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› LiberLive HKRV-HR2110 Natural Gas Tankless Water Heater User Manual

## LiberLive HKRV-HR2110

# LiberLive HKRV-HR2110 Natural Gas Tankless Water Heater User Manual

Indoor Max 3.6 GPM, 85,000 BTU On Demand Instant Hot Water Heater with LED Temperature Control Panel

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your LiberLive HKRV-HR2110 Natural Gas Tankless Water Heater. Please read all instructions carefully before installation and use. Retain this manual for future reference.

The LiberLive HKRV-HR2110 is designed to deliver a continuous supply of hot water, providing up to 3.6 Gallons Per Minute (GPM) and 85,000 British Thermal Units (BTU) of heating power. This unit is suitable for indoor installation and features an LED temperature control panel for precise adjustments.

## 2. IMPORTANT SAFETY INFORMATION

**WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury, or death. Read the installation, operating, and maintenance instructions thoroughly before installing or servicing this equipment.**

Your LiberLive tankless water heater is CSA certified and incorporates multiple safety features:

- **Flame Out Protection:** Automatically shuts off gas supply if the flame is extinguished.
- **Timeout Protection:** Prevents continuous operation beyond a safe duration.
- **Overheating Protection:** Activates if water temperature exceeds safe limits.
- **Dry Burning Protection:** Prevents operation without sufficient water flow.
- **Anti-Freeze Protection:** Helps prevent freezing in cold environments.
- **Pipe Blockage Protection:** Detects and responds to blockages in water lines.
- **Water Pressure Protection:** Monitors and regulates water pressure.
- **Excessive Air Pressure Protection:** Ensures safe air pressure levels for combustion.

### Professional Installation Required:

Installation of this appliance **must** be performed by a licensed plumber or contractor in accordance with all local building and plumbing codes. Failure to do so may void the warranty and create hazardous conditions.

# Multi-Layered Safety Protection



Image: Multi-layered safety protection features of the LiberLive tankless water heater, including flame out, timeout, overheating, dry burning, anti-freeze, pipe blockage, water pressure, and excessive air pressure protection.

## 3. PRODUCT OVERVIEW AND KEY FEATURES

The LiberLive HKRV-HR2110 tankless water heater is designed for efficiency and convenience, providing hot water on demand without the need for a storage tank.

### 3.1. Endless Hot Water Supply

This unit delivers a maximum of 3.6 GPM and 85,000 BTU, capable of supplying hot water to 2-3 fixtures simultaneously, such as a shower, kitchen sink, and bar sink. This eliminates waiting for hot water and ensures a continuous supply.

# Enjoy Endless Hot Water Supply

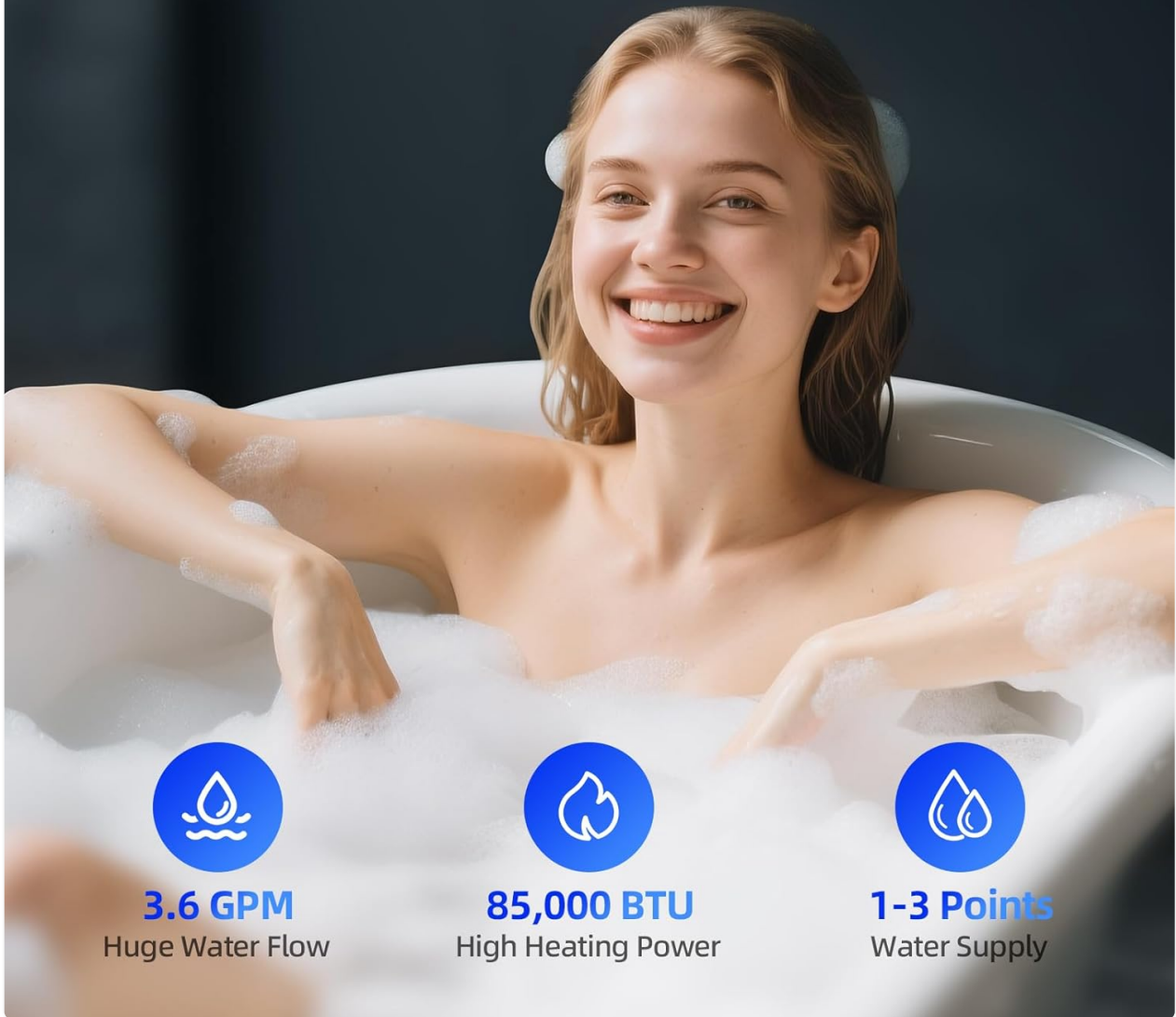


Image: A woman in a bathtub, illustrating the continuous hot water supply. Icons highlight 3.6 GPM flow, 85,000 BTU heating power, and capacity for 1-3 simultaneous water points.

## 3.2. Stable Temperature Control

Equipped with advanced temperature control technology, the unit maintains a consistent water temperature, preventing sudden fluctuations. This ensures a comfortable and safe experience, especially for children or infants.

## 3.3. Energy Efficiency

By heating water only when needed, the on-demand system reduces standby energy loss common with traditional tank heaters. This contributes to lower gas and electric bills and a reduced carbon footprint. The unit features an oxygen-free copper tank to minimize heat loss and boost energy efficiency.

## 3.4. Compact and Space-Saving Design

The wall-mounted design of the LiberLive HKRV-HR2110 is ideal for smaller spaces, apartments, or homes undergoing renovation. It frees up valuable floor space in areas like laundry rooms, bathrooms, or kitchens.

# Compact & Space-Saving Design



Image: The compact LiberLive tankless water heater integrated into a kitchen cabinet, demonstrating its space-saving design.

## 3.5. Internal Components

The unit is engineered for reliability and durability, featuring:

- **High-Speed DC Fan:** Ensures stable operation even in strong winds and promotes efficient combustion.
- **Premium Oxygen-Free Copper Heat Exchanger:** Provides superior heat transfer efficiency and corrosion resistance.
- **T-304 Stainless Steel Burners:** Multi-stage combustion for maximum efficiency.
- **Advanced Temperature Sensor:** Enhances safety and prevents scalding by detecting subtle temperature changes.

# Engineered for Reliability & Durability

Premium components for superior performance



Image: An exploded view diagram of the water heater, highlighting key internal components such as the high-speed DC fan, oxygen-free copper heat exchanger, T-304 stainless steel burners, and advanced temperature sensor.

## 4. SPECIFICATIONS

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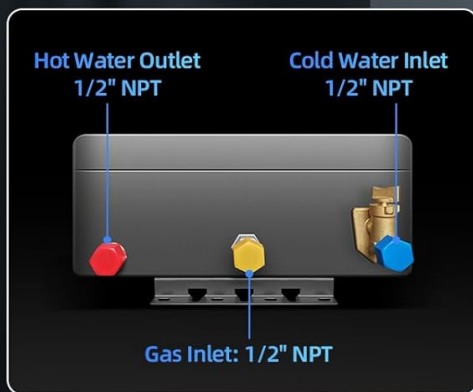
# Product Information

Gas Source:  
**Natural Gas**

Rated Flow Rate:  
**3.6 GPM**

Heating Power:  
**85,000 BTU**

Temp. Rise Range:  
**95°F~149°F / 35°C~65°C**



**Note: This water heater does not come with a vent pipe; you need to prepare your own vent pipe with a diameter of 2.99 inch(76mm)**

Image: A detailed diagram outlining the product's dimensions (14.2"W x 22.1"H x 6.7"D), gas source (Natural Gas), rated flow rate (3.6 GPM), heating power (85,000 BTU), and temperature rise range (95°F-149°F / 35°C-65°C). It also shows the 1/2" NPT connections for hot water outlet, cold water inlet, and gas inlet.

Feature	Description
Brand	LiberLive
Model Number	HKRV-HR2110
Product Dimensions	14.2"W x 22.1"H x 6.7"D
Gas Source	Natural Gas
Rated Flow Rate	3.6 Gallons Per Minute (GPM)
Heating Power	85,000 British Thermal Units (BTU)
Temperature Range	95°F - 149°F (35°C - 65°C)
Voltage	120 Volts AC

Feature	Description
NPT Connector Size	1/2" NPT (Hot Water Outlet, Cold Water Inlet, Gas Inlet)
Mounting Type	Wall-mounted
Item Weight	24.2 pounds
Certifications	CSA Certified

## 5. SETUP AND INSTALLATION

**IMPORTANT: Installation must be performed by a licensed plumber/contractor to ensure compliance with local building and plumbing codes and for safety.**

### 5.1. Pre-Installation Checklist

- Ensure the installation location is indoors and has adequate ventilation.
- Verify that the gas supply is Natural Gas, matching the unit's requirements.
- Confirm availability of a 120V AC power outlet.
- Prepare a vent pipe with a standard 3-inch (75mm) outer diameter. **Note: Vent pipe and water valve kit are not included.**
- Ensure the location is not above 2,000 feet elevation, as this may impact performance.

### 5.2. Mounting the Unit

1. Select a suitable wall location that can support the unit's weight and is near gas, water, and electrical connections.
2. Use the provided mounting hardware (screws and anchor bolts) to securely attach the unit to the wall.

### 5.3. Connecting Water and Gas Lines

1. Connect the cold water inlet (1/2" NPT) to your main cold water supply.
2. Connect the hot water outlet (1/2" NPT) to your household hot water distribution system.
3. Connect the natural gas inlet (1/2" NPT) to your natural gas supply. Ensure all gas connections are leak-free and comply with local codes.

### 5.4. Venting

1. Install the 3-inch diameter vent pipe to the exhaust port on top of the unit. Ensure proper sealing and routing to the outside, following all manufacturer and local code requirements for gas appliance venting.

### 5.5. Electrical Connection

1. Plug the unit's power cord into a standard 120V AC electrical outlet.

# Intelligent Temperature Control

Powered by a high-precision computer chip, it instantly detects and adjusts to every water temperature change—keeping your water consistently comfortable and stable

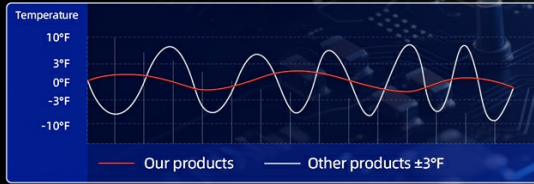


Image: An installation diagram showing the water heater connected to various points in a house (kitchen, laundry, bathroom) with 1/2" NPT hot water outlet, cold water inlet, and gas inlet. A note indicates that the vent pipe (3-inch diameter) is not included and must be prepared separately.

## 6. OPERATING INSTRUCTIONS

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The LiberLive HKRV-HR2110 features an intuitive LED display and touch controls for easy operation.

### 6.1. Control Panel Overview

# Intelligent Touchscreen Control

Precise, effortless temperature settings



Image: A close-up of the water heater's intelligent touchscreen control panel, showing the digital temperature display (e.g., 108°F), temperature unit indicator (°C/°F), and control buttons for 'Heat up' (up arrow), 'Heat down' (down arrow), and 'Switch' (power icon). Signal indicators for shower, fan, and flame are also visible.

- **Temperature Setting Display:** Shows the current or set water temperature.
- **Temperature Unit:** Indicates whether the temperature is displayed in Celsius (°C) or Fahrenheit (°F).
- **Up Arrow (Heat up):** Increases the desired water temperature.
- **Down Arrow (Heat down):** Decreases the desired water temperature.
- **Power Icon (Switch):** Turns the unit on or off.
- **Signal Indicators:** Icons for Shower, Fan, and Flame provide operational status.

## 6.2. Adjusting Temperature

1. Ensure the unit is powered on.
2. Press the **Up Arrow** or **Down Arrow** buttons to adjust the desired water temperature. The display will show the new setting.
3. The unit will automatically adjust its heating to reach and maintain the set temperature as water flows through.

## 7. MAINTENANCE

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Regular maintenance ensures optimal performance and longevity of your tankless water heater. It is recommended to have a licensed professional perform annual maintenance.

### 7.1. Annual Flushing

To prevent mineral buildup (scaling) which can reduce efficiency and damage the unit, it is recommended to flush the heat exchanger annually with a descaling solution. Consult your licensed plumber for this procedure.

### 7.2. Inspecting Connections

Periodically check all gas and water connections for any signs of leaks or corrosion. Tighten connections as necessary. If a gas leak is suspected, immediately shut off the gas supply and contact a qualified technician.

### 7.3. Cleaning the Exterior

Wipe the exterior of the unit with a soft, damp cloth. Do not use abrasive cleaners or solvents.

### 7.4. Venting System Check

Ensure the vent pipe is clear of obstructions and properly sealed. Check for any signs of damage or deterioration.

## 8. TROUBLESHOOTING

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If you experience issues with your water heater, refer to the following common troubleshooting steps. For complex problems, contact customer support or a licensed professional.

- **No Hot Water:**
  - Check if the unit is powered on and receiving gas supply.
  - Ensure water flow is sufficient to activate the heater (minimum flow rate required).
  - Verify temperature settings on the LED control panel.
- **Inconsistent Water Temperature:**
  - Check for proper water pressure.
  - Ensure no other hot water fixtures are drawing water simultaneously if the unit's capacity is being exceeded.
  - Consider if mineral buildup might be affecting performance (requires professional flushing).
- **Error Codes on Display:**
  - Refer to the full user manual for a list of specific error codes and their corresponding solutions.
  - Often, turning the unit off and on again (power cycling) can resolve temporary errors.
- **Unit Not Turning On:**
  - Check the electrical connection and ensure the outlet is functional.
  - Verify the gas supply valve is open.

## 9. WARRANTY AND CUSTOMER SUPPORT

## 9.1. Warranty Information

The LiberLive natural gas water heater comes with a comprehensive **2-year warranty** that covers the entire unit. Please retain your proof of purchase for warranty claims.

## 9.2. Customer Support

Our dedicated customer support team is available 24/7 to address any questions or concerns you may have regarding your LiberLive product. For assistance, please refer to the contact information provided in your product packaging or visit the official LiberLive website.



Image: Customer support team members working, indicating 24/7 availability for assistance.