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› [Duluth Forge](#) /

› [Duluth Forge DLS-24R-1 Dual Fuel Ventless Fireplace Logs Set with Remote Control, 33000 BTU, 24 Inches - Instruction Manual](#)

### Duluth Forge DLS-24R-1

# Duluth Forge DLS-24R-1 Dual Fuel Ventless Fireplace Logs Set

Model: DLS-24R-1 | Brand: Duluth Forge

## 1. INTRODUCTION

This manual provides essential instructions for the safe and efficient installation, operation, and maintenance of your Duluth Forge DLS-24R-1 Dual Fuel Ventless Fireplace Logs Set. This unit is designed to operate on either natural gas or liquid propane, offering a versatile heating solution for your indoor space. Please read this manual thoroughly before installation or use and retain it 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.**

- **Proposition 65 Warning:** This product can expose you to chemicals including carbon monoxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).
- This ventless gas log set is 99.9% efficient and does not require an outside duct or chimney.
- Equipped with a Safety Pilot O.D.S. (Oxygen Depletion Sensor) that automatically shuts down the unit if carbon monoxide or lack of oxygen is detected.
- Features Battery-Assisted Piezo ignition for reliable startup.
- Must be installed in a masonry or agency-approved firebox.
- **Minimum Firebox Size Required:** 20 inches (H) x 28 inches (W) in front (23 inches W at rear) x 15 inches (D).
- Designed for Indoor Use Only.
- Ensure adequate ventilation in the room where the unit is installed.

## 3. SETUP AND INSTALLATION

Professional installation by a qualified technician is highly recommended for gas connections to ensure safety and compliance with local codes.

### 3.1 Unpacking and Inspection

- Carefully remove all components from the packaging.
- Inspect all items for any damage. Contact your retailer immediately if any damage is found.
- Ensure all listed components are present: 8 Hand Painted Ceramic Logs, Bag of Embers, Remote Control, Receiver Box, AA & AAA Batteries, Hardware Pack, Damper Clamp.

### 3.2 Battery Installation

- **For the Ignition:** Install 1 AAA battery into the designated ignition compartment on the main unit.
- **For the Remote Control:** Install 2 AAA batteries into the remote control unit.
- **For the Receiver Box:** Install 4 AA batteries into the receiver box.

### 3.3 Connecting the Receiver

Connect the main unit with the receiver, ensuring that the receiver is in the OFF position before connecting. Refer to the included wiring diagram for proper connection.

### 3.4 Log Placement

The log set includes 8 hand-painted ceramic logs designed for a realistic appearance. Arrange the logs according to the diagram provided in the detailed instruction sheet included with your product. Proper log placement is crucial for optimal flame pattern and safe operation.

# NATURAL APPEARANCE

Long-lasting hand-painted logs and glowing embers provide a realistic look in your fireplace



9 Hand-Painted Logs



Bag of Embers



*Image: Example of log arrangement for a natural appearance.*

## 3.5 Ember Material Placement

Distribute the included bag of glowing ember material over the burner pan to enhance the realistic fire effect. Do not obstruct the burner ports.



*Image: The Duluth Forge DLS-24R-1 log set with flames and glowing embers.*

## 4. OPERATING INSTRUCTIONS

### 4.1 Lighting the Pilot Flame

1. Ensure the gas supply is open.
2. Press lightly on the control knob and turn it counter-clockwise to the **PILOT** position.
3. While holding the control knob in, press and hold the **IGNITION** button until the pilot flame lights.
4. Continue to hold the control knob in for approximately 30-60 seconds after the pilot lights to allow the thermocouple to heat up and stabilize the pilot flame. Release the knob slowly. If the pilot goes out, repeat the process.

### 4.2 Igniting the Main Burner (Remote Control)

Your log set includes a remote control for convenient operation.



*Image: Remote control unit with display and buttons.*

1. Ensure the pilot flame is lit and stable.
2. Set the receiver box to the **REMOTE** position.
3. Press any button on the remote control to activate its display.
4. Once the display is active, press the **ON** button on the remote control to ignite the main flame.

### 4.3 Adjusting Temperature and Mode

- Use the **MODE** button on the remote control to switch between manual mode and automatic constant temperature (thermostat) mode.
- In thermostat mode, use the up and down arrow buttons to set your desired room temperature. The unit will automatically adjust the flame to maintain this temperature.

### 4.4 Turning Off the Unit

- To turn off the main flame, press the **OFF** button on the remote control.
- To turn off the pilot flame, rotate the control knob on the main unit clockwise to the **OFF** position. Always turn off the pilot flame when the unit will not be used for an extended period.

## 5. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your fireplace logs.

- **Cleaning Logs:** Periodically inspect the ceramic logs for soot buildup. Clean gently with a soft brush or cloth. Do not use abrasive cleaners.
- **Burner Cleaning:** Keep the burner ports free of dust and debris. Use a vacuum cleaner with a brush attachment to gently clean the burner area.
- **Pilot Assembly:** Ensure the pilot assembly and ODS sensor are clean and free from obstructions.
- **General Care:** Keep the area around the fireplace clear of combustible materials.

**Always ensure the unit is completely cool and the gas supply is turned off before performing any maintenance.**

## 6. TROUBLESHOOTING

If you encounter issues, refer to the following common problems and solutions. For persistent problems, contact a qualified service technician.

Problem	Possible Cause	Solution
Pilot will not light or stay lit.	No gas supply, air in gas line, thermocouple not heating, ODS sensor dirty.	Check gas supply. Bleed air from line. Hold pilot knob longer. Clean ODS sensor.
Main burner does not ignite.	Pilot not lit, receiver in OFF position, remote batteries low, gas valve closed.	Ensure pilot is lit. Set receiver to REMOTE. Replace remote batteries. Check gas valve.
Remote control not responding.	Low batteries, receiver out of range, receiver in OFF position.	Replace remote/receiver batteries. Move closer to unit. Set receiver to REMOTE.
Unusual odors during operation.	Initial burn-off of manufacturing oils/paint, inadequate ventilation.	Ensure proper ventilation. Odor should dissipate after initial use. If persistent, consult technician.

## 7. SPECIFICATIONS

Feature	Detail
Model Number	DLS-24R-1

Feature	Detail
Brand	Duluth Forge
Heat Output	33,000 BTU
Heating Coverage	Up to 1,300 sq. ft.
Fuel Type	Dual Fuel (Natural Gas or Liquid Propane)
Material	Ceramic, Oak
Product Dimensions (D x W x H)	15" x 20" x 28"
Item Weight	30 Pounds
Ventilation Type	Vent Free
Special Feature	Remote Control
Included Components	8 Hand Painted Ceramic Logs, Bag of Embers, Remote Control, Receiver Box, AA & AAA Batteries, Hardware Pack, Damper Clamp

## MEASUREMENTS



**Minimum Firebox Required:**  
 20"H x 28"W front (23"W rear) x 15"D

*Image: Product dimensions and minimum firebox requirements.*

## 8. WARRANTY

This Duluth Forge product comes with a **Limited Warranty**. For specific details regarding coverage, duration, and terms, please refer to the warranty information included in your product packaging or contact Duluth Forge customer support directly. Keep your proof of purchase for warranty claims.

## 9. CUSTOMER SUPPORT

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact Duluth Forge customer support. Refer to your product packaging or the official Duluth Forge website for the most current contact information.