

Bio-ethanol fireplace burner and log set

Model # 61000

Distributed by:
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Patents Pending



Tested to UL 1370 for "unvented bio-ethanol burners" by PFS Corporation

WARNING: If the information in this manual is not followed exactly, a fire or explosion may result, causing property damage, personal injury, or loss of life.

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

WHAT TO DO IN THE EVENT OF AN ALCOHOL SPILL: DO NOT light the burner. Extinguish any open flame near the spill. Wipe up the spill, and wait several minutes for the residue to evaporate.

WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause injury or property damage. Refer to this manual for correct installation and operational procedures.

WARNING: This appliance is for installation only in a solid-fuel-burning masonry fireplace, a UL127 factory-built fireplace, or in an ANSI Z21.91 ventless firebox. It is design certified for these installations in accordance with UL1370. Exception: Do not install this appliance in a factory-built fireplace that includes instructions stating that it has not been tested or should not be used with unvented gas logs.

This appliance may be installed in a fireplace or firebox approved for aftermarket, permanently located, manufactured (mobile) homes, where not prohibited by local codes.

This appliance is for use only with duraflame[®] illuma-fuel[®] or types of fuel indicated on the rating plate. This appliance is not convertible for use with other fuels, nor should you use illuma-fuel[®] with any product other than duraflame[®] illuma[™] log sets.

Save this manual for future reference.

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I. SAFETY INFORMATION

IMPORTANT: Read this owner's manual carefully and completely before trying to assemble, operate, or service this appliance. Improper use of this appliance or failure to comply with the safety rules can cause serious injury or death from burns, fire, explosion, or carbon monoxide poisoning. Keep this manual. It should be read by all users of the appliance.

DANGER: Carbon monoxide poisoning may lead to death!

Carbon Monoxide Poisoning: Early signs of carbon monoxide poisoning resemble the flu, with headaches, dizziness, or nausea. If you have these signs, the appliance may not be working properly, and/or you do not have an adequately vented room. **Extinguish the appliance and get fresh air at once!** Some people are more affected by carbon monoxide poisoning than others. These include pregnant women, people with heart or lung disease or anemia, those under the influence of alcohol, and those at high altitudes.

WARNING: Any modifications to this appliance or its controls could be dangerous.

WARNING: Do not allow fans to blow directly into the fireplace. Avoid any drafts that alter burner flame patterns. (Ceiling fans could create such drafts.) Altered flame patterns could cause sooting.

WARNING: Do not use a blower insert, heat exchanger insert, or other accessory not approved for use with this heater.

WARNING: Risk of explosion. Never use any fuel other than the fuels specifically identified for use in the appliance. Never use gasoline. Never use this appliance in areas where flammable vapors or gas may be present. Never store or transport the fuel in anything other than the original container that it came in. Store fuel in a cool and dry place away from heat sources.

WARNING: Risk of indoor air pollution. Use this appliance only in well-ventilated areas. People with breathing problems should consult a physician before using the appliance.

WARNING: Do not use this appliance to heat or boil water or use as a cooking appliance. Do not burn trash or any other material in or on the appliance.

Due to high temperatures, this appliance should be used only in an approved fireplace or firebox away from flammable objects (curtains, clothing, rugs, furniture, etc.). Flammable objects should not come into contact with the appliance or the flames. Keep them at least three feet away. Never place any objects on the appliance or inside the burner.

The appliance becomes very hot when in operation. Keep children and adults (and pets) away from flames and hot surfaces to avoid burns or clothing ignition. The appliance will remain hot for a time after shutdown. Allow the appliance to cool for at least 30 minutes before touching it. Carefully follow instructions for refueling while appliance is in use.

Never leave children unattended and carefully supervise young children when they are in the room where this appliance is in use.

You must operate this appliance with a fireplace screen in place. Make sure the fireplace screen is closed while running the appliance.

Keep the appliance area clear and free from combustible materials, gasoline, and other flammable vapors and liquids.

This appliance is for decorative purposes only and should not be used as a heater.

Do not store the duraflame illuma-fuel canisters near the appliance. Store illuma-fuel tightly closed in its original canister in a dry, cool place, out of direct sunlight and away from heat sources, flammable objects and open fires, and out of the reach of children. If swallowed, seek medical attention immediately. In case of contact with eyes, flush immediately with cool water for 15 minutes and seek medical attention. For contact with skin, rinse well with cool water. If irritation develops, see your doctor.

Do not remove a duraflame illuma-fuel canister from the appliance until the canister is completely empty.

WHAT TO DO IN THE EVENT OF A FUEL SPILL OR FUEL LEAK: **DO NOT light the burner.** Extinguish any open flame near the spill. Wipe up the spill, and wait at least 5 minutes for the residue to evaporate. In addition to the potential for fire, spilled duraflame illuma-fuel can damage some surfaces like wood and leather. Wipe up any spills immediately.

Install this appliance in compliance with the laws of your local jurisdiction. This appliance shall not be installed in a bedroom or bathroom, unless installed as a vented appliance. Do not install this appliance in trailers, boats or vehicles.

If a gas line has been run to your fireplace, all gas connections must be disconnected by a qualified service technician prior to installing this appliance.

The appliance must be set on a level surface in your fireplace or firebox.

This appliance has not been tested for use with glass doors. To reduce the risk of fire or injury, do not install or use glass doors with this appliance. If the fireplace has glass doors, never operate the appliance with the glass doors closed. Heat buildup within the fireplace could cause the glass doors to break or burst, or cause the release of harmful combustion products into the living area.

If the fireplace has vents at the bottom, the vents must be opened before running the appliance.

This appliance is designed to be smokeless. If the logs ever begin to smoke, extinguish the appliance (by pulling on the snuffer device handle underneath the front log of the appliance – see Section IX. OPERATION), wait for the appliance to cool down for at least 30 minutes, and check the positioning of the logs. Note: During initial operation, slight smoking might occur due to logs curing and the burning off of manufacturing residues. This is a normal condition.

Do not use cleaning materials or agents such as furniture polish, wax, carpet cleaner, or similar products in the room where the appliance is located while the appliance is in use. If heated, the vapors from these products can create a white powdery residue within the burner box or on adjacent walls or furniture.

Do not operate this appliance where flammable liquids or vapors are used or stored, or in a dusty environment.

If water has entered the burner reservoir of the appliance, ensure that the water has been emptied from the appliance before use. Water can dilute the duraflame illuma-fuel and affect the performance of the appliance.

Do not operate this appliance if any log is broken or has a chip (dime-sized or larger). Do not use the appliance if there is visible damage. If you see damage, contact the store where purchased or Duraflame's customer service. Do not attempt to repair the appliance yourself. Do not use your appliance if it has been modified in any way.

Turn off the appliance and let it cool before servicing, or repairing it.

An open fire is always a potential hazard. You must have a Class B fire extinguisher near the fireplace in case of fire.

Do not dismantle the burner. Do not insert any other fuel canister into the burner.

This appliance must be operated using only authorized accessories and equipment.

Do not move the appliance while it is burning. This could cause burning fuel to spill and result in injury or a fire.

Do not put anything into the flames of the appliance. This could cause sooting and the creation of harmful combustion products.

Do not put your head over the burner while lighting it. Keep all body parts safely away from the device while igniting and while the appliance is in use.

Do not leave the appliance burning unattended. Extinguish the flames before you leave the house, go to bed, or leave the room for an extended period of time. Never leave children unattended near the appliance while it is in use.

Extinguish the flames by pulling the sliding cover of the snuffer device over the burner. Do not attempt to blow out the flames. Never use water to extinguish the flames. This could cause an explosion. The cover will be extremely hot. Do not obstruct the sliding cover of the snuffer device in any way as this could interfere with your ability to extinguish the flames.

Keep packing materials away from children, as they could be a choking or suffocation hazard.

In case of burns, seek treatment from your doctor or hospital.

Duraflame accepts no responsibility for any damage that might result if this appliance is improperly installed, incorrectly operated, used for purposes other than that for which it is intended, or if it is repaired by unqualified persons.

II. AIR FOR VENTILATION AND COMBUSTION

WARNING: If the area in which the appliance may be operated is smaller than that defined as an unconfined space, or if the building is of unusually tight construction, provide adequate combustion and ventilation air by one of the methods described in the National Fuel Gas Code, ANS Z223.1, Section 5.3, or applicable local codes.

NOTE: This Section does not apply if the appliance is being installed in a vented configuration. This Section applies only if the appliance is being installed in an unvented firebox, or in a vented fireplace or firebox with the damper closed.

- Adequate ventilation must be provided for safe operation of this appliance. This appliance shall
 not be installed in a confined space or unusually tight construction unless provisions are made
 for adequate combustion and ventilation air.
- To begin with, you must determine if your home has unusually tight construction. Air leaking around doors and windows may provide enough fresh air for combustion and ventilation. However, in buildings of unusually tight construction, you must provide additional fresh air.
- Unusually tight construction is defined as construction in which walls and ceilings exposed to the outside atmosphere have a continuous water vapor retarder with a rating of one perm (6 x 10⁻¹¹ kg per pa-sec-m²) or less with openings gasketed or sealed; AND weather stripping has been added on openable windows and doors; AND caulking or sealants are applied to areas such as joints around window and door frames, between sole plates and floors, between wall-ceiling joints, between wall panels, at penetrations for plumbing, electrical and gas lines, and at other openings.

- If your home meets all three of the above criteria, you must provide additional fresh air. See Ventilation Air from Outdoors, below. If your home does not meet all three of the above criteria, you must next determine whether or not you are installing the appliance in a confined space.
- The National Fuel Gas Code, ANS Z223.1 defines a confined space as a space with a volume of less than 50 cubic feet per 1,000 Btu per hour (4.8 m³ per kw) of the aggregate input rating of all appliances installed in that space. Rooms communicating directly with the space in which the appliance is installed are considered a part of the space. ("Communicating directly" is defined as having doorless passageways or ventilation grills between the two rooms.)

Use the following worksheet to determine if you have a confined or unconfined space. Remember, space is defined as the room in which you will install the appliance plus any adjoining rooms with doorless passageways or ventilation grills between the rooms.

- Step 1: Determine the total Btu/hr of all fuel-burning appliances in the space. Include 12,000 Btu/hr for this appliance, and add any other gas or alcohol burning appliances (such as gas water heaters, gas furnaces, gas stoves, etc.) that are installed within the same space. Do not include any direct-vent gas appliances, however, as these draw combustion air from the outdoors and vent to the outdoors.
- Step 2: Divide the number obtained in Step 1 by 1000.
- Step 3: Determine the volume of the space (length x width x height). Add the volume for any other rooms in the space, as defined above.
- Step 4: Divide the number obtained in Step 3 by 50.
- Step 5: Compare the number obtained in Step 4 with the number obtained in Step 2. If the number from Step 4 is smaller, the space is confined, and you must provide additional air for combustion and ventilation. If the number from Step 2 is smaller, the space is unconfined, and you may install the appliance.

Example 1: The appliance is to be installed in a room that is 15 ft x 20 ft with 8 ft ceilings. There are no doorless passageways or vents between rooms, and there is a 40,000 Btu/hr gas wall heater in the room.

- Step 1: Total Btu/hr = 12,000 (this duraflame® illuma™ appliance) + 40,000 (gas wall heater) = 52.000 Btu/hr
- Step 2: Divide by 1000: 52,000 / 1000 = 52.
- Step 3: Volume of space = $15 \times 20 \times 8 = 2400$.
- Step 4: Divide by 50: 2400 / 50 = 48.
- Step 5: Compare the numbers: 48 (Step 4) is smaller than 52 (Step 2), so the space is confined. You must provide additional ventilation.

Example 2: Now let's assume the 15 ft x 20 ft x 8 ft room with the 40,000 Btu/hr gas stove has a doorless passageway communicating with a room that is 15 ft x 15 ft with 8 ft ceilings.

Step 1:Total Btu/hr = 12,000 (this duraflame® illuma™ appliance) + 40,000 (gas wall heater) = 52,000 Btu/hr

Step 2: Divide by 1000: 52,000 / 1000 = 52.

Step 3: Volume of space = $(15 \times 20 \times 8) + (15 \times 15 \times 8) = 2400 + 1800 = 4200$.

Step 4: Divide by 50: 4200 / 50 = 84.

Step 5: Compare the numbers: 84 (Step 4) is larger than 52 (Step 2), so the space is unconfined. You may install the appliance in the room.

If your space is confined, additional ventilation air must be provided, either from within the building or from outside.

Within the building, you could ventilate to an adjoining space. To do this, you have two options: either remove the door to the adjoining room, or provide two permanent vented openings (one opening must be within 12" of the ceiling and the other within 12" of the floor; both openings must be on the wall separating the two spaces). Follow the *National Fuel Gas Code, NFPA 54/ANS Z223.1, Section 5.3, Air for Combustion and Ventilation* for the required size of ventilation grills.

WARNING: After you make ventilation adjustments, redo the worksheet calculations above, adding the space of the adjoining room. The combined spaces must have enough fresh air to supply all appliances in both spaces.

To provide extra fresh air from outside, supplemental ventilation grills or ducts may be used. Two permanent openings, one within 12" of the ceiling and the other within 12" of the floor should be installed. Connect the openings directly to the outdoors or spaces open to the outdoors (such as attics and crawl spaces). If supplemental ventilation is required, a qualified Contractor should be used to install ventilation ducts. Follow the *National Fuel Gas Code, NFPA 54/ANS Z223.1, Section 5.3, Air for Combustion and Ventilation* for the required size of ventilation grills. IMPORTANT: Do not provide openings for inlet or outlet air into an attic if the attic has a thermostat-controlled power vent. Heated air entering the attic will activate the powervent.

III. SETUP

WARNING: This appliance is for use only in a solid-fuel-burning masonry fireplace, a UL127 factory-built fireplace, or in an approved ventless firebox (ANSI Z21.91).

CAUTION: Do not remove the metal data plate (rating plate) that is attached to the base of the appliance. It contains important product information.

WARNING: Before installing this appliance in a solid-fuel-burning fireplace, the chimney flue and firebox must be cleaned of soot, creosote, ashes, and loose paint by a qualified chimney cleaner. Creosote will ignite if highly heated. Inspect the chimney flue for damage. If damaged, operate the appliance with the flue damper closed.

WARNING: Seal any fresh air vent or ash clean-out doors located on the floor or walls of the fireplace. Failure to do so may result in drafts that could cause sooting. Use a heat-resistant sealant. Do not seal the chimney flue damper.

WARNING: Never install this appliance in a bedroom or bathroom unless installed as a vented appliance in a recreational vehicle where curtains, furniture, clothing, or other flammable objects are less than 42 inches from the front, top, or sides of the appliance in high traffic areas in windy or drafty areas

CAUTION: This appliance creates warm air currents that heat the wall surfaces next to the appliance. Installing the appliance next to vinyl or cloth wall coverings or furniture, or operating the appliance where impurities in the air (such as tobacco smoke, aromatic candles, cleaning fluids, oil or kerosene lamps, etc.) exist, may discolor the walls and furniture.

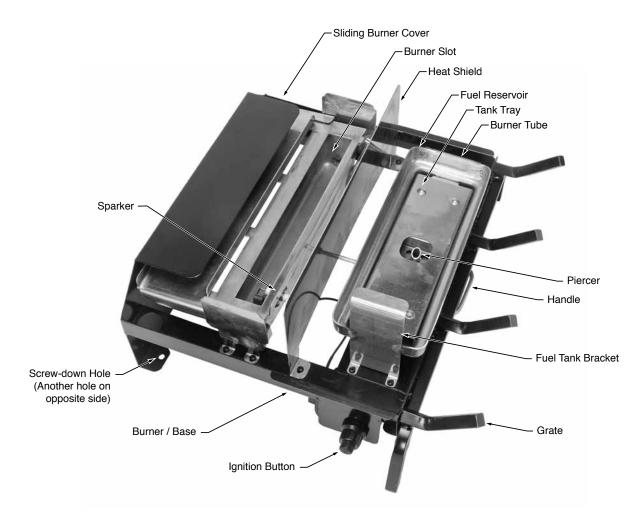


Figure 1
Appliance Overview

Install this appliance in compliance with all local building codes. In the absence of local codes, use the latest edition of *The National Fuel Gas Code* (ANSZ223.1, also known as NFPA54), available from:

American National Standards Institute 25 West 43rd Street, 4th floor New York, NY 10036 or National Fire Protection Association, Inc. 1 Batterymarch Park Quincy, Massachusetts USA 02169-7471

This appliance is designed to burn with very low emissions, so that it requires no outside venting ("ventless" or "vent-free" operation). It can be installed and used in a fireplace with the flue damper closed, as long as the room in which it is installed is adequately ventilated (see Section II, Air for Ventilation and Combustion). State and local codes in some areas prohibit the use of vent-free heaters. Check the building codes in your jurisdiction before installation. This appliance also may be operated as a vented decorative product by opening the flue damper of the fireplace.

IMPORTANT: Vent-free appliances add moisture to the air. Although this is beneficial, installing the appliance in rooms without enough ventilation may cause mildew to form from too much moisture (see Section II, Air for Ventilation and Combustion).

IV. MINIMUM FIREBOX DIMENSIONS

WARNING: Maintain or exceed the minimum clearances.

V. CLEARANCES (Vent-free operation only)

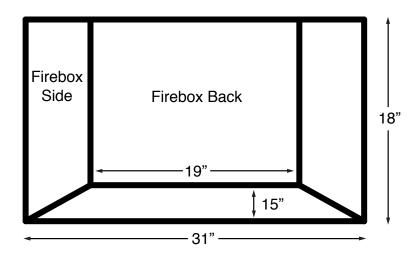


Figure 2
Minimum Dimensions of Firebox

WARNING: Maintain or exceed the minimum clearances.

VI. INSTALLING DAMPER STOP (Vented operation)

For vented operation of this appliance, a damper stop must be installed in the fireplace to prevent full closure of the damper blade. The damper stop must be adjusted to provide a minimum flue opening of 29 square inches. You can obtain a damper stop at your local hearth products dealer or hardware store.

WARNING: The fireplace and log set function as a system. If the fireplace is spilling combustion gases into the room (check draft with a match, candle or smoke stick), reposition the damper clamp to open the damper wider, until a positive draft (i.e. all combustion emissions go up the chimney) is obtained.

VII. INSTALLATION

- 1. Carefully remove the contents of the carton. You should find:
 - The burner / base (Figure 1)
 - Four (4) ceramic fiber artificial logs (Figure 3).
 - Two (2) appliance base screws inside a small bag.
 - One AA battery.

If components are missing, contact Duraflame Consumer Affairs.

2. Remove all these components from their packaging. When handling the logs, take care not to damage them. Keep packing materials away from children, as they could be a choking or suffocation hazard.

- 3. Check each component for shipping damage. If components are damaged, contact the store where purchased or Duraflame, Inc.
- 4. Check the firebox dimensions to ensure that they are at least equal to the minimum dimensions shown in Figure 2. The minimum clearances that the appliance originally required will be adequate for this installation. You will need the two (2) ¼" x 1 ½" masonry screws provided for this step. Place the burner / base in a solid-fuel-burning masonry fireplace, a UL127 factory-built fireplace, or an approved (to ANSI Z21.92) ventless firebox, centered left to right on a level surface. When it is positioned properly, mark the screw locations through the screw-down holes in the back legs of the base (see Figure 1). If you are installing the appliance in a brick-bottomed fireplace, mark the screw locations in a mortar joint between the bricks. Remove the appliance, and drill holes at the marked locations using a 3/16" masonry drill bit. Replace the appliance, and attach it to the fireplace floor using the masonry screws.
- 5. For this appliance to function properly, the burner / base must be stable and level. If the floor of your fireplace is uneven or out of level, you must shim under the front grate legs or the rear support of the burner / base. Shim only with metal washers or other non-flammable objects.
- 6. Place the back log on the shelf at the rear of the appliance (see Figure 4). Make sure it is centered left to right and that it sits so that the front part of the log is behind the front edge of the metal part it sits on. Next set the front log in place (see Figure 5). The cavity of the log fits over the fuel canister tray. The metal plate faces the rear of the appliance, and the log rests on the grate. Check to see that the log is centered by opening the fuel canister door and looking into the fuel canister cavity. The canister tray should be centered in the opening with the gap between the canister tray and the log wall on the left (Figure 6) is equal to the gap on the right (Figure 7). Also, push the log as far back as possible. Then place the left and right small logs on top of the front and rear logs (see Figure 8). Ensure that when the door on the front log is opened and you look down the front edge, that the canister tray is touching the inside wall of the front log (see Figure 9). Make sure that the screws protruding from the metal plate are not resting on the back edge of the tray.
- 7. Make sure the charred area on left small log faces the inside of the log set. The pins are on the small logs and the holes are in the front and rear logs. If the back log is too far back or too far to the front, move it so that the pins fit properly. This will ensure that the logs are placed properly. NOTE: When the log pile is properly positioned, the flames should be centered in the log pile and should not come into contact with any of the logs. If there is contact, extinguish the appliance using the built in snuffer device, allow the unit to cool for at least 30 minutes, and reposition the log pile so that the flames are centered.
- 8. Next step is to install the battery into the igniter. The igniter is on the left side of the appliance towards the front just under the front log (see Figure 1). The button and front cover of the igniter twists off (see Figure 1). Twist the front off, install the battery and twist the front back on. Push the button and you should hear the sparker creating the sparks. If you do not hear or see the sparks, you either have a dead battery or you did not install the battery properly. If after remedying both issues the sparker still does not create a spark, contact the installer, the store where you purchased the product or Duraflame, Inc.

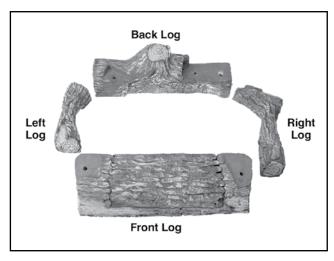


Figure 3 Logs



Figure 4
Placement of Rear Log



Figure 5
Placement of Front Log

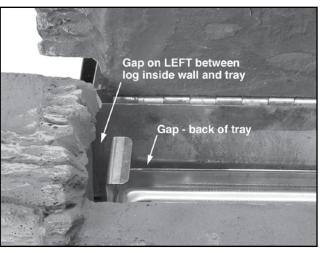


Figure 6
Showing space between tray and log inside wall on the left

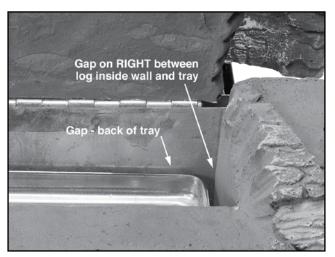


Figure 7
Showing space between tray and log inside wall on the right

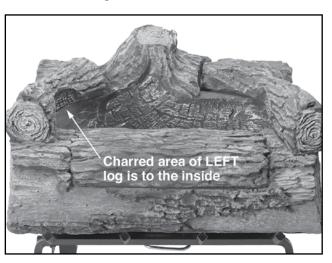


Figure 8
All logs properly placed



Figure 9
Proper placement of front log with a gap between the back of the tray and the hinge plate

VIII. INSTALLING THE FUEL CANISTER

NOTE: Use only 1 liter duraflame® illuma-fuel® bio-ethanol canisters with this appliance. The canisters are recyclable but NOT refillable.

- 1. Open the door on the top of the front log of the log pile (see Figure 10).
- Remove the child resistant screw cap from a canister of illuma-fuel (by pushing down on it and twisting at the same time) to expose the foil seal covering the opening of the canister. DO NOT REMOVE THE FOIL SEAL.
- 3. Invert the canister and position it so that the left end fits under the bracket at the left end of the canister tray (see Figure 11). Lower the canister so that the neck is aligned with the piercer hole in the tray at the bottom of the fuel canister compartment. Push down firmly on the canister until the piercer punctures the foil seal and the canister is seated firmly on the tray. To assist the flow of illuma-fuel from the canister, wiggle the canister back and forth slightly on the piercer. You might hear a soft gurgling noise as the fuel from the canister begins to fill the burner—this is normal.
- 4. After the canister has been installed, leave it in place and close the door of the front log. The appliance is now ready for use. At this point the canister still contains fuel and should not be removed until the canister is completely empty. The canister automatically feeds more fuel into the burner after the fuel is ignited and starts burning. This continues until all the fuel is used from the canister. The burner will continue to burn for a while after the canister is empty. At some point the flame will move to the right side of the burner to indicate that the fuel is about to run out. You can refuel the appliance at this time (see Section X) or let the flame die down.

IX. OPERATION

WARNING: If you do not follow these instructions exactly, a fire may result, causing property damage, personal injury or loss of life.

NOTE: During initial operation of the new appliance, the logs may emit a slight odor. This is normal, and the odor will dissipate after a few hours. Open a window or the fireplace damper to vent the odor, if you find it unpleasant. This will not occur in subsequent use.

NOTE: Before burning the appliance for the first time, install a canister of duraflame[®] illuma-fuel[®], let the fuel sit in the burner for five minutes, and check to ensure there aren't any leaks below and around the front log or below the burner (see Figure 18).

- 1. Use the handle (located at the front of the appliance beneath the grate Figure 12) to slide the snuffer device to the rear of the burner. Be sure that the cover is slid back far enough to fully expose the burner slot (see Figure 13) and the air slots behind the burner.
- 2. Install a canister.
- 3. Wait a few minutes then push the igniter button located at the front left of the burner / base. The burner should light. If it does not, hold down the igniter button until it does. You may need to wait a minute or so to allow the duraflame illuma-fuel to drain into the burner reservoir. Initially, the flames might be low with a bluish hue. The flames should grow in height and become yellow and orange as the fuel heats up. Make sure that your head and face are not above the appliance when you are lighting it. NOTE: If the fireplace is very cold or the temperature of the fuel is very low, the fuel may not ignite by using the igniter. If this occurs, please use a long match or long butane lighter to ignite the fuel.



Figure 10
Door on front log open

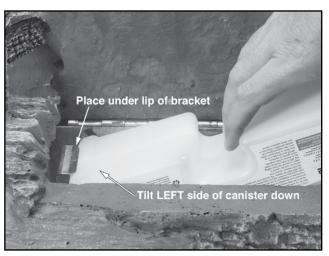


Figure 11
Proper placement of canister

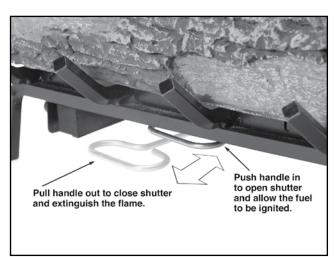


Figure 12
How to operate snuffer

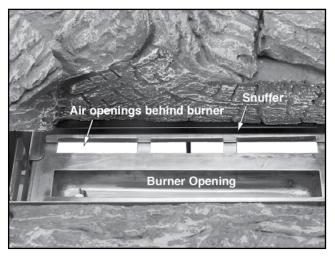


Figure 13
Burner slot and air slots behind burner

4. To extinguish the flames, grasp the handle of the snuffer device, and slide the cover forward over the burner slot. The slot must be completely covered to extinguish the flames. This appliance can be relit at any time—even immediately after extinguishing, if desired, using the igniter.

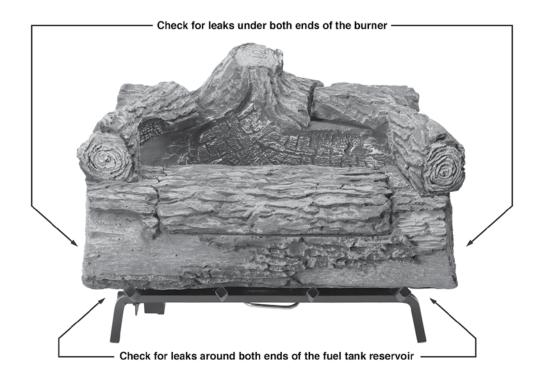


Figure 14
Check for leaks on the floor of the fireplace under the areas indicated.

X. REFUELING

This appliance is designed so that one canister of illuma-fuel® (1 L) will provide a continuous supply of fuel to the burner for about an hour and forty-five minutes*. To allow for uninterrupted burning beyond this time, the burner has been designed so that ten minutes before the fuel is completely exhausted, the flame will start to shift to the right side of the burner. At this point, you can replace the empty canister with a full one. This can be done while the appliance is burning—there is no need to extinguish the flames.

To change the canisters:

- 1. Open the door on the top of the front log of the log pile. The open door acts as a flame shield. Use your fingers to lift the top door as shown in Figure 15. Only touch in the areas indicated. Please note that even though the area indicated in Figure 15 is cool, areas of the log closer to the flame will be hot.
- 2. Check the fuel canister and make sure IT IS EMPTY.
- 3. Grasp the empty canister by the notches provided in the canister body (see Figure 16). Pull it up and tip it so that it clears the bracket (make sure the left side of the canister is tipped so it is lower than the right side) and then lift it straight up to remove it. Keep the canister away from the flames. Keep canister tilted down on the left side while removing it. This will ensure that any small amount of fuel that may still be in the canister does not spill out.

- 4. Install a new canister as described above (see INSTALLING THE FUEL CANISTER, Steps 2 and 3).
- 5. After the canister has been installed, close the door of the front log. The appliance is now ready for continued use.
- 6. If the flame is out by this time, use the igniter to start it again.

*NOTE: Burn times will vary depending on conditions such as temperature, draft and how level the surface is.

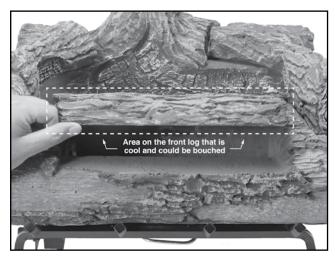


Figure 15
Area safe to touch log while fire is burning



Figure 16
How to remove canister when fire is burning

XI. ADJUSTING BURN TIME

You can extend the burn time and flame height of the fire. Experiment with different settings by slowly moving the snuffer forward as you would when you want to extinguish the flame (see Section IX Step #4), but do not cover the burner completely, or the fire will be extinguished. By moving the snuffer partially over the burner, the burn time will be extended. For maximum flame height and minimum burn time, push the snuffer all the way to the back.

XII. MAINTENANCE

WARNING: Extinguish the appliance and let it cool at least 30 minutes before cleaning.

CAUTION: Periodic cleaning is necessary to ensure proper functioning of this appliance. The appliance might need more frequent cleaning due to excessive lint from carpeting, bedding material, pet hair, etc.

The only maintenance needed for the continued good performance of this appliance is periodic cleaning, at least once per year or more depending on frequency of use, and checking for leaks. Note that after some time, heat might cause the stainless steel burner to discolor slightly. This is natural. To clean the appliance:

Allow the flames to die out naturally by consuming all the fuel in the canister and burner. This
will ensure that there is only residual alcohol in the burner. Also, the burner is quite hot while
in operation. Wait at least 30 minutes after the flames have died out before cleaning the
appliance.

- 2. Metal components of the appliance should be cleaned using a damp cloth and a mild dish detergent. Never use abrasive cleaners, as they can damage the metal.
- 3. Remove the logs carefully.
- 4. Lift out the piercer and clean underneath.
- 5. Clean the area inside the burner. Be very careful when doing so, because the top edges of the burner may be very sharp.
- 6. Dust the logs gently.
- 7. Make sure that all parts of the appliance are returned to their proper operating positions by following assembly instructions. Ensure the logs and the piercer are installed properly (see Figure 17). The top surface of the piercer should be level. If it is higher on the left end, then turn it around and place it back in place again.
- 8. Check for leaks by installing a fuel canister into the appliance and letting it sit for five minutes. Check for leaks in the areas shown in Figure 14 before igniting the fuel.







Figure 17
How to install piercer

XIII. TROUBLESHOOTING

Use the following guide to solve any problems you might encounter in operating this appliance.

PROBLEM

1. You see fuel on the ground near the appliance.

2. You do not see fuel in the burner prior to lighting the appliance and after installing a canister.

3. You push the igniter button but the appliance does not light.

SOLUTION

- DO NOT light the burner. Extinguish any open flame near the spill. Wipe up the spill, and wait several minutes for the residue to evaporate. If you see no additional fuel on the ground, you may light the burner. If you see additional fuel on the ground, you might have a leak. DO NOT use this appliance if it leaks fuel.
- The appliance may not be level. Check to make sure the appliance is level, and shim under the grate legs or rear support, if necessary. Shim only with metal washers or other non-flammable objects.
- A small piece of foil that covers the opening of the illuma-fuel™ canister might be obstructing the piercer tube. Open the fuel canister door on the front log. Gently wiggle the fuel canister left to right and front to rear on the fuel canister tray to enlarge the opening in the foil. DO NOT lift the illumafuel canister from the tray, as this could cause a fuel spill.
- The tubes connecting the burner to the fuel reservoir might be clogged. Starting at the tube opening in the bottom of the burner, run a thin, flexible wire through the length of the tube to remove the obstruction.
- The battery in the igniter may be dead. Replace them with new batteries.
- The sparker tip may be out of position. The tip of the sparker should be about ¼" above the level of the sparking point. Carefully bend the wire so that the tip of the sparker wire is in this position
- The fuel is cold or the appliance is cold.
 Use a long match or a long butane lighter to ignite the fuel.

XIV. PARTS LIST

Part Number

61001 Burner / Base

61002 Igniter

61003 Front Log

61004 Back Log

61005 Left Small Log

61006 Right Small Log

61007 Canister Tray & Piercer

61008 Heat Shield

61009 Grate

61010 Masonry Screws

WARRANTY INFORMATION

KEEP THIS WARRANTY

Model:	
Serial No.:	
Date Purchased:	

Always specify model and serial numbers when communicating with Duraflame, Inc.

We reserve the right to amend the specifications of this product at any time without notice. The only warranty applicable is our standard written warranty. We make no other warranty, expressed or implied.

LIMITED WARRANTY - DURAFLAME ILLUMA™ LOG SETS AND FIRE PIT PRODUCTS

Duraflame, Inc. warrants to the original purchaser this product to be free from defects in materials and workmanship, exclusive of normal manufacturing defects and customary variations not affecting ordinary performance, under normal home use and service for one (1) year from the date of first purchase, provided that the product has been properly installed, operated, and maintained in accordance with all applicable instructions. To make a claim under this warranty the original purchase receipt, Bill of Sale, or cancelled check must be presented.

Our obligation under this warranty shall be limited to the repair or exchange of any part(s) which may be demonstrated to be defective from faulty material or poor workmanship under normal home use and service within one (1) year from the date of first purchase and which are required to restore this product to proper operating condition, along with a reasonable allowance for labor when provided by a Duraflame, Inc. Authorized Service Center. Warranty part(s) MUST be obtained through authorized dealers of this product and/or Duraflame, Inc., which will provide original factory replacement parts. Failure to use original factory replacement parts voids this warranty. Correction in the manner provided above shall constitute a fulfillment of all liabilities of Duraflame, Inc. with respect to the quality of the product. The product MUST be installed by a person capable of following all instructions in accordance with all local codes and instructions furnished with the unit.

This warranty does not apply to parts that are not in original condition because of normal wear and tear, or parts which have been subject to accident, negligence, alteration, abuse, or misuse, or which fail or become damaged as a result of lack of proper maintenance, or to defects caused by improper assembly or installation. We make no warranty whatsoever in respect to accessories or parts not supplied by us. Travel, diagnostic cost, labor, shipping and handling, and any and all such other costs related to repairing a product damaged through normal wear and tear, misuse, or negligence will be the responsibility of the owner.

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This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

For information about this warranty write to:

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