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Rinnai CX199iN

Rinnai CX199iN Condensing Smart Sense Tankless Water Heater User Manual

Model: CX199iN

1. INTRODUCTION AND OVERVIEW

The Rinnai CX199iN Condensing Smart Sense Tankless Water Heater is designed for commercial applications and large residential homes requiring high hot water demand. This unit provides continuous hot water, eliminating the need for a storage tank and offering significant space savings.

Key features include a 97% thermal efficiency rating, an output of 11.1 gallons per minute (GPM), and Smart Sense Gas Valve Technology. This technology automatically adjusts the unit to operate with either natural gas or propane, removing the need for manual conversion kits. The CX199iN also supports Smart Circ Intelligent Recirculation with an optional internal pump kit (sold separately) and features a Quick Flush system for simplified maintenance. Its versatile design allows for easy conversion between indoor and outdoor installations using the optional Versa-Vent outdoor vent cap (sold separately).

2. 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.

- This appliance must be installed by a qualified professional in accordance with all local codes and regulations.
- Ensure adequate ventilation is provided as specified in the installation manual to prevent carbon monoxide accumulation.
- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- Never obstruct the flow of combustion and ventilation air.
- Regularly inspect the unit for any signs of damage or leaks.

3. SETUP AND INSTALLATION

The Rinnai CX199iN is designed for flexible installation, supporting both indoor and outdoor setups. For outdoor installation, the optional Versa-Vent outdoor vent cap (sold separately) is required. The Smart Sense Gas Valve Technology automatically adapts the unit for use with either natural gas or propane, eliminating the need for a separate conversion kit.

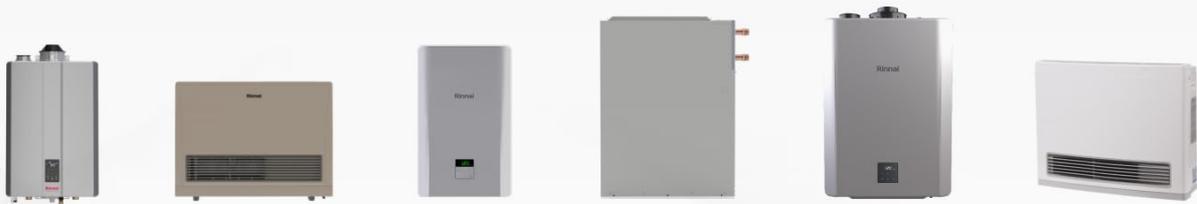
Professional installation is strongly recommended to ensure proper setup, adherence to safety standards, and optimal performance. An optional internal pump kit is available for Smart Circ Intelligent Recirculation, which can be integrated during installation.

For detailed installation instructions, including venting requirements, gas line sizing, and water connections, refer to the comprehensive installation manual provided with the unit. The Rinnai Central App can assist with initial setup and configuration via Bluetooth.

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2025 Consumer National Propane Rebate

- SENSEI™ and Condensing Tankless Water Heaters
- RE•SERIES™ Non-Condensing Tankless Water Heaters
- Non-Condensing Value Series Tankless Water Heaters
- Commercial Water Heating Products
- Condensing Boilers-Natural Gas
- EnergySaver® Direct Vent Heaters
- Hydronic Air Handler
- Vent-Free Fan Convectors
- Commercial Water Heating Products
- Heat Pump Companion Kit



[Rinnai Rebate Website](#)

Figure 3.1: Front view of the Rinnai CX199iN tankless water heater, showing its compact design.

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Front Panel View



Figure 3.2: Front view of the Rinnai CX199iN tankless water heater with key dimensions for planning installation space.

Bottom View

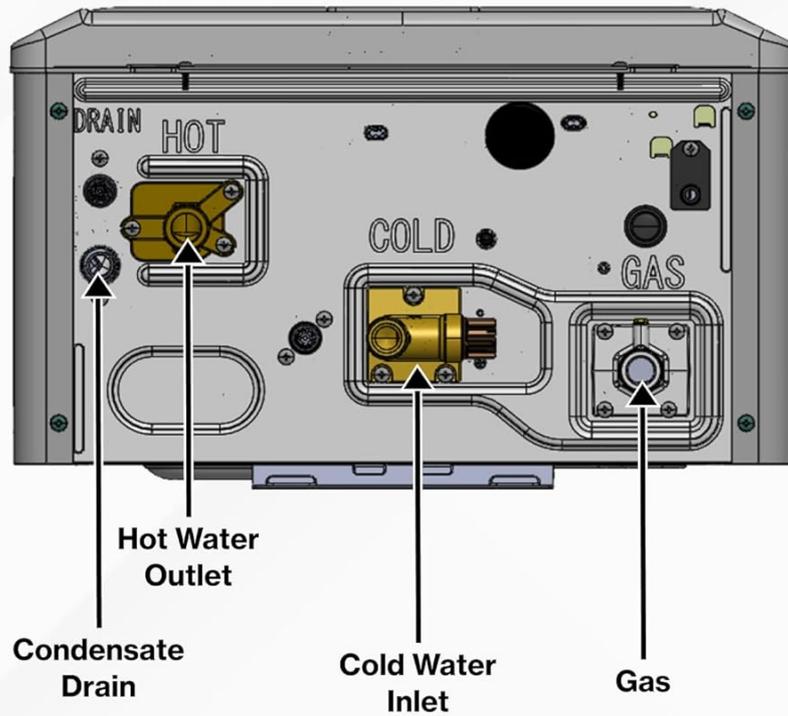


Figure 3.3: Bottom view of the Rinnai CX199iN, illustrating the cold water inlet, hot water outlet, gas connection, and condensate drain points.

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Controller



**Vent
Connections**



**Supply
Connections**

Figure 3.4: Detailed view of the unit's controller, top vent connections for exhaust and air intake, and bottom supply connections for water and gas.

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Video 3.1: An overview of the Rinnai SENSEI CX series, highlighting its features and design. This video provides a visual introduction to the product line, including the CX199iN model.

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Video 3.2: This video explains Rinnai's Smart Sense technology, detailing how the gas valve automatically adjusts for natural gas or propane without manual conversion, ensuring optimal combustion.

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Video 3.3: An introduction to the Rinnai Versa-Vent system, demonstrating how it enables flexible indoor-to-outdoor installation for compatible tankless water heaters.

4. OPERATING INSTRUCTIONS

The Rinnai CX199iN operates on demand, providing hot water only when needed. This eliminates standby heat loss associated with traditional tank water heaters.

4.1 Temperature Setting

The desired water temperature can be set directly on the unit's digital display. Use the up and down arrows to adjust the temperature. The display shows the current set temperature in Fahrenheit or Celsius.



Figure 4.1: Digital display on the Rinnai CX199iN, indicating the set water temperature and control buttons.

4.2 Rinnai Central App

The Rinnai Central App, accessible via Bluetooth, allows for convenient monitoring and management of your water heater from a smartphone. This includes setting schedules, adjusting temperatures, and receiving alerts.

4.3 Smart Circ Intelligent Recirculation (Optional)

If equipped with the optional internal pump kit, the Smart Circ feature provides intelligent hot water recirculation, ensuring hot water is available more quickly at the tap, further enhancing user convenience and efficiency.

5. MAINTENANCE

Regular maintenance is crucial for the longevity and efficient operation of your Rinnai CX199iN water heater. The unit features a Quick Flush system designed to simplify periodic preventive maintenance.

5.1 Quick Flush System

The Quick Flush system facilitates easy descaling of the heat exchanger, which is essential for preventing mineral buildup, especially in areas with hard water. Refer to the detailed instructions in the full owner's manual for the proper procedure and frequency of flushing.

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Video 5.1: This video provides an overview of the Rinnai SENSEI CXP series, which includes the Quick Flush system. It demonstrates the ease of performing periodic preventive maintenance tasks.

5.2 General Maintenance Tips

- Keep the area around the water heater clear of obstructions.
- Periodically check the air intake and exhaust vents for blockages.
- For any complex maintenance or repairs, contact a qualified Rinnai service technician.

6. TROUBLESHOOTING

If your Rinnai CX199iN water heater is not functioning correctly, consult the following basic troubleshooting steps. For more complex issues, refer to the detailed troubleshooting guide in the owner's manual or contact Rinnai customer support.

6.1 Common Issues

- **No Hot Water:** Check if the unit has power and if the gas supply valve is open. Ensure water is flowing through the unit.
- **Inconsistent Water Temperature:** Verify that the set temperature is appropriate. Check for proper water flow rates.
- **Error Codes:** If an error code appears on the digital display, note the code and consult the owner's manual for specific diagnostic information and recommended actions.

The Rinnai Central App can also provide diagnostic information and troubleshooting assistance directly to your smartphone.

7. SPECIFICATIONS

Below are the key specifications for the Rinnai CX199iN Condensing Smart Sense Tankless Water Heater:

Feature	Specification
Brand	Rinnai
Model Number	CX199iN
Product Dimensions (W x H)	18.5" x 30.11"
Item Depth	15 inches
Item Weight	59.8 pounds
Color	Silver
Power Source	Natural Gas or Propane (Smart Sense)
Maximum Flow Rate	11.1 Gallons Per Minute
Maximum Temperature	185 Degrees Fahrenheit
Efficiency	97% Thermal Efficiency
Mounting Type	Wall
Voltage	120 Volts
Wattage	600 watts
Smart Home Compatibility	Smart Home Compatible (via Rinnai Central App)
Included Components	Tankless Water Heater Sensei CX 11 GPM
UPC	766156017384

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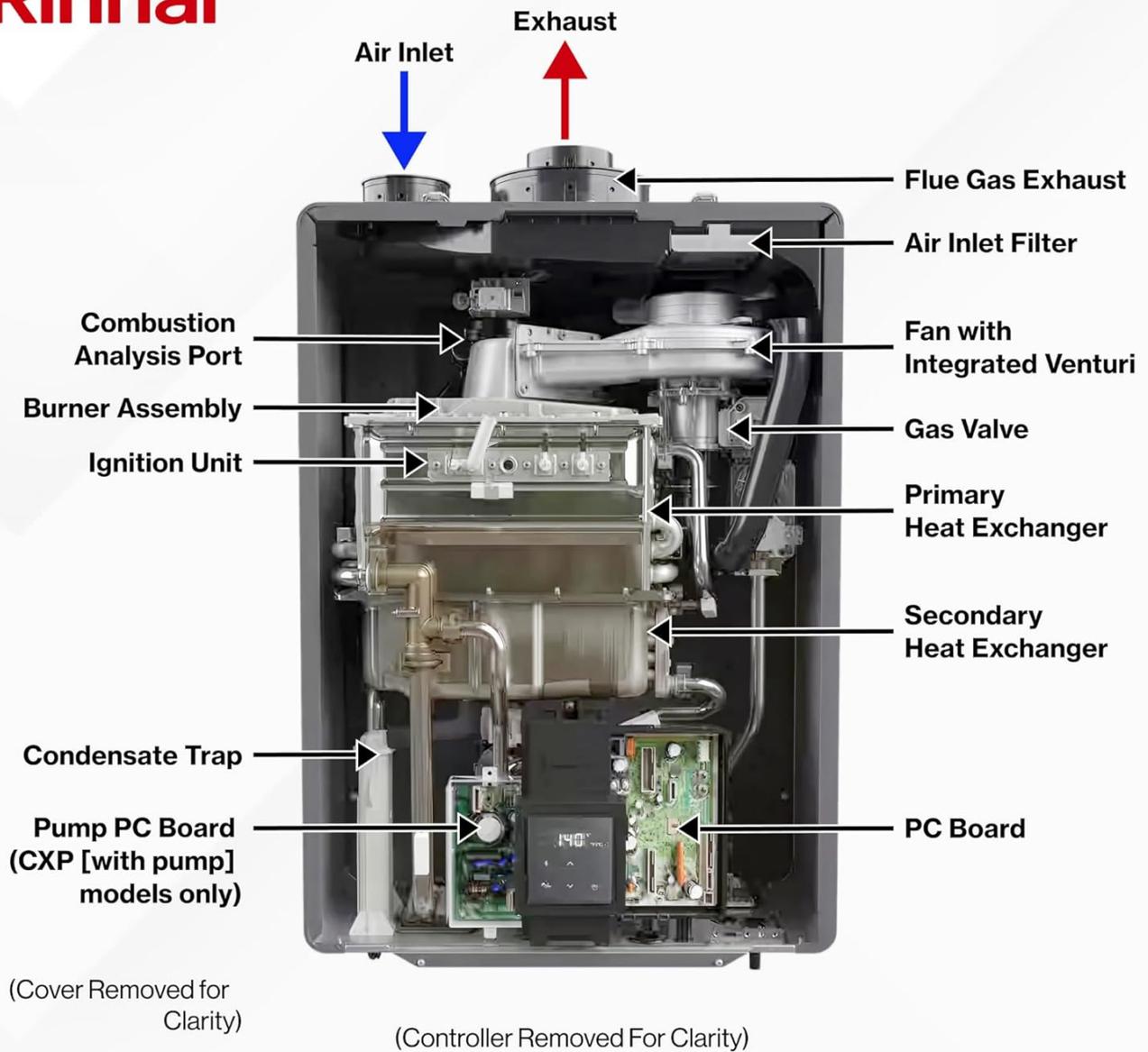


Figure 7.1: Internal component diagram of the Rinnai CX199iN, showing the flue gas exhaust, air inlet filter, fan, gas valve, heat exchangers, condensate trap, and PC board.

8. WARRANTY AND SUPPORT

Rinnai is committed to providing high-quality, safe, and efficient appliances. Every product undergoes rigorous quality testing.

8.1 Warranty Information

For specific warranty details, including coverage periods and terms, please refer to the warranty documentation included with your product or visit the official Rinnai website. Product registration within 90 days of purchase may extend labor coverage.

8.2 Customer Support

For technical assistance, troubleshooting, or to locate a qualified service technician, please contact Rinnai customer support. The Rinnai Central App also offers resources for monitoring, management, and professional assistance.

Visit the [Rinnai Brand Store](#) for additional product information and support resources.

