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› VELPAX 16L Propane Tankless Water Heater User Manual RSQ-16L

## VELPAX RSQ-16L

# VELPAX 16L Propane Tankless Water Heater

Model: RSQ-16L  
User Instruction Manual

## 1. INTRODUCTION

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This manual provides essential information for the safe and efficient operation of your VELPAX 16L Propane Tankless Water Heater. Please read all instructions carefully before installation and use. This portable unit is designed to provide instant hot water for various outdoor applications, including camping, RV travel, outdoor showers, and pet washing.

## 2. SAFETY INFORMATION

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**WARNING:** Failure to follow these safety instructions could result in fire, explosion, property damage, personal injury, or death.

- Always check for gas leaks before each use. Use a soapy water solution on all gas connections; bubbles indicate a leak.
- Ensure adequate ventilation when operating the unit. Do not use indoors or in enclosed spaces.
- Keep flammable materials away from the water heater.
- Do not modify the appliance. Any modifications can be dangerous and will void the warranty.
- Ensure proper water pressure (minimum 3.6 PSI) for safe operation.
- Protect the unit from freezing temperatures to prevent damage.
- This appliance is designed for use with propane (LPG) only. Do not connect to natural gas.
- Always turn off the gas supply when the unit is not in use.

## 3. PRODUCT FEATURES

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- **Portable Design:** Compact and lightweight for easy transport and outdoor use. Dimensions: 21.65 x 13.4 x

5.9 inches (H x W x D).

- **Efficient Heating:** Advanced combustion technology for reduced gas consumption and noise. Provides up to 68,000 BTU/hour heat output.
- **Instant Hot Water:** Delivers hot water instantly with a flow rate of up to 4.21 gallons per minute (GPM).
- **Multi-Protection System:** Includes flame failure device, frost protection, and overheat protection for enhanced safety.
- **Digital Display:** Features a digital temperature display for precise control and monitoring.
- **Battery Ignition:** Powered by 2 D-type batteries for convenient ignition.
- **Adjustable Controls:** Separate knobs for gas flow, water flow, and season (winter/summer) to adjust water temperature.

#### 4. COMPONENTS AND DIAGRAM

Familiarize yourself with the external and internal components of your water heater.



Figure 4.1: Front view of the VELPAX 16L water heater, showing its compact design, dimensions (21.65" H x 13.4" W x 5.9" D), and

control knobs for gas, water, and season settings. The digital display is also visible.

# INTELLIGENT CONTROL

Can adjust different temperature and water quantity



**Season Control Center**  
Manual adjustable controller

**Gas Control Center**  
Water vapour double adjustable

**Water Control Center**

**Temperature Display**

**37-43°C**

**35-40°C**

Figure 4.2: Detailed view of the control panel, highlighting the Season Control Center (Winter/Summer), Gas Control Center (Min/Max), Water Control Center (Low/High), and the digital temperature display.

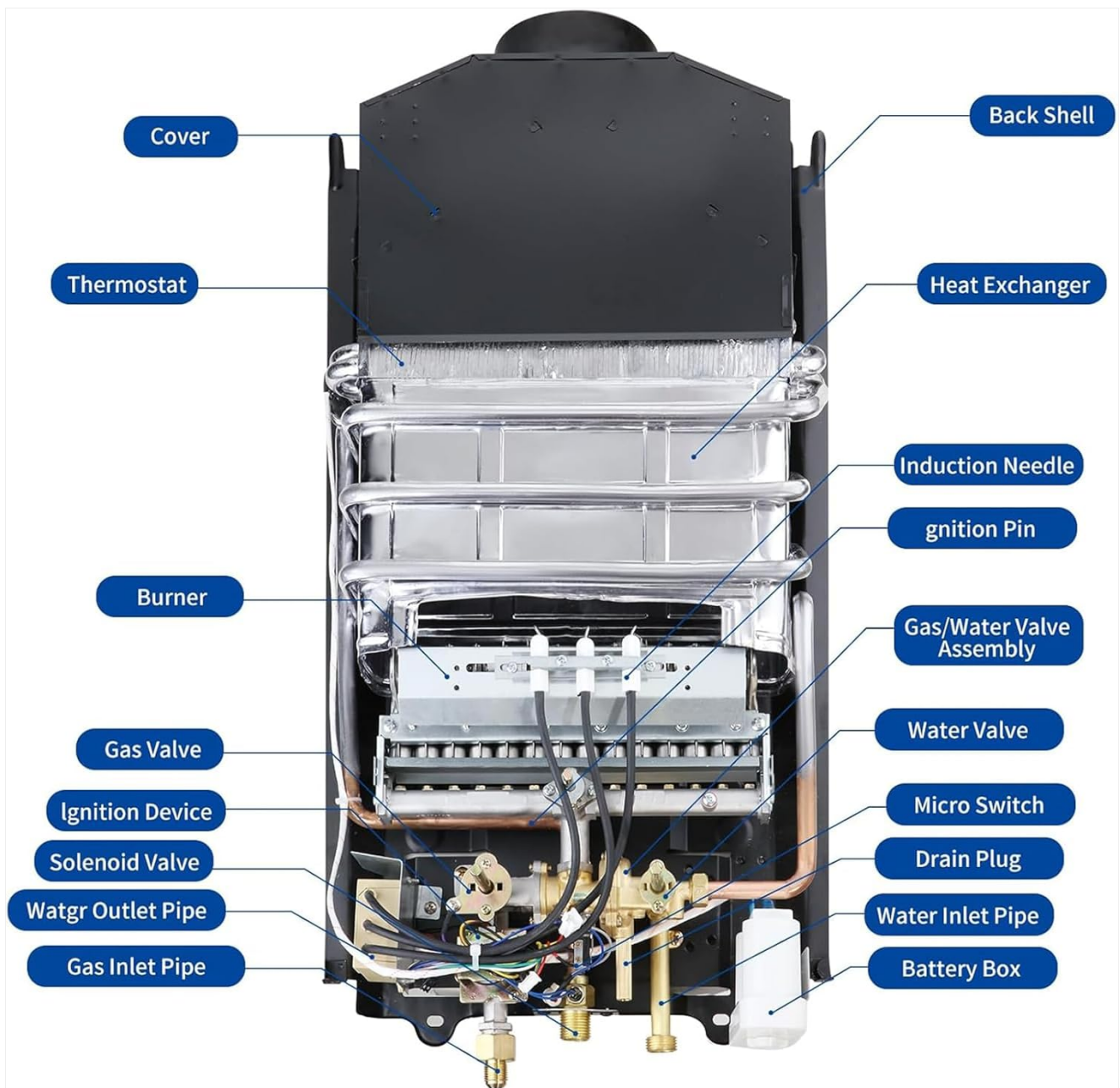


Figure 4.3: Internal component diagram, labeling parts such as the Cover, Back Shell, Thermostat, Heat Exchanger, Induction Needle, Ignition Pin, Burner, Gas/Water Valve Assembly, Gas Valve, Ignition Device, Solenoid Valve, Micro Switch, Drain Plug, Water Outlet Pipe, Water Inlet Pipe, Gas Inlet Pipe, and Battery Box.

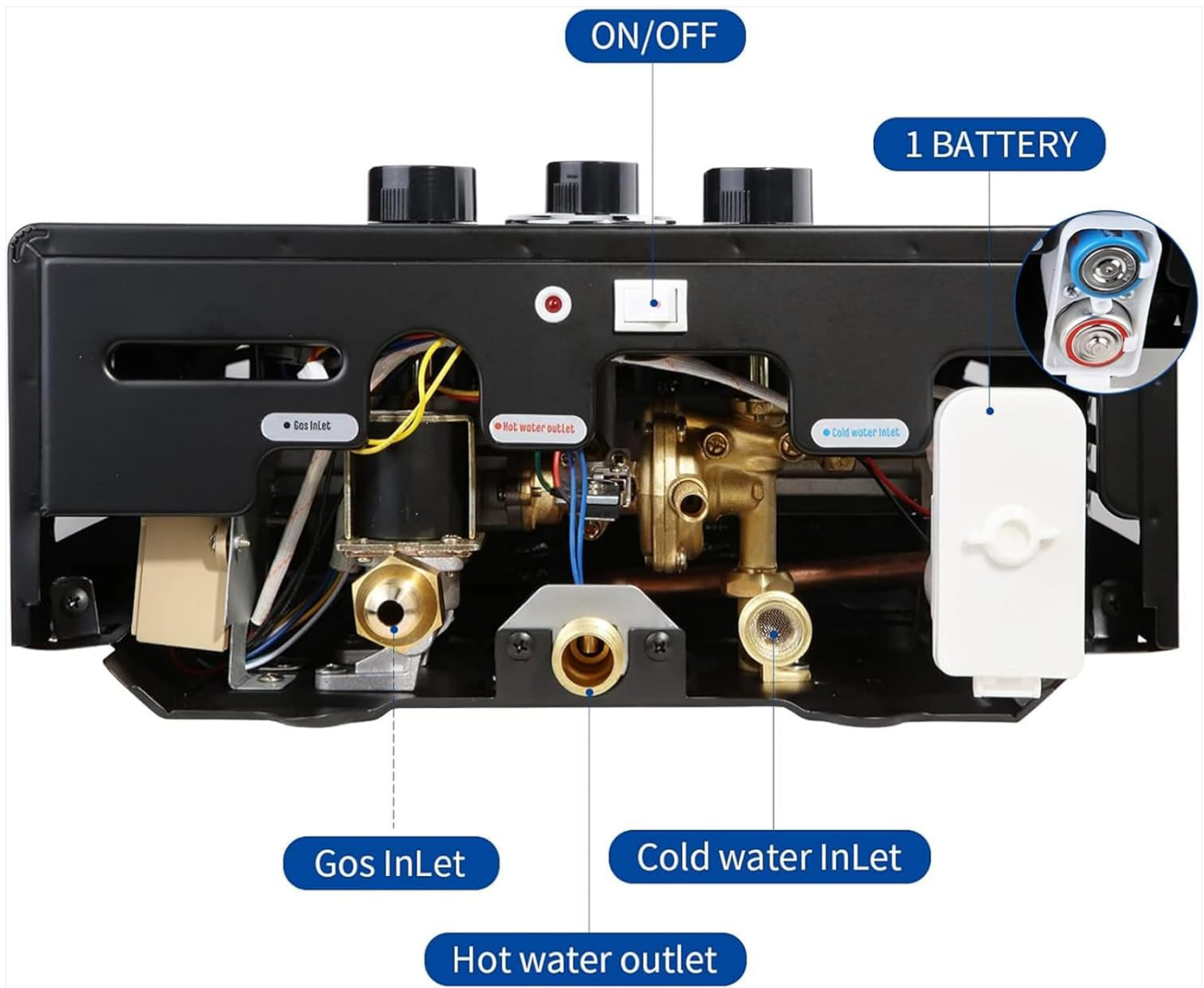


Figure 4.4: View of the bottom connections, showing the Gas Inlet, Cold Water Inlet, Hot Water Outlet, and the location for the D-type batteries.

## 5. INSTALLATION

Proper installation is crucial for safety and performance. If you are unsure, consult a qualified professional.

### 5.1 Unpacking and Inspection

- Carefully remove the water heater from its packaging.
- Inspect the unit for any signs of damage during transit. Do not install a damaged unit.
- Ensure all accessories are present: shower head with 5 spray modes, 1.5m stainless steel hose, and shower holder.

### 5.2 Mounting the Unit

- Mount the water heater vertically in a well-ventilated outdoor area, away from any flammable materials.
- Ensure the mounting surface is sturdy enough to support the unit's weight.

### 5.3 Connecting Water Lines

- Connect the cold water supply to the **Water Inlet Pipe** (rightmost connection at the bottom, typically blue).
- Connect the shower hose to the **Water Outlet Pipe** (middle connection at the bottom, typically red).
- Ensure all water connections are tight to prevent leaks.

## 5.4 Connecting Gas Supply

- Connect the propane gas cylinder (LPG) to the **Gas Inlet Pipe** (leftmost connection at the bottom, typically yellow).
- Use a CSA-approved gas regulator and hose.
- **Perform a gas leak test:** Apply a soapy water solution to all gas connections. If bubbles appear, there is a leak. Tighten connections or replace parts as necessary. Do not operate the unit if a gas leak is detected.

## 5.5 Installing Batteries

- Open the battery compartment (located at the bottom right, as shown in Figure 4.4).
- Insert two new D-type batteries, ensuring correct polarity. These batteries power the ignition system.

# 6. OPERATING INSTRUCTIONS

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## 6.1 Initial Startup

1. Ensure all connections (water, gas, batteries) are secure and leak-free.
2. Open the main gas valve on your propane cylinder.
3. Open the water supply valve to allow water to flow through the unit.
4. The unit will automatically ignite when water flow is detected. You should hear a clicking sound, and the digital display will show the water temperature.

## 6.2 Adjusting Water Temperature

Use the control knobs on the front panel to adjust the water temperature:

- **Gas Control Knob (Min/Max):** Adjusts the gas flow to the burner. Turning towards 'Max' increases heat output.
- **Water Control Knob (Low/High):** Adjusts the water flow rate. Turning towards 'Low' reduces water flow, allowing more time for heating and resulting in hotter water. Turning towards 'High' increases flow, resulting in cooler water.
- **Season Control Knob (Winter/Summer):** Select 'Winter' for higher heat output in colder conditions and 'Summer' for lower heat output in warmer conditions.

## 6.3 Shutting Down the Unit

1. Close the main gas valve on your propane cylinder.
2. Turn off the water supply.
3. If storing for an extended period or in freezing conditions, drain all water from the unit (see Maintenance section).

# 7. MAINTENANCE

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## 7.1 Draining the Unit (Frost Protection)

To prevent damage from freezing, always drain the unit completely when temperatures are expected to drop below freezing or before long-term storage.

1. Turn off the gas supply and water supply.

2. Disconnect the water inlet and outlet hoses.
3. Remove the drain plug (refer to Figure 4.3 for location) to allow all water to exit the unit.
4. Once drained, replace the drain plug.

## 7.2 Cleaning

- Clean the exterior of the unit with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- Periodically check the burner and heat exchanger for any debris or blockages. Clean gently if necessary.

## 7.3 Battery Replacement

Replace the D-type batteries when the ignition becomes weak or fails to ignite the burner.

## 8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No hot water / Unit does not ignite	No gas supply Low water pressure Dead batteries Water flow too low Gas leak	Check propane tank and valve Ensure minimum 3.6 PSI water pressure Replace D-type batteries Increase water flow using the water control knob Perform gas leak test; do not operate if leak found
Water is not hot enough	Gas flow too low Water flow too high Season setting incorrect	Increase gas flow with the gas control knob Decrease water flow with the water control knob Set season knob to 'Winter' for higher heat
Unit cycles on and off rapidly	Insufficient water flow Overheat protection activated	Ensure consistent water flow and pressure Check for blockages in water lines; allow unit to cool
Gas smell detected	Gas leak	Immediately turn off gas supply. Ventilate the area. Perform gas leak test. Do not operate until leak is resolved by a qualified professional.

## 9. SPECIFICATIONS

Specification	Detail
Brand	VELPAX
Model Number	RSQ-16L
Capacity	16 Liters
Product Dimensions (H x W x D)	21.65 x 13.4 x 5.9 inches (55 x 34 x 15 cm)
Weight	7.68 kg (approx. 16.9 lbs)
Color	Black
Power Source	Propane Gas (LPG)
Ignition	2 x D-type Batteries
Heat Output	68,000 BTU/hour
Maximum Temperature	167°F (75°C)
Water Flow Rate	Up to 4.21 GPM
Minimum Water Pressure	3.6 PSI
Efficiency Class	A
Special Features	Multi-protection, Flame failure device, Frost protection, Overheat protection, Digital display
Included Components	Gas water heater, high-pressure shower head (5 modes), 1.5m stainless steel hose, shower holder

## 10. WARRANTY AND SUPPORT

Specific warranty information for the VELPAX 16L Propane Tankless Water Heater is not available in the provided product details. Please refer to the retailer's or manufacturer's website for the most current warranty terms and conditions.

For technical support or inquiries, please contact VELPAX customer service through the platform where the product was purchased or visit the official VELPAX website if available.