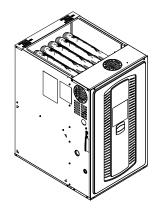
Submittal

Upflow / Downflow / Horizontal Left/Right Single Stage Non-condensing Gas Fired Furnace 100,000 BTUH

S8X1C100M5PSCB/C

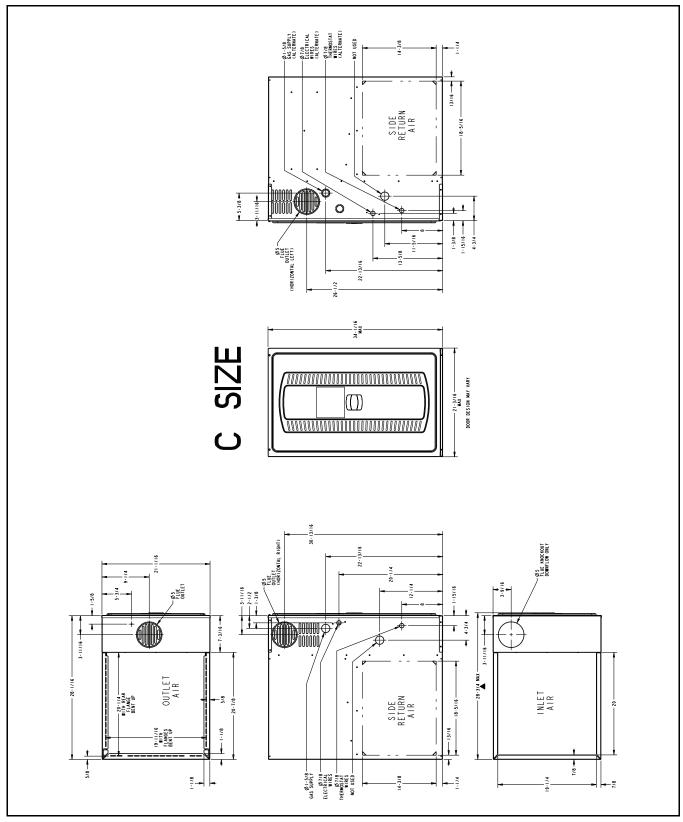


Note: Models may have a "T" in the 12th digit designating they meet California less than 40 ng/J (NOx) emissions requirements.

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	S8X1C100M5PSCB/C(a)								
Туре	Upflow / Horizontal / Downflow								
RATINGS (b)									
Input BTUH	100,000								
Capacity BTUH (ICS) (c)	80,700								
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	3/4								
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 / 2680								
Volts/Ph/Hz	120 / 1 / 60								
FLA	0.33 / 0.58								
Inducer Orifice	2.50								
FILTER - Furnished?	No								
Type Recommended	High Velocity								
Hi Vel. (NoSize-Thk.)	1 - 20 X 25 - 1 in.								

MODEL	S8X1C100M5PSCB/C(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	5 - 45 5 - 56							
L.P. Gas Qty Drill Size								
GAS VALVE	Redundant - Single Stage							
PILOT SAFETY DEVICE - Type	120 V SiNi Igniter							
BURNERS - QTY	5							
POWER CONN V/Ph/HZ (f)	120 / 1 / 60							
Ampacity (Amps)	14.1 / 14.4							
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.)	144 / 136							

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

⁽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.

⁽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

	Furna	ce Airflow (CFM) Vs. External S	tatic Pressure	e (in. W.C.)			
Model	Тар	Static	0.1	0.3	0.5	0.7	0.9	
		SCFM	821	442				
	1	Watts	55	55				
	2	SCFM	1359	1195	1031	868	704	
	2	Watts	163	180	198	215	233	
	3	SCFM	1602	1461	1321	1180	1040	
	3	Watts	246	268	290	312	334	
		SCFM	1807	1678	1550	1421	1292	
	4	Watts	336	362	388	414	440	
S8X1C100M5PSCB	5	SCFM	1827	1700	1572	1444	1317	
SOXICIOUMSPSCB	5	Watts	345	371	398	425	451	
	6	SCFM	1925	1800	1675	1550	1425	
	8	Watts	395	423	451	479	508	
	7	SCFM	2102	1985	1869	1752	1635	
	,	Watts	503	534	566	597	628	
	8	SCFM	2222	2115	2008	1901	1794	
	8	Watts	602	635	667	700	732	
	0	SCFM	2458	2351	2245	2138	2032	
	9	Watts	896	913	930	947	964	

CFM Versus Temperature Rise

S8X1 Furnaces have one stage heating

Table 2. S8X1

Model		CFM Versus Temperature Rise																			
Model	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
S8X1C100M5PSCB										57	53	49	46	44	41	39	37	35	34	32	31

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% 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 in the cabinet with baked-on enamel finish for strength and beauty. Every orientation has at least two venting options. There are no knockouts on cabinet.

FEATURES AND GENERAL OPERATION

The S-Series 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 S8X1 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

AIRFI OW

At least 400 CFM/ton at 0.5 in. H_20 external static pressure

REGULATORY

All models are air tight; 1% 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

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 ALUMINIZED STEEL HEAT EXCHANGER

VORTICA II BLOWER, DESIGNED EXCLUSIVELY FOR THE S-SERIES FURNACE

Improved airflow efficiency

Durable, easy to clean, housing

Single piece belly band/ motor arm assembly

Blower deck has full-length rails for easy removal and replacement, regardless of poise

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.
Intertek
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.