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## Duluth Forge DLS-N24T-2

# Duluth Forge DLS-N24T-2 Ventless Natural Gas Log Set Instruction Manual

Model: DLS-N24T-2 | Brand: Duluth Forge

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## 1. INTRODUCTION

Thank you for choosing the Duluth Forge DLS-N24T-2 Ventless Natural Gas Log Set. This product is designed to provide efficient supplemental heating and a realistic fireplace ambiance without the need for a chimney or vent. Please read this manual thoroughly before installation and operation to ensure safe and proper use.



*Image 1: Duluth Forge DLS-N24T-2 Ventless Natural Gas Log Set in operation.*

## 2. SAFETY INFORMATION

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**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 install this appliance in a bathroom or bedroom.
- Ensure adequate ventilation in the room where the appliance is installed.
- The appliance 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).
- Equipped with an Oxygen Depletion Sensor (O.D.S.) that automatically shuts off the unit if oxygen levels drop.
- Professional installation by a certified gas technician is highly recommended to ensure safety and maintain warranty validity.
- Keep children and pets away from the appliance when in operation.

- Do not place clothing or other flammable materials on or near the appliance.

### 3. WHAT'S IN THE BOX

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

- U-Burner Chassis - Qty. 1
- Hand Painted Ceramic Fiber Logs - Qty. 8
- Bag of Embers - Qty. 1
- Hardware Pack - Qty. 1
- User Manual - Qty. 1

## INCLUDES EVERYTHING YOU NEED!



Gas Burner



Logs and Embers



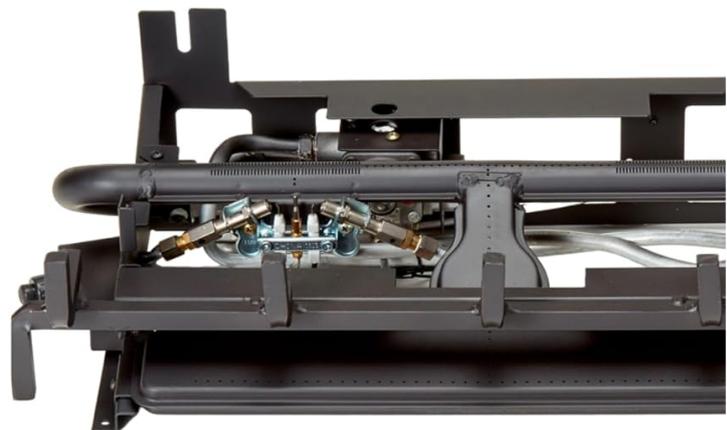
Thermostat Control



Oxygen Depletion Sensor



Hardware Pack



*Image 2: All components included in the package.*

### 4. SETUP

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#### 4.1 Firebox Preparation

Ensure your firebox meets the minimum size requirements: 20 inches (H) x 28 inches (W) in front (23 inches W at rear) x 15 inches (D). The firebox must be clean and free of debris.

# MEASUREMENTS



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

*Image 3: Product dimensions and minimum firebox requirements.*

## 4.2 Gas Line Connection

Connect the gas line to the U-burner chassis. This step requires a qualified gas technician to ensure proper and safe connection to your natural gas supply. Improper connection can lead to gas leaks and serious hazards.

## 4.3 Log Placement

Carefully arrange the 8 ceramic fiber logs on the burner chassis according to the diagram provided in the detailed user manual. The logs are designed to fit together like a puzzle, ensuring optimal flame appearance and heat distribution. Do not block any burner ports or air inlets.

# NATURAL APPEARANCE

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



8 Hand-Painted Logs



Bag of Embers



*Image 4: Detailed view of log placement and ember bed.*

## 4.4 Ember Material Application

Distribute the glowing ember material from the provided bag evenly over the burner pan, avoiding direct contact with the burner ports. This enhances the realistic glowing effect.

## 4.5 Battery Installation

Install 1 AAA battery (included) into the battery-assisted Piezo ignition system. Refer to the manual for the exact location of the battery compartment.

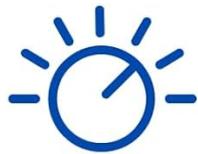
## 5. OPERATION

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### 5.1 Ignition

To ignite the log set, turn the control knob to the 'PILOT' position and press it in. While holding, press the Piezo igniter button repeatedly until the pilot flame ignites. Continue to hold the control knob for approximately 60 seconds to allow the thermocouple to heat up. Release the knob; if the pilot extinguishes, repeat the process. Once the pilot is stable, turn the control knob to the desired heat setting (1-5).

# THERMOSTAT CONTROLS



5 Thermostatic  
Heat Settings



Electronic Piezo  
Ignition - Requires 1  
AAA Battery-Included!

*Image 5: Thermostat control and Piezo ignition.*

## 5.2 Thermostatic Control

The DLS-N24T-2 features a built-in thermostat control. Once set to a desired temperature, the burner will automatically cycle on and off to maintain the room temperature, providing consistent and efficient heating.

## 5.3 Heat Output

This unit provides 33,000 BTU of heat, capable of heating up to 1,300 sq. ft. It operates on natural gas, offering 99.9% efficiency without the need for an outside duct or chimney.



## EASILY HEAT A LARGE AREA

Ventless design on the 33,000 BTU burner eliminates the need for an outside duct or chimney to heat up to 1,300 square feet using either natural gas or liquid propane



*Image 6: Efficient heating for large areas.*

### 5.4 Shutting Down

To turn off the appliance, rotate the control knob to the 'OFF' position. For extended periods of non-use, it is recommended to turn off the main gas supply valve.

## 6. MAINTENANCE

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Regular maintenance ensures optimal performance and safety. Always turn off the appliance and allow it to cool completely before performing any maintenance.

### 6.1 Cleaning

- **Logs:** Gently brush the ceramic logs with a soft brush to remove dust or soot. Do not use abrasive cleaners.
- **Burner/Pilot:** Keep the burner ports and pilot assembly clean. Use a vacuum cleaner with a soft brush attachment to remove any lint or debris.
- **Exterior:** Wipe the exterior surfaces with a damp cloth.

### 6.2 Annual Inspection

It is recommended to have a qualified service technician inspect the appliance annually. This includes

checking gas connections, burner operation, pilot assembly, and the Oxygen Depletion Sensor (O.D.S.) for proper function.

## 7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Pilot will not light	No gas supply; Air in gas line; Pilot orifice clogged; Faulty igniter	Check gas supply; Bleed air from line; Clean pilot orifice; Replace igniter (if faulty)
Main burner will not light	Pilot not lit; Thermostat setting too low; Main burner orifice clogged	Light pilot; Adjust thermostat; Clean main burner orifice
Unit shuts off unexpectedly	Oxygen Depletion Sensor (O.D.S.) activated; Pilot flame too weak; Insufficient ventilation	Ensure adequate ventilation; Clean pilot assembly; Contact service technician if O.D.S. repeatedly activates
Unusual odors	New unit burn-off; Gas leak	Initial odors are normal; If gas odor persists, turn off gas supply and call gas company immediately

## 8. SPECIFICATIONS

Feature	Detail
Model Name	DLS-N24T-2
Brand	Duluth Forge
Fuel Type	Natural Gas
Heat Output	33,000 BTU
Heating Coverage	Up to 1,300 sq ft
Ventilation Type	Vent Free
Log Material	Ceramic Fiber
Ignition Type	Battery Assisted Piezo (1 AAA battery included)
Control Type	Thermostat Control
Product Dimensions	24"D x 12"W x 11"H
Item Weight	50 Pounds
Safety Features	Oxygen Depletion Sensor (O.D.S.), Automatic Shut-off
Certifications	ANSI Certified System, PFS Approved

## 9. WARRANTY & SUPPORT

## 9.1 Limited Warranty

This Duluth Forge gas log set comes with a limited warranty. Please refer to the warranty card included in your hardware pack for specific terms, conditions, and duration. Note that the warranty may be voided if the product is not installed by a qualified professional.

## 9.2 Customer Support

For technical assistance, replacement parts, or warranty claims, please contact Duluth Forge customer service. Contact information can be found on the product packaging or the official Duluth Forge website.

## 10. OFFICIAL PRODUCT VIDEOS

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### Duluth Forge Ventless Gas Logs, Stacked 2022

*This video showcases the Duluth Forge Ventless Gas Logs in a stacked configuration, highlighting their realistic appearance and flame patterns. It provides a visual demonstration of the product's aesthetic appeal.*

### Duluth Forge Ventless Dual Fuel Gas Log Set - 30 in. Berkshire Split Oak - Remote Control

*This video demonstrates the Duluth Forge Ventless Dual Fuel Gas Log Set, featuring a Berkshire Split Oak design and remote control functionality. While a different size and fuel option, it illustrates the general operation and visual quality of Duluth Forge ventless gas logs.*