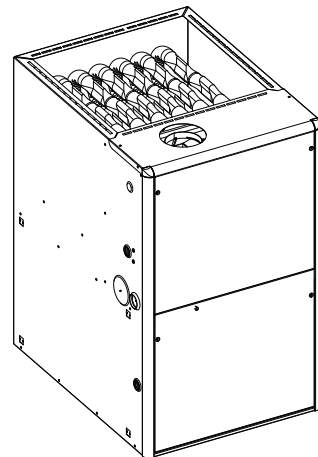


Submittal

Upflow / Horizontal Left/Right Single Stage Condensing Gas Fired Furnace 70,000 BTUH

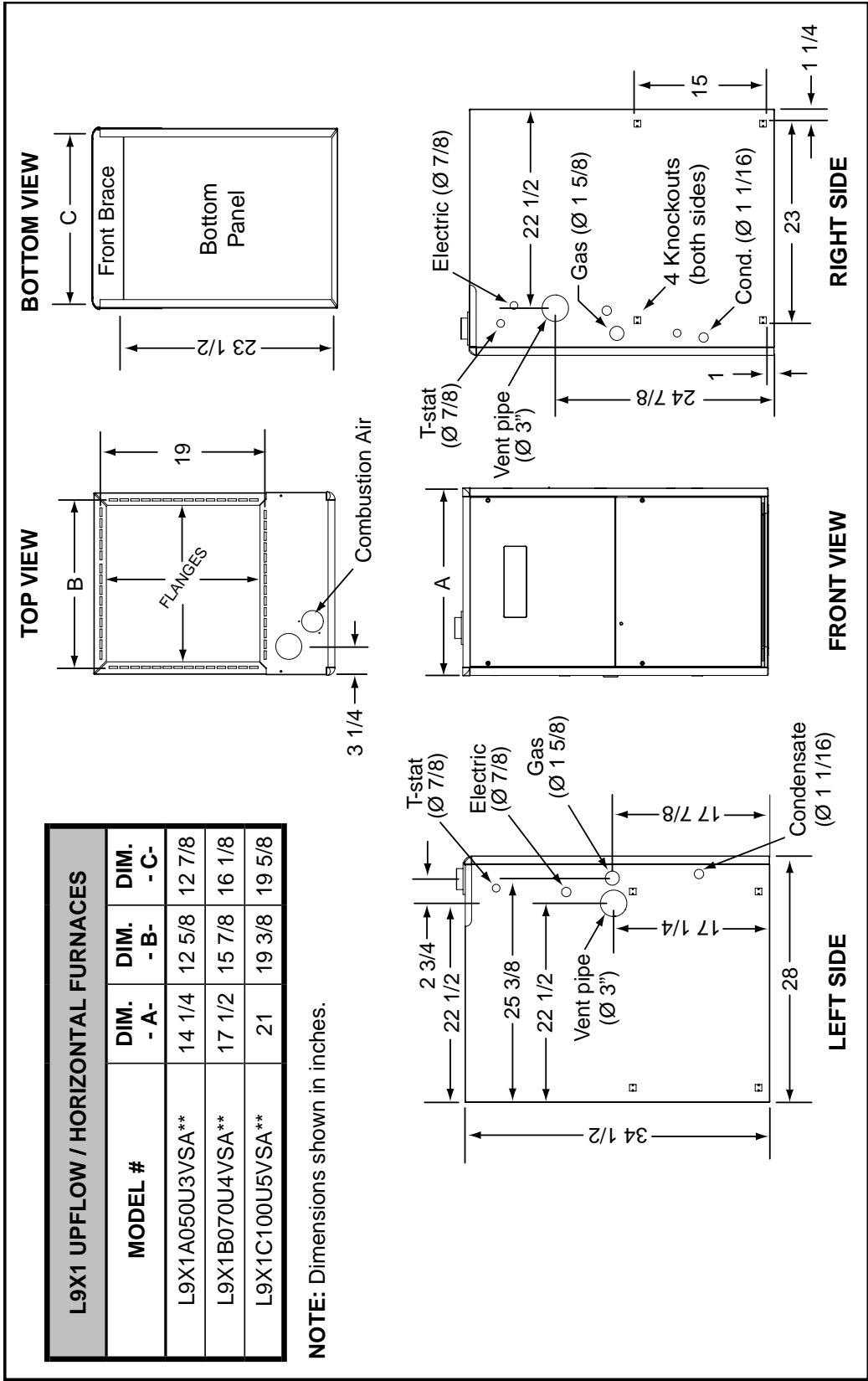
Upflow, Convertible to Horizontal Right or Horizontal Left

L9X1B070U4VSAA



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

Outline Drawings



L9X1 UPFLOW / HORIZONTAL FURNACES			
MODEL #	DIM. - A-	DIM. - B-	DIM. - C-
L9X1A050U3VSA**	14 1/4	12 5/8	12 7/8
L9X1B070U4VSA**	17 1/2	15 7/8	16 1/8
L9X1C100U5VSA**	21	19 3/8	19 5/8

NOTE: Dimensions shown in inches.

Product Specifications

MODEL	L9X1B070U4VSAA (a)
TYPE	Upflow/Horizontal
RATINGS (b)	
Input BTUH	70,000
Capacity BTUH (ICS) (c) (d)	67,000
Temp. Rise (Min.-Max.)	30 - 60
AFUE (%)	95.0
Return Air Temp. (Min. - Max.)	45°F - 80°F
BLOWER DRIVE	DIRECT
Diameter — Width (In.)	11 X 8
No. Used	1
Speeds (No.) (e)	9
CFM vs. in. w.g.	See Fan Performance Table
Motor HP	3/4
RPM	1050
Volts/Ph/Hz	120 / 1 / 60
FLA	7.6
COMBUSTION FAN — Type	Centrifugal
Drive — No. Speeds	Direct - VSPD
Motor HP — RPM	4700
Volts/Ph/Hz	120 / 1 / 60
FLA	1
FILTER — Furnished?	No
Type recommended	High Velocity
Hi Vel. (No.-Size-Thk.) in.	1 - 16 x 25 x 1

MODEL	L9X1B070U4VSAA (a)
VENT PIPE DIAMETER — Min (in.) (f) (g)	2 Round
HEAT EXCHANGER	
Type — Fired	Aluminized Steel
— Unfired	Stainless Steel
ORIFICES — Main	
Nat. Gas Qty. — Drill Size	1 - 26
GAS VALVE	Redundant - One Stage
PILOT SAFETY DEVICE	
Type	120 V SiNi Igniter
BURNERS — Type	Premix
Number	4
POWER CONN. — V/Ph/Hz (h)	120 / 1 / 60
Ampacity (In Amps)	9.8
Max. Overcurrent Protection (Amps)	15
PIPE CONN. SIZE (in.)	1/2
DIMENSIONS	H x W x D
Uncrated (In.)	34-1/2 x 17-1/2 x 28
Crated (In.)	35-3/4 x 21-1/4 x 31
WEIGHT	
Shipping (Lbs.)/Net (Lbs.)	133/119

(a) Meets Energy Star

(b) This furnace is equipped and rated to operate at altitudes up to a maximum of 5,400 Ft. There are no conversion kits required for operation of this furnace up to 5,400 Ft.

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

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

(e) 9 Speed constant torque ECM blower motor

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

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

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

Airflow tables

Table 1. Cooling Airflow (CFM)

MODEL NAME/ HEATING INPUT	RETURN AIR VIA:	MOTOR SPEED TAP	EXTERNAL STATIC PRESSURE (IN. W.C.)							
			0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
			CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM
L9X1B070U4VSAAA 70,000 BTU/Hr Input 67,000 BTU/Hr Output	Bottom Only	9	1,775	1,745	1,705	1,660	1,620	1,580	1,540	1,500
		8	1,640	1,605	1,560	1,525	1,485	1,440	1,400	1,350
		7	1,565	1,525	1,480	1,440	1,390	1,355	1,310	1,260
		6**	1,460	1,430	1,385	1,345	1,300	1,260	1,215	1,175
		5*	1,380	1,330	1,285	1,240	1,200	1,150	1,110	1,065
		4	1,065	1,015	965	920	870	815	755	700
		3	860	770	735	670	610	560	490	460
		2***	660	610	550	460	430	360		
		1	625	550	490	435	365			
	Side Only	9	1,715	1,710	1,675	1,640	1,600	1,565	1,525	1,480
		8	1,600	1,565	1,530	1,490	1,445	1,410	1,370	1,320
		7	1,515	1,480	1,440	1,405	1,360	1,320	1,275	1,230
		6**	1,440	1,400	1,360	1,315	1,270	1,230	1,180	1,130
		5*	1,340	1,295	1,255	1,215	1,170	1,120	1,070	1,020
		4	1,025	980	925	875	820	780	740	680
		3	830	760	700	650	595	525	495	465
		2***	695	600	565	470	400	385		
		1	585	530	490	420	370			
	Side + Bottom	9	1,820	1,785	1,745	1,710	1,665	1,625	1,585	1,540
		8	1,675	1,640	1,600	1,550	1,515	1,480	1,435	1,390
		7	1,585	1,545	1,500	1,460	1,420	1,380	1,340	1,295
		6**	1,460	1,415	1,375	1,330	1,290	1,245	1,205	1,160
		5*	1,400	1,355	1,310	1,270	1,225	1,180	1,135	1,090
		4	1,065	1,010	965	915	850	810	755	710
		3	860	790	735	680	625	550	500	460
		2***	680	600	550	480	420	390		
		1	650	550	500	435	390			

* Denotes the factory (default) COOL setting.

** Denotes the factory (default) HEAT setting.

*** Denotes the factory (default) FAN setting. If an alternate speed is to be used, refer to the installation instructions for Speed Tap Selection.

Notes:

1. To comply with government mandated efficiency standards, two openings are required for airflows above 1,600 CFM.
2. Data is shown without filter.
3. Temperature rises in the table are approximate. Actual temperature rises may vary.
4. Individual cells shaded in gray indicate a temperature rise outside of the recommended range.
5. To comply with government mandated efficiency standards, speed settings shaded in gray are not allowed in HEAT mode.

CFM Versus Temperature Rise

Table 2. Heating Airflow (CFM) and Temperature Rise (°F)

MODEL NAME/ HEATING INPUT	RETURN AIR VIA:	MOTOR SPEED TAP	EXTERNAL STATIC PRESSURE (IN. W.C.)										
			0.1		0.2		0.3		0.4		0.5		
			CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE	
L9X1B070U4VSAAA 70,000 BTU/Hr Input 67,000 BTU/Hr Output	Bottom Only	9											
		8											
		7											
		6	1,460	42	1,430	43	1,385	45	1,345	46	1,300	48	
		5	1,380	45	1,330	47	1,285	48	1,240	50	1,200	52	
		4	1,065	58									
		3											
		2											
		1											
	Side Only	9											
		8											
		7											
		6	1,440	43	1,400	44	1,360	46	1,315	47	1,270	49	
		5	1,340	46	1,295	48	1,255	49	1,215	51	1,170	53	
		4											
		3											
		2											
		1											
	Side + Bottom	9											
		8											
		7											
		6	1,460	42	1,415	44	1,375	45	1,330	47	1,290	48	
		*	1,400	44	1,355	46	1,310	47	1,270	49	1,225	51	
		4	1,065	58									
		3											
		2											
		1											

Notes:

1. Data is shown without filter.
2. Temperature rises in the table are approximate. Actual temperature rises may vary.
3. Individual cells shaded in gray indicate a temperature rise outside of the recommended range.
4. To comply with government mandated efficiency standards, speed settings shaded in gray are not allowed in HEAT mode.

General Features

NATURAL GAS MODELS

Central Heating furnace designs are certified by the American Gas Association for natural 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 aluminized 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.

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. L9X1 also contains dry contacts for EAC and HUM.

ENERGY EFFICIENT OPERATION

L9X1 Furnace is certified by the manufacturer to leak 2% or less of nominal air conditioning CFM delivered when pressurized to 0.5" water column with all inlets, outlets, and drains sealed.

AIR DELIVERY

The 9 tap constant torque ECM 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 L9X1 furnace has a stainless steel secondary heat exchanger to reclaim heat from flue gases which would normally be lost.

STYLING

Heavy gauge steel is used in the cabinet with a painted finish for strength and beauty. Every orientation has at least two venting options.

FEATURES AND GENERAL OPERATION

The L9X1 furnace utilizes a Silicon Nitride Hot Surface Ignition system, which eliminates the waste of a constant burning pilot. The integrated system control lights the main burners upon a demand for heat from the room thermostat. Complete front service access.

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

Features and Benefits

UP TO 95.0% AFUE ON L9X1 FURNACE MODELS

Meets utility rebates

Lowers utility bills

ELECTRICALLY EFFICIENT

Efficient airflow design reduces electrical energy use

34.5 INCH TALL

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

Works great with larger, high-efficiency coils

AIRFLOW

At least 400 CFM/ton at 0.5 in. H₂O external static pressure

REGULATORY

Models are certified to operate with NO_x levels below 14 ng/J

DIMENSIONS

Width is industry standard: 17.5"

Depth remains approximately 28"

Cabinet is 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 on L9X1 models

All Molex connections; no spade terminals

Low voltage labeled above and below

TUBULAR ALUMINIZED STEEL PRIMARY HEAT EXCHANGER

STAINLESS STEEL SECONDARY HEAT EXCHANGER

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

Easier to specify

Shipped ready to install (no conversion kits required)

Every model has at least two venting options

Horizontal installations require drain fitting changes to tubing for proper condensate management. See installation instructions.

About Trane and American Standard Heating and Air Conditioning

Trane and American Standard create comfortable, energy efficient indoor environments for residential applications. For more information, please visit www.trane.com or 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.