Residential/Commercial Gas Tankless Water Heaters

TANKLESS HIGH EFFICIENCY CONDENSING MODELS

Ultra-Low NOx Gas Tankless Water Heaters with Condensing Technology featuring an unprecedented 0.95 Energy Factor which lowers operating costs and is environmentally friendly.

FEATURES

CONTINUOUS MAXIMUM FLOW RATES UP TO 10.0 GPM
ENERGY STAR® QUALIFIED
AVAILABLE IN NATURAL GAS OR PROPANE (LP)
ATI 540H & ATO 540H CAN BE USED IN BOTH RESIDENTIAL AND COMMERCIAL APPLICATIONS
INDOOR MODEL - INCLUDES INTEGRATED TEMPERATURE CONTROLS AND ADVANCED DIAGNOSTICS TO SIMPLIFY TROUBLESHOOTING
OUTDOOR MODEL - INCLUDES A WALL MOUNT TEMPERATURE REMOTE CONTROLLER AND ADVANCED DIAGNOSTICS TO SIMPLIFY TROUBLESHOOTING
FACTORY-INSTALLED POWER CORD INCLUDED FOR INDOOR MODELS
DURABLE HEAT EXCHANGER
■ Primary Heat Exchanger is constructed of HRS35, a Commercial-Grade Copper that is more resilient to erosion. HRS35 is 25x better at heat transfer than stainless steel thus stabilizing outgoing water temperatures quicker
■ Secondary Heat Exchanger is made of Type 316L Stainless Steel to protect against corrosion
EASY-LINK UP TO 4 UNITS (540H MODELS ONLY)
■ With no additional parts or accessories needed
MULTI-LINK UP TO 20 UNITS (540H MODELS ONLY)
COMMON VENT UP TO 8 UNITS
COMPLIES WITH LEAD FREE STANDARDS
SAFETY FEATURES:
■ Air-Fuel Ratio (AFR) Sensor
■ Exhaust & Water Temperature Safety Control
■ Overheat Cut-Off Fuse
INTERNAL FREEZE PROTECTION SYSTEM
POWER DIRECT VENT DESIGN
■ Exhaust, 3” PVC Venting up to 70 Feet or 4” PVC Venting up to 100 Feet
■ Provides flexible venting with PVC, CPVC, or ABS Pipe for Intake and Exhaust (solid core only). Canadian Installations Require ULCS636 Listed PVC or CPVC Pipe for Venting.
■ Category IV Stainless Steel venting can also be used
ACCESSORIES
■ Pipe Cover
■ Neutralizer Kit
■ Isolation Valve Kits
■ Concentric Termination
PRODUCT PRESERVERS® ANTI-SCALE SYSTEM
WARRANTY
■ 15-year limited warranty on heat exchanger in residential applications
■ 10-year limited warranty on heat exchanger in commercial applications
■ 5-year limited warranty on all parts

ATI and ATO240-540H
INDOOR MODELS
OUTDOOR MODELS

A. O. Smith Corporation • 500 Tennessee Waltz Parkway • Ashland City, TN 37015 • 800-527-1953 Toll-free USA
www.hotwater.com
Sold by www.GadgetsGo.com Authorized Dealer
Revised February 2014  AOSRG46835
**TANKLESS HIGH EFFICIENCY CONDENSING MODELS**

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>FUEL TYPE</th>
<th>GAS CONSUMPTION INPUT</th>
<th>INLET GAS PRESSURE</th>
<th>ENERGY FACTOR</th>
<th>MAX GPM*</th>
<th>HOT/COLD AND GAS CONN</th>
<th>DIMENSIONS IN INCHES</th>
<th>UNIT WEIGHT (LBS)</th>
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<tr>
<td></td>
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<td>MINIMUM BTU/H</td>
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<td>B WIDTH</td>
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<td>23-5/8</td>
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All dimensions are in inches.

15-150 psi Water Pressure. 40 psi or above is recommended for maximum flow.

*Current numbers based on factory testing. 0.5 GPM for activation; 0.4 GPM required for continuous fire after initial ignition.

Indoor models are certified from sea level to 10,100 ft. elevations.

In accordance with ANSI Z21.10.3, CO emission does not exceed 400 PPM for normal input.

The manufacturer reserves the right to discontinue, or change at any time, specifications or designs without notice and without incurring obligation.
Residential/Commercial Gas
Tankless Water Heaters

INDOOR MODEL

For Technical Information call 1-877-737-2840. A. O. Smith Corporation reserves the right to make product changes or improvements without prior notice.

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FLOW RATE vs TEMPERATURE RISE

240H

Flow Rate vs. Temperature Rise

340H

Flow Rate vs. Temperature Rise

540H

Flow Rate vs. Temperature Rise

- Set temperature 125°F (52°C) or lower
- Set temperature 130°F (55°C) or higher

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PRESSURE LOSS

240H
Pressure Loss

340H
Pressure Loss

540H
Pressure Loss

Flow Rate (GPM)

Pressure Loss (psi)

Head (Feet)

Flow Rate (GPM)

Pressure Loss (psi)

Head (Feet)

Specication

Water heater(s) shall be Model_________________ as manufactured by A. O. Smith Water Heaters, shall be a copper coil integral fin and tube construction with quick release brass or bronze waterways. Heater(s) will be factory assembled and tested.

The heater shall be vented with 3” or 4” Schedule 40 PVC, CPVC, or ABS vent pipe, or stainless steel Category III vent pipe at a distance not to exceed 70’ (equivalent) for 3” vent or 100’ (equivalent) for 4” vent, terminating vertically or horizontally as prescribed. Intake air pipe may be of such material as ABS, PVC, galvanized B-Vent, corrugated aluminum or stainless steel, or Category IV stainless steel not to exceed 79’ (equivalent) for 3” vent or 100’ (equivalent) for 4” vent.

The heater(s) shall be controlled by an onboard solid-state printed circuit board monitoring incoming and outgoing temperatures with factory installed thermistors, sensing and controlling flow rate to set point temperature, controlling both air and gas mixture inputs to maintain thermal combustion efficiency. The heater(s) shall also consist of inline fusing, a spark ignition and sensor system, aluminized stainless steel burners, an air-fuel ratio sensor, a hi-limit temperature switch, modulating and proportional gas valves, a freeze protection sensor with ceramic heating blocks, and an overheat cutoff fuse.

The water heater(s) shall be CSA listed, exceed the energy efficiency requirements of ASHRAE 90.1b-1992, and shall comply with SCAQMD Rule 1146.2 Ultra-Low NOx Standards.

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