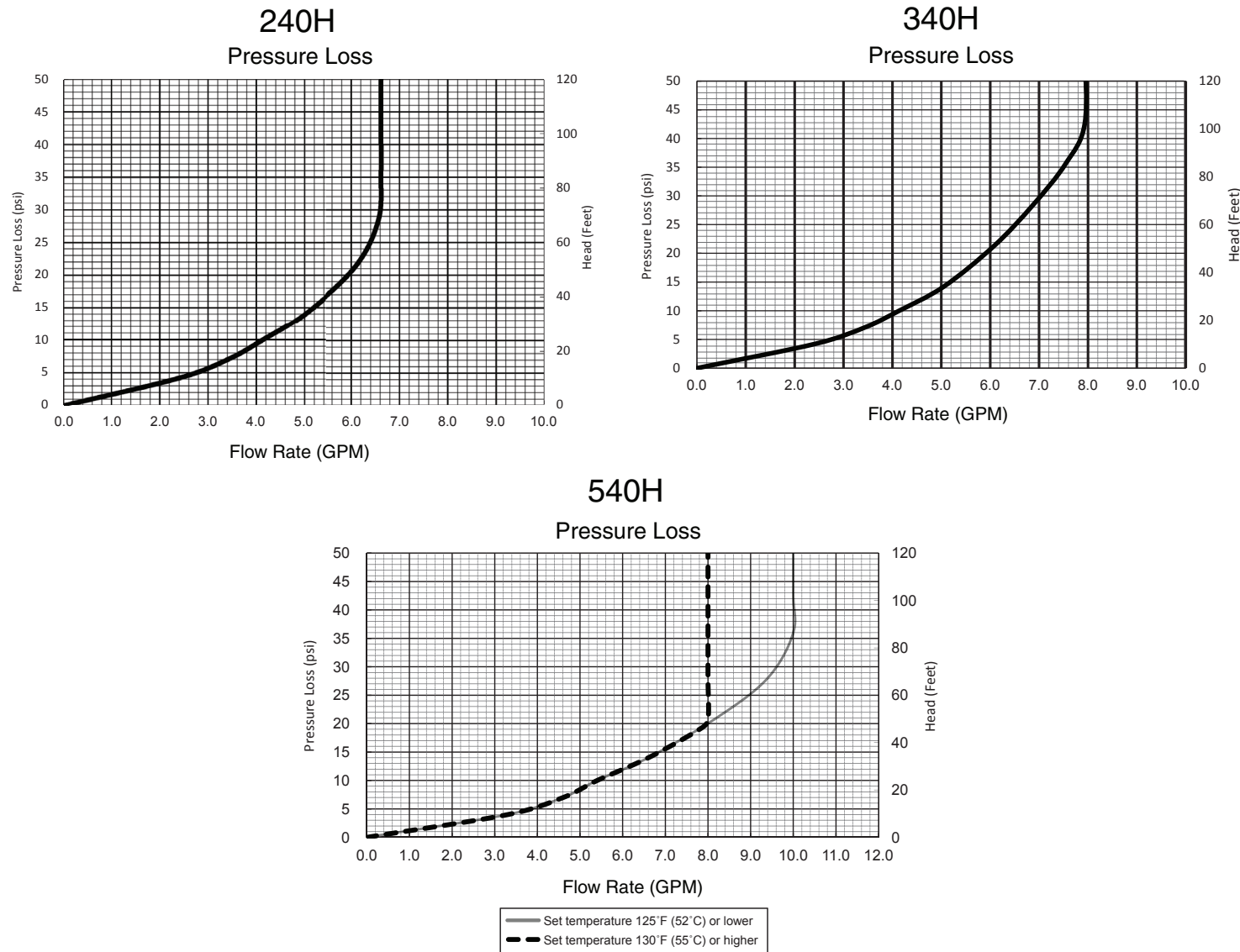


## PRESSURE LOSS



### 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. Heater(s) 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 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.

## TANKLESS HIGH EFFICIENCY CONDENSING MODELS

### 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

- Exhaust, 3" PVC Venting up to 70 Feet or 4" PVC Venting up to 100 Feet
- 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



ATI-240H  
ATI-340H  
ATI-540H



ANSI Z21.10.3 CSA 4.3



Residential/Commercial Gas Tankless Water Heaters

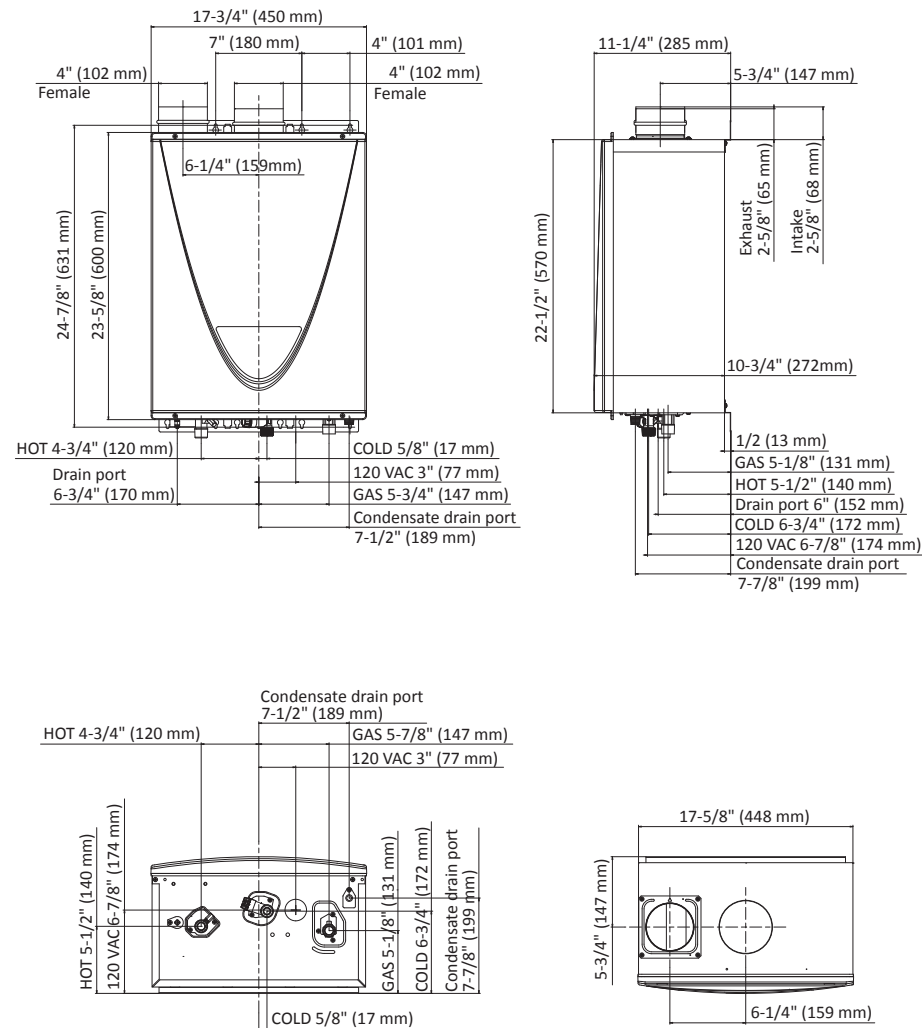


Residential/Commercial Gas Tankless Water Heaters

### TANKLESS HIGH EFFICIENCY CONDENSING MODELS

MODEL NUMBER	FUEL TYPE	GAS CONSUMPTION INPUT		INLET GAS PRESSURE		ENERGY FACTOR	MAX GPM*	HOT/COLD AND GAS CONN.	DIMENSIONS IN INCHES			UNIT WEIGHT (LBS)
		MINIMUM BTU/H	MAXIMUM BTU/H	MINIMUM W.C.	MAXIMUM W.C.				A HEIGHT	B WIDTH	C DEPTH	
ATI-240H-N	Natural	15,000	160,000	5.0	10.5	0.95	6.6	3/4" NPT	22-1/2	17-3/4	10-3/4	58
ATI-240H-P	Propane	13,000	160,000	8.0	14.0	0.95	6.6	3/4" NPT	22-1/2	17-3/4	10-3/4	58
ATI-340H-N	Natural	15,000	180,000	5.0	10.5	0.95	8.0	3/4" NPT	22-1/2	17-3/4	10-3/4	58
ATI-340H-P	Propane	13,000	180,000	8.0	14.0	0.95	8.0	3/4" NPT	22-1/2	17-3/4	10-3/4	58
ATI-540H-N	Natural	15,000	199,000	5.0	10.5	0.95	10.0	3/4" NPT	22-1/2	17-3/4	10-3/4	59
ATI-540H-P	Propane	13,000	199,000	8.0	14.0	0.95	10.0	3/4" NPT	22-1/2	17-3/4	10-3/4	59

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; 0.4 GPM required for continuous fire after initial ignition.  
 Models are certified from sea level to 10,100 ft. elevations.  
 The manufacturer reserves the right to discontinue, or change at any time, specifications or designs without notice and without incurring obligation.



### FLOW RATE vs TEMPERATURE RISE

