

EZ Tankless EZ Ultra HE

EZ Tankless EZ Ultra HE Propane Gas Indoor Condensing Tankless Water Heater User Manual

Model: EZ Ultra HE

1. PRODUCT OVERVIEW

The EZ Ultra HE is an advanced Propane (LPG) Gas Indoor Condensing Tankless Water Heater designed to provide continuous hot water for residential use. This unit incorporates condensing technology for enhanced efficiency and features a digital display for easy temperature control. It is suitable for homes with one to two bathrooms.

Key features include:

- **Condensing Technology:** Utilizes exhaust gas to preheat incoming water, increasing energy efficiency.
- **Digital Display:** Key touch controls for temperature settings and on/off switch.
- **Automatic Temperature Modulation:** Maintains a consistent outlet temperature by adjusting gas, fan, and water flow.
- **Low Water Pressure Ignition:** Operates effectively at water pressures as low as 8 PSI, suitable for well water systems or high altitudes.
- **Safety Features:** Automatic ignition, water flow sensor, and gas valve shut-off upon water supply interruption.
- **Flexible Venting:** Can be vented horizontally or vertically using 2-inch Solid Core Schedule 40 PVC/CPVC.

2. SAFETY INFORMATION

Read all instructions thoroughly before installation and operation. Failure to follow these instructions could result in property damage, personal injury, or death.

- **Professional Installation Required:** For safety and warranty compliance, this appliance must be installed by a qualified, licensed professional in accordance with all local and national codes.
- **Gas Safety:** This unit uses propane gas. Ensure proper ventilation and check for gas leaks after installation. Do not store flammable materials near the water heater.
- **Carbon Monoxide:** Improper venting can lead to carbon monoxide poisoning. Ensure the venting system is correctly installed and sealed. Install carbon monoxide detectors in your home.
- **Water Temperature:** Hot water can cause severe burns. Set the temperature to a safe level, typically below 120°F (49°C) for most household uses, especially where children or elderly individuals are present.

- **Electrical Safety:** Ensure the unit is properly grounded and connected to a dedicated circuit as specified in the electrical requirements.
- **Location:** Install the unit indoors in a location protected from freezing temperatures and with adequate clearance for maintenance.

3. INSTALLATION AND SETUP

3.1 Included Components

Verify that all components are present before beginning installation:

- EZ Ultra HE Tankless Water Heater Unit
- Back-draft Prevention Device
- Flue Pipe
- Condensation Drain Pipe
- Lower Baffle
- 3x NPT Connectors
- Mounting Screw Set

3.2 Mounting the Unit

The EZ Ultra HE is designed for wall mounting. Select a sturdy vertical surface capable of supporting the unit's weight (approximately 31 pounds). Ensure adequate clearance around the unit for ventilation and future servicing.



Figure 3.2.1: Front view of the EZ Ultra HE tankless water heater.

3.3 Water Connections

Connect the cold water inlet and hot water outlet to the appropriate ports on the bottom of the unit. Use the provided NPT connectors. Ensure all connections are watertight.



Figure 3.3.1: Bottom connections for water and gas.

3.4 Gas Connection

Connect the propane (LPG) gas supply line to the gas inlet on the bottom of the unit. Use appropriate gas fittings and ensure all connections are leak-free. A qualified gas technician must perform this connection.

3.5 Venting System Installation

The EZ Ultra HE requires a proper venting system to exhaust combustion gases. The unit can be vented horizontally or vertically using 2-inch Solid Core Schedule 40 PVC/CPVC. Install the flue pipe, back-draft prevention device, and condensation drain pipe according to the detailed instructions in the full installation manual.

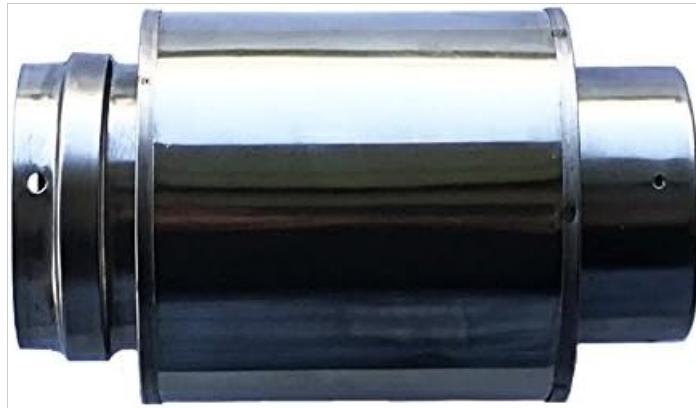


Figure 3.5.1: Example of a flue pipe component.



Figure 3.5.2: Example of a horizontal vent pipe.

3.6 Electrical Connection

Connect the unit to a 110V 60Hz electrical supply. Ensure the circuit meets the wattage requirements (48 watts) and

is properly grounded. This connection powers the digital display, fan, and control system.

4. OPERATING INSTRUCTIONS

4.1 Powering On/Off

Press the power button on the digital display to turn the unit on or off. The display will illuminate when the unit is active.

4.2 Setting Water Temperature

Use the 'Up' and 'Down' arrow buttons on the digital display to adjust the desired hot water outlet temperature. The unit will automatically remember the last temperature setting upon restart.

4.3 Automatic Operation

Once the unit is powered on and a water tap is opened, the water heater will automatically ignite and begin heating water to the set temperature. The unit's intelligent control system will modulate gas flow, fan speed, and water flow to maintain a consistent temperature. When the tap is closed, the unit will automatically extinguish.

5. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your tankless water heater. Always disconnect power and shut off the gas and water supply before performing any maintenance.

- **Descaling:** Depending on your water quality, the unit may require periodic descaling to remove mineral buildup. This typically involves circulating a descaling solution through the heat exchanger. Consult a professional for this service, usually annually or biennially.
- **Vent System Inspection:** Annually inspect the venting system for any obstructions, leaks, or corrosion. Ensure all connections are secure.
- **Inlet Water Filter:** Check and clean the inlet water filter periodically to prevent debris from entering the unit.
- **External Cleaning:** Keep the exterior of the unit clean and free from dust and debris. Do not use abrasive cleaners.

6. TROUBLESHOOTING

If you encounter issues with your EZ Ultra HE water heater, refer to the following common troubleshooting steps. For persistent problems, contact a qualified technician.

- **No Hot Water:**
 - Check if the unit is powered on and receiving electricity.
 - Verify the gas supply is open and the propane tank is not empty.
 - Ensure water flow is sufficient to activate the unit (minimum 0.5 GPM).
 - Check for any error codes displayed on the digital panel.
- **Inconsistent Water Temperature:**
 - Ensure the incoming cold water temperature is stable.
 - Check for mineral buildup in the heat exchanger (descaling may be needed).
 - Verify that the water flow rate is within the unit's operating range.
- **Unit Not Igniting:**

- Confirm gas supply and pressure are adequate.
 - Check for proper electrical connection and power.
 - Ensure the water inlet filter is clean and not obstructed.
- **Error Codes:** Refer to the comprehensive manual for a list of specific error codes and their corresponding solutions.

7. SPECIFICATIONS

Feature	Specification
Brand	EZ Tankless
Model Number	EZ Ultra HE
Product Dimensions	6.5"W x 27"H
Item Depth	6.5 inches
Item Weight	31 pounds
Power Source	Propane (LPG) Gas, 110V 60Hz Electrical
Wattage	48 watts
Maximum Flow Rate	3.4 Gallons Per Minute
Efficiency	92% or greater
Mounting Type	Wall
Special Feature	Vented, Condensing
Maximum Power	20 Kilowatts
UPC	857618005145

8. WARRANTY AND SUPPORT

8.1 Warranty Information

The EZ Ultra HE tankless water heater is covered by a manufacturer's warranty. To ensure your warranty remains valid, it is imperative that the unit is installed by a state-certified and licensed professional in accordance with all applicable local and national codes. Improper installation by an unqualified individual may void the warranty. Please refer to the warranty documentation included with your product for specific terms, conditions, and duration of coverage.

8.2 Customer Support

For technical assistance, troubleshooting guidance, or warranty claims, please contact EZ Tankless customer support. Have your model number (EZ Ultra HE) and purchase date available when contacting support. Contact information can typically be found on the manufacturer's website or in the product packaging.

