM / Watts	1235 / 156	1232 / 216	1229 / 275	1227 / 335	1224 / 394
			Temp. Rise	47	47	47	47	48
	100% (High)	1700	CFM / Watts	1715 / 368	1712 / 456	1708 / 544	1704 / 632	1701 / 720
			Temp. Rise	52	52	52	53	53
1800	40% (Low)	815	CFM / Watts	827 / 64	821 / 107	815 / 149	808 / 192	802 / 234
			Temp. Rise	44	44	44	45	45
	65% (Medium)	1300	CFM / Watts	1304 / 183	1302 / 245	1299 / 308	1297 / 370	1295 / 433
			Temp. Rise	45	45	45	45	45
	100% (High)	1800	CFM / Watts	1809 / 429	1803 / 522	1796 / 616	1790 / 710	1784 / 804
			Temp. Rise	50	50	50	50	50
1910[a]	40% (Low)	861	CFM / Watts	874 / 72	867 / 115	860 / 157	854 / 200	847 / 243
			Temp. Rise	42	42	42	43	43
	65% (Medium)	1369	CFM / Watts	1373 / 209	1371 / 273	1368 / 337	1366 / 401	1363 / 465
			Temp. Rise	42	42	42	43	43
	100% (High)	1910	CFM / Watts	1896 / 505	1890 / 605	1884 / 704	1877 / 804	1871 / 903
			Temp. Rise	47	47	48	48	48
1980	40% (Low)	888	CFM / Watts	896 / 77	892 / 122	887 / 166	883 / 210	879 / 255
			Temp. Rise	41	41	41	41	41
	65% (Medium)	1417	CFM / Watts	1421 / 233	1419 / 302	1417 / 372	1414 / 441	1412 / 510
			Temp. Rise	41	41	41	41	41
	100% (High)	1980	CFM / Watts	1974 / 579	1962 / 680	1949 / 780	1937 / 881	1925 / 981
			Temp. Rise	45	46	46	46	46
2100	40% (Low)	930	CFM / Watts	944 / 87	937 / 133	930 / 179	922 / 225	915 / 272
			Temp. Rise	38	39	39	39	40
	65% (Medium)	1498	CFM / Watts	1496 / 267	1497 / 343	1497 / 419	1498 / 495	1498 / 571
			Temp. Rise	39	39	39	39	39
	100% (High)	2100	CFM / Watts	2075 / 679	2052 / 775	2028 / 870	2005 / 966	1982 / 1061
			Temp. Rise	43	44	44	45	45

[a] Factory setting.

Table 13. S9VMC100D5VC heating airflow

Furnace Heating Airflow (CFM), Power (Watts), and Temp. Rise (°F) vs. External Static Pressure with Filter (iwc)								
Airflow Setting	**Heating Stage**	**Target Airflow**		**External Static Pressure (in. w. c.)**				
				0.1	**0.3**	**0.5**	**0.7**	**0.9**
1550	40% (Low)	631	CFM / Watts	700 / 45	665 / 79	631 / 112	596 / 146	561 / 179
			Temp. Rise	52	54	57	59	62
	65% (Medium)	1106	CFM / Watts	1140 / 118	1123 / 169	1105 / 220	1088 / 271	1070 / 322
			Temp. Rise	51	52	53	54	55
	100% (High)	1550	CFM / Watts	1622 / 269	1606 / 343	1590 / 416	1574 / 490	1558 / 563
			Temp. Rise	55	56	56	57	57
1600	40% (Low)	657	CFM / Watts	721 / 47	689 / 81	657 / 114	624 / 148	592 / 181
			Temp. Rise	50	53	55	57	60
	65% (Medium)	1143	CFM / Watts	1187 / 128	1165 / 179	1143 / 230	1120 / 281	1098 / 332
			Temp. Rise	49	50	51	52	53
	100% (High)	1600	CFM / Watts	1658 / 297	1638 / 371	1617 / 445	1596 / 519	1576 / 594
			Temp. Rise	54	55	55	56	57
1700	40% (Low)	704	CFM / Watts	764 / 52	733 / 87	703 / 121	673 / 156	642 / 191
			Temp. Rise	47	49	51	53	55
	65% (Medium)	1212	CFM / Watts	1264 / 149	1238 / 200	1212 / 252	1186 / 303	1160 / 354
			Temp. Rise	46	47	48	49	50
	100% (High)	1700	CFM / Watts	1769 / 341	1755 / 418	1741 / 494	1728 / 571	1714 / 647
			Temp. Rise	51	51	51	52	52
1800[(a)]	40% (Low)	737	CFM / Watts	806 / 58	772 / 95	737 / 131	702 / 168	668 / 205
			Temp. Rise	45	47	49	51	53
	65% (Medium)	1283	CFM / Watts	1327 / 165	1305 / 225	1283 / 284	1261 / 344	1239 / 403
			Temp. Rise	44	45	46	46	47
	100% (High)	1800	CFM / Watts	1875 / 397	1845 / 481	1816 / 566	1786 / 650	1756 / 735
			Temp. Rise	48	48	49	50	51
1850	40% (Low)	760	CFM / Watts	828 / 62	793 / 98	759 / 134	725 / 171	691 / 207
			Temp. Rise	44	46	47	49	51
	65% (Medium)	1319	CFM / Watts	1359 / 178	1339 / 240	1319 / 301	1299 / 363	1279 / 424
			Temp. Rise	43	44	44	45	46
	100% (High)	1850	CFM / Watts	1926 / 434	1900 / 522	1875 / 609	1850 / 697	1824 / 785
			Temp. Rise	46	47	48	48	49
2000	40% (Low)	828	CFM / Watts	892 / 72	860 / 110	828 / 147	796 / 185	764 / 222
			Temp. Rise	41	42	44	45	47
	65% (Medium)	1424	CFM / Watts	1479 / 216	1451 / 283	1424 / 349	1396 / 415	1369 / 481
			Temp. Rise	39	40	41	42	43
	100% (High)	2000	CFM / Watts	2065 / 531	2040 / 629	2015 / 726	1990 / 823	1966 / 921
			Temp. Rise	43	44	44	45	46

[(a)] Factory setting.

Table 14. S9VMC100U5VC / S9VMC100D5VC cooling airflow

S9VMC100U5VC / S9VMC100D5VC Furnace Cooling Airflow (CFM) and Power (Watts) vs. External Static Pressure with Filter							
Outdoor Tonnage - Odt	Airflow Setting (CFM/ton)		External Static Pressure (in. w. c.)				
			0.1	0.3	0.5	0.7	0.9
2.5	450	CFM	1148	1143	1134	1120	1102
		WATTS	118	171	226	284	343
	420	CFM	1071	1065	1053	1037	1019
		WATTS	100	150	202	257	314
	400	CFM	1019	1012	999	982	962
		WATTS	89	137	187	241	296
	370	CFM	942	932	917	897	875
		WATTS	74	119	167	218	272
	350	CFM	890	878	861	840	816
		WATTS	65	108	155	204	257
	330	CFM	837	823	804	782	757
		WATTS	57	98	143	191	243
	310	CFM	784	768	747	723	696
		WATTS	50	89	133	180	230
	290	CFM	731	712	689	663	634
		WATTS	43	81	123	169	219
3.0	450	CFM	1375	1374	1367	1357	1343
		WATTS	187	248	312	378	445
	420	CFM	1285	1282	1275	1263	1248
		WATTS	157	215	275	338	402
	400	CFM	1224	1221	1213	1200	1184
		WATTS	139	194	252	312	374
	370	CFM	1132	1128	1118	1103	1085
		WATTS	114	166	221	278	337
	350	CFM	1071	1065	1053	1038	1019
		WATTS	100	150	202	257	314
	330	CFM	1009	1001	988	971	950
		WATTS	87	134	185	238	293
	310	CFM	947	937	922	903	881
		WATTS	75	120	168	220	274
	290	CFM	884	872	855	834	810
		WATTS	64	107	154	203	255
3.5	450	CFM	1598	1597	1592	1584	1572
		WATTS	279	350	422	497	573
	420	CFM	1495	1494	1488	1479	1467
		WATTS	233	299	368	438	510
	400	CFM	1425	1424	1418	1408	1395
		WATTS	205	269	334	402	471
	370	CFM	1320	1318	1311	1300	1285
		WATTS	168	227	289	353	418
	350	CFM	1249	1247	1239	1227	1211
		WATTS	146	202	262	323	386
	330	CFM	1178	1174	1165	1152	1135
		WATTS	126	180	236	295	355
	310	CFM	1107	1102	1091	1076	1058
		WATTS	108	159	213	269	327
	290	CFM	1035	1028	1015	999	979
		WATTS	92	140	192	246	302

Table 14. S9VMC100U5VC / S9VMC100D5VC cooling airflow (continued)

S9VMC100U5VC / S9VMC100D5VC Furnace Cooling Airflow (CFM) and Power (Watts) vs. External Static Pressure with Filter							
Outdoor Tonnage - Odt	Airflow Setting (CFM/ton)		External Static Pressure (in. w. c.)				
			0.1	0.3	0.5	0.7	0.9
4.0	450	CFM	1817	1815	1810	1801	1790
		WATTS	399	478	560	643	728
	420	CFM	1701	1699	1695	1686	1675
		WATTS	331	406	483	561	641
	400	CFM	1623	1622	1617	1608	1597
		WATTS	291	362	436	512	588
	370	CFM	1505	1504	1498	1489	1477
		WATTS	237	304	373	443	516
	350	CFM	1425	1424	1418	1408	1395
		WATTS	205	269	334	402	471
	330	CFM	1345	1343	1337	1326	1312
		WATTS	177	237	299	364	430
	310	CFM	1265	1262	1254	1242	1227
		WATTS	151	208	267	329	392
	290	CFM	1183	1180	1171	1157	1140
		WATTS	127	181	238	297	358
4.5	450	CFM	2031	2027	2020	2011	1999
		WATTS	548	637	727	820	913
	420	CFM	1903	1900	1895	1886	1875
		WATTS	455	538	623	710	798
	400	CFM	1817	1815	1810	1801	1790
		WATTS	399	478	560	643	728
	370	CFM	1686	1685	1680	1672	1660
		WATTS	324	397	474	552	631
	350	CFM	1598	1597	1592	1584	1572
		WATTS	279	350	422	497	573
	330	CFM	1509	1508	1503	1494	1482
		WATTS	239	306	375	446	519
	310	CFM	1420	1419	1413	1403	1390
		WATTS	203	267	332	400	469
	290	CFM	1330	1328	1321	1310	1296
		WATTS	171	231	293	357	423
5.0[a]	450	CFM	2240	2234	2225	2214	2200
		WATTS	731	829	929	1030	1133
	420	CFM	2101	2096	2089	2080	2067
		WATTS	605	697	791	886	983
	400	CFM	2007	2004	1997	1988	1976
		WATTS	530	617	707	798	891
	370	CFM	1865	1862	1857	1849	1837
		WATTS	429	510	594	679	766
	350	CFM	1768	1767	1762	1754	1743
		WATTS	370	447	527	608	691
	330	CFM	1671	1670	1666	1657	1646
		WATTS	316	389	465	542	621
	310	CFM	1574	1573	1568	1559	1547
		WATTS	268	337	409	482	557
	290	CFM	1475	1474	1468	1459	1446
		WATTS	225	290	358	428	499

[a] Factory setting.

Table 15. S9VMD120U5VC heating airflow

Furnace Heating Airflow (CFM), Power (Watts), and Temp. Rise (°F) vs. External Static Pressure with Filter (iwc)								
Airflow Setting	Heating Stage	Target Airflow		External Static Pressure (in. w. c.)				
				0.1	0.3	0.5	0.7	0.9
1730	40% (Low)	740	CFM / Watts	769 / 52	754 / 85	740 / 118	725 / 151	711 / 184
			Temp. Rise	57	58	58	58	59
	65% (Medium)	1228	CFM / Watts	1225 / 134	1226 / 186	1227 / 238	1228 / 290	1229 / 342
			Temp. Rise	57	57	57	57	57
	100% (High)	1730	CFM / Watts	1734 / 319	1733 / 395	1733 / 471	1732 / 546	1732 / 622
			Temp. Rise	62	62	62	62	62
1850	40% (Low)	792	CFM / Watts	810 / 60	801 / 94	791 / 128	782 / 162	773 / 195
			Temp. Rise	52	51	51	51	50
	65% (Medium)	1300	CFM / Watts	1307 / 160	1304 / 215	1300 / 270	1296 / 325	1292 / 381
			Temp. Rise	52	52	52	52	52
	100% (High)	1850	CFM / Watts	1847 / 389	1844 / 469	1841 / 550	1838 / 630	1835 / 710
			Temp. Rise	58	58	58	58	58
1950[a]	40% (Low)	811	CFM / Watts	858 / 67	834 / 98	810 / 130	787 / 162	763 / 194
			Temp. Rise	50	50	49	49	49
	65% (Medium)	1371	CFM / Watts	1384 / 185	1378 / 243	1371 / 302	1364 / 360	1357 / 418
			Temp. Rise	50	50	50	50	50
	100% (High)	1950	CFM / Watts	1937 / 436	1939 / 531	1940 / 625	1942 / 720	1944 / 815
			Temp. Rise	55	55	55	55	55
2050	40% (Low)	803	CFM / Watts	895 / 73	848 / 105	802 / 137	756 / 169	709 / 201
			Temp. Rise	48	49	50	51	51
	65% (Medium)	1440	CFM / Watts	1455 / 208	1447 / 266	1440 / 324	1432 / 382	1424 / 440
			Temp. Rise	48	48	48	49	49
	100% (High)	2050	CFM / Watts	2040 / 519	2035 / 612	2030 / 704	2025 / 796	2020 / 889
			Temp. Rise	53	53	53	53	54
2150	40% (Low)	984	CFM / Watts	933 / 79	959 / 116	984 / 153	1009 / 191	1034 / 228
			Temp. Rise	45	45	44	44	43
	65% (Medium)	1524	CFM / Watts	1510 / 230	1517 / 294	1524 / 359	1530 / 423	1537 / 487
			Temp. Rise	45	45	45	45	46
	100% (High)	2150	CFM / Watts	2143 / 577	2140 / 679	2137 / 782	2133 / 885	2130 / 987
			Temp. Rise	50	50	50	50	50
2250	40% (Low)	853	CFM / Watts	988 / 85	920 / 127	852 / 170	784 / 212	716 / 255
			Temp. Rise	43	43	42	42	42
	65% (Medium)	1610	CFM / Watts	1580 / 257	1595 / 327	1609 / 397	1624 / 468	1639 / 538
			Temp. Rise	43	43	43	43	42
	100% (High)	2250	CFM / Watts	2236 / 687	2225 / 779	2214 / 871	2203 / 963	2193 / 1055
			Temp. Rise	48	48	48	48	49

[a] Factory setting.

Table 16. S9VMD120D5VC heating airflow

Furnace Heating Airflow (CFM), Power (Watts), and Temp. Rise (°F) vs. External Static Pressure with Filter (iwc)								
Airflow Setting	**Heating Stage**	**Target Airflow**		**External Static Pressure (in. w. c.)**				
				0.1	**0.3**	**0.5**	**0.7**	**0.9**
1900	40% (Low)	793	CFM / Watts	793 / 55	793 / 89	793 / 123	793 / 157	793 / 191
			Temp. Rise	54	53	52	51	49
	65% (Medium)	1289	CFM / Watts	1285 / 149	1287 / 200	1288 / 251	1290 / 303	1292 / 354
			Temp. Rise	55	55	56	56	56
	100% (High)	1900	CFM / Watts	1792 / 353	1798 / 432	1804 / 511	1810 / 589	1816 / 668
			Temp. Rise	60	60	60	60	60
2050	40% (Low)	814	CFM / Watts	848 / 63	830 / 97	813 / 131	796 / 166	778 / 200
			Temp. Rise	52	52	52	52	53
	65% (Medium)	1407	CFM / Watts	1389 / 182	1398 / 237	1406 / 293	1415 / 348	1424 / 403
			Temp. Rise	51	51	50	50	49
	100% (High)	2050	CFM / Watts	1912 / 442	1924 / 523	1935 / 605	1946 / 686	1958 / 767
			Temp. Rise	57	57	56	56	56
2100	40% (Low)	863	CFM / Watts	867 / 66	865 / 101	862 / 135	859 / 170	857 / 205
			Temp. Rise	50	49	48	47	46
	65% (Medium)	1414	CFM / Watts	1412 / 192	1413 / 248	1414 / 304	1415 / 360	1416 / 416
			Temp. Rise	50	49	49	49	49
	100% (High)	2100	CFM / Watts	1962 / 476	1961 / 555	1960 / 635	1959 / 714	1957 / 793
			Temp. Rise	55	55	55	55	55
2200	40% (Low)	921	CFM / Watts	933 / 73	927 / 105	920 / 137	914 / 169	908 / 201
			Temp. Rise	46	46	46	47	47
	65% (Medium)	1559	CFM / Watts	1482 / 214	1520 / 278	1558 / 342	1596 / 406	1634 / 470
			Temp. Rise	47	46	45	44	43
	100% (High)	2200	CFM / Watts	2056 / 542	2076 / 632	2096 / 723	2115 / 814	2135 / 904
			Temp. Rise	53	52	52	52	51
2250[(a)]	40% (Low)	1009	CFM / Watts	954 / 77	981 / 116	1008 / 156	1035 / 195	1062 / 234
			Temp. Rise	45	44	42	41	40
	65% (Medium)	1594	CFM / Watts	1507 / 232	1550 / 291	1593 / 351	1636 / 411	1680 / 471
			Temp. Rise	46	45	44	43	42
	100% (High)	2250	CFM / Watts	2100 / 569	2127 / 671	2154 / 772	2181 / 873	2208 / 975
			Temp. Rise	51	50	50	50	50
2350	40% (Low)	1133	CFM / Watts	981 / 83	1057 / 131	1132 / 179	1208 / 226	1283 / 274
			Temp. Rise	44	42	40	39	37
	65% (Medium)	1655	CFM / Watts	1558 / 250	1606 / 322	1655 / 394	1703 / 466	1752 / 538
			Temp. Rise	45	44	43	41	40
	100% (High)	2350	CFM / Watts	2196 / 669	2196 / 744	2195 / 818	2195 / 893	2194 / 968
			Temp. Rise	48	48	48	48	48

[(a)] Factory setting.

Table 17. S9VMD120U5VC / S9VMD120D5VC cooling airflow

S9VMD120U5VC / S9VMD120D5VC Furnace Cooling Airflow (CFM) and Power (Watts) vs. External Static Pressure with Filter							
Outdoor Tonnage - Odt	Airflow Setting (CFM/ton)		External Static Pressure (in. w. c.)				
			0.1	0.3	0.5	0.7	0.9
3.0	450	CFM	1357	1366	1360	1340	1309
		WATTS	167	228	291	355	419
	420	CFM	1272	1275	1264	1241	1206
		WATTS	140	198	258	318	380
	400	CFM	1215	1213	1199	1173	1138
		WATTS	124	180	237	296	355
	370	CFM	1129	1118	1099	1071	1031
		WATTS	103	155	209	264	320
	350	CFM	1071	1054	1031	1000	960
		WATTS	90	140	192	245	299
	330	CFM	1012	989	962	928	887
		WATTS	79	126	176	227	279
	310	CFM	953	923	892	856	813
		WATTS	68	114	161	210	261
	290	CFM	893	856	820	782	737
		WATTS	59	102	148	195	244
3.5	450	CFM	1568	1589	1592	1579	1553
		WATTS	248	317	389	461	534
	420	CFM	1470	1486	1485	1469	1440
		WATTS	207	273	340	409	477
	400	CFM	1405	1416	1412	1395	1364
		WATTS	183	246	311	376	443
	370	CFM	1305	1310	1301	1280	1246
		WATTS	150	209	270	332	395
	350	CFM	1239	1239	1226	1202	1167
		WATTS	131	187	246	305	365
	330	CFM	1172	1166	1149	1122	1085
		WATTS	113	167	223	280	337
	310	CFM	1105	1092	1071	1041	1002
		WATTS	98	149	202	256	311
	290	CFM	1037	1016	991	959	918
		WATTS	83	132	183	234	287
4.0	450	CFM	1778	1805	1814	1807	1785
		WATTS	352	430	510	591	672
	420	CFM	1666	1690	1696	1687	1663
		WATTS	293	367	442	518	595
	400	CFM	1592	1613	1617	1605	1579
		WATTS	258	328	401	474	548
	370	CFM	1480	1496	1495	1480	1452
		WATTS	211	277	345	413	482
	350	CFM	1405	1416	1412	1395	1364
		WATTS	183	246	311	376	443
	330	CFM	1329	1336	1328	1307	1275
		WATTS	158	218	279	342	406
	310	CFM	1253	1254	1242	1219	1184
		WATTS	135	192	251	311	371
	290	CFM	1177	1171	1155	1128	1091
		WATTS	115	169	224	281	339

Table 17. S9VMD120U5VC / S9VMD120D5VC cooling airflow (continued)

S9VMD120U5VC / S9VMD120D5VC Furnace Cooling Airflow (CFM) and Power (Watts) vs. External Static Pressure with Filter							
Outdoor Tonnage - Odt	Airflow Setting (CFM/ton)		External Static Pressure (in. w. c.)				
			0.1	0.3	0.5	0.7	0.9
4.5	450	CFM	1986	2016	2029	2025	2006
		WATTS	483	569	658	747	836
	420	CFM	1861	1890	1901	1895	1875
		WATTS	401	483	566	650	734
	400	CFM	1778	1805	1814	1807	1785
		WATTS	352	430	510	591	672
	370	CFM	1652	1676	1682	1672	1647
		WATTS	286	359	434	510	586
	350	CFM	1568	1589	1592	1579	1553
		WATTS	248	317	389	461	534
	330	CFM	1484	1501	1500	1485	1457
		WATTS	213	279	347	416	485
	310	CFM	1400	1411	1407	1389	1359
		WATTS	181	244	309	374	440
	290	CFM	1315	1320	1312	1291	1258
		WATTS	153	213	274	336	399
5.0[(a)]	450	CFM	2193	2225	2239	2236	2219
		WATTS	644	738	835	932	1030
	420	CFM	2055	2086	2100	2096	2078
		WATTS	533	622	713	805	898
	400	CFM	1963	1993	2005	2002	1982
		WATTS	467	553	640	728	817
	370	CFM	1824	1852	1862	1856	1835
		WATTS	379	459	540	623	706
	350	CFM	1731	1757	1765	1757	1734
		WATTS	327	403	481	560	639
	330	CFM	1638	1661	1667	1656	1632
		WATTS	280	352	426	501	577
	310	CFM	1545	1564	1566	1553	1526
		WATTS	238	306	377	448	520
	290	CFM	1452	1466	1464	1448	1419
		WATTS	200	265	332	399	467

[(a)] Factory setting.

Maximum Vent Length Table

Table 18. Maximum vent length table

Model	1.5-inch Pipe	2-inch Pipe	2.5-inch Pipe	3-inch Pipe	4-inch Pipe
Altitude 0-2,000 FT.					
S9VMB060	50	200	200	200	250
S9VMB080	30	100	200	200	250
S9VMC100	(a)	50	100	200	250
S9VMD120	(a)	(a)	(a)	200	250
Altitude 2,001- 5400 FT					
S9VMB060	50	200	200	200	250
S9VMB080	20	80	120	120	200
S9VMC100	(a)	50	100	150	200
S9VMD120	(a)	(a)	(a)	200	250
Altitude 5,401-7,800 FT					
S9VMB060	25	100	150	150	200
S9VMB080	(a)	50	70	70	140
S9VMC100	(a)	(a)	(a)	100	200
S9VMD120	(a)	(a)	(a)	100	200
Altitude 7,801-10,100 FT					
S9VMB060	(a)	50	90	90	180
S9VMB080	(a)	(a)	(a)	50	100
S9VMC100	(a)	(a)	(a)	50	100
S9VMD120	(a)	(a)	(a)	50	100

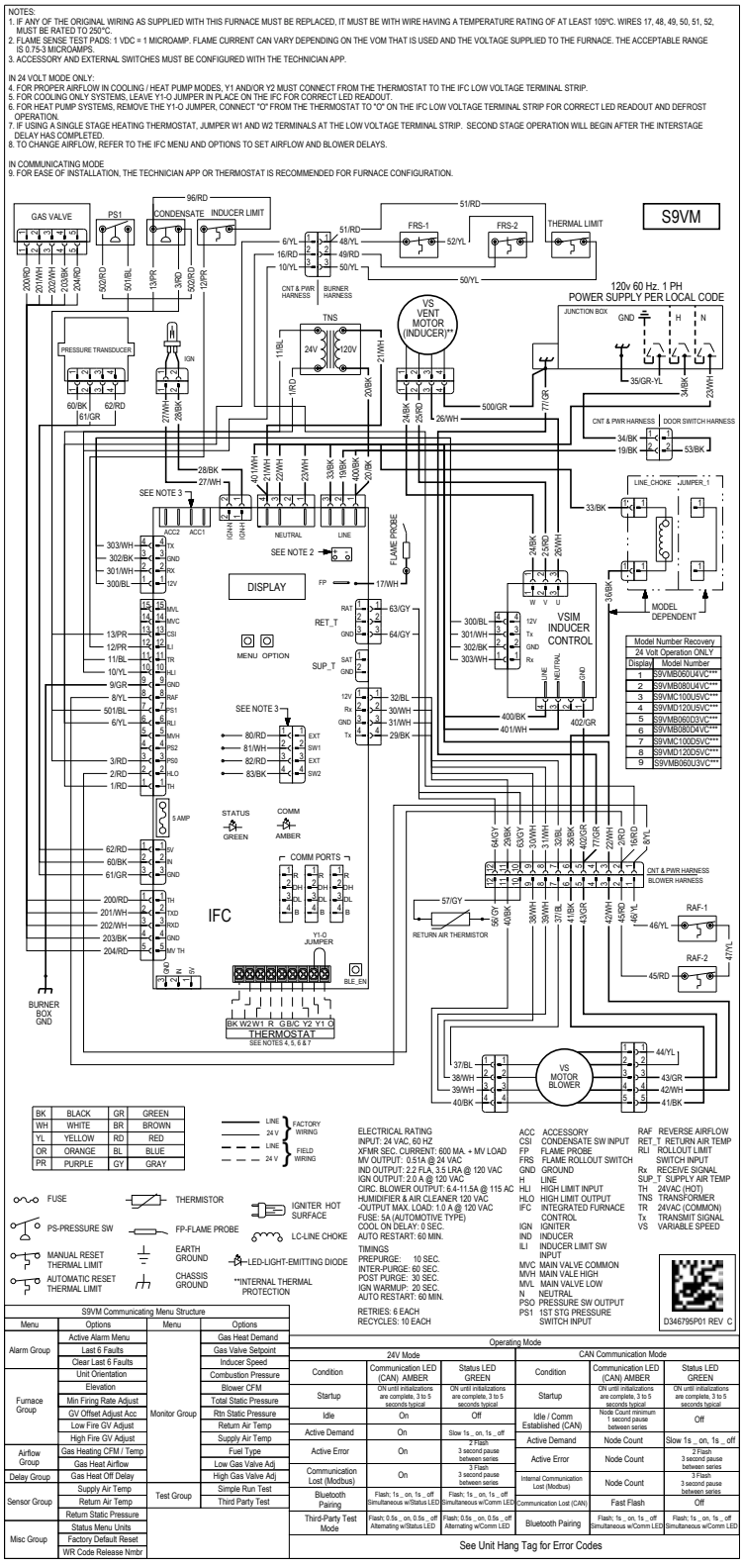
Notes:

1. Installation Instructions must be followed for installation of the venting system.
2. These fittings are available from your Gas Furnace Distributors.
3. For PolyPro® by Duravent, Z-DENS by Novaflex Group, InnoFlue® by Centrotherm, ECCO™ polypropylene venting system, 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.
4. Minimum vent length for all models: 15ft equivalent.
5. 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.
6. 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).
7. One short radius 90° elbow is equivalent to 10' of 4-in. pipe, 10' of 3-in. pipe, or 8' of 2-in. pipe. One LONG radius elbow is equivalent to 6' of 4-in. pipe, 7' of 3-in. pipe, or 5' of 2-in. pipe. Two 45° elbows equal one 90° long elbow. One mitered elbow is equivalent to 12' of 3-in. pipe or 12' of 2-in. pipe.
8. 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.
9. For Canadian applications, venting systems must meet ULC-S636 requirements.
10. 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).

(a) Not allowed.

Wiring Diagrams

Figure 1. S9VM wiring diagram

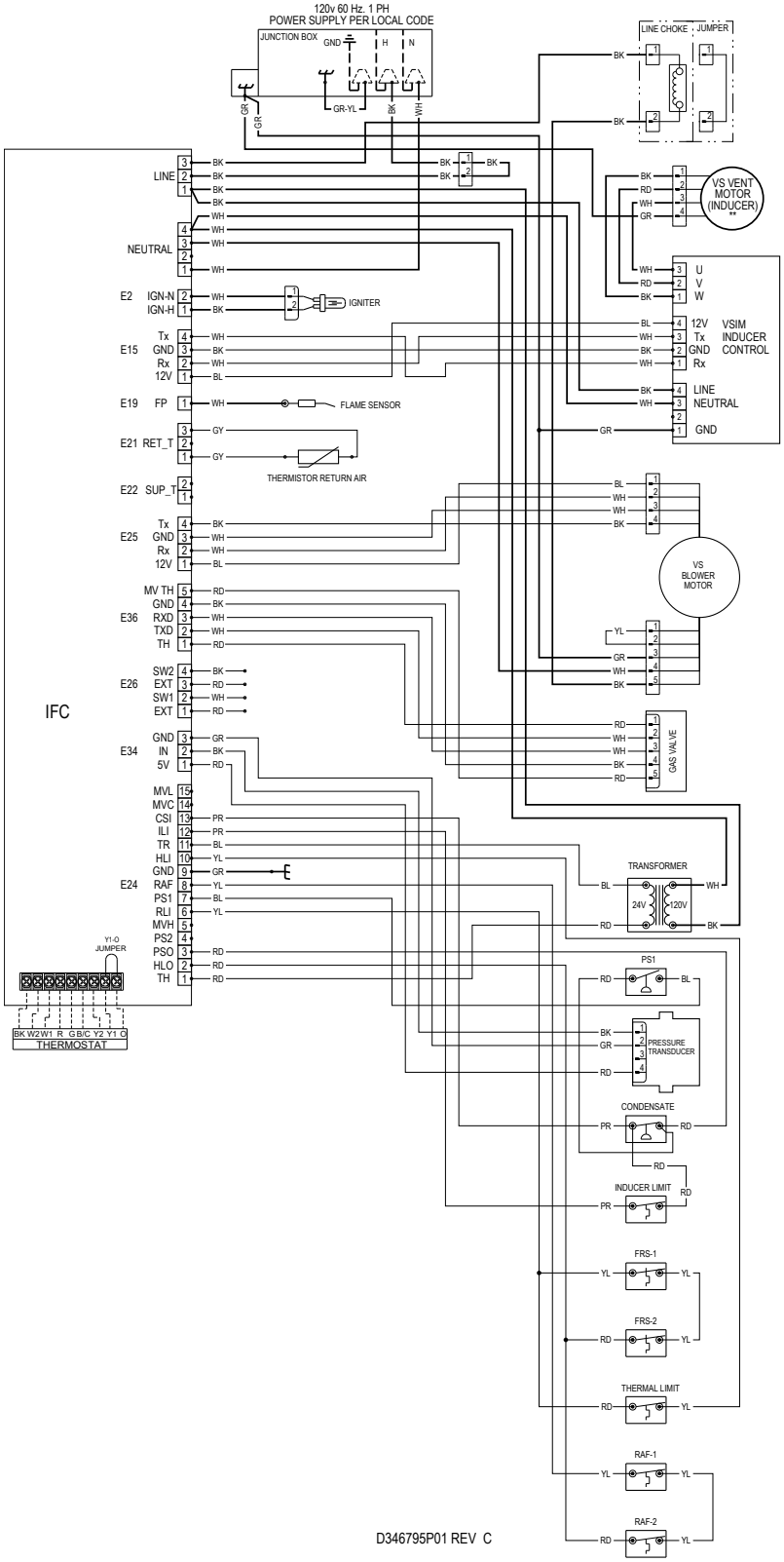


S9VM Communicating Menu Structure

Menu	Options	Menu	Options
Alarm Group	Active Alarm Menu	Monitor Group	Gas Heat Demand
	Last 6 Faults		Gas Valve Setpoint
	Clear Last 6 Faults		Inducer Speed
Furnace Group	Unit Orientation		Combustion Pressure
	Elevation		Blower CFM
	Min Firing Rate Adjust		Total Static Pressure
	GV Offset Adjust Acc		Rtn Static Pressure
	Low Fire GV Adjust		Return Air Temp
	High Fire GV Adjust		Supply Air Temp
Airflow Group	Gas Heating CFM / Temp		Fuel Type
	Gas Heat Airflow		Low Gas Valve Adj
Delay Group	Gas Heat Off Delay		High Gas Valve Adj
Sensor Group	Supply Air Temp	Test Group	Simple Run Test
	Return Air Temp		Third Party Test
	Return Static Pressure		
Misc Group	Status Menu Units		
	Factory Default Reset		
	WR Code Release Nmbr		

Operating Mode				
	24V Mode		CAN Communication Mode	
Condition	Communication LED (CAN) AMBER	Status LED GREEN	Condition	Communication LED (CAN) AMBER	Status LED GREEN
Startup	ON until initializations are complete, 3 to 5 seconds typical	ON until initializations are complete, 3 to 5 seconds typical	Startup	ON until initializations are complete, 3 to 5 seconds typical	ON until initializations are complete, 3 to 5 seconds typical
Idle	On	Off	Idle / Comm Established (CAN)	Node Count minimum 1 second pause between series	Off
Active Demand	On	Slow 1s _ on, 1s _ off	Active Demand	Node Count	Slow 1s _ on, 1s _ off
Active Error	On	2 Flash 3 second pause between series	Active Error	Node Count	2 Flash 3 second pause between series
Communication Lost (Modbus)	On	3 Flash 3 second pause between series	Internal Communication Lost (Modbus)	Node Count	3 Flash 3 second pause between series
Bluetooth Pairing	Flash; 1s _ on, 1s _ off Simultaneous w/Status LED	Flash; 1s _ on, 1s _ off Simultaneous w/Comm LED	Communication Lost (CAN)	Fast Flash	Off
Third-Party Test Mode	Flash; 0.5s _ on, 0.5s _ off Alternating w/Status LED	Flash; 0.5s _ on, 0.5s _ off Alternating w/Comm LED	Bluetooth Pairing	Flash; 1s _ on, 1s _ off Simultaneous w/Comm LED	Flash; 1s _ on, 1s _ off Simultaneous w/Comm LED
See Unit Hang Tag for Error Codes					

Figure 2. S9VM ladder 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.

See the "Wiring Diagrams," p. 33 and unit wiring diagram attached to furnace.

Field Wiring

Figure 3. Link communicating low voltage hook-up diagrams

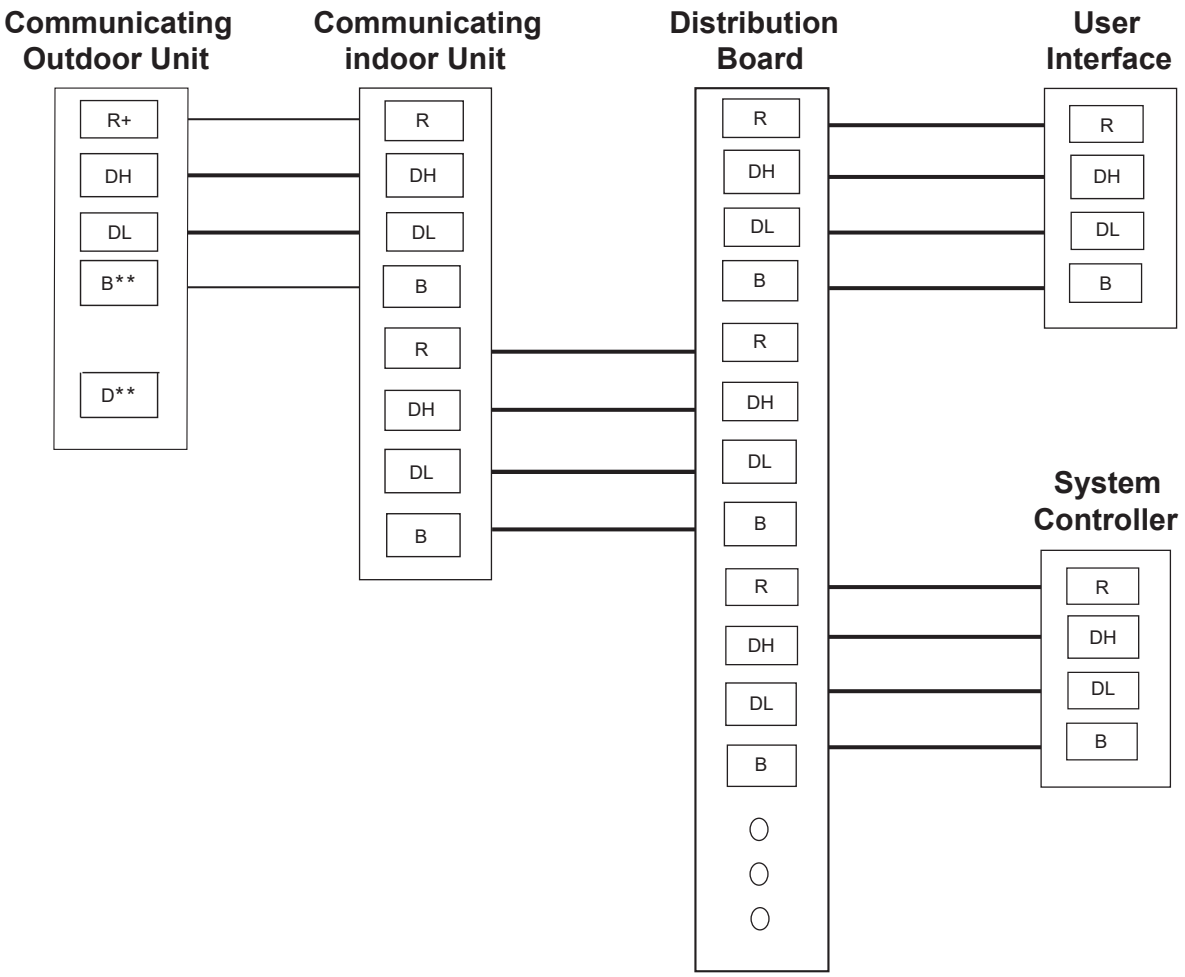


Table 19. Wire colors

Wire Colors	
R	Red
DH	White
DL	Green
B	Blue

Notes:

- ** — Accessory terminals are dry contact outputs only.*
- *+ — R connection to the outdoor unit is required only in applications utilizing an outdoor load shed device or when using a 24Vac charging solenid during automatic weigh-in charging.*
- *** — B connection to the outdoor unit is optional for 2 wire outdoor applications, but is recommended in other applications.*
- ****— DATA (Brown) wire only used in Clii mode.*
- *Wire colors are for illustration purposes only. If using a different color, ensure it lands at the correct terminal throughout all of the communicating control wiring.*
- *Drawing is for reference only. Wiring can be done in many different ways.*

External Switches and Accessories

When connecting a humidifier or electronic air cleaner to the furnace use ACC1 or ACC2. Configuration is required.

- Accessory 1 and 2 are dry contacts need source voltage from the accessory.
- External switches 1 and 2 have 24 Vac source voltage and are to be connected to Normally Closed (NC) contact on the device, i.e smoke detector.

Notes:

- *In link communicating mode, accessories and external switches can be configured in the UX360 smart thermostat or technician app.*
- *In 24V mode, accessories and external switches can be configured in the technician app.*
- *Do not use the condensate cooling option in 24V mode of operation. See Figure 6, p. 37 and Figure 7, p. 37.*

Figure 4. Accessories terminal

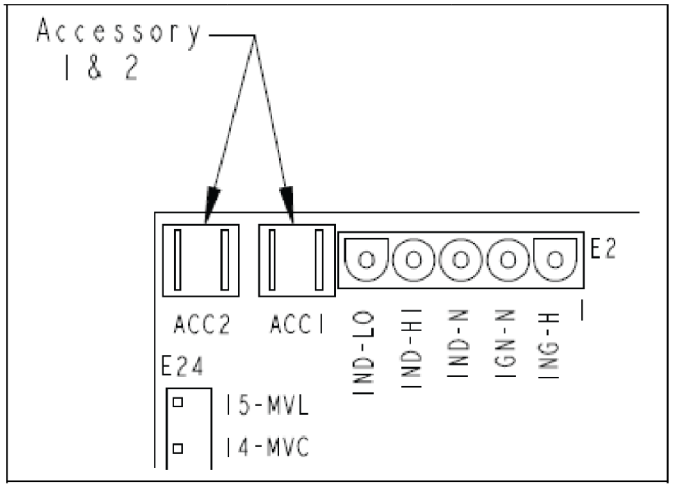


Figure 5. External switch pin-outs

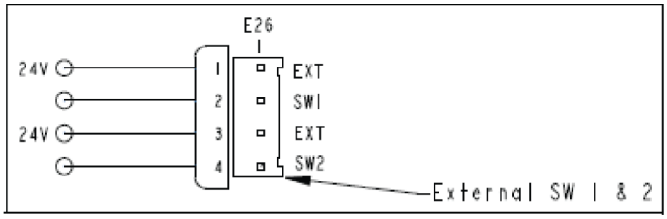
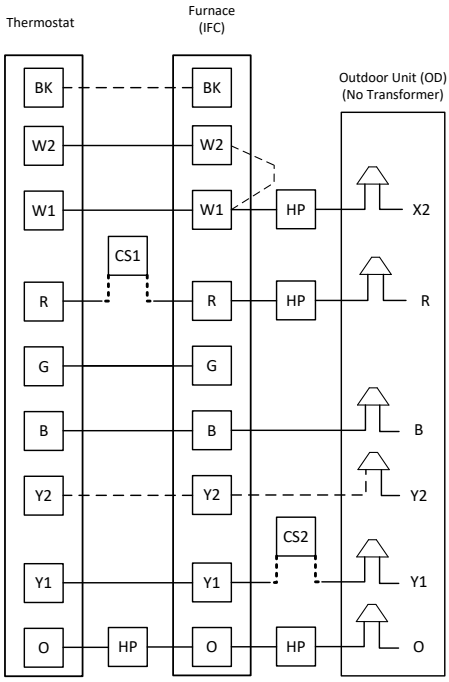
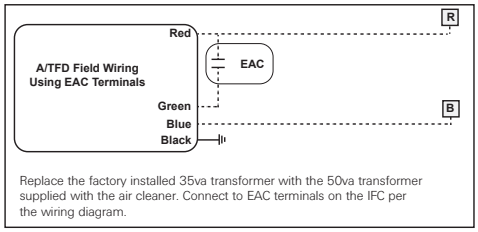


Figure 6. Field wiring diagram (24V) with one or two stage AC or heat pump

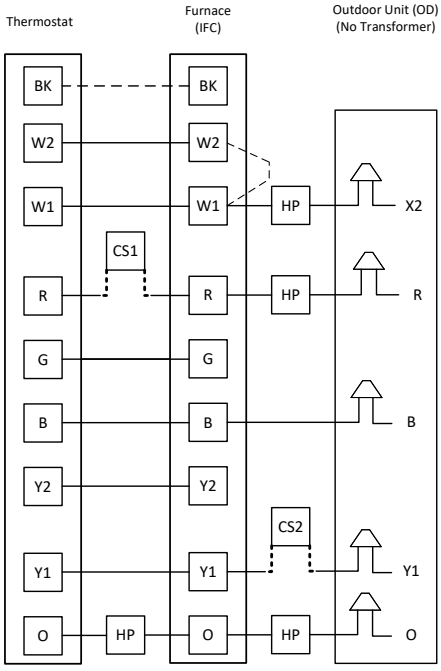


Notes:
1) HP = Wiring used for Heat Pump System.
2) CS = wiring used for Condensate Switch (2 Options).
3) Y1 and/or Y2 must be connected from the thermostat to the IFC for proper airflow.
4) Remove Y1-O jumper for HP systems. O terminal must be connected as shown for gas heating operation during defrost.
5) If the thermostat does not have a W2, or there are not enough conductors, jumper W1 to W2 at the IFC.
6) A/TCONT824 thermostats do not require the use of X2.
7) For PWM (BK) enabled thermostats, the BK setting must be enabled in the Technician app or IFC menu/options and connect wiring.

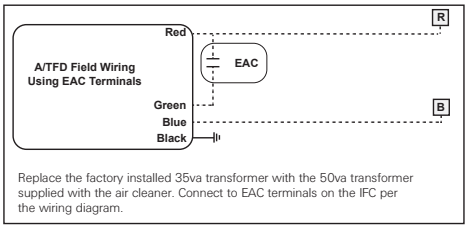


Replace the factory installed 35va transformer with the 50va transformer supplied with the air cleaner. Connect to EAC terminals on the IFC per the wiring diagram.

Figure 7. Field wiring diagram (24V) with single stage AC or heat pump with 2 stage airflow



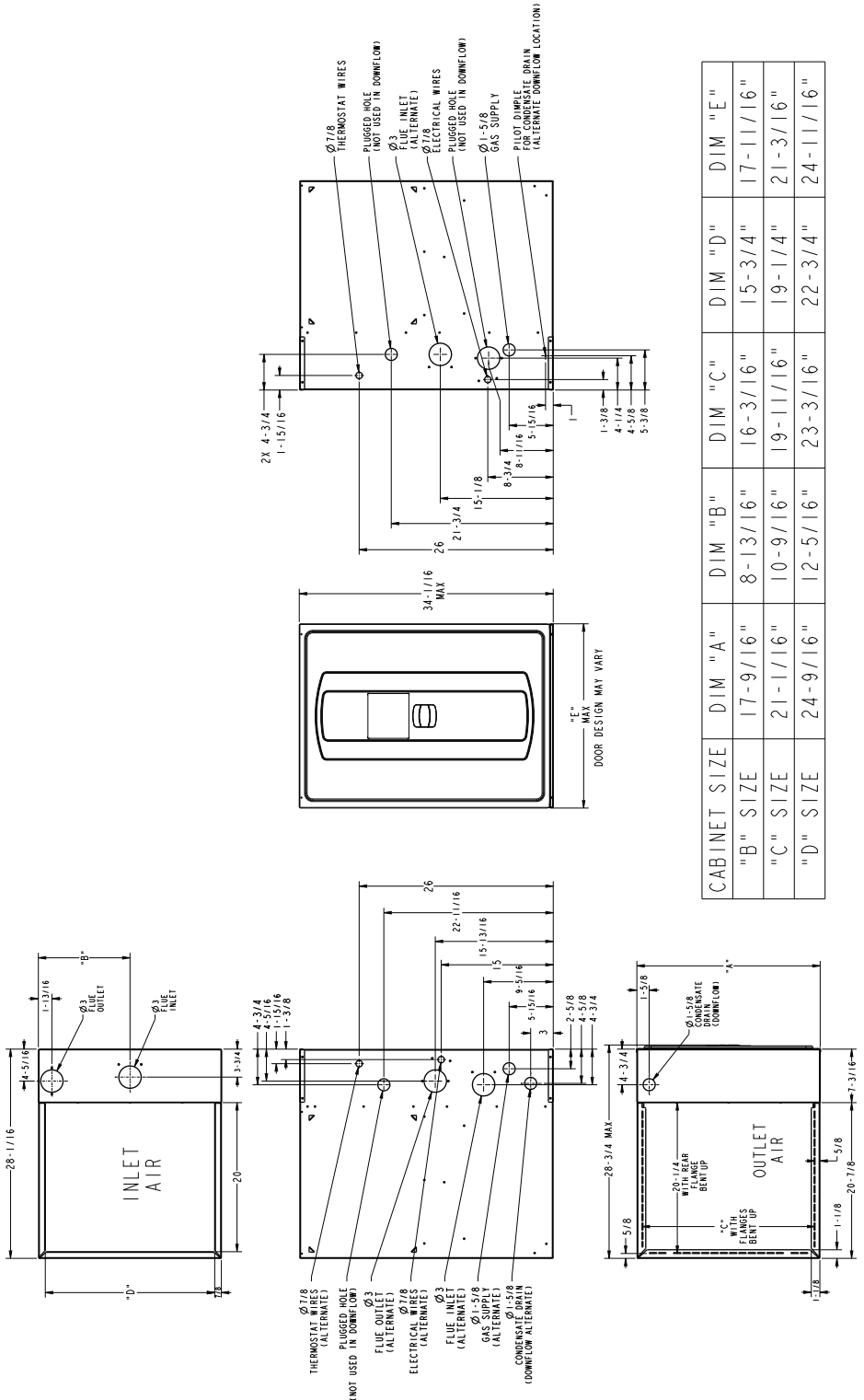
Notes:
1) HP = Wiring used for Heat Pump System.
2) CS = wiring used for Condensate Switch (2 Options).
3) Y1 and Y2 must be connected from the thermostat to the IFC for proper airflow.
4) Thermostat must be setup for 2 stage OD.
5) IFC Must be setup for 2 stage OD using the Menu/Option Buttons.
6) Remove Y1-O jumper for HP systems. O terminal must be connected as shown for gas heating operation during defrost.
7) If the thermostat does not have a W2, or there are not enough conductors, jumper W1 to W2 at the IFC.
8) A/TCONT824 thermostats do not require the use of X2.
9) For PWM (BK) enabled thermostats, BK setting must be enabled in the Technician app or IFC menu/options and connect wiring.



Replace the factory installed 35va transformer with the 50va transformer supplied with the air cleaner. Connect to EAC terminals on the IFC per the wiring diagram.

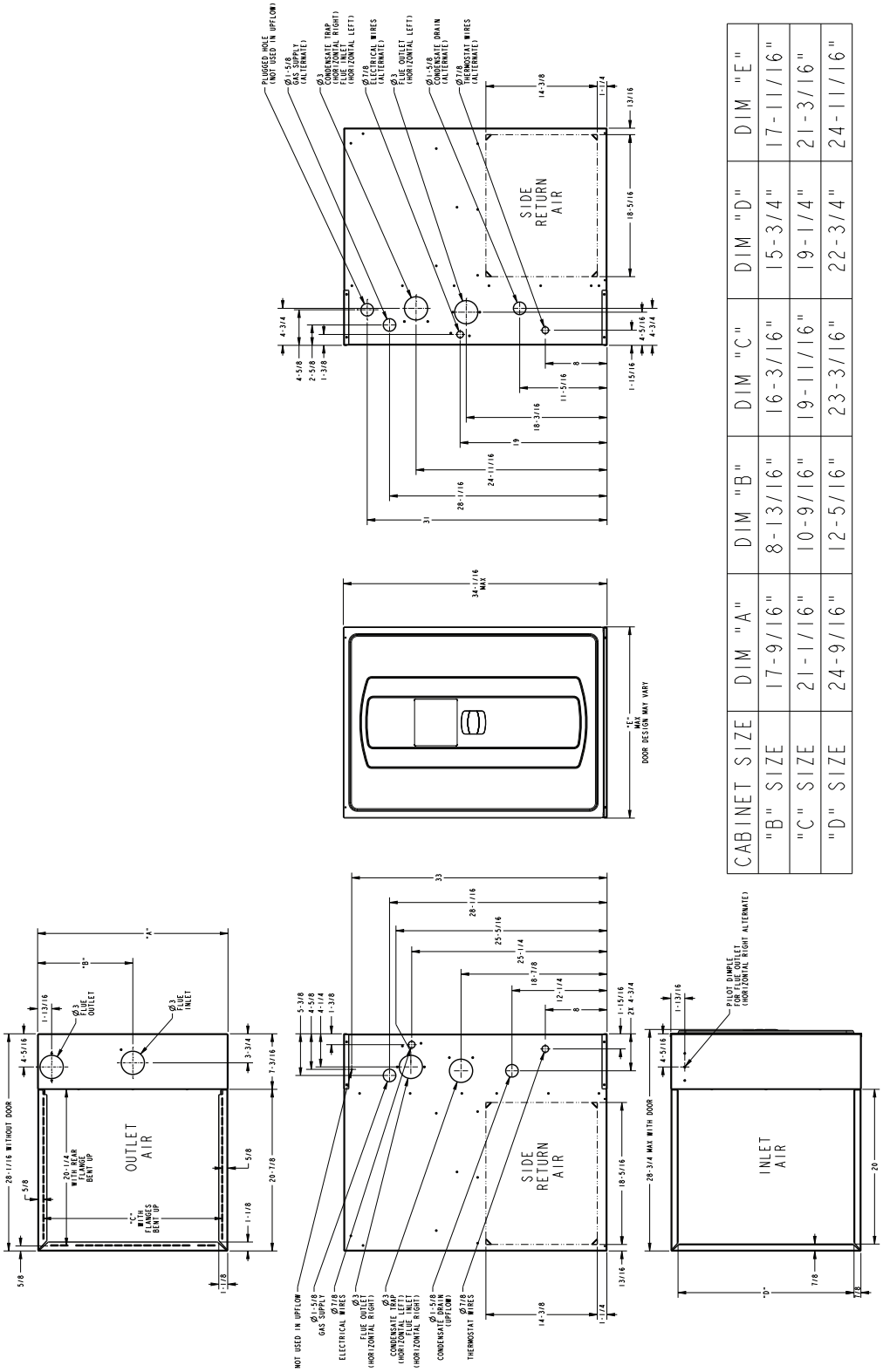
Dimensional Data

Figure 8. Downflow cabinets — 17.5-inch, 21-inch, and 24.5-inch



CABINET SIZE	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"
"B" SIZE	17-9/16"	8-13/16"	16-3/16"	15-3/4"	17-11/16"
"C" SIZE	21-1/16"	10-9/16"	19-11/16"	19-1/4"	21-3/16"
"D" SIZE	24-9/16"	12-5/16"	23-3/16"	22-3/4"	24-11/16"

Figure 9. Upflow cabinets — 17.5-inch, 21-inch, and 24.5-inch



CABINET SIZE	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"
"B" SIZE	17-9/16"	8-13/16"	16-3/16"	15-3/4"	17-11/16"
"C" SIZE	21-1/16"	10-9/16"	19-11/16"	19-1/4"	21-3/16"
"D" SIZE	24-9/16"	12-5/16"	23-3/16"	22-3/4"	24-11/16"

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