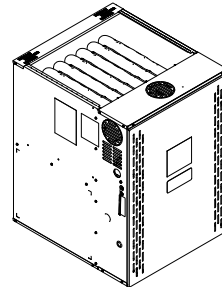


Submittal

Upflow / Downflow / Horizontal Left/Right Single Stage Non-condensing Gas Fired Furnace 80,000 BTUH

Upflow, Downflow, Horizontal Right/Left

A801X080CM5SC

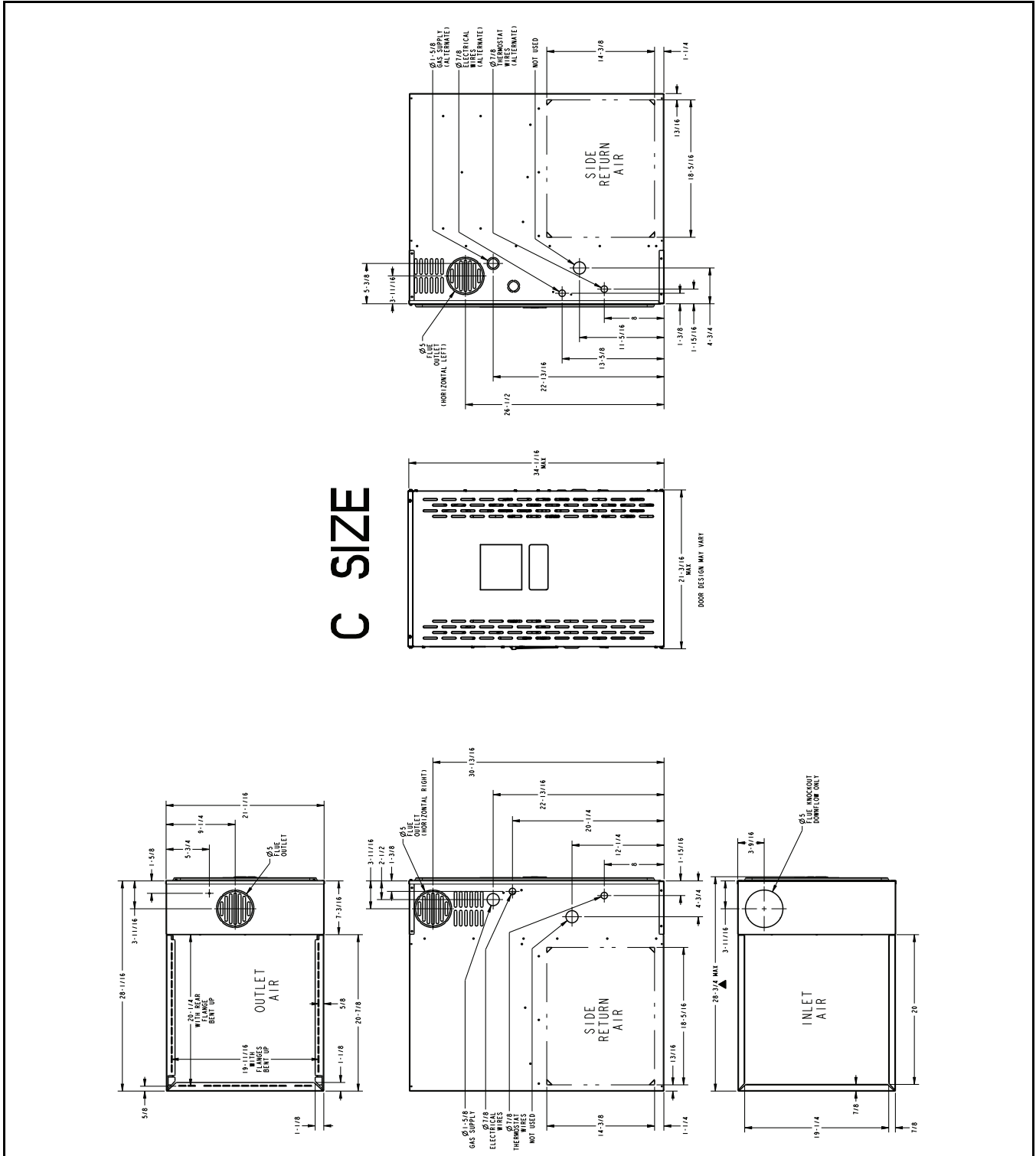


Note: Models may have a "T" in the 12th digit designating they meet California less than 40 ng/J (NOx) emissions requirements.

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

Outline Drawing

Table 1. 21" Width Cabinet



Product Specifications

MODEL	A801X080CM5SC (a)
Type	Upflow / Horizontal / Downflow
RATINGS (b)	
Input BTUH	80,000
Capacity BTUH (ICS) (c)	64,700
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 11
No. Used	1
Speeds (No.) (d)	CTM - 9
CFM vs. in. w.g.	See Fan Performance Table
Motor HP	1
R.P.M.	1050
Volts / Ph / Hz	120 / 1 / 60
FLA	10.9
COMBUSTION FAN - Type	PSC
Drive - No. Speeds	Direct - 1
Motor RPM	3300
Volts/Ph/Hz	120 / 1 / 60
FLA	0.30
Inducer Orifice	1.80
FILTER - Furnished?	No
Type Recommended	High Velocity
Hi Vel. (No.-Size-Thk.)	1 - 20 X 25 - 1 in.

MODEL	A801X080CM5SC (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	4 - 45
L.P. Gas Qty. - Drill Size	4 - 56
GAS VALVE	Redundant - Single Stage
PILOT SAFETY DEVICE - Type	120 V SiNi Igniter
BURNERS - QTY	4
POWER CONN. - V/Ph/HZ (f)	120 / 1 / 60
Ampacity (Amps)	14.1
Max. Overcurrent Protection (Amps)	15
PIPE CONN. SIZE (IN.)	1/2
DIMENSIONS	H x W x D
Uncrated (in.)	34 x 21 x 28.75
Crated (in.)	35.5 x 23 x 30.87
WEIGHT	
Shipping (Lbs.)/Net (Lbs.)	142 / 134

(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 Installer's 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
A801X080CM5SC	1	SCFM	728	358			
		Watts	44	49			
	2	SCFM	809	540	271		
		Watts	53	63	74		
	3	SCFM	1440	1273	1105	938	770
		Watts	185	201	218	234	250
	4	SCFM	1536	1385	1233	1081	929
		Watts	220	238	257	275	293
	5	SCFM	1689	1552	1414	1277	1140
		Watts	278	299	320	342	363
	6	SCFM	1792	1661	1530	1400	1269
		Watts	326	348	371	394	417
	7	SCFM	1899	1771	1643	1515	1387
		Watts	373	397	422	446	471
	8	SCFM	2094	1985	1875	1766	1656
		Watts	500	527	554	582	609
	9	SCFM	2533	2414	2295	2176	2058
		Watts	931	932	933	933	934

CFM Versus Temperature Rise

Table 2. A801X

Model	CFM Versus Temperature Rise																					
	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	
A801X080CM5SC							59	54	49	46	42	40	37	35	33							

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: 21"

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.