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› [Duluth Forge DFS-300LT-3GR Vent-Free Liquid Propane Fireplace System User Manual](#)

Duluth Forge DFS-300LT-3GR

Duluth Forge DFS-300LT-3GR Vent-Free Liquid Propane Fireplace System

USER INSTRUCTION MANUAL

1. IMPORTANT SAFETY INFORMATION

Please read and understand all instructions in this manual before assembling, installing, operating, or maintaining this fireplace system. Failure to follow these instructions may result in property damage, personal injury, or death. Keep this manual for future reference.

General Safety Precautions:

- This appliance is for use with Liquid Propane (LP) gas only. Do not attempt to use natural gas or any other fuel.
- Ensure adequate ventilation. Although vent-free, proper air circulation is necessary for safe operation.
- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- Keep children and pets away from the fireplace during operation. Surfaces become hot and can cause burns.
- Never obstruct the flow of combustion and ventilation air to the appliance.
- Do not place clothing or other flammable materials on or near the appliance.
- This fireplace is equipped with an Oxygen Depletion Sensor (O.D.S.) which will automatically shut off the unit if oxygen levels in the room fall below a safe threshold. Do not tamper with or bypass this safety device.
- Installation and service must be performed by a qualified installer, service agency, or gas supplier.

WARNING: This product can expose you to chemicals including lead and lead compounds, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov.

2. PRODUCT OVERVIEW

The Duluth Forge DFS-300LT-3GR is a vent-free liquid propane fireplace system designed to provide efficient supplemental heating. It combines a stylish slate gray furniture-grade mantel (CM300-3-GR) with a powerful vent-free fireplace insert (FLF300T).

Key Features:

- **Heat Output:** 26,000 BTU, capable of heating up to 1,350 sq. ft.
- **Fuel Type:** Liquid Propane (LP)
- **Efficiency:** 99.9% vent-free efficiency, no outside duct or chimney required.
- **Control:** Thermostat control automatically cycles the burner to maintain desired room temperature.
- **Ignition:** Battery-assisted Piezo ignition for easy startup.
- **Safety:** Oxygen Depletion Sensor (O.D.S.) with automatic shut-off.
- **Aesthetics:** 5 realistic hand-painted ceramic fiber logs and a dual precision ported burner for a natural flame appearance.
- **Mantel:** Slate Gray furniture-grade finish with light distressing and burnishing on edges.

Included Components:

- Fireplace Wood Mantel (CM300-3-GR) - Qty. 1
- Vent Free Fireplace Insert (FLF300T) - Qty. 1
- Hand Painted Ceramic Fiber Logs - Qty. 5
- Hardware Pack - Qty. 1
- AAA Battery - Qty. 1

Note: Blower (Model FIB100) is sold separately.



Image 1: Front view of the Duluth Forge DFS-300LT-3GR fireplace system with logs and flame visible.

3. SETUP AND INSTALLATION

Some assembly of the mantel and fireplace insert is required. It is recommended to have two people for assembly due to the weight and size of the unit. Ensure you have all included components before beginning.

Site Selection:

- Choose a location with adequate clearances from combustible materials as specified in the full installation manual (not provided here, refer to manufacturer's detailed guide).
- Ensure the floor is level and capable of supporting the fireplace's weight (approximately 130 lbs).
- Avoid areas with excessive drafts or near frequently opened doors/windows.

Assembly Steps (General):

1. Carefully unpack all components and inspect for any damage.
2. Assemble the wood mantel according to the separate mantel assembly instructions provided with the hardware pack.
3. Install the vent-free fireplace insert into the assembled mantel opening. Secure it using the provided hardware.

4. Connect the fireplace insert to a Liquid Propane (LP) gas supply line. This connection must be performed by a qualified gas technician in accordance with local codes and regulations. Ensure all gas connections are leak-tested before operation.
5. Install the included AAA battery into the battery-assisted Piezo ignition system. Refer to the specific location indicated on the fireplace insert.
6. Carefully place the 5 ceramic fiber logs onto the burner grate. Arrange them to create a natural flame appearance without obstructing the burner ports or pilot light. Refer to the log placement diagram in the full manual for optimal setup.



Image 2: The DFS-300LT-3GR fireplace system integrated into a room, demonstrating its freestanding installation.



Image 3: Detail of the fireplace's lower control panel, showing the ignition button, gas valve, and safety warnings.

4. OPERATING INSTRUCTIONS

Before operating, ensure all safety checks have been performed and gas connections are secure.

Starting the Fireplace:

1. Ensure the main gas supply valve to the fireplace is open.
2. Locate the control knob on the fireplace insert. Turn it to the 'PILOT' position.
3. Press and hold the control knob in while simultaneously pressing the Piezo igniter button repeatedly until the pilot flame ignites. You should see a small flame at the pilot assembly.
4. Continue to hold the control knob in for approximately 30-60 seconds after the pilot ignites to allow the thermocouple to heat up and hold the pilot flame. Release the knob slowly. If the pilot goes out, repeat steps 2-4.
5. Once the pilot is established, turn the control knob from 'PILOT' to the desired 'ON' or 'THERMOSTAT' setting. The main burner will ignite.

Thermostat Control:

The DFS-300LT-3GR features a thermostatic control. Once the main burner is on, you can set the desired room temperature. The system will automatically cycle the burner on and off to maintain this temperature, providing efficient heating.

Using the Remote Control:

The fireplace system includes a remote control for convenient operation. This remote allows you to turn the unit ON/OFF and adjust the thermostat settings. Ensure the remote has a working battery.

- **ON/OFF:** Press the 'ON' button to activate the main burner (after pilot is lit). Press 'OFF' to turn off the main burner. The pilot light will remain lit.
- **MODE:** Use the 'MODE' button to switch between temperature display (Fahrenheit/Celsius) or other settings if available.
- **SET:** Use the 'SET' button and arrow keys (if present) to adjust the desired temperature.





Image 4: The remote control for the fireplace, showing its digital display and function buttons.

Shutting Down the Fireplace:

1. To turn off the main burner, turn the control knob to the 'PILOT' position or press the 'OFF' button on the remote. The pilot light will remain lit.
2. For complete shutdown, turn the control knob to the 'OFF' position. This will extinguish the pilot light.
3. If the fireplace will not be used for an extended period, turn off the main gas supply valve.

5. MAINTENANCE

Regular maintenance ensures safe and efficient operation of your fireplace system.

Annual Inspection (Recommended by a Qualified Technician):

- Inspect the gas lines and connections for leaks or damage.
- Check the burner and pilot assembly for blockages or debris.
- Verify the proper operation of the Oxygen Depletion Sensor (O.D.S.).
- Inspect the ceramic logs for cracks or deterioration. Replace if necessary.

User Maintenance:

- **Cleaning:** Ensure the fireplace is completely cool before cleaning. Use a soft, damp cloth to wipe down the mantel and exterior surfaces. Do not use abrasive cleaners.
- **Log Cleaning:** Gently brush off any dust or lint from the ceramic logs when the unit is cool. Handle logs carefully as they are fragile.
- **Air Openings:** Keep the air openings around the fireplace clear of dust, lint, and obstructions to ensure proper combustion and ventilation.

- **Battery Replacement:** Replace the AAA battery in the ignition system and remote control annually or when performance degrades.

6. TROUBLESHOOTING

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

- **No Pilot Light:**
 - Ensure the main gas supply valve is open.
 - Check if the control knob is fully pressed in during ignition and held long enough.
 - Verify the AAA battery in the igniter is fresh and correctly installed.
 - Check for obstructions in the pilot opening.
- **Main Burner Does Not Ignite:**
 - Ensure the pilot light is lit and stable.
 - Confirm the control knob is turned to an 'ON' or 'THERMOSTAT' position.
 - Check for low gas pressure or an empty LP tank.
- **Fireplace Shuts Off Unexpectedly:**
 - This is often due to the Oxygen Depletion Sensor (O.D.S.) activating. Ensure adequate ventilation in the room. Open a window slightly if necessary.
 - Check for obstructions around the fireplace that might block airflow.
 - Allow the unit to cool down before attempting to restart.
- **Poor Flame Appearance:**
 - Verify that the ceramic logs are correctly positioned and not obstructing burner ports.
 - Check for dust or debris on the burner ports.

7. SPECIFICATIONS

Feature	Specification
Model Name	DFS-300LT-3GR
Fireplace Insert Model	FLF300T
Mantel Model	CM300-3-GR
Fuel Type	Liquid Propane (LP)
Heat Output	26,000 BTU
Heating Area	Up to 1,350 sq. ft.
Product Dimensions (W x H x D)	40" x 40" x 14.5"
Product Weight	130 lbs

Feature	Specification
Efficiency	99.9% Vent-Free
Ignition Type	Battery-assisted Piezo
Safety Features	Oxygen Depletion Sensor (O.D.S.) with auto shut-off
Logs	5 Hand-painted Ceramic Fiber Logs
Mantel Finish	Slate Gray Furniture Grade
UPC	815192029575

8. WARRANTY AND SUPPORT

Limited Warranty:

This Duluth Forge fireplace system is covered by a **1 Year Limited Warranty**. This warranty covers defects in materials and workmanship under normal use and service. For specific terms, conditions, and exclusions, please refer to the warranty documentation included with your product or contact Duluth Forge customer service.

Customer Support:

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact Duluth Forge customer support. Contact information can typically be found on the manufacturer's website or in the packaging materials.

When contacting support, please have your model number (DFS-300LT-3GR) and proof of purchase readily available.

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Related Documents - DFS-300LT-3GR

 <p>DULUTH FORGE DUAL FUEL VENT-FREE MODEL FDLR24/30-1</p> <p>VENT-FREE GAS LOG CHASSIS OWNER'S OPERATION AND INSTALLATION MANUAL</p> <p>SAFETY WARNINGS</p> <ul style="list-style-type: none"> Do not use a or use gasoline or other flammable liquids and vapors in the vicinity of this or any other appliances. Do not try to light any appliance. Do not touch any electrical switch; do not use any electrical appliances. Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions. If you cannot reach your gas supplier, call the fire department. <p>Installation and service must be performed by a qualified technician, service agency or the gas supplier.</p> <p>WARNING: This appliance is equipped for natural and propane gas. Use of other gases is not permitted. Use of other gases is dangerous.</p>	<p>Duluth Forge FDLR24/30-1 Dual Fuel Vent-Free Gas Log Chassis Owner's Operation and Installation Manual</p> <p>This comprehensive manual provides detailed instructions for the operation and installation of the Duluth Forge FDLR24/30-1 Dual Fuel Vent-Free Gas Log Chassis. It covers safety precautions, specifications, installation procedures, operating instructions, troubleshooting, parts replacement, and warranty information.</p>
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 <p>DUAL FUEL: VALVE FLAME REMOTE MODEL FDLR18-1</p> <p>VENT-FREE GAS LOG CHASSIS OWNER'S OPERATION AND INSTALLATION MANUAL</p> <p>PFS US</p> <p>WARNING: If the information in this manual is not followed exactly, fire or explosion may result causing property damage, personal injury or loss of life.</p> <ul style="list-style-type: none"> Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance. WASH TO SOUP YOUR SMELL GAS. Do not try to light any appliance. Do not touch any electrical switch; do not use any phone in your building. Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions. If you cannot reach your gas supplier, call the fire department. Installation and service must be performed by a qualified installer, service agency or the gas supplier. <p>WARNING: This appliance is equipped for natural and propane gas. Field conversions are not permitted other than between natural or propane gases.</p>	<p>Duluth Forge FDLR18-1 Vent-Free Gas Log Chassis Owner's Operation and Installation Manual</p> <p>Comprehensive guide for the Duluth Forge FDLR18-1 Vent-Free Gas Log Chassis, covering safety, specifications, installation, operation, maintenance, and troubleshooting.</p>
 <p>Duluth Forge</p> <p>VENTED NATURAL GAS LOG INSTALLATION INSTRUCTIONS</p> <p>MODELS FNL18L103B, FN24L103B & FN30L103B LOG CHASSIS</p> <p>For Use With FNL18-1, FNL24-1, & FNL30-1 Chassis</p> <p>PFS US</p> <p>WARNING: If the information in this manual is not followed exactly, fire or explosion may result causing property damage, personal injury or loss of life.</p> <ul style="list-style-type: none"> Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance. WASH TO SOUP YOUR SMELL GAS. Do not try to light any appliance. Do not touch any electrical switch; do not use any phone in your building. Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions. If you cannot reach your gas supplier, call the fire department. Installation and service must be performed by a qualified installer, service agency or the gas supplier. <p>WARNING: This appliance is equipped for natural and propane gas. Field conversions are not permitted other than between natural or propane gases.</p>	<p>Duluth Forge Vented Natural Gas Log Installation Instructions</p> <p>Comprehensive installation guide for Duluth Forge vented natural gas log sets, models FNL18L103B, FN24L103B, and FN30L103B. Covers safety, log placement, operation, curing, and parts. Approved to ANSI Z21.11.2 and Z21.60 standards.</p>
 <p>DUAL FUEL REMOTE MODEL FDLR24/30-1</p> <p>VENT-FREE GAS LOG CHASSIS OWNER'S OPERATION AND INSTALLATION MANUAL</p> <p>PFS US</p> <p>WARNING: If the information in this manual is not followed exactly, fire or explosion may result causing property damage, personal injury or loss of life.</p> <ul style="list-style-type: none"> Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance. WASH TO SOUP YOUR SMELL GAS. Do not try to light any appliance. Do not touch any electrical switch; do not use any phone in your building. Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions. If you cannot reach your gas supplier, call the fire department. Installation and service must be performed by a qualified installer, service agency or the gas supplier. <p>WARNING: This appliance is equipped for natural and propane gas. Field conversions are not permitted other than between natural or propane gases.</p>	<p>Duluth Forge FDLR24/30-1 Dual Fuel Vent-Free Gas Log Chassis Owner's Operation and Installation Manual</p> <p>This comprehensive manual provides detailed instructions for the operation and installation of the Duluth Forge FDLR24/30-1 Dual Fuel Vent-Free Gas Log Chassis. It covers safety precautions, specifications, installation procedures, operating instructions, troubleshooting, parts replacement, and warranty information.</p>
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