Residential/Commercial Gas Tankless Water Heaters

FEATURES

- **CONDENSING TECHNOLOGY PROVIDES UNPRECEDENTED 0.95 ENERGY FACTOR**
- **DURABLE HEAT EXCHANGERS**
  - Primary Heat Exchanger is constructed of HRS35 Commercial-Grade Copper which is more resilient against erosion
  - Secondary Heat Exchanger is made of Type 316L Stainless Steel to protect against corrosion
- **CONTINUOUS MAXIMUM FLOW RATES UP TO 10.0 GPM**
- **ENERGY STAR® QUALIFIED**
- **AVAILABLE IN NATURAL GAS OR PROPANE (LP)**
- **ATI 540H CAN BE USED IN BOTH RESIDENTIAL AND COMMERCIAL APPLICATIONS**
- **ELECTRONIC IGNITION - NO PILOT LIGHT**
- **INCLUDES A BUILT-IN TEMPERATURE CONTROLLER AND ADVANCED DIAGNOSTICS FOR EASY TROUBLESHOOTING**
- **FACTORY-INSTALLED POWER CORD**
- **EASY-LINK UP TO 4 UNITS (540H MODELS ONLY)**
  - With no additional parts or accessories needed using built-in Easy-Link System
- **MULTI-LINK UP TO 20 UNITS (540H MODELS ONLY) WITH A TM-MC02**
- **SAFETY FEATURES:**
  - Air-Fuel Ratio (AFR) Sensor
  - Exhaust & Water Temperature Safety Control
  - Overheat Cut-Off Fuse
- **INTERNAL FREEZE PROTECTION SYSTEM**
  - Power Direct Vent Design
  - Provides flexible venting with ULC s636 approved PVC or CPVC or polypropylene for Intake and Exhaust (solid core only).
  - Category III Stainless Steel venting can also be used
- **ACCESSORIES**
  - Pipe Cover
  - Neutralizer Kit
  - Isolation Valve Kits (Includes Pressure Relief Valve)
  - Concentric Termination
- **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

**TANKLESS HIGH EFFICIENCY CONDENSING MODELS**

<table>
<thead>
<tr>
<th>Model</th>
<th>Flow Rate (GPM)</th>
<th>Pressure Loss (psi)</th>
</tr>
</thead>
<tbody>
<tr>
<td>240H</td>
<td>1.0-1.5</td>
<td>0.0-1.0</td>
</tr>
<tr>
<td>340H</td>
<td>1.5-2.0</td>
<td>0.0-1.0</td>
</tr>
<tr>
<td>540H</td>
<td>2.0-2.5</td>
<td>0.0-1.0</td>
</tr>
</tbody>
</table>

**Specification**

- 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. Heaters will be factory assembled and tested.
- The heater shall be vented with 3” or 4” ULC s636 approved PVC or CPVC or polypropylene 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 PVC or CPVC, galvanized B-Vent, corrugated aluminum or stainless steel, or Category IV stainless steel not to exceed 70’ (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 inputs to maintain the combustion efficiency. The heater(s) shall also consist of intake air damper, a spark ignition and sensor system, aluminized stainless steel burners, an air-fuel ratio sensor, a hi-limit temperature switch, overtemperature 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 efficiency requirements of CANADA 114.1-92, and shall comply with STANDARD 119.2-2002 Ultra Low NOx Standards.

**Accessories**

- Pipe Cover
- Neutralizer Kit
- Isolation Valve Kits (Includes Pressure Relief Valve)
- Concentric Termination

**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

For Technical Information call 1-888-479-8324.
**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 CON</th>
<th>DIMENSIONS IN INCHES</th>
<th>WEIGHT (LBS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATI-540H-N</td>
<td>Natural</td>
<td>15,000</td>
<td>199,000</td>
<td>5.0</td>
<td>10.5</td>
<td>0.95</td>
<td>4 1/2 - 17 3/4 - 10 3/4</td>
<td>59</td>
</tr>
<tr>
<td>ATI-340H-N</td>
<td>Natural</td>
<td>15,000</td>
<td>180,000</td>
<td>5.0</td>
<td>10.5</td>
<td>0.95</td>
<td>4 1/2 - 17 3/4 - 10 3/4</td>
<td>58</td>
</tr>
<tr>
<td>ATI-240H-N</td>
<td>Natural</td>
<td>15,000</td>
<td>160,000</td>
<td>5.0</td>
<td>10.5</td>
<td>0.95</td>
<td>4 1/2 - 17 3/4 - 10 3/4</td>
<td>58</td>
</tr>
<tr>
<td>ATI-540H-P</td>
<td>Propane</td>
<td>13,000</td>
<td>199,000</td>
<td>8.0</td>
<td>14.0</td>
<td>0.95</td>
<td>4 1/2 - 17 3/4 - 10 3/4</td>
<td>59</td>
</tr>
<tr>
<td>ATI-340H-P</td>
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*Current numbers based on factory testing: 0.4 GPM required for continuous fire after initial ignition.*

All dimensions are in inches. 15-150 psi Water Pressure. 40 psi or above is recommended for maximum flow.

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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 130°F (55°C) or higher

Set temperature 125°F (52°C) or lower

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All diagrams and charts are for visual representation of the model specifications. Dimensions are provided in inches, and the diagram includes intake, outlet, and other key dimensions for installation and maintenance guidance.