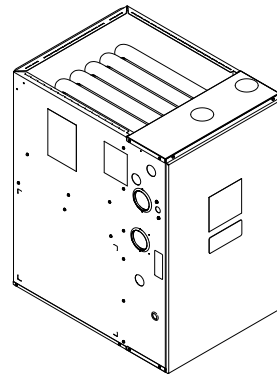


Submittal

Upflow/ Horizontal Left/Right Two Stage Condensing Gas Fired Furnace 60,000 BTUH

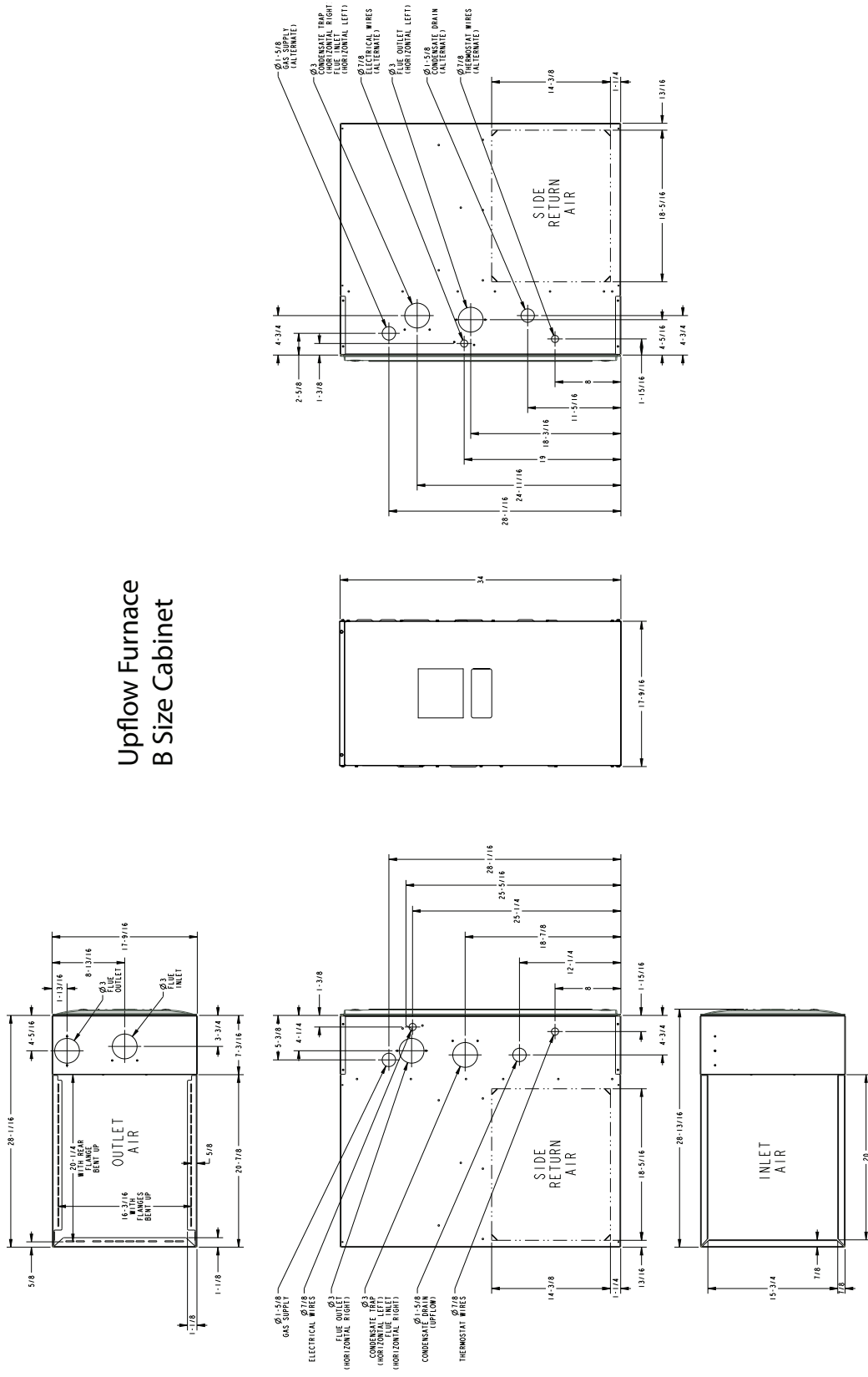
Upflow, Convertible to
Horizontal Right or
Horizontal Left
A952V060BU4SAB



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

Outline Drawings

Upflow Furnace B Size Cabinet



Product Specification

MODEL	A952V060BU4SAB (a)
TYPE	Upflow/Horizontal
RATINGS (b)	
1st Stage Input BTUH (ICS)	39,000
1st Stage Capacity BTUH	37,830
2nd Stage Input BTUH	60,000
2nd Stage Capacity BTUH (ICS) (c) (d)	58,200
1st Stage Temp. Rise (Min.-Max.)	25 - 55
2nd Stage Temp. Rise (Min.-Max.)	35 - 65
AFUE (%)	96.0
BLOWER DRIVE	DIRECT
Diameter — Width (In.)	11 X 8
No. Used	1
Speeds (No.)	Variable
CFM vs. in. w.g.	See Fan Performance Table
Motor HP	3/4
RPM	Variable
Volts/Ph/Hz	120 / 1 / 60
FLA	8.0
COMBUSTION FAN — Type	Centrifugal
Drive — No. Speeds	Direct - 2
Motor HP — RPM	3300/2600
Volts/Ph/Hz	120 / 1 / 60
FLA	0.66
FILTER — Furnished?	No
Type recommended	High Velocity
Hi Vel. (No.-Size-Thk.)	1 — 16x25 — 1 in.
VENT PIPE DIAMETER — Min (in.) (e) (f)	2 Round
HEAT EXCHANGER	
Type — Fired	409 Stainless Steel

MODEL	A952V060BU4SAB (a)
— Unfired	29-4C Stainless Steel
Gauge (Fired)	20
ORIFICES — Main	
Nat. Gas Qty. — Drill Size	3 - 45
LP Gas Qty. — Drill Size	3 - 56
GAS VALVE	Redundant - Two Stage
PILOT SAFETY DEVICE	
Type	120 V SiNi Igniter
BURNERS — Type	Multiport Inshot
Number	3
POWER CONN. — V/Ph/Hz (g)	120 / 1 / 60
Ampacity (In Amps)	10.8
Max. Overcurrent Protection (Amps)	15
PIPE CONN. SIZE (in.)	1/2
DIMENSIONS	H x W x D
Uncrated (In.)	34 x 17-1/2 x 28-3/4
Crated (In.)	35-1/2 x 19-1/2 x 30-7/8
WEIGHT	
Shipping (Lbs.)/Net (Lbs.)	130/122

- (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 A952V 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 1. A952V060BU4SAB Heating Airflow

A952V060BU4SAB 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.

Table 2. A952V060BU4SAB Cooling Airflow

A952V060BU4SAB 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	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

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

Multipoint 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 1.4% 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 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 for strength. Every orientation has at least two venting options. There are no knockouts on cabinet.

FEATURES AND GENERAL OPERATION

The 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; 1.4% or less air leakage as per ASHRAE 193

Open vestibule design provides a full 34" high open vestibule

DIMENSIONS

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

Depth remains approximately 28"

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

INTEGRATED FURNACE CONTROL

Setup / Status / Diagnostics / Digital Display

No dip switches

Last six errors stored

Dry contact EAC and HUM connections

All Molex connections; no spade terminals

Low voltage labeled above and below

Rain shield over IFC keeps condensate off the control

TUBULAR STAINLESS STEEL PRIMARY HEAT EXCHANGER

29-4C STAINLESS STEEL SECONDARY HEAT EXCHANGER

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

Integrated rail system for easy access if required

Reduces or eliminates need for baffles

VARIABLE SPEED BLOWER MOTOR

Increased efficiency

Improved home comfort

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

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.