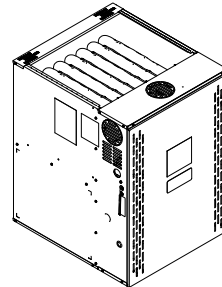


Submittal

Upflow / Downflow / Horizontal Left/Right Single Stage Non-condensing Gas Fired Furnace 40,000 BTUH

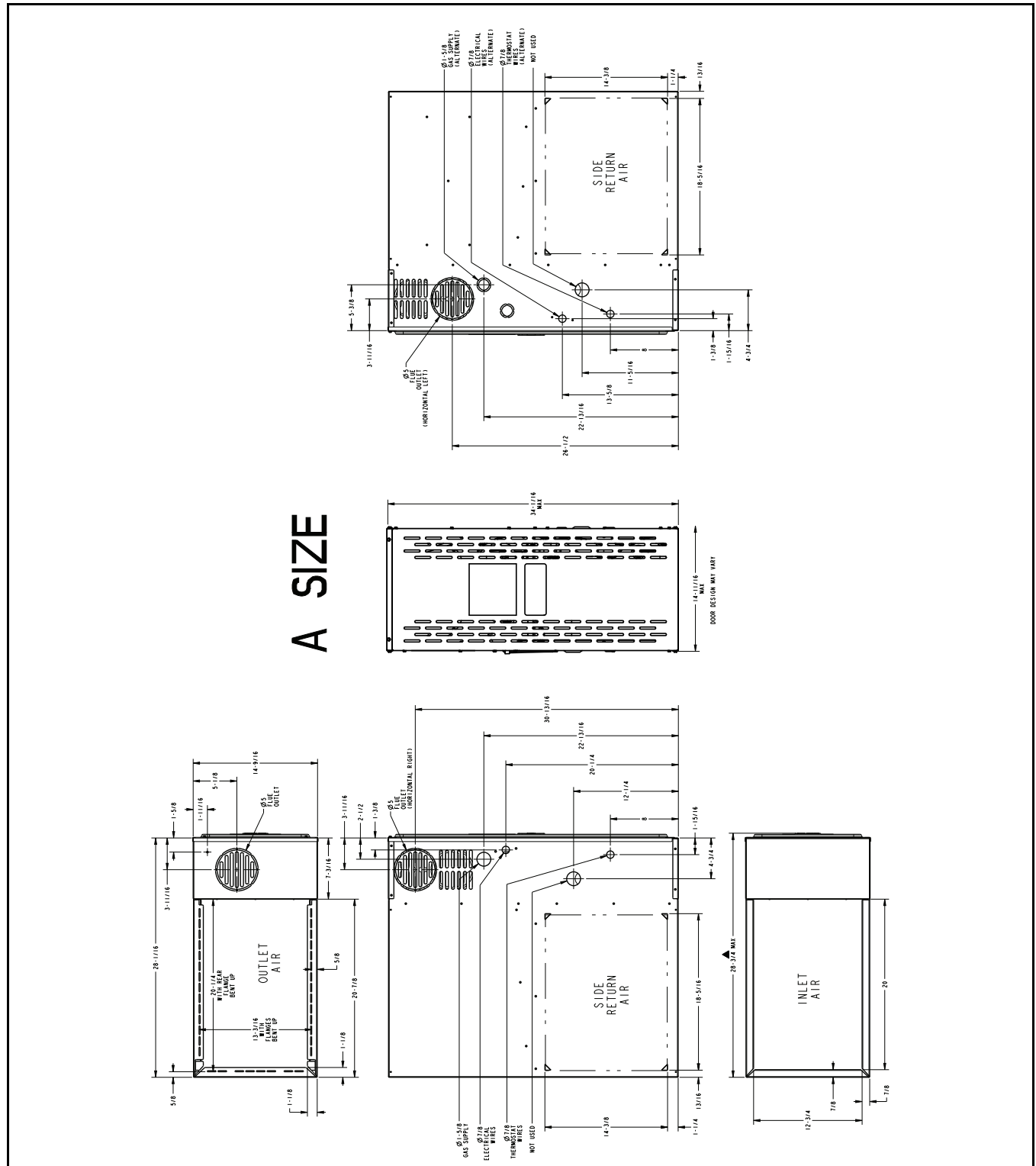
Upflow, Downflow, Horizontal Right/Left

A801X040AM3SDA/B



Note: Models may have a "T" in the 12th digit designating they meet California less than 40 ng/J (NOx) emissions requirements.

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

Table 1. 14.5" Width Cabinet

Product Specifications

MODEL	A801X040AM3SDA/B (a)
Type	Upflow / Horizontal / Downflow
RATINGS (b)	
Input BTUH	40,000
Capacity BTUH (ICS) (c)	32,300
Temp. Rise (Min. - Max.) °F	30 - 60
AFUE - Rating (c)	80
Return Air Temp. (Min. - Max.) °F	55°F - 80°F
BLOWER DRIVE	DIRECT
Diameter - Width (in.)	11 X 8
No. Used	1
Speeds (No.) (d)	CTM - 9
CFM vs. in. w.g.	See Fan Performance Table
Motor HP	1/2
R.P.M.	1050
Volts / Ph / Hz	120 / 1 / 60
FLA	6.4
COMBUSTION FAN - Type	PSC
Drive - No. Speeds	Direct - 1
Motor RPM	3300 / 3162
Volts/Ph/Hz	120 / 1 / 60
FLA	0.30
Inducer Orifice	1.20
FILTER - Furnished?	No
Type Recommended	High Velocity
Hi Vel. (No.-Size-Thk.)	1 - 14 X 25 - 1 in.

MODEL	A801X040AM3SDA/B (a)
VENT PIPE DIAMETER - Min. (in.) (e)	4 Round
HEAT EXCHANGER - Type	Aluminized Steel
Gauge (Fired)	20 - 19
ORIFICES - Main	
Nat. Gas Qty. - Drill Size	2 - 45
L.P. Gas Qty. - Drill Size	2 - 56
GAS VALVE	Redundant - Single Stage
PILOT SAFETY DEVICE - Type	120 V SiNi Igniter
BURNERS - QTY	2
POWER CONN. - V/Ph/HZ (f)	120 / 1 / 60
Ampacity (Amps)	8.5
Max. Overcurrent Protection (Amps)	15
PIPE CONN. SIZE (IN.)	1/2
DIMENSIONS	H x W x D
Uncrated (in.)	34 x 14.5 x 28.75
Crated (in.)	35.5 x 16.5 x 30.87
WEIGHT	
Shipping (Lbs.)/Net (Lbs.)	102 / 94

(a) Central Furnace heating designs are certified to ANSI Z21.47 - latest edition.

(b) For U.S. applications, above input ratings (BTUH) are up to 2,000 feet, derate 4% per 10,000 feet for elevations above 2,000 feet above sea level.

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

(d) 9 Speed constant torque ECM Blower Motor.

(e) Refer to the IOM Guide.

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

Airflow Table

Furnace Airflow (CFM) Vs. External Static Pressure (in. W.C.)							
Model	Tap	Static	0.1	0.3	0.5	0.7	0.9
A801X040AM3SD	1	SCFM	592	342	93		
		Watts	40	43	46		
	2	SCFM	666	467	268	70	
		Watts	48	56	65	74	
	3	SCFM	687	493	299	105	
		Watts	49	59	69	78	
	4	SCFM	938	788	638	488	338
		Watts	100	111	123	134	146
	5	SCFM	1006	870	733	597	461
		Watts	119	131	144	156	169
	6	SCFM	1068	944	820	696	573
		Watts	140	154	167	181	194
	7	SCFM	1174	1066	957	848	740
		Watts	181	196	211	226	241
	8	SCFM	1167	1098	1029	960	891
		Watts	194	219	244	269	294
	9	SCFM	1556	1474	1392	1310	1228
		Watts	398	416	435	453	471

CFM Versus Temperature Rise

Table 2. A801X

Model	CFM Versus Temperature Rise																			
	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
A801X040AM3SD	59	49	42	37	33	30	27													

General Features

NATURAL GAS MODELS

Central Heating furnace designs are certified by Intertek 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 aluminized steel heat exchanger** quickly transfers heat to provide warm conditioned air to the structure. **Low energy power vent blower**, to increase efficiency and provide a 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.

ENERGY EFFICIENT OPERATION

Air-Tite™ cabinet design is certified to <1.4% air leakage per ASHRAE 193 "Method of Test for Determining the Airtightness of HVAC Equipment."

AIR DELIVERY

The 9 speed constant torque blower motor has sufficient airflow for most heating and cooling requirements and will switch from heating to cooling speeds on demand from room thermostat.

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

80% AFUE on A801X FURNACE MODELS

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

4-WAY MULTI-POISE

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

Added application flexibility and reduction in specification errors

AIRFLOW

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

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 for ease of installation and service

DIMENSIONS

Width is industry standard: 14.5"

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

All Molex connections; no spade terminals

Low voltage labeled above and below

Rain shield over IFC keeps condensate off the control

TUBULAR ALUMINIZED STEEL HEAT EXCHANGER

9 SPEED CONSTANT TORQUE BLOWER MOTOR

Greater range of operation

Higher efficiency versus a standard PSC blower motor

Taps are electronically selectable at the IFC

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

Easier to specify

Shipped ready to install (no conversion kits required)

Every model has at least two venting options

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.