

INSTALLATION AND OPERATION INSTRUCTIONS FOR THE ELEGANT EMBERS™ RADIANT HEAT BURNER SYSTEM™

IMPORTANT: Fireplace must be set up with a key valve or pilot control by a certified installer.

Completely read instructions before installing or operating your gas log system. Your fireplace must have proper ventilation for safety. This instruction manual must be left with owner if installed by a contractor.

Elegant Embers™ ceramic logs are made of refractory concrete. Because of the hand finishing details of each log, they are the most realistic logs available. These gas logs must be burned in a vented, non-combustible fireplace only that is designed and approved to burn wood. The chimney must be free of any obstructions and the damper fully opened. The Radiant Heat Burner System™ is designed to radiate heat into your home while giving you the most realistic and beautiful gas log fire on the market. Under the correct conditions, fumes and bi-products will exhaust up through the chimney. If soot or fumes are evident in the room while the damper is open it shows that the fireplace draft is not working properly. **Correct defective fireplace draft before operating gas logs.**

BURN-IN PERIOD- Elegant Embers™ gas logs can withstand high temperatures but are recommended to be burnt on for only 15 minutes during your first burning cycle. After at least one hour of cooling, the logs can be burnt on for any length of time.

SAFETY- Never store any flammable liquids or vapors near the Radiant Heat Burner System™ or any other appliance. If you smell gas and cannot shut it off immediately:

- * Exit the facility immediately.
- * Do not try to light any appliances.
- * Do not touch any electrical switch.
- * Do not use any phone in the building but immediately call your gas supplier from a neighbor's phone and follow the gas supplier's instructions.
- * Call the fire department if your gas supplier cannot be reached.

WARRANTY- Elegant Embers™ gas logs and the Radiant Heat Burner™ carry a limited lifetime warranty against breakage in the original fireplace. Any labor is excluded in this warranty. If breakage is caused by excessive handling after using the logs, the warranty is voided. There is a two year limited warranty on all metal parts and accessories in the original fireplace. During this period items will be replaced for the cost of shipping.

WARNING- Follow the information exactly as stated in this manual. By not doing so, a fire or explosion may result which may cause property damage, personal injury or loss of life.

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IMPORTANT INFORMATION FOR THIS APPLIANCE

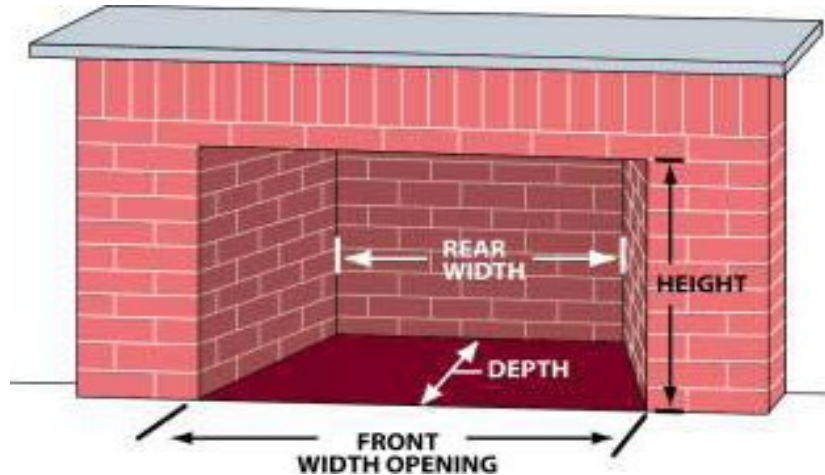
NOTE: The Radiant Heat Burner System™ contains orifices that have been designed for this unit to achieve BTU and gas input rating. Do not modify. Failure to use the factory orifices may cause property damage, personal injury or loss of life.

- A gas supplier or qualified installer must install this appliance.
- The unit must be installed in a solid fuel-burning fireplace only, with a functional flue and made of noncombustible materials. If a Radiant Heat Burner™ has been installed in a fireplace, solid fuels cannot be used.
- A permanent free opening must be provided by either the fireplace chimney or chimney damper to vent flue gas. Any chimney damper must be fixed in such a manner, which will maintain the permanent free opening at all times. Refer to chart on page 4 to determine the minimum permanent free opening based upon chimney height and the appliance BTU rate. Refer to the Damper Stop instructions for additional directions on page 6.
- Do not use a natural gas appliance with a propane gas inlet supply. Do not use a propane appliance with a natural gas inlet supply. This appliance has been assembled for a specified inlet supply gas.
- It is the home owner's responsibility to assure their fireplace has a sufficient draft. Many factors will affect the fireplace drafting. The chimney height and the BTU rating will determine the minimum free opening. If soot or fumes exist in the room while the gas is burning and the damper is fully open, this shows that the fireplace draft is not working properly. Do not operate your gas log set until the fireplace draft is corrected. Consult a fireplace specialist.
- Gas log appliances have many different local government codes. Be sure that the installation and the provisions for combustion and ventilation air conform with local government codes and/or with the National Fuel Gas Code ANSI Z223.1
- The maximum inlet supply pressure for the purpose of input adjustment is 10.0 inches W.C. (natural gas) and 12.0 inches W.C. (propane). The minimum inlet supply pressure is 5.0 inches W.C. (natural gas) and 8.0 inches W.C. (propane).
- During any pressure testing in excess of ½ psig (3.5k Pa), the appliance and its individual shut off valve must be disconnected from the gas supply piping system.
- The logs become fragile and should not be handled after having been burnt on for several hours. Rubbing or knocking logs can cause them to crumble and is not covered under the warranty.
- A fireplace screen is recommended when operating the appliance unless other provisions for an air supply are provided.
- When using glass fireplace doors, always keep the doors fully open when you are operating the gas log appliance. The fresh air will keep the appliance components from overheating.
- Be sure to have your fireplace chimney or venting system examined annually and cleaned as required by a qualified agency.

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DETERMINING CORRECT SIZE LOGS FOR YOUR FIREPLACE

The picture below shows a view of a fireplace. The Radiant Heat Burner™ requires a minimum height of 22 inches. There is a minimum clearance for the front opening, height and depth for each gas log set. The depth and width of a fireplace are critical dimensions in determining the largest set that will fit into a fireplace.



The chart below shows the minimum width and depth for each burner size.

Natural Gas Chart

(No Pilot Light Installed)

Burner Size	Minimum Front Width	Minimum Depth
18" Radiant Heat Burner™	24 1/2 Inches	16 Inches
24" Radiant Heat Burner™	28 1/2 Inches	18 Inches
30" Radiant Heat Burner™	34 Inches	18 Inches

Propane or Natural Gas Chart

(Pilot Light Required)

Burner Size	Minimum Front Width	Minimum Depth
18" Radiant Heat Burner™	30 Inches	16 Inches
24" Radiant Heat Burner™	34 Inches	18 Inches
30" Radiant Heat Burner™	42 Inches	18 Inches

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**FOR MASONRY BUILT FIREPLACES
FREE OPENING AREA OF CHIMNEY DAMPER FOR VENTING
COMBUSTION PRODUCTS FROM DECORATIVE APPLIANCES FOR
INSTALLATION IN SOLID FUEL BURNING FIREPLACES**

Chimney Height*(ft)	Appliance Input Rate (kBtu/hr)										
	20	30	40	50	60	70	80	90	100	110	120
6	17.6	25.7	33.8	41.7	49.2	56.6	64.0	71.4	78.8	86.2	93.5
8	16.5	23.7	31.2	38.7	45.5	52.4	59.7	66.9	74.1	81.3	88.6
10	15.1	21.7	28.7	35.2	41.7	48.2	54.3	60.2	66.1	72.0	77.9
15	14.1	19.9	26.1	32.0	37.7	43.2	48.8	54.1	59.4	64.6	69.9
20	12.9	18.5	23.7	28.8	34.3	39.8	44.4	49.1	53.8	58.4	63.0
30	12.2	16.9	21.6	26.5	31.2	35.9	40.3	44.5	48.6	52.7	56.6

*Height is from hearth to top of chimney and the minimum height is 6 feet. **
Chart shows minimum opening (sq. in.) for a given height and input rate.

Radiant Heat Burner System™ Parts List

<ul style="list-style-type: none"> (1) Pair of Hand Gloves (2) Damper Lock (3) Bag of Sand (4) Radiant Heat Burner™ (5) 3/8” Tubing W/Flare Nuts (6) 1/2” FIP – 3/8” Flare Brass Elbow (7) 3/8” FIP – 3/8” Flare Brass Elbow (8) Ash – Large (9) Bumper (10) Ash – Small (24” and 30” Burners Only) (11) Grate 	<ul style="list-style-type: none"> (12) Grate Positioning Clamp (set of 2) (13) Textured Ash (14) Glowing Embers (15) Crackle Chips (16) Pitch Brush (17) Pitch (18) Blessings (19) Bag of Feather Rock (11 Pieces) (20) Instructional Video (21) Owners Manual
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Tools Required For Installation:

Below is a list of supplies and tools you may need for the installation of your

Radiant Heat Burner System™

- *Pliers
- *Adjustable Open-End Wrench 8” – 10”
- *Pipe Wrench 8” – 10”
- *Pipe Compound or Teflon Tape
- *Flashlight
- *Butane Lighter
- *Small Phillips & Flat Head Screwdriver
- *Black Fireplace Paint
- *Fillet Knife or Piercing Tool
- *Leak Detector or Soapy Water Solution & Brush for Gas Leak Testing

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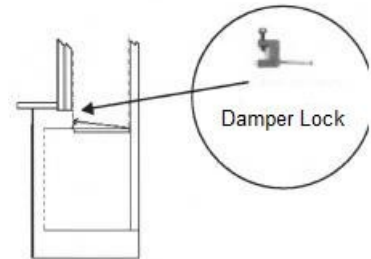
NOTE: WHEN OPERATING GAS LOGS THE DAMPER MUST BE OPEN.

Use the hand gloves (Item #1) provided throughout the entire installation.

1) Lock Damper Open:

Install the damper clamp (Item #2) provided to prevent full or accidental closing of the fireplace damper. The damper clamp must be permanently installed so that the damper is fully open when operating the gas logs. To install the damper clamp:

- A. Open the fireplace damper.
- B. Place damper clamp over the damper blade.
- C. Tighten the damper clamp set screw so that it affixes to the damper blade.
- D. Install a permanent damper stop if the damper clamp does not fit to prevent full or accidental closing of the damper.



Refer to page 4 for Minimum Opening Requirements

2) Blacken the Fireplace:

This is an optional step but most fireplaces will show better when blackened for a more ambiance atmosphere. Use a stationary fan or respirator when spraying. Use appropriate flat black paint. First, spray in vertical strokes, then crosswise to cover entire firebox walls.



3) Spread the Sand:

Cover the entire floor of the firebox with a thin layer of silica sand (Item #3). The sand helps to stabilize the remaining dressing that will be installed by acting like a magnet and creating a secure base.



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4) Install the Burner:

The Radiant Heat Burner™ (Item #4) is factory installed for even distribution of flame in your fireplace. The adjustable plate on the burner is mounted in the closed position so that the majority of the flame is forced forward putting maximum heat into your room. To reduce the heat output, remove the adjustable plate and the flame will then be directed mainly to the center of the fireplace. This is a popular application for showrooms, restaurants and other commercial settings.



5) Connect the Fuel Line:

The Radiant Heat Burner™ has been manufactured with the fuel line connection on both left and right side. The other side of the fuel line has been capped off. Reverse as needed for closest connection in your fireplace. On the side closest to your fuel line, attach the 3/8" FIP flare brass elbow (Item #7) to the burner. Be sure that the burner flap opening is facing forward. Apply pipe compound or Teflon tape to the 1/2" gas inlet pipe threads. Attach the 1/2" FIP - 3/8" flare brass elbow (Item #6) to the 1/2" gas inlet pipe by securing a vice grip to the 1" gas inlet pipe and turn the 1/2" FIP - 3/8" flare brass elbow clockwise with an adjustable wrench until one more complete turn cannot be made. Position the elbow toward the rear of the firebox. If the gas line is plumbed in the rear of the firebox, screw the elbow to the forward position. Attach the 3/8" flare nut of the aluminum tubing (Item #5) to the 3/8" flared brass elbow. Turn until fastened securely. Place burner pan in the fireplace. To determine the final position, place the grate (Item #11) over the burner and center the grate in the fireplace. Position the burner so that the front side of the burner is 1" forward of the cross bar of the grate. (Refer to picture on step 9.) Attach the grate positioning clamps (Item #12) to the grate to use as a guide in repositioning the grate in Step 9. Remove the grate.



6) Test Burner for Noise:

Some gas fireplaces are installed with a flexible gas line and are prone to make a whistling sound. You can test for this noise by doing the following. Wad up a tissue or napkin, light it and place it on the center of the burner. Turn the key valve counter clockwise until the gas lights and produces a moderate flame. If no sound is heard, turn off the gas and continue with the installation. If you hear a whistling sound, turn off the gas and slightly cover the burner fuel line with any sand that is available, such as sand box or planting sand. Repeat the lighting step and listen for the sound again. You may proceed with the installation if no whistling sound is heard. If the sound recurs add more sand until you no longer hear the whistling.

7) Install the Bumper:

With the black side down, position the foil bumper (Item #9) under the front of the burner, being sure to leave 1" exposed. Bend the exposed foil upward at a 90° angle. Fold the ends of the foil bumper around the sides of the burner.



8) Pour the Ash:

While holding the burner flap in the widest open position, pour the large ash bag (Item #8) over the Radiant Heat Burner™ pan until completely covered. Pour the remaining ash forward from the burner opening creating a 45° incline and position the burner flap on top.



9) Position the Grate:

Position the grate over the Radiant Heat Burner™ so that the front of the burner is 1" in front of the cross bar of the grate.



10) Cover the Burner With Ash:

Cover the Radiant Heat Burner™ along with all the gas connections completely with ash (Item #10). Be sure that all burner surfaces, front, sides and back are covered leaving no surface exposed. This is required for the life time warranty of the burner to remain in effect! Pour any remaining ash behind the burner.



11) Spread the Textured Ash:

Lightly but completely cover the front and sides surrounding the burner unit with textured ash (Item #13)



12) Distribution #1 of Glowing Embers:

Wad and place the glowing embers (Item #14) on the front upward bend of the grate. Place glowing embers on both sides of the grates front upward bend proceeding toward the back of the firebox, approximately 4”.



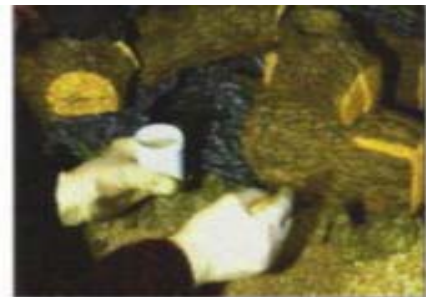
13) Log Set Placement:

Place the back log toward the rear of the grate. Set the front log(s) at the front of the grate directly behind the front rise. Re-position the back log approximately 2” in back of the front log(s). Sprinkle crackle chips (Item #15) behind the front log(s) and if the logs are split, sprinkle additional crackle chips in the split opening. The top logs are placed at your discretion.



14) Add Blessings and Glowing Embers #2:

Apply a light coating of pitch (Item #17), using the pitch brush (Item #16), across the lower half of the front log(s) (both front and sides of logs.) You may apply lightly to the rest of the logs. Starting at the bottom of the front log spread a 2 1/2” band of glowing embers. Continue across the front of the log and ending at the bottom of the other side, giving it a “beard effect”. If you have split logs place some glowing embers inside of the split. Lightly toss blessings (Item #18) onto the entire log set. Be sure to focus on areas where the pitch has been applied.



15) Feather Rock Placement:

Disperse the Feather Rock (Item #19), at your discretion, below glowing embers and around log set. (Optional) Apply pitch to top of feather rocks and sprinkle blessings onto each.



16) Creating the Front Ambiance:

Take a fillet knife or pointed object and spike through the embers in a zigzag pattern. Use additional glowing embers, tear off dime size fluffs and place lightly in a 1/2” random pattern in the area that you have spiked. Light the gas logs and observe the distribution of the front flame pattern and the glowing ember effect. You may continue to spike or compress the glowing embers until the desired look is present.

Congratulations! You have now completed the installation.