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> Noritz NRCB199DV-LP Combination Boiler User Manual

Noritz NRCB199DV-LP

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User Manual

INTRODUCTION

This manual provides comprehensive instructions for the safe and efficient installation, operation, and maintenance of your Noritz NRCB199DV-LP Indoor Direct Vent Combination Boiler. Please read this manual thoroughly before attempting any installation or operation. Retain this manual for future reference.

The Noritz NRCB199DV-LP is designed to provide both domestic hot water (DHW) and space heating for residential applications. It features a direct vent system and is fueled by propane.

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.

Always adhere to local codes and regulations. Installation and service must be performed by a qualified installer, service agency, or gas supplier.

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- If you smell gas:
 - a. Do not try to light any appliance.
 - b. Do not touch any electrical switch; do not use any phone in your building.
 - c. Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
 - d. If you cannot reach your gas supplier, call the fire department.
- Ensure proper ventilation and never block air openings.
- Keep the area around the appliance clear and free from combustible materials.

PRODUCT OVERVIEW

The Noritz NRCB199DV-LP is a high-efficiency combination boiler designed for indoor installation with direct venting. Key features include:

- Simultaneous domestic hot water and space heating.
- Superior temperature stability for domestic hot water.
- Built-in pump for heating circulation.
- Clean burner technology.
- Easy installation with included wall bracket.



Image: Front view of the Noritz NRCB199DV-LP Combination Boiler, showing its compact design suitable for wall mounting.

SETUP AND INSTALLATION

Installation must be performed by a qualified professional in accordance with all national and local codes. This section provides a general overview; refer to the detailed installation manual provided with the unit for complete instructions.

Pre-Installation Checks

- Verify that the unit is the correct model (NRCB199DV-LP) and fuel type (Propane).
- Ensure adequate clearance for servicing and ventilation.
- Confirm availability of proper gas, water, electrical, and venting connections.
- Inspect the unit for any shipping damage.

Mounting

The boiler is designed for wall mounting. Use the provided wall bracket and appropriate fasteners to secure the unit to a structurally sound wall. Ensure the unit is level.

Connections

1. **Gas Connection:** Connect the propane supply line to the boiler's gas inlet. Ensure all connections are leak-free and meet local codes.
2. **Water Connections:** Connect the cold water inlet, hot water outlet, heating supply, and heating return lines. Install shut-off valves and a pressure relief valve as required.
3. **Venting:** Install the direct vent system according to the manufacturer's instructions, ensuring proper slope and sealing.
4. **Electrical Connection:** Connect the boiler to a dedicated 120V AC power supply.
5. **Condensate Drain:** Connect the condensate drain line to an approved drainage system.

Initial Startup

After all connections are made and checked, purge air from the water lines. Open the gas supply and perform a leak test. Power on the unit and follow the initial startup sequence outlined in the full installation manual to ensure proper operation and safety checks.

OPERATING INSTRUCTIONS

This section covers the basic operation of your Noritz NRCB199DV-LP combination boiler.

Control Panel Overview

The boiler features a digital display and control buttons for adjusting settings. Refer to the detailed operating manual for specific button functions and menu navigation.

Setting Domestic Hot Water (DHW) Temperature

Use the control panel to set your desired hot water temperature. The boiler will maintain this temperature for domestic use. Typical settings range from 100°F to 120°F (38°C to 49°C).

Setting Space Heating Temperature

The space heating temperature is typically controlled by an external thermostat connected to the boiler. Set your desired room temperature on the thermostat. The boiler will modulate its output to meet the heating demand.

Operating Modes

Your boiler may have various operating modes, such as:

- **Heating Only:** Provides space heating without prioritizing DHW.
- **DHW Only:** Provides domestic hot water without space heating.
- **Combi Mode:** Prioritizes DHW when there is a demand, then switches to space heating.
- **Standby:** The unit is powered on but not actively heating.

Consult your full operating manual for instructions on how to select and adjust these modes.

MAINTENANCE

Regular maintenance is crucial for the longevity and efficient operation of your Noritz NRCB199DV-LP boiler. Always disconnect power before performing any maintenance.

Annual Professional Servicing

It is highly recommended to have your boiler inspected and serviced annually by a qualified Noritz service technician. This includes:

- Checking and cleaning the burner and heat exchanger.
- Inspecting the venting system for blockages or leaks.
- Verifying gas pressure and combustion efficiency.
- Checking all water and gas connections for leaks.
- Inspecting the condensate drain system.
- Testing safety devices.

User Maintenance (Monthly/Quarterly)

- **Visual Inspection:** Check for any visible leaks, corrosion, or unusual noises.
- **Clearance:** Ensure the area around the boiler remains clear of obstructions and combustible materials.
- **Condensate Drain:** Verify that the condensate drain line is not blocked and is draining properly.
- **Pressure Gauge:** Monitor the system pressure gauge. It should typically be between 12-18 psi when cold.

TROUBLESHOOTING

This section provides solutions for common issues. For complex problems or if an error code persists, contact a qualified service technician.

Problem	Possible Cause	Solution
No hot water or insufficient hot water.	Thermostat set too low. Gas supply off. Water flow rate too high. Boiler in standby mode.	Adjust DHW temperature setting. Check gas valve. Reduce hot water demand. Check operating mode.
No space heating.	Thermostat set too low or off. Boiler in DHW-only mode. Low system pressure.	Check and adjust room thermostat. Select combi or heating mode. Check pressure gauge; repressurize if necessary (consult manual).
Boiler displays an error code.	Specific fault detected by the boiler's internal diagnostics.	Refer to the error code list in the full manual. Attempt a reset if recommended. If the code persists, contact Noritz customer support or a qualified technician.

Problem	Possible Cause	Solution
Unusual noises (e.g., banging, whistling).	Air in the system. Limescale buildup. Pump issue.	Bleed radiators/system. Professional descaling may be required. Contact a technician.

SPECIFICATIONS

Key technical specifications for the Noritz NRCB199DV-LP Combination Boiler:

Feature	Value
Model Number	NRCB199DV-LP
Brand	Noritz
Fuel Type	Propane (LP)
Max DHW Output (Btuh)	199,900
Max DHW Flow Rate	11.1 GPM
Max Space Heating Output (Btuh)	120,000
Power Source	Gas Powered
Voltage	120 Volts
Mount Type	Wall
Material Type	Stainless Steel
Item Weight	95 Pounds
Maximum Temperature	180 Degrees Fahrenheit
UPC	817000013660

WARRANTY AND SUPPORT

Warranty Information

Noritz products are covered by a limited warranty. Specific warranty terms and conditions, including coverage duration for parts and heat exchanger, are provided with your product documentation. Please register your product to activate your warranty and keep your proof of purchase.

Customer Support

For technical assistance, service inquiries, or to locate a qualified service technician, please contact Noritz customer support. Have your model number (NRCB199DV-LP) and serial number ready when you call.

Noritz Contact Information:

- *Website:* www.noritz.com
- *Phone:* Refer to the Noritz website for regional contact numbers.

