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## Duluth Forge DLS-30T-1

# Duluth Forge Ventless Dual Fuel Log Set - 30 Inch Split Red Oak - Thermostat Control User Manual

## 1. INTRODUCTION

Thank you for choosing the Duluth Forge Ventless Dual Fuel Log Set. This manual provides essential information for the safe and efficient installation, operation, and maintenance of your new log set. Please read all instructions carefully before use and retain this manual for future reference.

## 2. 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.**

- **Indoor Use Only:** This appliance is designed for indoor use exclusively.
- **Vent-Free Operation:** This unit is vent-free, meaning it does not require an outside duct or chimney. However, proper clearance and ventilation are crucial for safe operation.
- **Oxygen Depletion Sensor (ODS):** Equipped with a safety pilot O.D.S. that automatically shuts off the unit if oxygen levels in the room become too low.
- **Altitude Restriction:** Vent-free heaters do not operate at elevations above 4,500 feet altitude.
- **Local Regulations:** This item is not for sale to residents in California. Always check your local regulations and codes before purchasing and installation.
- **Fuel Type:** Operates off Natural Gas or Liquid Propane. Ensure the correct fuel type is used and connections are secure.
- **Minimum Firebox Size:** Required firebox dimensions are 20" H x 34" W in front (23" W at rear) x 15" D.

## 3. PRODUCT FEATURES

- **Heat Output:** 33,000 BTU, capable of heating up to 1,300 sq. ft.
- **Dual Fuel Technology:** Operates on either Natural Gas or Liquid Propane.
- **Thermostat Control:** Automatically cycles the burner on and off to maintain a desired room temperature.

- **Realistic Design:** Features 9 hand-painted ceramic logs with intricate detailing for a natural appearance.
- **Ember Burner Chassis:** Provides a row of flames and a glowing ember bed for a lifelike fire effect.
- **High Efficiency:** 99.9% efficient, contributing to heating bill savings.
- **Ignition:** Battery-assisted Piezo ignition (1 AAA battery included).
- **Safety Certified:** ANSI Certified System and PFS Approved.

## 4. WHAT'S IN THE BOX

Your Duluth Forge Ventless Dual Fuel Log Set package includes the following components:

- U-Burner Chassis - Qty. 1
- Hand Painted Ceramic Logs - Qty. 9
- Bag of Embers - Qty. 1
- Hardware Pack - Qty. 1

### INCLUDES EVERYTHING YOU NEED!



Gas Burner



Logs and Embers



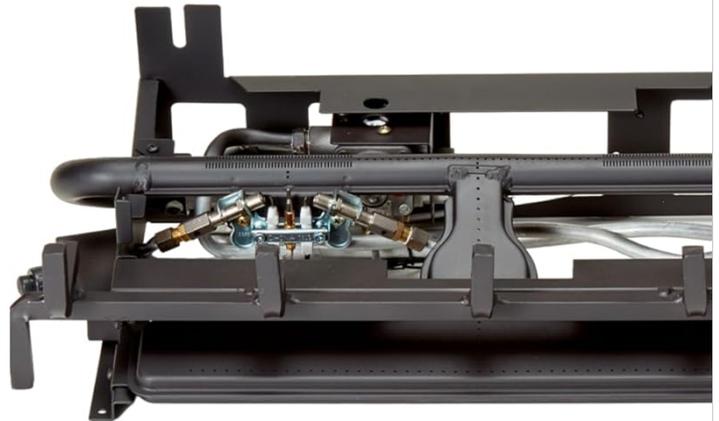
Thermostat Control



Oxygen Depletion Sensor



Hardware Pack



*Image: Components included in the Duluth Forge Ventless Dual Fuel Log Set package.*

## 5. SETUP AND INSTALLATION

Follow these steps for proper setup and installation. It is recommended to have a qualified professional perform the gas connection.

### 5.1 Firebox Requirements

Ensure your firebox meets the minimum size requirements:

- Height: 20 inches
- Width (front): 34 inches
- Width (rear): 23 inches
- Depth: 15 inches

## MEASUREMENTS

13.5 in  
Height



14.5 in  
Depth



29 in Length



**Minimum Firebox Required:**  
20"H x 34"W front (23"W rear) x 15"D

*Image: Dimensions of the log set and required firebox space.*

### 5.2 Gas Connection

The log set is designed for dual fuel operation (Natural Gas or Liquid Propane). Ensure the gas supply is turned off before making any connections. Connect the gas line to the U-burner chassis according to local codes and manufacturer instructions. A qualified technician should perform this step.

### 5.3 Log Placement

Carefully arrange the 9 ceramic logs on the U-burner chassis. The logs are designed to fit together in a specific pattern to optimize flame appearance and heat distribution. Refer to the log placement diagram provided in the separate detailed instruction sheet for your specific model. Incorrect log placement can affect performance and safety.

# 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: Natural appearance of the log set with hand-painted logs and embers.*

## 5.4 Ember Material Application

Distribute the included bag of glowing ember material evenly over the burner pan, ensuring not to block any burner ports. This material enhances the realistic glowing effect of the fire.

## 5.5 Piezo Ignition Battery

Install the included 1 AAA battery into the electronic Piezo ignition system. This battery powers the ignition for easy startup.

### Video: Duluth Forge Product Overview

Your browser does not support the video tag.

*Description: This video provides a general overview of the Duluth Forge Ventless Gas Log Set, highlighting its features and aesthetic appeal.*

### Video: Vent Free Dual Fuel Log Set, Split Red Oak 2022

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*Description: This video showcases the Duluth Forge Vent Free Dual Fuel Log Set in Split Red Oak, demonstrating its operation and realistic flame.*

## 6. OPERATING INSTRUCTIONS

## 6.1 Ignition

1. Ensure the gas supply is turned on.
2. Locate the Piezo ignition button and the control knob on the unit.
3. Press and hold the control knob while turning it to the PILOT position.
4. While holding the knob, repeatedly press the Piezo ignition button until the pilot flame ignites. Continue to hold the control knob for 30-60 seconds after ignition to ensure the thermocouple is heated.
5. Once the pilot is stable, release the control knob. If the pilot extinguishes, repeat the process.
6. To ignite the main burner, turn the control knob from the PILOT position to the desired heat setting.

# THERMOSTAT CONTROLS



5 Thermostatic  
Heat Settings



Electronic Piezo  
Ignition - Requires 1  
AAA Battery-Included!

*Image: Thermostat controls and Piezo ignition.*

## 6.2 Thermostat Control

This log set features thermostat control to maintain a consistent room temperature. Once the main burner is lit, you can adjust the control knob to your preferred heat setting. The unit will automatically cycle on and off to maintain the set temperature.

## 6.3 Shutting Down the Unit

1. To turn off the main burner, turn the control knob to the PILOT position. The pilot flame will remain lit.
2. To completely shut off the unit, turn the control knob to the OFF position. It is recommended to turn off the main gas supply valve if the unit will not be used for an extended period.

## 7. MAINTENANCE

Regular maintenance ensures optimal performance and safety.

- **Cleaning:** Keep the log set and burner area free from dust and debris. Use a soft brush or vacuum cleaner. Do not use abrasive cleaners.
- **Log Inspection:** Periodically inspect the ceramic logs for any cracks or damage. Replace damaged logs immediately. Ensure logs are correctly positioned.
- **Pilot and Burner Inspection:** Annually, have a qualified service technician inspect the pilot and main burner for proper operation and cleanliness.
- **ODS System:** Do not tamper with the Oxygen Depletion Sensor. If the unit frequently shuts off, consult a service technician.

## 8. TROUBLESHOOTING

If you experience issues with your log set, refer to the following common problems and solutions. For persistent issues, contact a qualified service technician.

- **Unit does not ignite:** Check if the gas supply is on. Ensure the AAA battery in the Piezo ignitor is fresh and correctly installed. Verify the pilot light procedure is followed correctly.
- **Pilot light will not stay lit:** Ensure the control knob is held down long enough after pilot ignition (30-60 seconds) to heat the thermocouple. Check for drafts or blockages around the pilot assembly.
- **Main burner does not ignite:** Ensure the pilot light is lit. Check that the control knob is turned to a heat setting beyond the PILOT position.
- **Unit shuts off unexpectedly:** This may indicate the ODS system has activated due to low oxygen levels. Ensure adequate ventilation in the room. Do not operate the unit in unventilated spaces.
- **Unusual odors:** A slight odor may be present during the first few uses as manufacturing oils burn off. If strong or persistent odors occur, shut off the unit and ventilate the area, then contact a service technician.

## 9. SPECIFICATIONS

Specification	Detail
Brand	Duluth Forge
Model Name	Dual Fuel (DLS-30T-1)
Power Source	Gas Powered (Natural Gas or Liquid Propane)
Product Dimensions	15"D x 34"W x 20"H
Material	Ceramic
Finish Type	Painted

Installation Type	Built In
Heat Output	33,000 British Thermal Units
Special Feature	Safety Shut Off (ODS)
Style	Thermostat Control
Color	Split Red Oak
Room Type	Bedroom, Living Room
Ventilation Type	Vent Free
Heating Coverage	Up to 1,300 sq ft
Included Components	Embers, Hardware Kit, U-Burner Chassis, Ceramic Logs
Item Weight	21 Pounds
Batteries	1 AAA battery required (included)
Certifications	ANSI Certified System, PFS Approved

## 10. WARRANTY AND SUPPORT

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### 10.1 Warranty Information

This Duluth Forge Ventless Dual Fuel Log Set comes with a **Limited Warranty**. Please refer to the warranty card included in your package for specific terms, conditions, and duration of coverage. Keep your proof of purchase for any warranty claims.

### 10.2 Customer Support

For technical assistance, troubleshooting, or to inquire about replacement parts, please contact Duluth Forge customer support. Contact information can typically be found on the product packaging or the official Duluth Forge website. When contacting support, please have your model number (DLS-30T-1) and purchase information ready.