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› A.O. Smith Signature Premier 6.6-GPM 160000-BTU Indoor Natural Gas Tankless Water Heater User Manual

AO Smith 0671657083595

A.O. Smith Signature Premier Tankless Water Heater User Manual

Model: 0671657083595

INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your A.O. Smith Signature Premier 6.6-GPM 160000-BTU Indoor Natural Gas Tankless Water Heater. Please read this manual thoroughly before installation or use and retain it for future reference. Professional installation is required for this unit.



Figure 1: Front view of the A.O. Smith Signature Premier Tankless Water Heater, showing the control panel and exhaust vents.

SAFETY INFORMATION

Always adhere to local codes and regulations. Installation and service must be performed by a qualified professional. Failure to follow these instructions could result in property damage, personal injury, or death.

- Ensure proper ventilation for natural gas appliances.

- Do not store flammable materials near the water heater.
- Turn off gas and water supply before performing any maintenance.
- Water temperatures over 125°F (52°C) can cause severe burns instantly or death from scalds.

SETUP AND INSTALLATION

This tankless water heater is designed for indoor, wall-mounted installation. Due to the nature of gas and water connections, professional installation is mandatory to ensure safety and proper operation.

Pre-Installation Checks:

1. Verify that the installation location is suitable for a natural gas appliance, with adequate ventilation and drainage.
2. Confirm that the gas supply line size and pressure are compatible with the unit's requirements (160,000 BTU/h).
3. Ensure water supply lines are correctly sized and capable of delivering 6.6 GPM.
4. Prepare the wall for mounting, ensuring it can support the unit's 43-pound weight plus water content.

Mounting:

The unit's compact dimensions (approximately 43 x 22 x 16 inches) allow for flexible wall-mounting. Use appropriate mounting hardware to secure the unit firmly to a structural element.

Connections:

Connect the natural gas line, cold water inlet, hot water outlet, and exhaust/intake venting according to the provided installation diagram and local codes. Ensure all connections are leak-free and properly sealed.

OPERATING INSTRUCTIONS

Your A.O. Smith tankless water heater is designed for continuous hot water supply on demand. It only activates when hot water is requested, making it highly energy efficient.

Initial Startup:

1. Ensure all gas and water connections are secure and leak-free.
2. Open the cold water inlet valve to fill the unit.
3. Purge air from the system by opening hot water faucets throughout the house until water flows smoothly.
4. Turn on the gas supply to the unit.
5. Power on the unit at the electrical disconnect.
6. The unit will perform a self-check and be ready for operation.

Temperature Adjustment:

Use the control panel on the front of the unit to adjust the desired hot water temperature. Refer to the display for current settings. Be aware that higher temperatures increase the risk of scalding.



Figure 2: The tankless water heater highlighting its energy efficiency, capable of reducing water heating costs.

MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your tankless water heater. It is recommended to have a qualified technician perform annual inspections and servicing.

Annual Servicing:

- **Flushing:** Periodically flush the heat exchanger to remove mineral buildup, especially in areas with hard water. This prevents scaling and maintains efficiency.
- **Vent Inspection:** Check the exhaust and air intake vents for any obstructions or damage.
- **Gas Line Check:** Inspect the gas line for leaks and ensure proper pressure.
- **Water Filter Cleaning:** If equipped, clean or replace the water inlet filter.

Note: Always shut off gas and water supply and disconnect electrical power before performing any maintenance.

TROUBLESHOOTING

This section provides solutions to common issues. For complex problems or if issues persist, contact a qualified service technician.

Problem	Possible Cause	Solution
No hot water	No gas supply, power outage, clogged filter, unit lockout	Check gas valve, electrical breaker. Clean filter. Reset unit if error code displayed.
Inconsistent water temperature	Low water flow, mineral buildup, incorrect temperature setting	Increase water flow. Flush heat exchanger. Adjust temperature setting.
Unit making unusual noises	Air in system, mineral buildup (kettling), loose components	Purge air from lines. Flush heat exchanger. Contact technician for inspection.

SPECIFICATIONS

Brand: AO Smith

Model: 0671657083595

Type: Indoor Natural Gas Tankless Water Heater
Maximum Flow Rate: 6.6 Gallons Per Minute (GPM)
BTU Input: 160,000 BTU/h
Energy Factor (UEF): 0.94
Mounting Type: Wall
Color: Stainless Steel and Copper
Item Weight: 43 pounds
Package Dimensions: 43 x 22 x 16 inches

WARRANTY AND SUPPORT

Your A.O. Smith Signature Premier Tankless Water Heater comes with a comprehensive warranty:

- **Heat Exchanger:** 15-year limited warranty
- **Parts:** 5-year guarantee

For warranty claims, technical support, or to locate a qualified service professional, please contact A.O. Smith customer service. Keep your proof of purchase and model number readily available.

Note: Professional installation is required for this unit, and improper installation may void the warranty.

