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› [Duluth Forge DLS-18T-1 Dual Fuel Ventless Fireplace Logs Set Instruction Manual](#)

## Duluth Forge DLS-18T-1

# Duluth Forge DLS-18T-1 Dual Fuel Ventless Fireplace Logs Set Instruction Manual

Model: DLS-18T-1

## 1. INTRODUCTION

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This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Duluth Forge DLS-18T-1 Dual Fuel Ventless Fireplace Logs Set. Please read all instructions carefully before installation and use. Retain this manual for future reference.



*Image 1.1: The Duluth Forge DLS-18T-1 Dual Fuel Ventless Fireplace Logs 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 store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- The Oxygen Depletion Sensor (ODS) is a safety feature that automatically shuts off the gas supply if oxygen levels in the room fall below a safe threshold. Do not tamper with or bypass the ODS.
- Ensure adequate ventilation as specified in local codes and this manual.
- Minimum Firebox Size Required: 20" H x 29" W in front (22" W at rear) x 13" D.
- Keep children and pets away from the appliance when it is in operation.

## 3. PRODUCT FEATURES

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- **Dual Fuel Technology:** Operates with either Natural Gas or Liquid Propane.
- **High Heat Output:** 30,000 BTU, capable of heating up to 1,000 sq. ft.
- **Ventless Design:** 99.9% efficient, no outside duct or chimney required.
- **Thermostat Control:** Automatically cycles the burner to maintain a desired room temperature.
- **Realistic Logs:** 8 hand-painted ceramic logs designed to emulate a split red oak wood fire.
- **Safety Assurance:** Equipped with a Safety Pilot O.D.S. (Oxygen Depletion Sensor) with automatic shut-off.
- **Easy Ignition:** Battery-assisted Piezo ignition (requires 1 AAA Battery, included).



## EASILY HEAT A LARGE AREA

Ventless design on the 30,000 BTU burner eliminates the need for an outside duct or chimney to heat up to 1,100 square feet using either natural gas or liquid propane



*Image 3.1: Detailed view of the ceramic logs and flames.*

## 4. PACKAGE CONTENTS

Upon unpacking, ensure all the following components are present:

- Gas Burner Assembly
- 8 Hand-Painted Ceramic Logs
- Iron Grate
- U-Burner Chassis

- Thermostat Control Unit
- Oxygen Depletion Sensor (integrated)
- 1 AAA Battery
- Hardware Pack

## INCLUDES EVERYTHING YOU NEED!



Gas Burner



Hand-Painted Logs



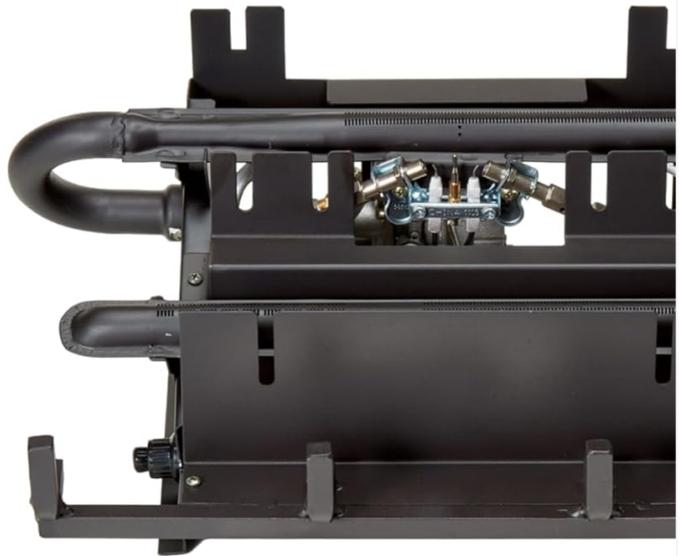
Thermostat Control



Oxygen Depletion Sensor



Hardware Pack



*Image 4.1: All components included in the Duluth Forge DLS-18T-1 package.*

## 5. INSTALLATION AND SETUP

Installation should be performed by a qualified professional in accordance with all local codes and the provided instructions. This appliance must be installed in a masonry or agency-approved firebox.

### 5.1 Pre-Installation Checks

- Verify that the firebox meets the minimum size requirements: 20" H x 29" W in front (22" W at rear) x 13" D.
- Ensure the gas supply type (Natural Gas or Liquid Propane) matches the appliance's configuration. The patented Dual Fuel Technology allows conversion, but it must be correctly set for your gas type.
- Confirm that the area has adequate ventilation.

### 5.2 Component Placement

1. Carefully place the burner assembly and iron grate within the firebox.
2. Arrange the ceramic logs according to the detailed log placement instructions provided with the hardware pack. Proper log placement is crucial for flame appearance and safe operation.

3. Connect the gas line to the burner assembly. This step requires professional expertise.

## NATURAL APPEARANCE

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



8 Hand-Painted Logs



Solid Steel Grate



*Image 5.1: The gas log set properly installed within a fireplace.*

## 6. OPERATING INSTRUCTIONS

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### 6.1 Initial Ignition

1. Ensure the gas supply valve is open.
2. Insert the included AAA battery into the Piezo ignition unit.
3. Turn the control knob to the 'Pilot' position and depress it.
4. While holding the knob down, press the Piezo ignitor button repeatedly until the pilot flame ignites. Continue to hold the control knob down for approximately 30-60 seconds after ignition to allow the thermocouple to heat up.
5. Release the control knob. If the pilot flame extinguishes, repeat the process.

### 6.2 Main Burner Operation (Thermostat Control)

The thermostat control allows you to set a desired room temperature, and the unit will automatically cycle on and off to maintain it.

1. Once the pilot is lit, turn the control knob from 'Pilot' to the desired heat setting (1-5).
2. The main burner will ignite, and flames will appear among the logs.
3. To adjust the temperature, rotate the control knob to a higher or lower setting. The unit will automatically regulate the flame to reach and maintain the set temperature.
4. To turn off the main burner while keeping the pilot lit, turn the control knob to the 'Pilot' position.

- To completely turn off the unit, turn the control knob to the 'Off' position and close the main gas supply valve.

## THERMOSTAT CONTROLS



5 Thermostatic  
Heat Settings



Electronic Piezo  
Ignition - Requires 1  
AAA Battery-Included!

Image 6.1: Thermostat control and Piezo ignition for the log set.

## 7. MAINTENANCE

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Regular maintenance ensures safe and efficient operation of your fireplace logs set.

- **Annual Inspection:** Have a qualified service technician inspect the burner assembly, gas connections, and logs annually.
- **Cleaning:** Keep the area around the appliance clear of combustible materials. Periodically clean the logs and burner area with a soft brush or vacuum cleaner to remove dust and debris. Ensure the unit is completely cool and the gas supply is off before cleaning.
- **Log Condition:** Inspect logs for cracks or damage. Replace any damaged logs to maintain proper flame patterns and safety.

## 8. TROUBLESHOOTING

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

## 8.1 Pilot Light Will Not Stay Lit

- **Gas Supply:** Ensure the main gas supply valve is fully open.
- **Thermocouple:** The thermocouple may not be heating sufficiently. Ensure the pilot flame is directly impinging on the thermocouple. Hold the control knob down for the recommended 30-60 seconds after ignition.
- **ODS Activation:** The Oxygen Depletion Sensor may have activated due to low oxygen levels. Ensure adequate ventilation in the room.
- **Pilot Orifice:** A clogged pilot orifice can cause a weak pilot flame. This requires professional cleaning.

## 8.2 Main Burner Does Not Ignite

- **Pilot Lit:** Confirm the pilot light is actively burning. The main burner will not ignite if the pilot is out.
- **Control Knob Position:** Ensure the control knob is turned to a numbered heat setting (1-5) and not just 'Pilot' or 'Off'.
- **Gas Pressure:** Low gas pressure can prevent the main burner from igniting. Consult your gas supplier or a professional.

## 9. SPECIFICATIONS

Attribute	Detail
Brand	Duluth Forge
Model Name	Dual Fuel
Item Model Number	DLS-18T-1-AZ
Power Source	Gas Powered (Natural Gas or Liquid Propane)
Heat Output	30,000 British Thermal Units (BTU)
Heating Coverage	Up to 1,000 sq ft
Ventilation Type	Vent Free
Product Dimensions	23.5"D x 15.5"W x 18"H
Minimum Firebox Size	20" H x 29" W in front (22" W at rear) x 13" D
Material	Ceramic
Ignition Type	Battery-assisted Piezo (1 AAA Battery)
Safety Features	Oxygen Depletion Sensor (ODS)
Item Weight	23.9 pounds (10.84 Kilograms)

# MEASUREMENTS



**Minimum Firebox Required:**  
20"H x 29"W front (22"W rear) x 13"D

*Image 9.1: Key dimensions of the Duluth Forge DLS-18T-1 log set.*

## 10. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation included with your product or contact Duluth Forge directly. You can also visit the official Duluth Forge store on Amazon for more information: [Duluth Forge Amazon Store](#).