

# SANDBLASTER® SBN

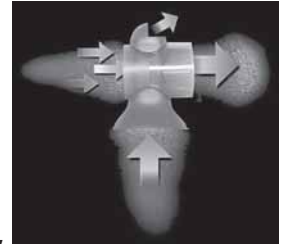
## Low NO<sub>x</sub> Commercial Gas Water Heaters

- 80% Thermal Efficiency
- Front, Top or Rear Water Connections
- Hydro Cannon Self Cleaning Device



State Water Heaters' Sandblaster is the original Self Cleaning commercial gas water heater, with a proven design that automatically reduces sediment buildup, the number one threat to any water heater's life expectancy and energy efficiency.

The new computer designed Hydro Cannon self cleaning device injects cold water into the tank under pressure and then uses a venturi action to create self cleaning turbulence. Self Cleaning action keeps sediment in suspension, and keeps it moving, so it does not get a chance to settle down. Sediment that would otherwise build up in the tank is harmlessly carried out when hot water is drawn. With reduced sediment buildup, Sandblaster commercial water heaters retain their rated efficiency longer, last longer, and help keep water heating costs down!



- **Low NO<sub>x</sub>** – Complies with Texas requirements for low NO<sub>x</sub> emissions.
- **ASME Construction** available on 200,000 thru 500,000 Btu sizes.
- **Induced Draft Built-In Blower** – Blower is built into the top cover, factory mounted and wired. No draft hood or barometric damper required.
- **Hydro Cannon Self-Cleaning Feature** – Computer designed device automatically reduces harmful sediment buildup inside the tank. Sandblaster® SBN™ stays energy-efficient, so it saves money throughout its life.
- **Foam insulation** – Reduces heat loss over 2-1/2 times more effectively than standard fiberglass.
- **CSA Certified and ASME Rate T&P Relief valve**
- **Factory-installed Energy Cut-Off ("ECO") safety switch**
- **Tank Inspection Port** for easy access to tank interior on all models.
- **Maximum Hydrostatic Working Pressure: 160 psi**
- **Three Water Connection Options** – Inlet and outlet connections are located on the top, front and rear offering installation flexibility (Hydro Cannon device on front connection only).
- **3-Year Limited Warranty or Optional 5-Year Limited Tank Warranty**

- **Anodes** – Long lasting stainless steel core anodes.
- **On/Off Power Switch** – Eliminates the need to wire a separate electrical connection box.
- **Intermittent Ignition Device** – Eliminates standing pilot and provides flame failure response in less than one second.
- **Glasslined Tank** – Glass is applied after the complete tank has been assembled to give a seamless barrier against corrosion by hot water.
- **Fully Tested for Safety and Performance** – Design certified by the Underwriter's Laboratory for 180°F hot water service. Meets rigid requirements of the National Sanitation Foundation when equipped with optional leg kit. Certified for use on combustible flooring. Meets the thermal efficiency and standby loss requirements of the U.S. Department of energy and current edition of ASHRAE/IESNA 90.1.
- **Options:**
  - **Leg Kit for UL Sanitation to Meet NSF 5** – Kit #9003425205.
  - **Manifold Kits for Multiple Gas Heater Installations:**
    - Dual Manifold Kit #9003426205
    - Triple Manifold Kit #3003427205
    - Quad Manifold Kit #3003428205

For more information on Sandblaster®, contact:

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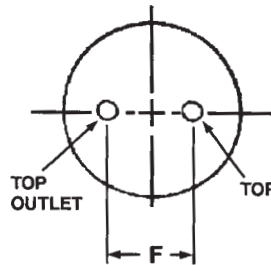
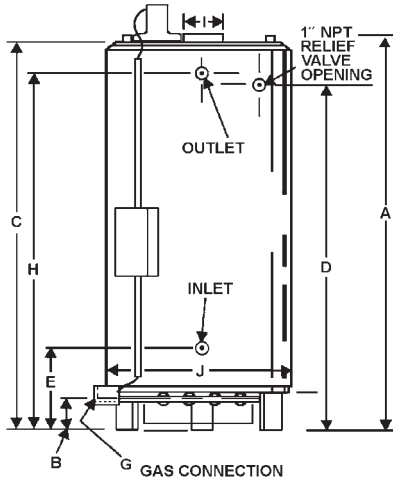


# SANDBLASTER® SBN

## Low NO<sub>x</sub> Commercial Gas Water Heaters

Model Number	Gallon Cap.	Input Rate BTUH	First Hour Delivery Gallons 100° Rise	Recovery			Dimensions in Inches										Approx. Shipping Weight (lbs.)	Approx. ASME Weight (lbs.)
				40°	100°	140°	A	B	C	D	E	F	G	H	I	J		
SBN71 120NE*	71	120,000	166	288	115	82	63	4 1/4	59 1/2	50 7/8	19 5/8	19	3/4	51 7/8	6	27 3/4	520	—
SBN81 154NE	81	154,000	206	369	148	106	68	4 1/4	62	53 5/8	20 1/2	21	3/4	54 5/8	6	27 3/4	550	—
SBN100 180NE	100	180,000	245	432	173	123	72	4 1/4	70 7/8	61 5/8	20 1/2	21	3/4	61	6	27 3/4	550	—
SBN95 199NE*	93	199,000	263	477	191	136	72	4 1/4	70 7/8	61 5/8	20 1/2	21	3/4	61	6	27 3/4	620	—
SBN100 199NE	100	199,000	263	477	191	136	72	4 1/4	70	61 5/8	20 1/2	21	3/4	61	6	27 3/4	550	—
SBN100 199NES				477	191	136	72	4 1/2	70	61 5/8	20 1/2	21	3/4	61	6	27 3/4		
SBN100 199NES A				477	191	136	72	4 1/2	70	61 5/8	20 1/2	21	3/4	61	6	27 3/4		
SBN100 200NES	100	199,000	263	477	191	136	72	4 1/2	70 7/8	61 5/8	20 1/2	21	3/4	61	6	27 3/4	660	—
SBN100 200NES A	100	199,000	263	600	240	171	72	4 1/2	70 7/8	61 5/8	20 1/2	21	3/4	61	6	27 3/4	—	710
SBN100 250NE	100	250,000	312	600	240	171	72	4 1/2	70 7/8	61 5/8	20 1/2	21	3/4	61	6	27 3/4	660	—
SBN100 250NE A	100	250,000	312	659	264	188	72	4 1/2	70 7/8	61 5/8	20 1/2	21	3/4	61	6	27 3/4	—	710
SBN100 275NE	100	275,000	337	659	264	188	72	4 1/2	70 7/8	61 5/8	20 1/2	21	3/4	61	6	27 3/4	660	—
SBN100 275NE A	100	275,000	337	659	264	188	72	4 1/2	70 7/8	61 5/8	20 1/2	21	3/4	61	6	27 3/4	—	710
SBN85 310NE	85	310,000	360	743	297	212	72	4 1/2	72	62 1/2	20 1/2	21	3/4	63	6	27 3/4	720	—
SBN85 310NE A	85	310,000	360	743	297	212	72	4 1/2	72	62 1/2	20 1/2	21	3/4	63	6	27 3/4	—	770
SBN85 366NE	85	366,000	415	878	351	241	72	4 1/2	72	62 1/2	22 1/2	21	1	63	6	27 3/4	830	—
SBN85 366NE A	85	366,000	415	878	351	241	72	4 1/2	72	62 1/2	22 1/2	21	1	63	6	27 3/4	—	880
SBN85 390NE	85	390,000	438	935	374	267	72	4 1/2	72	62 1/2	22 1/2	21	1	63	6	27 3/4	830	—
SBN85 390NE A	85	390,000	438	935	374	267	72	4 1/2	72	62 1/2	22 1/2	21	1	63	6	27 3/4	—	880

\*Models rated at 82% thermal efficiency  
 SBN95 199NE available for sale in California only.  
 +SBN71 120 NE is approved for 5" vent using 6 & 5 reducer.



Model Number	Water Connections In Inches					
	Inlet			Outlet		
	Top	Front	Rear	Top	Front	Rear
SBN71 120NE	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
SBN81 154NE	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
SBN100 180NE	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
SBN95 199NE	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
SBN100 199NE	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
SBN100 200NES	1 1/2	1 1/2	2	1 1/2	1 1/2	2
SBN100 200NES A	1 1/2	1 1/2	2	1 1/2	1 1/2	2
SBN100 250NE	1 1/2	1 1/2	2	1 1/2	1 1/2	2
SBN100 250NE A	1 1/2	1 1/2	2	1 1/2	1 1/2	2
SBN100 275NE	1 1/2	1 1/2	2	1 1/2	1 1/2	2
SBN100 275NE A	1 1/2	1 1/2	2	1 1/2	1 1/2	2
SBN85 310NE	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
SBN85 310NE A	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
SBN85 366NE	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
SBN85 366NE A	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
SBN85 390NE	1 1/2	1 1/2	1 1/2	NA	1 1/2	1 1/2
SBN85 390NE A	NA	1 1/2	1 1/2	NA	1 1/2	1 1/2



### Sandblaster® SBN™ Sample Specifications

Gas water heater(s) shall be a State Water Heaters' Sandblaster® SBN™ Model Number, \_\_\_\_\_, with a \_\_\_\_\_ gallon storage capacity, an input rate of \_\_\_\_\_ Btu/Hour \_\_\_\_\_ gas, and a recovery rate of \_\_\_\_\_ gallons per hour at a \_\_\_\_\_ degree Fahrenheit temperature rise.

Units shall have hot surface ignition requiring a 120VAC/5AMP power supply, fan-assisted combustion, and easily removable tubular stainless steel burner tube with individual orifices. The ignition control shall have integrated self-diagnostic capability and must prove combustion fan operation for system to operate. The units shall comply with Texas similar requirements for low NO<sub>x</sub> emissions. The water heater(s) shall not use flame impingement or flame quenching as a means of controlling NO<sub>x</sub> emissions. The water heater tank shall be additionally protected against premature failure in the following ways:

1. A \_\_\_\_\_-year limited warranty against failure due to corrosion, metal fatigue or overheating caused by the buildup of scale, film or other sediment.
  2. Against electrolytic corrosion by multiple, factory-installed anodes.
  3. Against failure due to overheating caused by the buildup of scale, film and other sediment by a self cleaning device. The device shall be properly positioned so that it directs the flow of inlet water in such a way that microscopic particles of precipitated solids shall be kept in suspension and exhausted from the water heater on that or successive hot water draws.
- The burner(s) shall have an individual orifice for each burner tube and be constructed of tubular aluminumized or stainless steel mounted in an easily removable tray.
- Water heater(s) shall have the UL seal of certification, a working pressure of 160 psi, a CSA certified and ASME rated T&P relief valve, and a 2 3/4" x 3 3/4" tank inspection port.

For more information on Sandblaster®, contact:

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