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Duluth Forge DLS-N18R-2

Duluth Forge Ventless Natural Gas Log Set - 18 inch Stacked Oak, 30,000 BTU, Remote Control - Model DLS-N18R-2 User Manual

Model: DLS-N18R-2

1. Introduction

This manual provides essential information for the safe and efficient operation of your Duluth Forge 18-inch Ventless Natural Gas Log Set, Model DLS-N18R-2. Please read all instructions carefully before installation and use. Retain this manual for future reference.

2. Important Safety Information

WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause injury or property damage. Refer to this manual. For assistance or additional information, consult a qualified installer, service agency, or the gas supplier.

- This appliance is for indoor use only.
- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- Installation and service must be performed by a qualified installer, service agency, or the gas supplier.
- Ensure adequate ventilation. Vent-free appliances consume air from the room.
- Keep children and pets away from the appliance when in operation.
- Never place clothing or other flammable materials on or near the appliance.
- This appliance is equipped with an Oxygen Depletion Sensor (ODS) safety pilot system, which will shut off the appliance if oxygen levels become too low. Do not tamper with or bypass the ODS.
- Minimum firebox size required: 20 inches H x 29 inches W in front (22 inches W at rear) x 13 inches D.

3. Package Contents

Verify that all components are present and undamaged before proceeding with installation.

- U-Burner Chassis (Qty. 1)

- Hand Painted Ceramic Logs (Qty. 7)
- Thermostat Remote Control (Qty. 1)
- AA Batteries (Qty. 4)
- AAA Batteries (Qty. 3)
- Hardware Pack (Qty. 1)
- Receiver Box (Qty. 1)
- User Manual (This document)

4. Setup and Installation

Installation must comply with local codes, or in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1/NFPA 54.

1. **Prepare the Firebox:** Ensure your masonry or agency-approved firebox meets the minimum dimensions: 20 inches H x 29 inches W in front (22 inches W at rear) x 13 inches D. The firebox must be clean and free of debris.
2. **Position the Burner Chassis:** Carefully place the U-Burner chassis within the firebox. Ensure it is level and stable.
3. **Connect Gas Line:** A qualified professional must connect the natural gas supply line to the appliance. Ensure all connections are tight and leak-free.
4. **Install Receiver Box:** Connect the receiver box to the burner chassis according to the wiring diagram provided in the hardware pack. Insert the specified batteries (4 AA) into the receiver box.
5. **Arrange Ceramic Logs:** Carefully place the 7 hand-painted ceramic logs onto the burner chassis. Refer to the log placement diagram (if provided in the hardware pack) for optimal flame appearance and safety. Incorrect log placement can affect performance and safety.



Image: The Duluth Forge Ventless Natural Gas Log Set, Model DLS-N18R-2, with realistic flames and stacked oak logs, resting on a bed of lava rocks.



Image: The Duluth Forge Ventless Natural Gas Log Set, Model DLS-N18R-2, showing the arrangement of the seven hand-painted ceramic logs on the burner chassis, without flames.



Image: A diagram illustrating the dimensions of the Duluth Forge Ventless Natural Gas Log Set: 12.5 inches height, 13 inches depth, and 19.5 inches length. It also specifies the minimum firebox requirement.

5. Operating Instructions

Your log set features a thermostatic remote control for convenient operation.

1. **Insert Remote Batteries:** Open the battery compartment on the remote control and insert the specified batteries (3 AAA).
2. **Initial Startup (Pilot Ignition):**
    - Ensure the gas supply is open.
    - Locate the control knob on the burner chassis. Turn it to the 'PILOT' position.
    - Press and hold the control knob while simultaneously pressing the piezo igniter button (battery-assisted ignition). You should hear a click and see a spark at the pilot.
    - Continue to hold the control knob for approximately 30-60 seconds after the pilot flame ignites to allow the thermocouple to heat up.
    - Release the control knob. If the pilot extinguishes, repeat the process.
    - Once the pilot is stable, turn the control knob to the 'ON' position.
3. **Using the Remote Control:**
    - **Power On/Off:** Press the 'ON' button to ignite the main burner. Press the 'OFF' button to turn off the

main burner, leaving the pilot light on.

- **Thermostatic Mode:** Press the 'MODE' button until 'THERMO' appears on the LCD screen. Use the 'SET' button to adjust your desired temperature. The log set will cycle on and off to maintain this temperature.
- **Manual Mode:** Press the 'MODE' button until 'MANUAL' appears. The log set will operate continuously at the set heat level until manually turned off or the temperature is changed.
- The LCD screen displays current room temperature in °F or °C, burner on/off indication, and thermostat or manual mode indication.

4. **Shutting Down:** To completely turn off the appliance, turn the control knob on the burner chassis to the 'OFF' position and close the main gas supply valve.



Image: The Duluth Forge remote control for the log set, featuring an LCD screen displaying temperature and buttons for ON, OFF, MODE, and SET functions.

6. Maintenance

Regular maintenance ensures safe and efficient operation of your log set.

- **Cleaning:** Ensure the appliance is completely cool before cleaning. Use a soft, damp cloth to wipe down the exterior surfaces. Do not use abrasive cleaners.
- **Log Inspection:** Periodically inspect the ceramic logs for any cracks or damage. Replace damaged logs immediately. Ensure logs are properly seated and not obstructing the burner ports.
- **Pilot and Burner Inspection:** Annually, have a qualified service technician inspect the pilot assembly and main burner for proper operation and cleanliness. Dust and lint can accumulate and affect performance.
- **Battery Replacement:** Replace batteries in the remote control and receiver box as needed, typically annually or when performance degrades.

7. Troubleshooting

Refer to this section for common issues and their solutions. If problems persist, contact a qualified service technician.

Problem	Possible Cause	Solution
Pilot will not light	No gas supply; Air in gas line; Faulty igniter; Pilot orifice clogged.	Ensure gas valve is open; Bleed air from line; Check igniter spark; Clean pilot orifice.
Pilot lights but main burner does not	Thermocouple not heating; Remote control issue; Main burner orifice clogged.	Hold pilot knob longer; Check remote batteries/signal; Clean burner orifice.
Log set cycles off unexpectedly	ODS activated (low oxygen); Thermostat setting reached; Loose wiring.	Increase ventilation; Adjust thermostat; Check wiring connections.
Remote control not responding	Dead batteries; Receiver box issue; Remote out of range.	Replace remote/receiver batteries; Ensure remote is within range; Check receiver wiring.
Whistling noise during operation	Gas pressure issue; Log placement.	Consult gas professional; Verify logs are correctly placed and not obstructing flow.

8. Specifications

Feature	Detail
Model Name	DLS-N18R-2
Fuel Type	Natural Gas
Heat Output	30,000 BTU
Heating Coverage	Up to 1,100 sq ft
Efficiency	99.9% Vent-Free
Log Material	Ceramic
Chassis Material	Metal (Black Powder Coated)
Ignition Type	Battery Assisted Piezo
Control Type	Thermostatic Remote Control

Feature	Detail
Safety Features	Oxygen Depletion Sensor (ODS), Automatic Shut-off, Overheat Protection
Product Dimensions (Approx.)	18"D x 13"W x 12.5"H
Minimum Firebox Size	20" H x 29" W (front) / 22" W (rear) x 13" D
Certifications	ANSI Certified System, PFS Approved
Item Weight	25 pounds
UPC	815192024457

9. Warranty and Support

This Duluth Forge product comes with a limited warranty. For specific warranty details, please refer to the documentation included in your product packaging or contact Duluth Forge customer support.
For technical assistance, replacement parts, or warranty claims, please contact the manufacturer, Factory Buys Direct, or visit the Duluth Forge official website for support information.

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