



THE RIGHT PRODUCT FOR EVERY JOB.

We know that in your line of work, no two projects are the same. That's why State offers a comprehensive line of commercial water heaters, from innovative gas and electric models to tankless technologies. We continually develop new solutions to give you the best options for any job you decide to take on.



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Commercial Product Comparison
The right water heater for any spec job



statewaterheaters.com/spec

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	FORCE® FAMILY				SANDBLASTER® FAMILY		POLARIS	COMMERCIAL ELECTRIC			TANKLESS		
Thermal Efficiency	96%	UP TO 98%	97%	UP TO 96%	80%	80%	96%	98%	98%	98%	96%	80%	96%
Top Product Features	<ul style="list-style-type: none"> Helical heat exchanger lengthens the heat transfer cycle. Blue Diamond® glass coating with two heavy duty anode rods for corrosion resistance. Easy-to-read intelligent control system with LCD display. 	<ul style="list-style-type: none"> Modulating burner adjusts firing rate to increase efficiency and save money. Helical heat exchanger lengthens the heat transfer cycle. Easy-to-read intelligent control system with LCD display. 	<ul style="list-style-type: none"> Models from 750,000 to 1,000,000 Btu/h deliver 97% thermal efficiency ASME tank construction standard on all models Modulating burner adjusts firing rate to increase efficiency and save money Intelligent Demand Response (IDR) senses large draws and adjusts differential setpoint Primary + secondary stainless steel HEX maximize heat transfer Easy-to-read intelligent control system with LCD display 	<ul style="list-style-type: none"> Large volume, integrated tank eliminates need for multiple tanks plus storage tank ASME tank construction standard on all models Modulating burner adjusts firing rate to increase efficiency and save money Helical heat exchanger lengthens the heat transfer cycle Easy-to-read intelligent control system with LCD display 	<ul style="list-style-type: none"> Efficient automatic flue damper minimizes standby heat loss. Inlet/outlet connections located top, front and rear for installation flexibility. Space-saving units are up to one foot shorter than models they replace. Installs stand-alone, manifolded or connected to storage tanks. 	<ul style="list-style-type: none"> Fan-assisted Category I, Ultra Low NOx combustion. A stainless steel air flapper minimizes standby heat loss and reduces height. Inlet/outlet connections located top, front and rear for installation flexibility. Fully automatic digital controls with safety shutoff. 	<ul style="list-style-type: none"> Tank and helical heat exchanger are constructed from 444 stainless steel for excellent corrosion resistance without the need for an anode. Helical internal heat exchanger keeps hot combustion gases in the tank longer to extract more heat into the water. Two front access panels expose all serviceable components. Modular components are all easily removed. 	<ul style="list-style-type: none"> Tank interior is coated with glass specially designed by State for water heaters. Most models convert to three-phase or single-phase in field for easy installation. Elements feature zinc-plated copper sheaths for longer life. 	<ul style="list-style-type: none"> Low watt density Incoloy® elements for superior service in all water conditions. Power-circuit fusing protects all elements, thermostats, and internal wiring circuits against excess current flow. Terminal block comes factory installed for easy installation. CSB-I models come with LCD control to reduce surges, control temperature and display operational information in English. 	<ul style="list-style-type: none"> Advanced electronic control with large LCD display provides precise temperature control and English text with animated icons. Industrial-grade, immersion Incoloy sheathed heating elements are designed for rugged, long-lasting commercial service. 	<ul style="list-style-type: none"> Rack constructed of anodized aluminum frame. Able to link up to 20 heaters together with multi-link system. Reduce installation costs with three simple connections (cold water, hot water, and gas). Wall mount, in-line, and back-to-back configurations. Commercial-grade copper primary heat exchanger and 316L stainless steel secondary heat exchanger protect against corrosion. Safety features include freeze, overheat, surge protection and troubleshooting diagnostic codes. 	<ul style="list-style-type: none"> Commercial grade primary copper heat exchanger protects against erosion. Corrosion-resistant secondary 316L stainless heat exchanger. Safety features include freeze, overheat, surge protection and troubleshooting diagnostic codes. Continuous maximum flow rates of up to 14.5 GPM. 	<ul style="list-style-type: none"> Heat exchanger constructed of commercial grade copper with a secondary heat exchanger constructed of 316 L grade stainless steel. 4.1 GPM pump. Multiple anodes for more added protection to the glass lined tank.
Common Vent Capable	Kits available in both PVC and polypropylene												
Venting Options	POWER VENT & POWER DIRECT VENT	POWER VENT & POWER DIRECT VENT	POWER VENT & POWER DIRECT VENT	POWER VENT & POWER DIRECT VENT	ATMOSPHERIC	ATMOSPHERIC	POWER DIRECT VENT	- NA -	- NA -	- NA -	POWER VENT & DIRECT VENT	POWER VENT & DIRECT VENT	POWER VENT & DIRECT VENT
Venting Materials	Vents using PVC, CPVC or Polypropylene Pipe	Vents using PVC, CPVC or Polypropylene Pipe	Vents using Schedule 40 PVC or CPVC, Polypropylene Pipe or AL29-4C Stainless Steel	Vents using Schedule 40 PVC or CPVC, Polypropylene Pipe or AL29-4C Stainless Steel	Metal Venting, Standard Double Wall Type "B" Vent	Metal Venting, Standard Double Wall Type "B" Vent	Vents using PVC, CPVC or Polypropylene Pipe	- NA -	- NA -	- NA -	Vents using PVC, CPVC or Polypropylene Pipe	5" Category III Stainless Steel	Vents using PVC, CPVC or Polypropylene Pipe
ENERGY STAR® Qualified	YES	YES	YES	YES*	NO	NO	YES	NO	NO	NO	YES	NO	YES
Warranty	3-Year Limited Tank 1-Year Limited Parts	3-Year Limited Tank 1-Year Limited Parts	5-Year Limited Tank 1-Year Limited Parts	5-Year Limited Tank 1-Year Limited Parts	3-Year Limited Tank 1-Year Limited Parts	3-Year Limited Tank 1-Year Limited Parts	3-Year Limited Tank 1-Year Limited Parts	3-Year Limited Tank 1-Year Limited Parts	3-Year Limited Tank 1-Year Limited Parts	3-Year Limited Tank 1-Year Limited Parts	6-Year Limited Heat Exchanger 5-Year all other parts	6-Year Limited Heat Exchanger 5-Year all other parts	6-Year Limited Heat Exchanger 5-Year all other parts
Codes and Standards	<ul style="list-style-type: none"> CSA certified Meets DOE thermal efficiencies and standby requirements and ASHRAE/IES 90.1 Complies with SCAQMD Rule 1146.2 for Low NOx emissions AHRI Certified 	<ul style="list-style-type: none"> CSA certified Meets ASHRAE/IESNA 90.1 requirements Meets NSF 5 standard Complies with SCAQMD Rule 1146.2 for Low NOx emissions ASME tank construction optional on all models AHRI Certified 	<ul style="list-style-type: none"> CSA certified and ASME rated T&P relief valve Maximum hydrostatic working pressure: 160 psi All models are design certified by Underwriters Laboratories (UL), Inc., to ANSI Z21.10.3 - CSA 4.3 Standards Meets the thermal efficiency and standby loss requirements of the U.S. Department of Energy and current edition ASHRAE/IES 90.1 Design Certified by Underwriters Laboratories to NSF standard 5 for 180°F (62°C) water Complies with SCAQMD Rule 1146.2 and other Air Quality Management Districts with similar requirements for ultra low-NOx emissions ASME tank construction standard on all model sizes 	<ul style="list-style-type: none"> CSA certified and ASME rated T&P relief valve Maximum hydrostatic working pressure: 160 psi All models are design certified by Underwriters Laboratories (UL), Inc., to ANSI Z21.10.3 - CSA 4.3 Standards Meets the thermal efficiency and standby loss requirements of the U.S. Department of Energy and current edition ASHRAE/IES 90.1 Design Certified by Underwriters Laboratories to NSF standard 5 for 180°F (62°C) water Complies with SCAQMD Rule 1146.2 and other Air Quality Management Districts with similar requirements for ultra low-NOx emissions ASME tank construction standard on all model sizes 	<ul style="list-style-type: none"> CSA certified Meets DOE thermal efficiencies and standby requirements and ASHRAE/IES 90.1 Meets NSF 5 standard Optional ASME tank construction available on select models AHRI Certified 	<ul style="list-style-type: none"> CSA certified Meets DOE thermal efficiencies and standby requirements and ASHRAE/IES 90.1 Meets NSF 5 standard Optional ASME tank construction available on select models AHRI Certified Complies with SCAQMD Rule 1146.2 for Low NOx emissions 	<ul style="list-style-type: none"> Design-certified by CSA International according to ANSI Z21.10.3 - CSA 4.3 Standards. Meets UBC, CEC, and ICC National Codes. Meets DOE thermal efficiencies and standby requirements and ASHRAE/IES 90.1 Complies with SCAQMD Rule 1146.2 for Low NOx emissions 	<ul style="list-style-type: none"> Meets DOE thermal efficiencies and standby requirements and ASHRAE/IES 90.1 UL Approved Field Conversion Program AHRI certified 	<ul style="list-style-type: none"> CSA certified ASME rated T&P relief valve AHRI Certified 	<ul style="list-style-type: none"> CSA certified Meets NSF 5 standard ASME HLW UL AHRI certified 	<ul style="list-style-type: none"> Complies with SCAQMD Rule 1146.2 for Low NOx emissions Complies with lead-free standards CSA certified AHRI certified 	<ul style="list-style-type: none"> ASME models available Low NOx emissions Complies with lead-free standards CSA certified Meets NSF 5 standard ASME HLW 	<ul style="list-style-type: none"> Design certified by Underwriters Laboratories (UL) Inc., to ANSI Z21.10.3 - CSA 4.3 Standards Meets DOE thermal efficiencies and standby requirements and ASHRAE/IES 90.1 Meets NSF standard 5 for 180°F (62°C) water Complies with SCAQMD Rule 1146.2 for Low NOx emissions
iCOMM	NO	YES	YES	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO
BACnet / Modbus	BACnet/Modbus	BACnet/Modbus	BACnet/Modbus	BACnet/Modbus	- NA -	- NA -	- NA -	- NA -	BACnet/Modbus (DVE models)	BACnet/Modbus	- NA -	- NA -	- NA -
Gallon Capacity Range	50 – 75	60 – 119	120	220 – 250	65 – 100	81 – 100	34 – 50	6 – 119	50 – 120	50 – 120	TANKLESS	TANKLESS	119
Input BTUH Range	100,000	120,000 – 499,900	750,000 – 1,000,000	150,000 – 499,900	120,000 – 500,000	199,000 – 390,000	130,000 – 199,000	- NA -	- NA -	- NA -	15,000 – 199,000	15,000 – 380,000	199,000
Recovery Capacity (100°F GPH)	116	138 – 576	882 – 1176	175 – 557	100°F: 116 – 485 40°F: 291 – 1212	100°F: 119 – 385 40°F: 298 – 962	165 – 253	36 – 126	25 – 221	12 – 369	- NA -	- NA -	165 – 772