CAMPLUX ENJOY OUTDOOR LIFE BW422

CAMPLUX BW422 Outdoor Tankless Propane Water Heater User Manual

Model: BW422

1. Important Safety Information

Read and understand all instructions before installing or operating this appliance. Failure to follow these instructions could result in property damage, personal injury, or death.

General Safety Precautions:

- Ensure proper ventilation when operating the unit.
- Do not use Teflon tape between the gas regulator and the inlet pipe to avoid improper operation.
- Always check for gas leaks after connecting the gas supply.
- Keep flammable materials away from the water heater.
- This appliance is designed for outdoor use. If installed indoors, a flue pipe or duct and adequate ventilation are required.

Integrated Safety Protections:

The CAMPLUX BW422 is equipped with multiple safety features:

- **Overheat Protection:** Automatically shuts off gas supply if water temperature exceeds 167 °F (75 °C).
- **Dry Combustion Protection:** Prevents operation without water flow.
- **Anti-Freezing Protection:** The drain plug allows for complete water drainage to prevent freezing damage in cold environments.
- **Low Water Flow Protection:** Ensures the unit only operates with sufficient water pressure (4.0-110 PSI).
- **Flame Failure Protection:** Automatically cuts off gas if the flame extinguishes.
- **High Water Pressure Protection:** Designed to operate safely within specified water pressure limits.

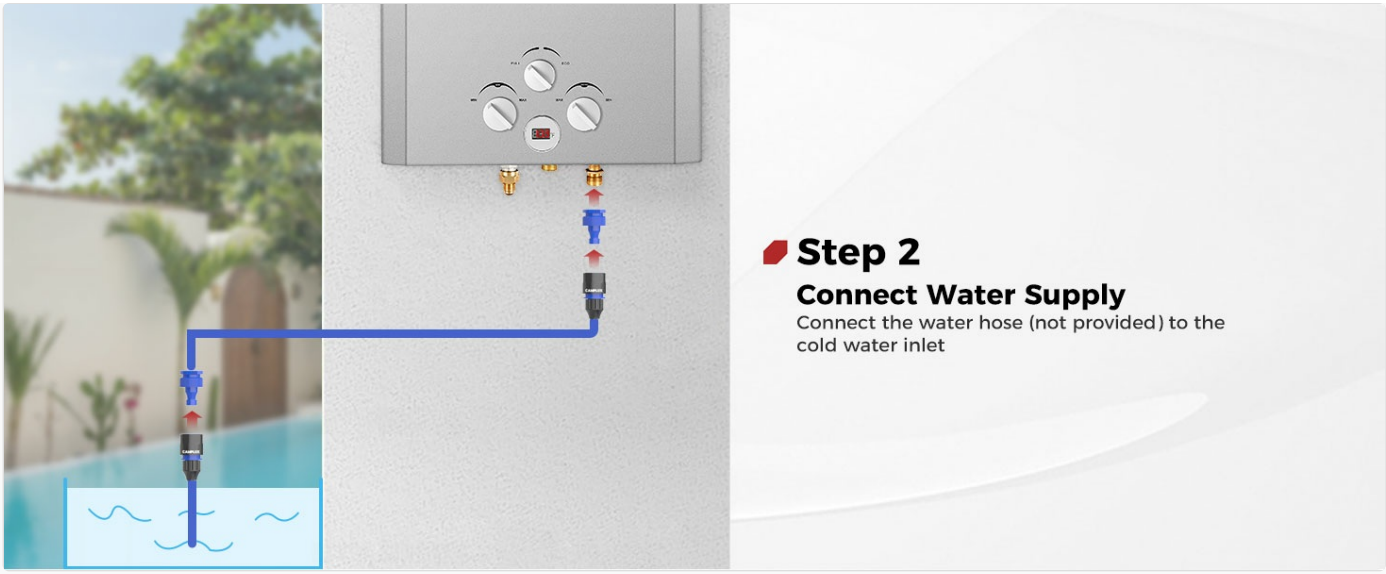


Figure 1: CAMPLUX BW422 6-in-1 Safety Protection Features

2. Product Overview

The CAMPLUX BW422 is an outdoor tankless propane water heater designed to provide instant hot water for various applications such as camping, remote cabins, tiny houses, and mobile homes. It offers a high flow rate and efficient heating performance.



Figure 2: CAMPLUX BW422 Tankless Water Heater

Key Features:

- **Instant Hot Water:** Delivers up to 4.22 gallons per minute (16L) of hot water.
- **High Heat Output:** 110,000 BTU/hour for efficient heating.
- **Wide Water Pressure Range:** Activates with water pressure between 4.0-110 PSI.
- **User-Friendly Interface:** Features an LED display and ECO/FULL knob for temperature control.

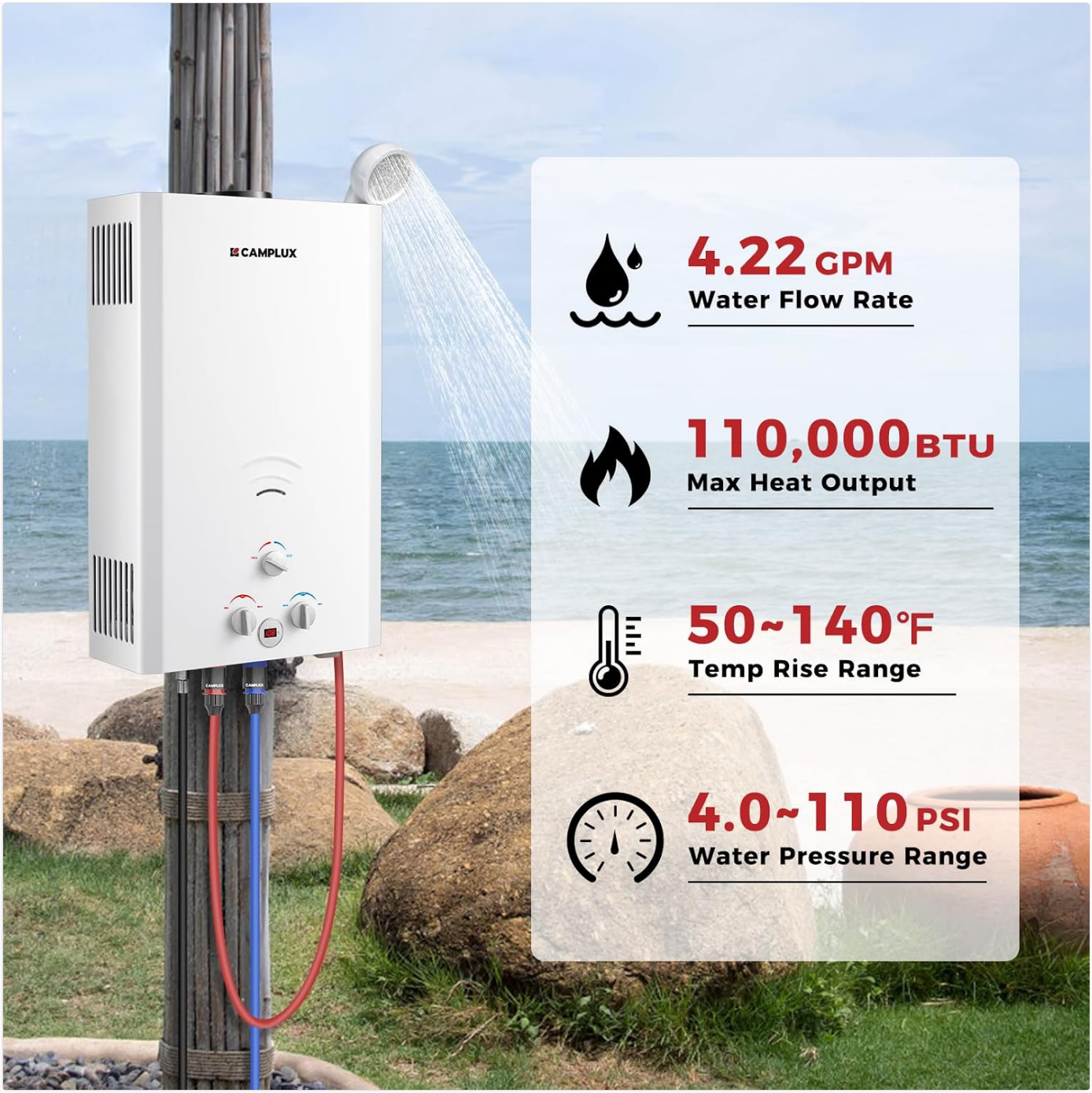


Figure 3: Performance Specifications

3. What's in the Box

The CAMPLUX BW422 package includes the following components:

- 1x CAMPLUX BW422 Tankless Water Heater
- 1x 5 feet CSA Certified Gas Regulator
- 1x 5 feet On/Off Switch Shower Head
- 1x 1/2" BSP Female * 3/4" GHT Male Garden Hose Adapter
- 1x 1/2" BSP Female to 5/8" NPT Male Flare Adapter
- Hardware Pack (for mounting)
- User Manual



Figure 4: Included Components

4. Installation Guide

Follow these steps for proper installation of your CAMPLUX BW422 water heater. Ensure all connections are secure and leak-free.

Step 1: Wall-Mounted Installation

Drive nails or screws into the wall at the desired location, then hang the water heater securely.



Figure 5: Wall-Mounted Installation

Step 2: Connect Water Supply

Connect a water hose (not provided) to the cold water inlet of the unit. Ensure a tight connection.



Figure 6: Water Supply Connection

Step 3: Connect Water Outlet

Connect the provided shower kit to the water outlet. Tighten the fitting, ensuring the gasket is properly seated to prevent leaks.



Figure 7: Water Outlet Connection

Step 4: Connect Gas Supply

Connect the 5-foot CSA certified gas regulator to a 20lb propane tank and then to the gas inlet on the water heater. Check all gas connections for leaks using a soapy water solution.



Figure 8: Gas Supply Connection

Step 5: Insert Batteries

Open the battery compartment and insert two D batteries. Ensure the battery polarity is correct (+/-) as indicated inside the compartment.



Figure 9: Battery Installation

5. Operation

Once installed, operating the CAMPLUX BW422 is straightforward.

Controls:



Figure 10: Control Panel and Drain Plug

- **LED Display:** Shows the current water temperature.
- **Water Flow Knob (Blue):** Adjusts the water flow rate. Higher flow rates may result in cooler water, while lower flow

rates allow for hotter water.

- **Gas Flow Knob (Red):** Adjusts the gas supply to the burner, controlling the flame intensity and thus the water temperature.
- **ECO/FULL Knob:** Selects between two heating modes.

Heating Modes:

- **ECO Mode:** Utilizes fewer burners for energy efficiency, suitable for warmer climates or when less hot water is needed.
- **FULL Mode:** Activates all burners for maximum heat output, ideal for colder climates or when higher water temperatures are desired.



Figure 11: ECO vs. FULL Mode

Starting the Unit:

1. Ensure the gas supply is open and batteries are correctly installed.
2. Turn on the water supply. The unit requires a minimum water pressure of 4.0 PSI to activate.

3. Adjust the water flow and gas knobs to achieve the desired temperature. The LED display will show the current output temperature.

6. Maintenance

Regular maintenance ensures the longevity and efficient operation of your water heater.

Draining for Cold Climates:

If the water heater is stored in a cold climate, it must be properly drained to prevent freeze damage to the heat exchanger or water valves. To drain:

1. Disconnect all incoming and outgoing water lines.
2. Open the drain plug located at the bottom right of the water heater by turning it counter-clockwise.
3. Allow all residual water to drain completely.
4. When not in use for extended periods, fully disconnect gas, incoming, and outgoing waterlines. Store the unit in a warm, dry place.

General Cleaning:

- Periodically inspect the exterior for dirt or debris and clean with a damp cloth.
- Check the water inlet filter screen for blockages and clean if necessary.

7. Troubleshooting

If you encounter issues with your water heater, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No hot water / Unit does not ignite	Low water pressure No gas supply Dead or incorrectly installed batteries Flame failure protection activated	Ensure water pressure is between 4.0-110 PSI Check propane tank and gas connections Replace batteries and verify polarity Check gas connections and ensure proper ventilation
Water is not hot enough	High water flow rate Gas flow knob set too low ECO mode selected in cold conditions	Reduce water flow using the blue knob Increase gas flow using the red knob Switch to FULL mode for maximum heat output
Unit shuts off unexpectedly	Overheat protection activated Low water flow Gas supply interrupted	Check water temperature and flow Ensure adequate water pressure Verify continuous gas supply
Water fittings leak	Loose connections Damaged gaskets	Tighten all water connections Inspect and replace any damaged gaskets

If troubleshooting steps do not resolve the issue, please contact customer support.

8. Technical Specifications

Specification	Value
Brand	CAMPLUX ENJOY OUTDOOR LIFE
Model Number	BW422LP
Product Dimensions (W x H)	17.32" x 27.56"
Item Weight	27 pounds
Wattage	32 KW
Voltage	3 Volts (2 D batteries required)
Maximum Flow Rate	4.22 Gallons Per Minute (16L)
Maximum Temperature	167 Degrees Fahrenheit
Heat Output	110,000 BTU per Hour
Maximum Operating Pressure	130 Pound per Square Inch
Mounting Type	Wall
Hose Length (Shower)	59 Inches
Certification	CSA 4.3-2019 ANSI Z21.10.3-2019

9. Warranty Information

The CAMPLUX BW422 Outdoor Tankless Propane Water Heater comes with a**1 Year Warranty** from the date of purchase. Please retain your proof of purchase for warranty claims. The warranty covers manufacturing defects under normal use conditions.

Damage resulting from improper installation, misuse, neglect, freezing, or unauthorized modifications is not covered under warranty.

10. Customer Support

For technical support, questions, or concerns regarding your CAMPLUX BW422 water heater, please contact CAMPLUX customer service:

- **Phone:** (844) 538-7475
- **Online:** Contact us through the Amazon platform or visit the official CAMPLUX website.

Our dedicated support team is available to assist you with any issues to ensure a seamless experience with your water heater.

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Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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