

# A. O. Smith On-Demand Gas Water Heaters

Each A. O. Smith on-demand water heater is designed for a specific application. Consult your sales representative or contact A. O. Smith for specifications and recommendations on which model is right for specific requirements.



## INNOVATION ON DEMAND

A. O. Smith's complete line of tankless gas water heaters

A.O.Smith



### Model Specifications

| Model Number   | BTU Input                 |                 | Maximum | Hot Water Output (GPM) |            | Approximate Shipping Weight (lbs) |
|----------------|---------------------------|-----------------|---------|------------------------|------------|-----------------------------------|
|                | Natural / Propane Minimum | Maximum         |         | 45° F Rise             | 77° F Rise |                                   |
| INDOOR MODELS  |                           |                 |         |                        |            |                                   |
| ATI-305N       | 15,000                    | 199,000/190,000 | 5.3     | 5.3                    | 4.2        | 50                                |
| ATI-505N       | 15,000                    | 199,000/190,000 | 8.5     | 7.4/7.1                | 4.2        | 50                                |
| ATI-705N       | 19,000                    | 237,000         | 9.8     | 8.8                    | 5.1        | 55                                |
| ATI-705AN*     | 19,000                    | 237,000         | 9.8     | 8.8                    | 5.1        | 55                                |
| OUTDOOR MODELS |                           |                 |         |                        |            |                                   |
| ATO-305N       | 15,000                    | 199,000         | 5.3     | 5.3                    | 4.2        | 50                                |
| ATO-505N       | 15,000                    | 199,000         | 8.5     | 7.3                    | 4.2        | 50                                |
| ATO-705N       | 19,000                    | 237,000         | 9.8     | 8.7                    | 5.1        | 55                                |
| ATO-705AN*     | 19,000                    | 237,000         | 9.8     | 8.7                    | 5.1        | 55                                |

\* 705A models are ASME Certified.  
For propane, change "N" to "P" in model number (ATI-305P).

A.O.Smith

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## Endless Hot Water. Endless Innovation.

Trust the innovation leader to give you more choices in on-demand water heating. A. O. Smith's comprehensive line supplies endless hot water when you ask for it...with high efficiency that saves money on both residential and commercial applications.

### Product Features:

#### Innovative Technology

- Indoor and outdoor installation options
- Continuous hot water on demand (up to 9.8 GPM)
- Whole house water heating solution
- Direct electronic ignition – no pilot light
- On-board diagnostics and safety monitoring
- Interior sealed combustion (does not use interior combustion air)
- Applicable for residential hydronic heating applications

#### Excellent Performance

- 12-year limited warranty on heat exchanger, 5-year warranty on all parts
- Can be installed outdoors, saving valuable indoor square footage

#### Energy Efficiency

- Up to 84% thermal efficiency, providing significant energy cost savings

#### Sleek Design

- Smooth pleasant lines and rounded corners
- Matching pipe cover available for finished appearance

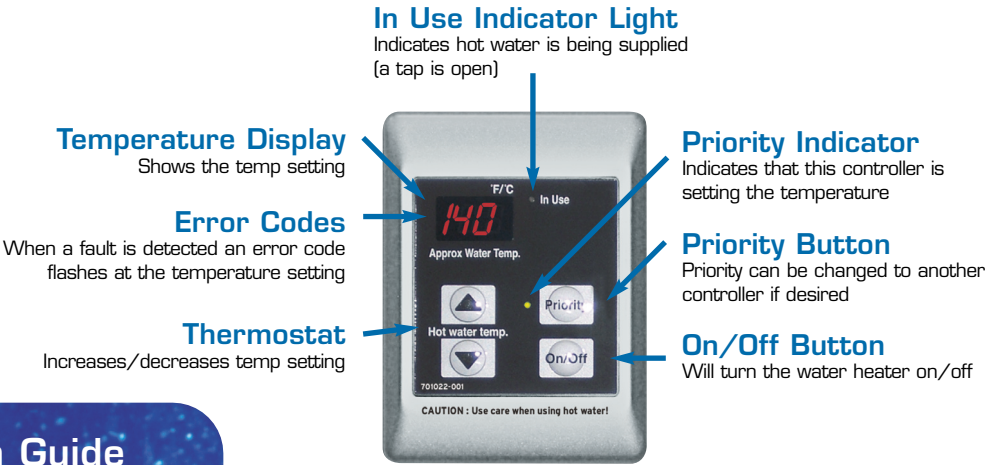


### Commercial Application Features:

- ASME Certified
- Hot water capacity of 0.6 – 9.8 GPM
- Min. – Max. input: 19,000 – 237,000 BTU
- Max. temperature: 185°F with Commercial Controller
- Ideal for small restaurants, multifamily housing, hair salons and spas, laundromats, car washes and other limited commercial needs

## Remote Controller

All models come with a Remote controller that can set the temperature within a specific range.

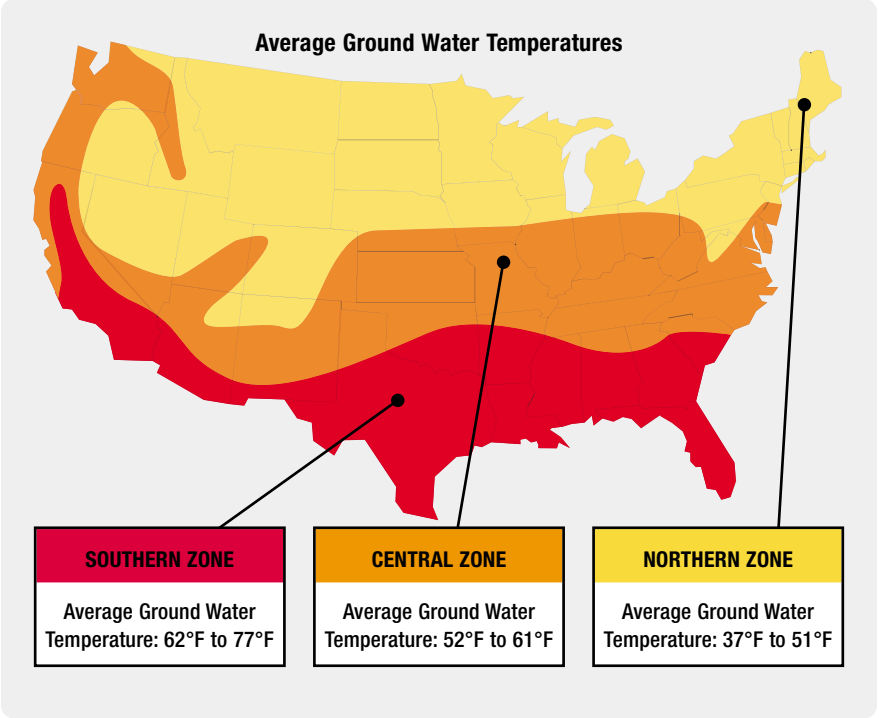


### Model Selection Guide

#### Ground water temperature factor.

The temperature of incoming ground water (cold water inlet temperature) varies greatly throughout the U.S. and also fluctuates with change of season. The temperature of water as it enters the water heater will determine the amount of "temperature rise" required to achieve the desired hot water outlet temperature (120°F is recommended).

The best way to measure your incoming ground water temperature is to use a thermometer to measure cold water temperature during the coldest season of the year. To simplify the process, use this map to determine whether your installation location is in the Southern Zone, Central Zone or Northern Zone.



#### Peak hot water demand.

The next step is to determine how much hot water will be required during the busiest usage period ("peak demand"). To use the chart, consider all appliances and fixtures that use hot water including lavatory faucets, kitchen faucets, washing machines, dishwashers, showers and bathtubs. Be sure to determine how many appliances and fixtures will be used at the same time ("peak demand").

| Appliances or fixtures in simultaneous use during peak demand | Ground Water Temperature Zone |                |               |
|---|-------------------------------|----------------|---------------|
|   | Southern Zone                 | Central Zone   | Northern Zone |
| 1   | 305 or 505                    | 305 or 505     | 305 or 505    |
| 2   | 305 or 505                    | 305 or 505     | 305 or 505    |
| 3   | 505 or 705                    | (2) 505 or 705 | (2) 505       |
| 4   | (2) 505                       | (2) 505        | (2) 505       |
| 5   | (2) 505                       | (2) 705        | (2) 705       |
| 6 or more   | Multi-system                  | Multi-system   | Multi-system  |

\*Note: This selection guide is based on 120°F outlet water temperature.