

SANDBLASTER® FORCE™ POWER DIRECT VENT



The Sandblaster Force delivers the money-saving performance of the original Sandblaster commercial water heater, plus draws all combustion make-up air from outside, a problem found in many commercial applications. For example, in restaurant kitchens, commercial range hoods and exhaust fans draw large amounts of air out of the room. This creates negative air pressure in small spaces, which can deprive an ordinary commercial gas water heater of sufficient make-up air required for safe and efficient operation.

In negative air pressure situations, downdrafts can occur inside an ordinary water heater, compressing the burner flame. This contributes to resulting in impaired water heating performance and recovery efficiencies. Negative air pressure can also generate Carbon Monoxide buildup, and other potential safety hazards.

Sandblaster Force provides the solution, because it doesn't share the inside air! It is equipped with a factory-installed blower and two-pipe system for intake of make-up air and separate exhaust venting. This unique air delivery system (patent pending) insures that Sandblaster Force is immune to negative air pressure. Sandblaster Force also helps reduce space heating and or air conditioning costs, because it does not consume heated or cooled air from inside the building.

The SDV75-70 Force installs just about anywhere, with a vent run of 50 feet horizontally or vertically.



- **Turbo-Force Dip Tube** - Reduces harmful sediment buildup inside the tank.
- **Non-Condensing Design** helps prevent corrosion. No condensate pump or drain needed.
- **Installs with 3" Schedule 40 PVC pipe**, depending on the model and vent run.
- **Two 45° 3" Schedule 40 Elbows**, with screen, supplied for use as vent caps.
- **Integral Automatic Blower** - With 110/120 Volt electrical system. Maximum electrical draw: 2 Amps on SDV75 70.
- **Intermittent electronic ignition.**
- **Reinforced tank design for longer life** - The glasslined tank is reinforced in critical areas with extra steel to maximize tank life.
- **Formed aluminized-port steel burner** for even heat distribution, maximum efficiency, quiet operation.
- **Foam insulation** - Reduces heat loss over 2-1/2 times more effectively than standard fiberglass.
- **ASME rated T&P Relief Valve.**
- **Factory-installed Energy Cut-Off ("ECO") safety switch.**
- **Magnesium Anode Rod** - Large diameter magnesium anode for extra protection against electrolytic tank corrosion.
- **Maximum Hydrostatic Working Pressure: 150 psi**
- **3-Year Limited Tank Warranty.**

* Check owners manual and local codes for specific venting requirements. Each 90° elbow reduces maximum run by 5 feet.

For more information on State® contact:
State Water Heaters
500 Tennessee Waltz Parkway, Ashland City, TN 37015
800.365.0024 Toll-free USA
www.statewaterheaters.com

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Sandblaster Force gas water heaters are design certified by the CSA International as Automatic Circulating and Automatic storage water heaters. When used singly or in manifolded multiples with additional heaters or storage tanks, they can provide an independent hot water system. When installed with a mixing valve, they can provide both 140°F general use hot water and 180°F sanitizing hot water simultaneously.

SDV75 70 commercial gas water heaters meet the thermal efficiency and/or standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/IESNA 90.1.

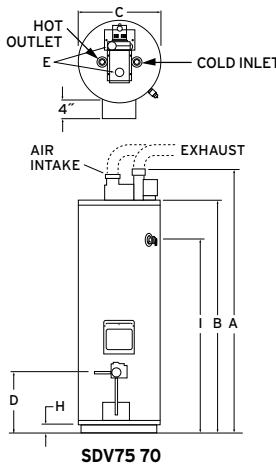
SDV75 70 meets or exceeds Federal Energy Efficiency Standards effective January 20, 2004, according to the National Appliance Energy Conservation Act (NAECA) of 1992.

In keeping with our policy of continuous product improvement, specifications are subject to change without prior notice.

Model Number	Gal. Cap.	BTU Input Per Hour		First Hour Delivery 100° Rise	Recovery			Dimensions in Inches									Gas Conn.	Approx. Shipping Weight (lbs.)
		Natural	Propane		80°	100°	140°	A	B	C	D	E	F	G	H	I		
SDV75 70NE	75	70,000	—	117	81	64	46	69%	61%	26	16%	3	—	—	2	54	½"	352
SDV75 70PE	75	—	65,000	112	74	59	42	69%	61%	26	16%	3	—	—	2	54	½"	352

First-Hour Delivery and Recoveries are rounded to nearest gallon.
Model SDV75 70 has ½-inch water connections.
Dimensions are rounded to nearest ¼-inch.
When ordering propane, change "N" to "P" in model number (SDV75 70PE).

*Rear plumbing.
**Gas connection on Propane models is ¾-inch.
†ASME construction not available.
Vent diameter depends on length of run. 4" diameter up to 40 equivalent feet each run.



Venting System Requirements

- 1 The water heater requires its own (separate) venting system.
- 2 Venting cannot be connected to existing vent piping or chimney.
- 3 Venting may terminate vertically or horizontally to the outdoors.
- 4 Vertical and horizontal vent runs must be secured at 3/8" intervals.
- 5 Vent piping cannot under any circumstances be run downhill.
- 6 Horizontal runs require a minimum 1/4" rise per foot.
- 7 Vent pipes must be installed so that they can be visually inspected.

SDV Series Models	Maximum Equivalent Feet of Pipe With One 90° Elbow		
	3" Schedule 40 PVC	4" Schedule 40 PVC*	6" Schedule 40 PVC*
SDV75-70	50'	N/A	N/A

NOTE: Each 90° elbow is equivalent to 5 feet of pipe. Two 45° elbows are equivalent to 5 feet of pipe.

Sandblaster® Force™ Sample Specification

Gas water heater(s) shall be a State Industries, Inc. Sandblaster Force, 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.

Unit(s) shall be direct vent design, with an automatic blower-powered, two pipe air intake and exhaust system communicating directly with the outside of the building; The blower shall have a safety device that will not allow the operation of the pilot and main burners unless the blower is in operation. Unit(s) shall have a combustion air passage that is internal to the outer jacket of the water heater other than the intake and exhaust connections at the top of the water heater. The units shall be equipped with an Intermittent Electronic Ignition control requiring an external 120 Volt power supply with a rating of 12 amps or less. The control system shall shut off the gas supply to the unit within 4 seconds if the gas supply or pilot flame are interrupted. The 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 magnesium anodes.

Water heater(s) shall have the CSA International seal of certification, a working pressure of 150 psi, a CSA Certified and ASME Rated T&P Relief Valve and a 4" x 5" tank inspection port.

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