LARGE VOLUME ELECTRIC WATER HEATERS
SEV & SEH MODELS

ADVANCED ELECTRONIC CONTROL
State’s new proprietary electronic water heater control, provides precise + or - 1°F temperature control, that is ideal for industrial and food service applications where accurate hot water temperatures are needed.

EASY-TO-READ TEXT
- Animated icons display detailed operational and diagnostic information. Fault or alert messages appear if an operational issue occurs.

LOW WATER CUT OFF
- Factory standard on board low water cut-off uses a remote electronic immersion type probe to prevent energizing of the elements in the event of low water condition and eliminates accidental dry firing.

PROGRESSIVE MODULATING
- Matches number of elements to current load conditions. Rotates and lead lags element loads to provide long life and equal wear.

ECONOMY MODE OPERATION
- Control system automatically lowers the operating set point by a programmed value during user defined time periods. Seven-day clock may be programmed for night set back and or weekend shutdown to reduce operating cost and save money.

BMS COMPATIBLE
- Modbus/BACnet compatible with optional Gateway interface. Call 1.888.WATER02 for more information.

PERMAGLAS® ULTRA COAT GLASS LINING IS STANDARD
- Exclusive process provides superior protection against corrosion in varying water conditions. Cement and Epoxy linings are optional.

ASME CODE CONSTRUCTION
- All models are constructed to the requirements of ASME and are available in 125, 150 and 160 psi working pressures (125 psi working pressure - standard). Consult factory for ASME code tanks with greater or lesser working pressures and special configurations or materials.

INCOLOY IMMERSION HEATERS
- Heavy-duty elements have incoloy sheathing: provide excellent protection against oxidation and scaling. The input ranges from 15kW to 900kW (see accompanying chart).

FUSING
- Control and power circuit fusing to meet N.E.C.

COMPLIANCE

MAGNETIC CONTACTOR(S)
- Heavy duty UL rated for 100,000 cycles.

OTHER STANDARD FEATURES
- Color-coded circuitry for easier servicing
- Anode rods for maximum corrosion protection
- Standard voltages include 208, 240, 380, 400, 415, 480, 600 volt single or threephase
- International voltages available (consult factory)
- Factory-installed terminal block(s)
- Temperature and pressure relief valve, supplied but not installed

OPTIONAL DUAL-ENERGY SOURCE CAPABILITY
- Provides emergency back up energy source or winter/summer boiler operation. Can be specified with optional water to water or steam to water heat exchangers. Both single and double-wall heat exchangers are available. Complete control packages can be factory-installed for hook-up and run capability.

THREE YEAR LIMITED WARRANTY
- For complete warranty information consult written warranty or go to statewaterheaters.com

Attention: Significant changes have been made to some models. Please note that this spec sheet refers specifically to models manufactured in Lebanon, TN.

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statewaterheaters.com | 800-365-0024 Toll-Free USA | State Water Heaters | 500 Tennessee Waltz Parkway | Ashland City, TN 37015
Vertical Round Models 150-1000

*An oversized control panel may be required on models with inputs above 72 kW. Consult the factory for details.

**Top View**

- 3/4" DRAIN (150 & 200 gal.)
- 1" DRAIN (250 thru 1000 gal.)
- LOCATION OF ADDITIONAL BOX FOR DUAL BOX MODELS
- HINGED DOOR TO ELECTRICAL COMPARTMENT

Vertical Square Models 1250-2500

**Top View**

- 3/4" T & P RELIEF VALVE CONNECTION
- *Optional* hinged door to electric control compartment

Horizontal Models

**Top View**

- ADDITIONAL HEIGHT IF REQUIRED
- ELECTRONIC CONTROL
- CONTROL VOLTAGE ON/OFF SWITCH

*An oversized control panel may be required on models with inputs above 72 kW. An oversized control panel may increase the width and depth of the square jacket by up to 2".*
### Vertical Round Electric Storage Heater

<table>
<thead>
<tr>
<th>Model Number*</th>
<th>Max. KW</th>
<th>Gallon Capacity</th>
<th>Dimensions in Inches</th>
<th>Water Connection</th>
<th>Shipping Weight (lbs)</th>
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### Specifications

- **Model Number**
- **Max. KW**
- **Gallon Capacity**
- **Dimensions in Inches**
- **Water Connection**
- **Shipping Weight (lbs)**

For higher inputs consult the factory.
TANK LININGS OPTIONS

CEMENT
• A special formulation of cement providing excellent corrosion protection.
  Available on 250 gallon and larger tanks.

EPOXY
• A solventless two component epoxy lining available on 250 gallon and larger tanks.

SPECIAL CONSTRUCTION OPTIONS

“12 X 16” MANHOLE – AVAILABLE ON 250 GALLON AND ABOVE STAINLESS STEEL VESSELS

150 OR 160 PSI WORKING PRESSURE
• Must be specified at time of order.

OTHER OPTIONAL FEATURES

TEMPERATURE AND PRESSURE RELIEF VALVES
• For working pressures other than standard; consult factory.

HORIZONTAL OR VERTICAL
• See specifications, most gallon capacities may be obtained in vertical or horizontal construction.

CIRCULATING PUMP PACKAGE
• Circulating pump and piping sized to turn over entire storage capacity of tank once each hour. Recommended to optimize available water at temperature in horizontal tanks particularly where low draw conditions are anticipated.

OPTIONAL INTERNATIONAL VOLTAGES
• 380 and 415 volts three-phase.

FACTORY-INSTALLED DIAL-TYPE PRESSURE GAUGE

FACTORY-INSTALLED DIAL-TYPE TEMPERATURE GAUGE

SAMPLE SPECIFICATIONS

The heater(s) shall be Smith Commercial Electric Model Number ___________________ or an approved equal. Heater(s) shall be rated at _______ kW, _______ V, _______ phase, 60 cycle AC. Lifting lug access and channel skid base not on every tank. Vessel shall be constructed to Section IV of the ASME Code for 125 psi working pressure. Vessel shall be glass-lined with anodic protection. Entire vessel and electrical controls are to be encased in a sheet metal enclosure with baked enamel finish. Tank to be insulated with fiberglass insulation. Enclosure to have hinged locking door over electric controls. There shall be ________ individually replaceable heavy duty Incoloy sheathed heating elements each complete with prewired terminal leads. These elements will be switched by magnetic contactors which are operated by a 120V fused control circuit protected by manual reset high limit. Control circuit is activated by a master pilot switch and electronic low water cutoff. This control shall prevent the entire electrical load from being switched on instantaneously. The control shall have even load progressive sequencing which utilizes the “first on, first off” principle thereby equalizing the operating time of heating elements and contactors. Each magnetic contactor and heating element circuit will be protected by a maximum of 60 amp cartridge type fuses with a minimum of 100,000 amp interrupting capacity. The entire water heating package shall be prewired to solderless terminal lugs, factory tested, complete with a CSA Certified and ASME Rated T&P relief valve and bear the Underwriters’ Laboratories label. Heater(s) shall have a 3-year limited warranty as outlined in the written warranty. Fully illustrated instruction manual included. Water heater units(s) shall be compatible with building management systems using Modbus or BACnet with factory supplied gateway.

FOR MORE INFORMATION ON CALL 1-800-365-0024. STATE WATER HEATERS RESERVES THE RIGHT TO MAKE PRODUCT CHANGES OR IMPROVEMENTS WITHOUT PRIOR NOTICE.