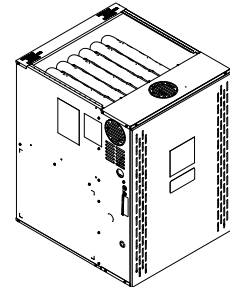


# Submittal

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

Upflow, Downflow, Horizontal Right/Left

A801X040AM3SAC



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



# Product Specifications

MODEL	A801X040AM3SAC
<b>TYPE</b>	Upflow / Horizontal / Downflow
<b>RATINGS <sup>(a)</sup></b>	
Input BTUH	40,000
Capacity BTUH (ICS) <sup>(b) (c)</sup>	31,800
Temp. Rise (Min.-Max.)	30 - 60
AFUE (%)	80
Return Air Temp. (Min. - Max.)	55°F - 80°F
<b>BLOWER DRIVE</b>	DIRECT
Diameter — Width (In.)	11 X 8
No. Used	1
Speeds (No.) <sup>(d)</sup>	9
CFM vs. in. w.g.	See Fan Performance Table
Motor HP	1/2
RPM	1075
Volts/Ph/Hz	120 / 1 / 60
FLA	6.4
<b>COMBUSTION FAN — Type</b>	Centrifugal
Drive — No. Speeds	Direct - 1
Motor HP — RPM	3300
Volts/Ph/Hz	120 / 1 / 60
FLA	1.39
<b>FILTER — Furnished?</b>	No
Type recommended	High Velocity
High Vel. (No.-Size-Thk.)	1 — 14x25 — 1 in.

MODEL	A801X040AM3SAC
<b>VENT PIPE DIAMETER — Min (in.)</b> <sup>(e)</sup>	4 Round
<b>HEAT EXCHANGER — Type</b>	Aluminized Steel
Gauge (Fired)	20
<b>ORIFICES — Main</b>	
Nat. Gas Qty. — Drill Size	2 - 45
<b>GAS VALVE</b>	Redundant - Single Stage
<b>PILOT SAFETY DEVICE</b>	
Type	120 V SiNi Igniter
<b>BURNERS — QTY</b>	2
<b>POWER CONN. — V/Ph/Hz <sup>(f)</sup></b>	120 / 1 / 60
Ampacity (Amps)	9.6
Max. Overcurrent Protection (Amps)	15
<b>PIPE CONN. SIZE (in.)</b>	1/2
<b>DIMENSIONS</b>	
Uncrated (In.)	34 x 14.5 x 28.75
Crated (In.)	35.5 x 16.5 x 30.87
<b>WEIGHT</b>	
Shipping (Lbs.) / Net (Lbs.)	102 / 94

- <sup>(a)</sup> 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.
- <sup>(b)</sup> Central Furnace heating designs are certified to ANSI Z21.47 / CSA 2.3 — latest edition.
- <sup>(c)</sup> Based on U.S. government standard tests.
- <sup>(d)</sup> 9 Speed constant torque ECM blower motor.
- <sup>(e)</sup> Refer to the Installer's Guide.
- <sup>(f)</sup> The above wiring specifications are in accordance with National Electrical Code; however, installations must comply with local codes.

# Airflow tables

Furnace Airflow (CFM) Vs. External Static Pressure (in. W.C.)						
Model	Tap	0.1	0.3	0.5	0.7	0.9
<b>A801X040AM3SAC</b>	1	580	34	—	—	—
	2	716	471	226	—	—
	3	743	533	323	113	—
	4	929	742	556	370	183
	5	988	831	675	518	361
	6	1112	975	839	702	566
	7	1174	1046	917	788	659
	8	1280	1164	1049	933	817
	9	1558	1475	1392	1309	1226

# 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**

9 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. H<sub>2</sub>O 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**

Widths are industry standard: 14.5", 17.5", 21", and 24.5"

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](http://www.trane.com) or [www.americanstandardair.com](http://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.

A801X040A-SUB-1C-EN 12 May 2020

Supersedes A801X040A-SUB-1B-EN (November 2019)

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