



Manuals.plus /

› VEVOR /

› VEVOR Gas Tankless Water Heater User Manual

VEVOR JSQ30-A

VEVOR Gas Tankless Water Heater User Manual

Model: JSQ30-A

INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your VEVOR Gas Tankless Water Heater, Model JSQ30-A. Please read this manual thoroughly before installation or use and retain it for future reference. This appliance is designed to provide instant hot water for various household needs.

SAFETY PRECAUTIONS

Always adhere to local codes and regulations for gas and water heater installations. Failure to do so may result in property damage, personal injury, or death. Only qualified professionals should perform installation and major maintenance.

- Ensure proper ventilation. This is an indoor unit and requires a vent outlet for exhaust.
- Do not store flammable materials near the water heater.
- Regularly check for gas leaks using a soap solution, never an open flame.
- In case of a gas leak, immediately shut off the gas supply, open windows, and evacuate the area. Do not operate electrical switches.
- Protect the unit from freezing temperatures to prevent pipe damage. The unit includes anti-freeze protection, but additional measures may be necessary in extreme cold.
- Ensure the water pressure is within the specified range (2.9-116 psi).
- Do not tamper with safety devices.

PRODUCT OVERVIEW

The VEVOR Gas Tankless Water Heater (Model JSQ30-A) is a compact and efficient appliance designed for indoor use. It provides instant hot water on demand, eliminating the need for a storage tank. Key features include precise temperature control, an intuitive LED display, and multiple built-in safety mechanisms.



Figure 1: Front view of the VEVOR Gas Tankless Water Heater (Model JSQ30-A) with its exhaust pipe. The unit features a silver-gray finish and a circular LED display on the front panel.



Figure 2: A closer view of the VEVOR Tankless Water Heater, highlighting the control panel and connections at the bottom. The unit is designed for indoor installation.

Key Features:

- **Instant Hot Water:** 4.3 Gallons per minute (GPM) capacity, 100,000 BTU/h heating power for continuous hot water supply.
- **Precision Temperature Control:** Maintains water temperature within $\pm 1^{\circ}\text{F}$ of the set value.
- **LED Display & Touch Panel:** Clear display for real-time temperature and operational status, with sensitive touch controls.
- **Multiple Security Protections:** Includes leakage, flameout, dry burning, overheating, timeout (40min), pipe damage, high-temperature lock, wind pressure, and anti-freeze protection.

- **Oxygen-Free Copper Tank:** Corrosion-resistant and sturdy heat exchanger for efficient heating and durability.
- **Low Water Pressure Start:** Operates effectively even with low water pressure (minimum start flow rate 0.66 gal/min).
- **High-Speed Anti-Backflow Fan:** Prevents wind backflow and ensures efficient exhaust gas clearing.

SPECIFICATIONS

Parameter	Value
Model Number	JSQ30-A
Fuel Type	Natural Gas
Capacity	4.3 Gal / 16 L
Rated Heat Load	100,000 BTU/HR
Max Output Temperature	149°F
Water Pressure Range	0.02-0.8MPa / 2.9-116psi
Gas Pressure Range	≤2000pa / ≤0.29psi
Minimum Start Flow Rate	2.5L/min / 0.66gal/min
Flow Rate Range	0-16 L/min / 0-4.23 gal/min
Voltage & Frequency	120V - 60Hz
Item Dimensions (L x W x H)	21.65 x 13.78 x 6.3 inches (550 x 350 x 160 mm)
Net Weight	19.75 lbs / 8.96 kg
Color	Silver Gray



Item Model Number: **JSQ30-A**

Water Pressure Range: **0.02-0.8MPa / 2.9-116psi**

Rated Heat Load: **100,000 BTU/HR**

Gas Pressure Range: **≤2000pa / ≤0.29psi**

Minimum Temperature Rise: **5K**

Minimum Start Flow Rate: **2.5L/min / 0.66gal/min**

Flow Rate Range: **0-16 L/min / 0-4.23 gal/min**

Item Dimensions: **21.65 × 13.78 × 6.3 inch / 550 × 350 × 160 mm**

Accessories:

**User Manual x 1, Exhaust Pipe (φ60cm) x 1, Expansion Bolt Kit x 1
Screws (M5*35) x 2, Plastic Feet x 2, Sealing Ring x 3**

Fuel Type: **Natural Gas**

Capacity: **4.3 Gal / 16 L**

Net Weight: **19.75 lbs / 8.96 kg**

Max Output Temperature: **149°F**

Voltage & Frequency: **120V ~ 60Hz**

Figure 3: Detailed diagram illustrating the dimensions of the VEVOR Gas Tankless Water Heater and a summary of its technical specifications.

INSTALLATION AND SETUP

Proper installation is crucial for the safe and efficient operation of your tankless water heater. It is highly recommended that installation be performed by a licensed professional.

Unpacking and Inspection:

- Carefully remove the water heater and all accessories from the packaging.
- Inspect the unit for any signs of shipping damage. Report any damage to your supplier immediately.
- Verify all included components are present: Tankless Water Heater x 1, Exhaust Pipe (φ60cm) x 1, Expansion Bolt Kit x 1, Screws (M5*35) x 2, Plastic Feet x 2, Sealing Ring x 3.

Location Requirements:

- Install indoors only, in a location protected from freezing temperatures.
- Choose a location with adequate ventilation and access for maintenance.
- Ensure the mounting surface is strong enough to support the unit's weight (approx. 19.75 lbs).
- Maintain proper clearances from combustible materials as per local codes.

Mounting the Unit:

1. Mark the mounting points on the wall according to the unit's dimensions (13.78" W x 21.65" H).
2. Drill holes and insert the expansion bolts.
3. Securely mount the water heater to the wall using the provided screws.

Water Connections:

- Connect the cold water inlet to the 1/2 inch NPT inlet connection on the unit.
- Connect the hot water outlet to the 1/2 inch NPT outlet connection on the unit.
- Install shut-off valves on both hot and cold water lines for maintenance.
- Ensure all connections are watertight.

Gas Connection:

- Connect the gas supply line to the 1/2 inch NPT gas inlet connection.
- Use appropriate gas piping and fittings as per local codes.
- Perform a gas leak test using a soap solution after connection.

Ventilation:

- Connect the provided exhaust pipe (φ60cm) to the vent outlet on the top of the unit.
- Ensure the exhaust system is properly sealed and vented to the outside, following all local regulations for gas appliance venting.

Electrical Connection:

- Connect the unit to a standard 120V - 60Hz electrical outlet.
- Ensure the circuit is properly grounded and protected by a circuit breaker.

1/2 inch NPT Interface

Easy Installation



Figure 4: An illustrative diagram detailing the installation process, including water inlet/outlet, gas inlet, electrical connection, and exhaust pipe setup. Note the 1/2 inch NPT connections.

OPERATING INSTRUCTIONS

Initial Startup:

1. Ensure all water and gas connections are secure and leak-free.
2. Open the cold water supply valve to the unit.

3. Open a hot water faucet in your home to purge air from the water lines. Close the faucet once water flows steadily.
4. Slowly open the gas supply valve to the unit.
5. Plug the unit into the electrical outlet.

Using the Control Panel:

The unit is equipped with a clear LED display and sensitive touch controls for easy operation.



Figure 5: A detailed view of the LED display and touch control panel. The panel allows for one-touch power, temperature adjustment, and

easy temperature unit switching.

- **Power Button:** One-touch operation to turn the unit on or off.
- **Temperature Adjustment:** Use the up/down arrows to set your desired water temperature. The temperature range is 95-149°F (35-65°C).
- **Temperature Unit Switch:** Easily switch between Fahrenheit (°F) and Celsius (°C) display.
- **LED Display:** Shows real-time water temperature and operational status indicators.

Normal Operation:

Once the unit is powered on and the desired temperature is set, simply open any hot water faucet in your home. The water heater will automatically activate and begin heating water to the set temperature. The smart sensors maintain the temperature within $\pm 1^\circ\text{F}$ for a consistent experience.

±1°F Smart Temperature Control

Enjoy Consistent, Stable Water



Figure 6: The VEVOR tankless water heater provides precise temperature control, ensuring consistent hot water. The graph illustrates the minimal temperature fluctuations compared to other systems.

MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your VEVOR tankless water heater. Always turn off the gas and electrical supply to the unit before performing any maintenance.

Annual Maintenance (Recommended by a Qualified Technician):

- **Flush the Heat Exchanger:** Depending on water hardness, mineral deposits can build up. A professional can flush the heat exchanger with a descaling solution to maintain efficiency.
- **Inspect Gas Connections:** Check for any signs of leaks or corrosion.
- **Inspect Venting System:** Ensure the exhaust pipe is clear of obstructions and properly sealed.
- **Clean Air Filter (if applicable):** Some models may have an air filter that needs cleaning.
- **Check Safety Devices:** Verify proper operation of all safety features, including pressure relief valve and flame sensor.

Winterization (for cold climates):

If the unit is installed in an unheated area or will be unused for an extended period during freezing temperatures, proper winterization is essential to prevent pipe damage.

1. Turn off the gas supply to the water heater.
2. Turn off the electrical supply to the water heater.
3. Close the cold water inlet valve.
4. Open a hot water faucet in your home to relieve pressure.
5. Locate the drain valves on the water heater (usually at the bottom) and open them to drain all water from the unit.
6. Use compressed air to blow out any remaining water from the lines and the unit.
7. Leave drain valves open until ready to use again.



Figure 7: The VEVOR tankless water heater is designed with anti-freeze protection, making it suitable for various indoor environments, even in colder climates. However, proper winterization is recommended for prolonged disuse in freezing conditions.

TROUBLESHOOTING

Before contacting customer support, please refer to the following troubleshooting guide. Always ensure the unit has power and gas supply before troubleshooting.

Problem	Possible Cause	Solution
No hot water / Unit not activating	<ul style="list-style-type: none"> ◦ No power supply ◦ Gas supply off ◦ Water flow too low ◦ Inlet filter clogged ◦ Error code displayed 	<ul style="list-style-type: none"> ◦ Check power connection and circuit breaker. ◦ Ensure gas valve is fully open. ◦ Increase water flow (minimum 0.66 GPM required). ◦ Clean the inlet water filter. ◦ Refer to error code section (if applicable, not provided in input).
Water not hot enough	<ul style="list-style-type: none"> ◦ Temperature setting too low ◦ Excessive water flow ◦ Gas pressure issue ◦ Mineral buildup in heat exchanger 	<ul style="list-style-type: none"> ◦ Increase set temperature on the control panel. ◦ Reduce water flow through the faucet. ◦ Contact a gas professional to check pressure. ◦ Schedule professional descaling.
Unit cycles on and off rapidly	<ul style="list-style-type: none"> ◦ Water flow fluctuations ◦ Overheating protection activated 	<ul style="list-style-type: none"> ◦ Ensure stable water pressure. ◦ Check for proper ventilation; unit may be overheating due to restricted airflow.
Gas smell	<ul style="list-style-type: none"> ◦ Gas leak 	<ul style="list-style-type: none"> ◦ Immediately shut off gas supply. Open windows. Do not operate electrical switches. Evacuate and contact gas company/emergency services.

Safety Protections and Indicators:

The VEVOR tankless water heater is equipped with multiple safety features to ensure safe operation. If an issue occurs, the unit may display an error code or shut down automatically.

Multiple Security Protections

Enjoy Hot Water All Year Round



Leakage Protection
(with leakage protection plug)



Flameout Protection



Dry-Heating Protection



Overheat Protection



Timeout Protection (40min)



Pipe Damage Protection



High Temperature Lock



Wind Pressure Protection



Anti-Freeze Protection



Figure 8: Overview of the comprehensive security protections integrated into the VEVOR water heater, including leakage, flameout, dry-heating, overheat, timeout, pipe damage, high temperature lock, wind pressure, and anti-freeze protection.

- **Leakage Protection:** Detects water leaks and shuts off the unit.
- **Flameout Protection:** Automatically shuts off gas if the flame extinguishes.
- **Dry-Heating Protection:** Prevents the unit from operating without water flow.
- **Overheat Protection:** Shuts down if water temperature exceeds safe limits.
- **Timeout Protection (40min):** Automatically turns off after 40 minutes of continuous operation to prevent excessive

energy consumption.

- **Pipe Damage Protection:** Monitors for conditions that could lead to pipe damage.
- **High Temperature Lock:** Prevents setting excessively high temperatures.
- **Wind Pressure Protection:** Ensures proper exhaust ventilation and prevents backflow.
- **Anti-Freeze Protection:** Activates to prevent freezing of internal components in cold conditions.

WARRANTY AND SUPPORT

VEVOR provides a warranty for this product against defects in materials and workmanship under normal use. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official VEVOR website.

For technical support, troubleshooting assistance, or to inquire about replacement parts, please contact VEVOR customer service. When contacting support, please have your model number (JSQ30-A) and UPC (197988153504) ready.

You can also refer to the official [User Manual \(PDF\)](#) for additional details and diagrams.

