

# The Appalachian Stove

## Installation and Operating Instructions for Gas Log Heaters Models UV-Campfire-MIL (24/30)-N AND UV-Campfire-MIL (24/30)-P

**Installer: Please leave these instructions with the owner.  
Owner: Please retain these instructions for future reference.**

### UNVENTED GAS APPLIANCE

MODEL UV-Campfire-MIL 24N/  
UV-Campfire-MIL 30N  
For use with Natural Gas

MODEL UV-Campfire-MIL 24P  
UV-Campfire-MIL 30P  
For use with Propane/LP gas

**THIS APPLIANCE MAY BE INSTALLED IN AN AFTERMARKET, PERMANENTLY LOCATED, MANUFACTURED (MOBILE) HOME, WHERE NOT PROHIBITED BY LOCAL CODES.**

**THIS APPLIANCE IS ONLY FOR USE WITH THE TYPE OF GAS INDICATED ON THE RATING PLATE. THIS APPLIANCE IS NOT CONVERTIBLE FOR USE WITH OTHER GASES.**



**WARNING:** This appliance is for installation only in a solid fuel burning masonry or UL 127 factory built fireplace or in a listed ventless firebox enclosure. It has been design certified for these installations. Exception: DO NOT install this appliance in a factory built fireplace that includes instructions stating it has not been tested or should not be used with unvented gas logs. State or local codes may only allow operation of this appliance in a vented configuration. Check your state or local codes.

**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 IF YOU SMELL GAS

- \*Do not try and 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 your 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.

US Patent #5,397,233, #5,591,024 and other Patents Pending

This is an unvented gas-fired heater. It uses air (oxygen) from the room in which it is installed. Provisions for adequate combustion and ventilation air must be provided. (See page 3 for additional information.)

This unit tested to the Unvented Room Heater Standard ANS Z21.11.2b-2004

This appliance operates as an unvented domestic room heater when fitted to a masonry or factory built fireplace with the flue damper closed or as a decorative appliance when the flue damper is fully open. It must not be used for any other purpose and must be fitted in a masonry or factory built fireplace. If certain requirements are met, then this product also qualifies under ANS Z21.60b-2004 • CGA2.26b-2004 Decorative appliance for installation in Solid-Fuel Burning Fireplaces.

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## Important Information

**WARNING: ANY CHANGE TO THIS HEATER OR ITS CONTROLS CAN BE DANGEROUS.**

**IMPORTANT: READ THESE INSTRUCTIONS CAREFULLY BEFORE INSTALLING.**

**WARNING:** This appliance must be installed only in a solid fuel burning fireplace with a working flue and constructed of non-combustible materials, or UL 127 factory built fireplace or in a listed ventless firebox enclosure. Exception: DO NOT install this appliance in a factory built fireplace that includes instructions stating it has not been tested or should not be used with unvented gas logs.

The appliance area must be kept free and clear of combustible materials, gasoline, and other flammable vapors and liquids. Solid fuels shall not be burned in a masonry or UL 127 Factory-Built Fireplace in which an unvented room heater is installed.

**Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies.**

**Young children should be carefully supervised when they are in the same room as the appliance. Children and adults should be alerted to the hazard of high surface temperatures, and should stay away to avoid burns or clothing ignition.**

**The appliance should be inspected before use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, et cetera. It is imperative that control compartment, burners, and circulating air passageways of the appliance should be kept clear. See cleaning instructions.**

**DO NOT place clothing or other flammable materials on or near the appliance.**

This appliance must only be used with pressures at the inlet shown in Table 1.

The installation must conform with local codes, or in the absence of local codes, with the NATIONAL FUEL GAS CODE ANSI Z223.1/NFPA 54.

The appliance and its appliance main gas valve must be disconnected from the gas supply piping system during any pressure of that system at test pressures in excess of 1/2PSIG (3.5 kPa).

The appliance must be isolated from the gas supply piping system by closing its equipment shut off valve during any testing of the gas supply piping system at test pressures equal to or less than 1/2PSIG (3.5 kPa).

DO NOT use this heater in a bedroom, bathroom, or in a recreation vehicle.

An unvented room heater having input rating of more than 10,000 Btu per hour shall not be installed in a bedroom or bathroom.

**Installation and repair should be done by a qualified service person.**

**Any safety screen or guard removed for servicing an appliance must be replaced prior to operating the heater.**

DO NOT use this heater if any part has been under water. Immediately call a qualified technician to inspect the appliance and replace any part of the control system and any gas control that has been under water.

**“ This appliance is intended for supplemental heating.”**

When used as an unvented heater, always ensure that there is adequate ventilation for the room where the appliance is operating. “This heater shall not be installed in a confined space or unusually tight construction unless provisions are provided for adequate combustion and ventilation air.” “The *National Fuel Gas Code, ANSI Z223.1/NFPA 54* defines a confined space as a space whose volume is less than 50 cubic feet per 1,000 Btu per hour (4.8 m<sup>3</sup> per kw) of the aggregate input rating of all appliances installed in that space and an unconfined space as a space whose volume is not less than 50 cubic feet per 1000 Btu per hour (4.8m<sup>3</sup> per kw) of the aggregate input rating of all appliances installed in that space. Rooms communicating directly with the space in

which the appliances are installed through openings not furnished by doors are considered part of the unconfined space.

**WARNING:** If the area in which the heater may be operated is smaller than that defined as in 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, ANSI Z223.1/NFPA 54, Section 5.3*, or applicable local codes.

Unusually tight construction is defined as construction where:

(A) Walls and ceilings exposed to the outside atmosphere have a continuous water vapor retarder with a rating of 1 perm (6x10<sup>-11</sup> kg per pa-sec-m<sup>2</sup>) or less with openings gasketed sealed.

(B) Weather stripping has been added on openable windows and doors.

(C) Caulking or other sealants are applied to areas such as joints around windows and door frames, between sole plates and doors, between wall and ceiling joints, between wall panels, at penetrations for plumbing, electrical and gas lines and at other openings.

Example of room dimension limitations: If this appliance is listed at 40,000 Btu's, then the room cannot be less than 50 cubic feet for each 1,000 Btu's or 2000 Cubic Feet. As an example, if the room is 11 ft. Tall, 12 ft. Wide, and 14 ft. Deep (11x12x14 = 1848), then it must be provided with adequate combustion and ventilation air.

This appliance is equipped with an ODS (oxygen depletion sensor) pilot light safety system designed to shut itself off if not enough fresh air is available. Additional ventilation may be obtained by opening a door to another room or opening a ventilating window.

**ALWAYS OPERATE THE APPLIANCE AT THE MARKED POSITIONS. NEVER OPERATE THE HEATER AT A SETTING BETWEEN THESE POSITIONS, AS THIS COULD RESULT IN IMPROPER COMBUSTION AND EXCESSIVE CARBON MONOXIDE EMISSIONS.**

**WARNING:** Glass doors must be in a fully open position when the appliance is in operation.

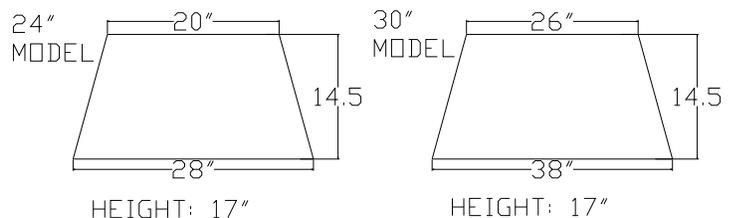
Keep burner and control compartment clean. See installation and operation instructions elsewhere in this manual.

**WARNING:** During manufacturing, fabricating, and shipping, various components of this appliance are treated with certain oils, films, or bonding agents. These chemicals are not harmful, but may produce annoying smoke and smells as they are burned off during the initial operation of this appliance, possibly causing headaches or eye and lung irritation. This is a normal and temporary occurrence. The initial break -in operation should last 2-3 hours with the burner at its highest setting. Provide maximum ventilation by opening windows, doors, and the chimney flue to allow odors to dissipate. Any odors remaining after this initial break-in will be slight and disappear with initial use.

The installation of appliances designed for manufactured homes (U.S. Only) or mobile home installation must conform with the standard *CAN/CSA Z240 MH, Mobile Housing*, in Canada, or with the *Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3820*, in the United States, or when such a standard is not applicable, *ANSI/ NCBS A225.1/ NFPA 501A, Manufactured Home Installations Standard*.

Provide a 1/8 NPT plugged tapping accessible for test gauge connection, immediately upstream of the gas supply connection to the appliance.

This appliance can not be converted for use with other types of gasses.



## GAS CONNECTION

**CHECK GAS TYPE.** Use only the gas type indicated on the heater's rating plate. If the gas listed on the plate is not the type of gas supply **DO NOT INSTALL.** Contact your dealer for proper model.

Always use an external regulator for all LP appliances to reduce the supply tank pressure to a maximum 13" WC. This is in addition to the regulator fitted to the heater.

**WARNING:** Connection directly to an unregulated LP tank can cause an explosion.

The normal gas connection is 3/8" made at the left side facing the unit. If a right side connection is required, the connecting pipe may be lead behind the rear of the appliance to terminate at the right hand side for connection to the inlet of the appliance.

Test for leaks using a soap and water solution after completion. **DO NOT USE OPEN FLAME.**

## GAS PRESSURE CHECK

Check the inlet pressure to the appliance to ensure that it is as shown in the table below. The minimum input can be obtained by turning the adjustable control knob to its lowest setting.

TABLE 1

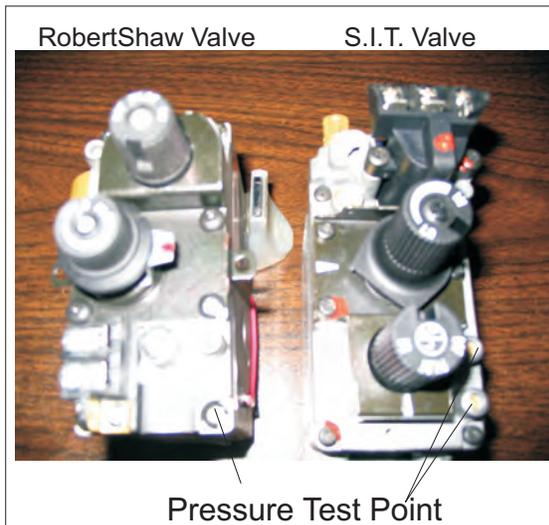
MODEL	UVCampfire-MIL24,30N	UVCampfire-MIL 24,30P
GAS	NATURAL (N)	PROPANE (LP)
Max. Heat Input	39,000 BTUH	37,000 BTUH
Min. Heat Input	30,000 BTUH	30,000 BTUH
Gas Inlet Pressure		
Max.	10.5 ins. WC	13.0 ins. WC
Ideal	7.0 ins. WC	11.0 ins. WC
Min.	4.5 ins WC	10.0 ins. WC
(Minimum for purpose of input adjustment only)		
Regulator Pressure	3.5 ins WC	10 ins. WC

The pressure is controlled by the regulator and should be checked at the pressure test point located in the control valve body. Access to the pressure test point is obtained by removing all logs.

The pressure should be checked with the appliance burning and the control set on high.

The pressure regulator is preset and locked to avoid tampering. If the pressure is not specified, replace the white replacement part UV-001B for natural gas and UV-026B for propane only.

After measuring the pressure, replace the test point plug, ensuring no leaks, replacing the heat shield where appropriate, and the logs in their specified positions.



(When replacing valve, specify valve brand: Robert Shaw or S.I.T.)

## INSTALLATION AND CLEARANCES

To ensure safe installation into a masonry or factory built fireplace, the following instructions must be carefully observed.

1. Sidewall Clearances: The clearance from the side of this appliance to any combustable wall should not be less than 15."
2. Ceiling Clearances: The ceiling height should not be less than 42" from the top of the fireplace opening.
3. Mantel Clearances: In order to reduce clearances, a canopy (model #1510-0140) may be used. Refer to figure 1B&1C on page 5 for a clear definition of clearances.

Important: Air openings shall not be obstructed in any way when installing this gas appliance.

**WARNING: Before installing in a solid fuel burning fireplace, the chimney flue must be cleaned of soot, creosote, ashes, and loose paint by a qualified chimney cleaner.**

**WARNING: Do not allow fans to blow directly into the fireplace. Avoid any drafts that alter burner flame patterns.**

**WARNING: This appliance is for installation in a solid fuel burning fireplace only.**

**WARNING: Failure to keep the primary air opening(s) of the burner(s) clean may result in sooting and property damage.**

The fireplace screen must be in place when the appliance is operating, and unless other provisions are made for combustion air, the screen shall have an opening for the introduction of combustion air.

The left and right sides are determined when facing the front of the appliance.

With no canopy used (Figure 1B) the clearance from the top edge of the fireplace opening to a 2 1/2" mantel is 28," 6" mantel is 38," and a 10" mantel is 44."

Without louvers and the canopy in position (Figure 1C) the clearance from the top edge of the fireplace opening to a 2 1/2"mantel is 16," 6" mantel is 20," and a 10" mantel is 26."

With louvers and canopy in position (Figure 1D) the clearance from the top edge of the fireplace opening to a 2 1/2" mantel is 18," 6" mantel is 24," and a 10" mantel is 30."

The mantelpiece profile must fall within the cross section as shown in the figures on the next page.

(Section continued on following page)

(Continued from previous page)

The canopy must be installed in accordance with the instructions provided with it.

Noncombustible materials used in this installation such as slate, marble, tile, et cetera, must be at least 1/2" thick. There should be no combustible material installed behind sheet metal.

Failure to install noncombustible material above the opening as specified with these instructions may cause damage to the materials used or cause a fire hazard.

Figure 1A

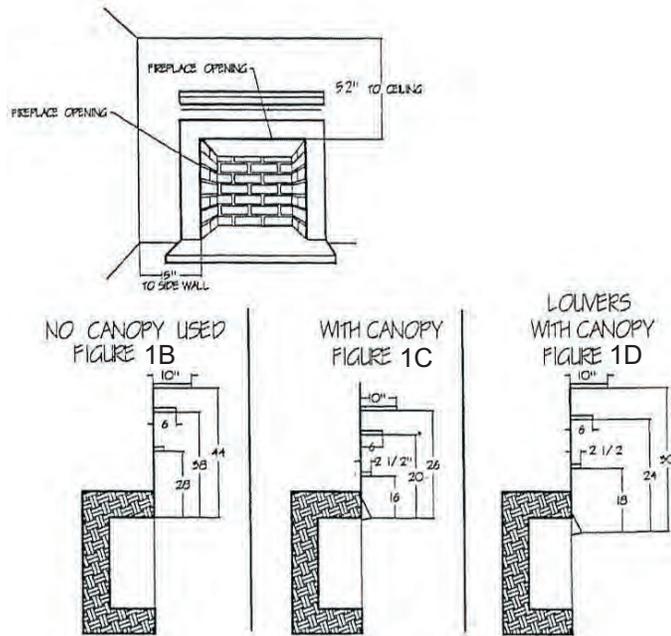
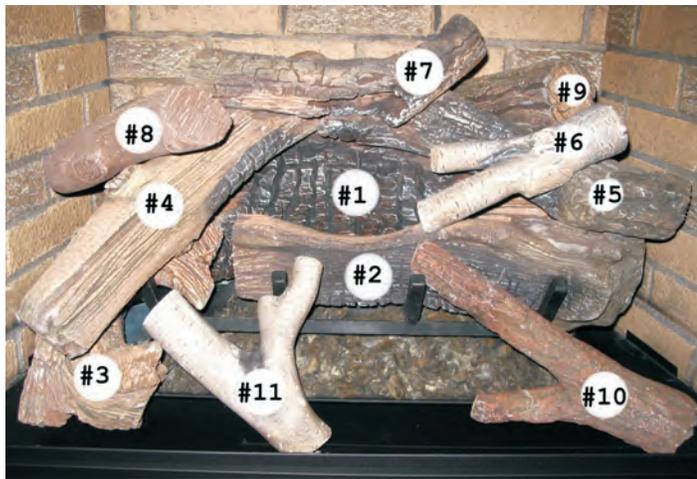


Figure 2



**Warning:** This appliance is equipped for (natural or propane) gas. Field conversion is not permitted.

### Rock Wool Placement

Only use wool that is in the package.

Important: Do not pile rock wool up. Make sure there is 3/4" clearance between the front grate bar and the rock wool.

### Placement of Wool:

Pull wool apart (nickel size pieces). Fill front bottom full of wool as shown. Place a single layer over the pan. If more than a dime size of the pan is visible, place more wool on pan. Cover all burner holes.

Caution: Do not pack wool (compress) on burner.

## Installation

### Unpacking

Open carton and remove chassis from its location. Remove each of the logs by gripping at either end of the log while avoiding any undue pressure.

The first carton contains the Burner.

The second carton contains Logs 1-11 and one bag of wool (high stack). If a regular stack is ordered, the logs included are: 1,2,3,4,5,10,11 with the bag of rock wool.

### Fireplace Preparation

Before installation, the damper must be secured open to the proper size. Refer to the chart on page 9 for additional information.

The fireplace must be prepared before installation:

A. Turn off the gas supply to the fireplace.

B. Clean the fireplace floor and chimney (if used) of any ashes, soot, creosote, or obstruction. This will minimize any smell from the fireplace. We recommend cleaning by a chimney sweep.

**WARNING:** Before installing in a solid fuel burning firebox, the chimney flue and firebox must be cleaned of soot, creosote, ashes and loose paint by a qualified chimney cleaner.

**WARNING:** Outside air ducts, and/or ash dumps in the fireplace must be permanently closed at the time of appliance installation.

**WARNING:** Do not allow fans to blow directly into the fireplace. Avoid

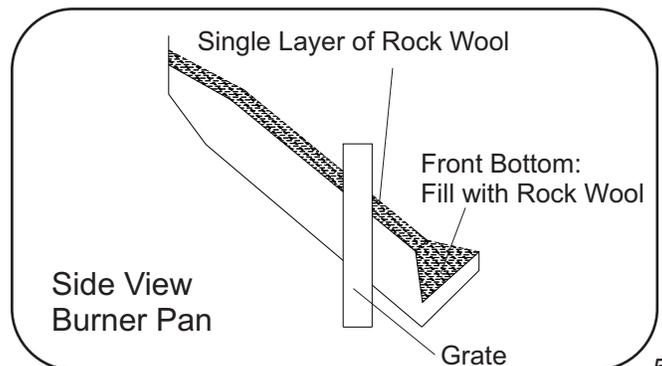
any drafts that alter burner flame patterns.

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

### Positioning Logs

Carefully position logs as shown in Figure 2: Place Log #1 on the base of the burner pan (above burner tube). Place Log #2 against the front grate. Place Log #3 (C-shaped) around the left grate post on the peg of Log #1. Place Log #4 on the peg of Log #3 (rests on top of Log #1). Place Log #5 on the pegs located on Logs #1 and #2. Place Log #6 on the right peg of Log #5 (it will rest on Log #2). Place Log #7 of the pegs of Logs #4 and #5. Place Log #8 on the left peg of Log #4 (it will rest on Log #1). Place Log #9 on the center peg of Log #5. Log #10 rests in front of the grate on the right side. Log #11 rests in front of the grate on the left side. Make sure that no log can be moved easily from side to side.

ENSURE THAT ALL LOGS ARE CENTRAL AND VERTICAL AS SEEN FROM THE SIDE. THERE SHOULD BE SOME IMPINGEMENT OF FLAMES FROM THE BURNER. IF THE LOGS BECOME BLACKENED DURING USE, CALL A CERTIFIED TECHNICIAN TO CHECK THEM. RECHECK FOR POSITIONING. FOLLOW CLEANING INSTRUCTIONS BEFORE RELIGHTING.



# FOR YOUR SAFETY READ BEFORE LIGHTING

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

A. This appliance has a pilot which must be lighted by hand. When lighting the pilot, follow these instructions exactly.

B. BEFORE LIGHTING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

## WHAT TO DO IF YOU 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 YOUR GAS SUPPLIER'S INSTRUCTIONS.**

• IF YOU CANNOT REACH YOUR GAS SUPPLIER, CALL THE FIRE DEPARTMENT.

C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or explosion.

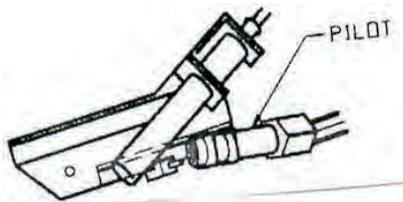
D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been underwater.

## LIGHTING INSTRUCTIONS

1. STOP! Read the safety information above.
2. Push in gas control knob slightly and turn clockwise ↻ to "OFF." NOTE: Knob cannot be turned from "PILOT" to "OFF" unless the knob is pushed in slightly. Do not force.
3. Wait five (5) minutes to clear out any gas. If you smell gas, STOP! Follow "B" in the safety information above. If you don't smell gas, go to the next step.
4. Find pilot located between the front log and the second log.
5. Turn the control knob counterclockwise ↶ to pilot.
6. Push the control knob all the way in and hold in. While still holding the control knob in, push the Piezo Ignitor button several times. This will cause a spark at the pilot which should ignite the pilot gas. Continue to hold the control knob in for several seconds to prevent flame failure.
7. Release the control knob.

\*If the control knob does not pop back up when released, stop and immediately call your service technician or gas supplier.

\*If the pilot does not stay lit after several tries, turn the gas control to OFF and call your service technician or gas supplier.



8. Once the pilot remains lit, depress the gas control knob slightly and turn the gas control knob counterclockwise ↶ to "ON." NOTE: The "ON/OFF" SWITCH is used to turn the flame on or off when the control valve is in the "ON" position.

## IMPORTANT: DO NOT OPERATE BETWEEN SETTINGS

This appliance is fitted with a transient pilot burner for the sole purpose of safe, momentary ignition of the main burner in conjunction with the piezo ignitor. When in operation with the main burner, it contributes to the base heat release and is turned off by turning the control knob to the off position.

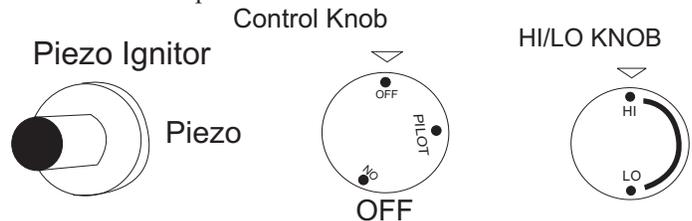
9. Periodically check the pilot flame for proper flame pattern.

## MATCH LIGHTING

If the pilot cannot be ignited with the piezo, it can be manually lit with the use of a paper match and a lighter rod. Place the match in the holder and light. With the right hand, depress and turn the control knob counterclockwise ↶ to the pilot position and hold in.

Take the rod and lit match and light the pilot. The pilot is located behind the front and the second log.

Continue to hold the control knob for an additional 10 seconds to ensure that the pilot is maintained.



## TO TURN OFF GAS TO APPLIANCE

### To turn off the gas appliance

1. From the "ON" position, turn the control knob clockwise ↻ to the "PILOT" position. The log set will extinguish, and the pilot will remain lit.
2. If complete shut down is desired from the "PILOT" position, push in the control knob slightly and turn clockwise ↻ to the "off" position. Do not force the knob.

## Flame Check

A periodic visual check of the flames should be made. The pilot flame should always be present when the appliance is in operation. See Figures 3 and 4.

In normal operation (at a full rate for approximately 15 minutes), the following flame appearances should be observed:

**Rear flames:** The flames at the rear or at either side of the top log should be very similar, yellow in color, and should extend about three to four inches above the large center log for natural gas, two to three inches for Propane.

**IMPORTANT: IF THESE FLAMES BECOME LARGER SEE "CLEANING INSTRUCTIONS"**

**Main Burner:** The flames at the burner front face will be blue becoming yellowish as they hit the bottom of the front logs. Typical main burner flame shapes are given in Figure 4.

**NOTE:** For your safety, the appliance is equipped with an oxygen depletion system. The system sensed the amount of oxygen in the atmosphere and switches off the gas supply in case the level of oxygen falls below a safe level.

## WHEN USED AS A HEATING APPLIANCE/HEAT OUTPUT

The heat output is controlled by the span knob, or optional thermostat, not by the main control knob. The span knob will adjust flame intensity.

This appliance may be used as a heating appliance only if unvented heating appliances are permitted by local state and city codes.

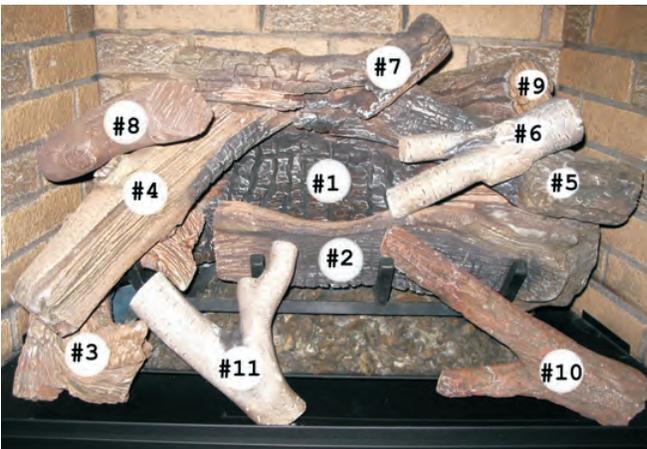


Figure 3



Figure 4

**WARNING:** Failure to keep the primary air opening(s) of the burner(s) clean may result in sooting and property damage.

## Campfire Parts List - High Stack

1. Rear Log	24CF017	1	10. Right Front Fork Log	24CF026	1
2. Main Front Log	24CF018 / 018L	1	11. Left Front Fork (Birch)	24CF027	1
3. Main Left Log	24CF019 / 019L	1	12. Black Rockwool Embers 04H-BLKRW		1
4. Top Left Log	24CF020	1	13. Pilot Assembly		1
5. Top Right Log	24 CF021	1	14. Piezo Lighter		1
6. Top Right (Birch)	24CF022	1	15. Piezo Wire		1
7. Top Center Log	24CF023	1	16. Switch		1
8. Top Rear Left Log	24CF024	1	17. Switch Wire		1
9. Top Rear Right Log	24CF025	1	18. Pilot		1
			19. Thermopile Generator		1

**Note:** If the regular Campfire stack is ordered, omit logs 6,7,8,9 from this parts list.

### Other Important Items:

1. Operator should not adjust the flame by the control knob. (See Important Information and Lighting Instructions.)
2. Extended use may cause air hole on left rear burner tube to clog up. This will make the flames appear taller which could cause a carbon or sooting problem.
3. Logs not placed correctly will cause sooting.

If sooting occurs, this unit should not be operated until the problem is diagnosed!

Other not so common problems may cause sooting. Min. Flue Diameter: 6"

1. Incorrect line to unit. Check with local building codes for proper line sizes, and no kinks in any line are acceptable.
2. Low fuel pressure in tank.
3. Draft from fans such as ceiling fans or proximity to doorway that causes flames to dance erratically.
4. Anything sitting too close, or in front of the unit, may cause an obstruction of air flow to the gas logs.

Chimney Height (Min. Permanent free opening)	Campfire-N, 39,000 Btu's Campfire-P, 37,000 Btu's
6 ft.	34 square inches
8 ft.	32 square inches
10 ft.	29 square inches
15 ft.	27 square inches
20 ft.	24 square inches
25 ft.	23 square inches
30 ft.	22 square inches

Diameter of Std. Round Flue	Area
5in	20 sq.in.
6in.	29 sq.in.
7in	39 sq.in.
8 in	51 sq.in.

**Table 2**

(Minimum permanent free opening in square inches based on 6' height)

**IMPORTANT:** Ensure that the chimney draft is adequate by holding a lit match or candle at the top edge of the fireplace opening. This will indicate if air movement is toward the fireplace. If draft is inadequate, do not operate logs until draft is adequate. If the draft is insufficient, have it inspected by a qualified chimney sweep.

## Instructions for Vented Applications

This unit may be installed in areas where building codes require all gas appliances to be vented, if and only if the following guidelines are met. Those guidelines fall into the National Fuel Gas Code ANSI Z223.1 standard.

This appliance must be installed in a solid fuel burning fireplace with a working flue and constructed with non combustible material.

### Permanent Free Opening

The minimum permanent free opening that must be provided by either the fireplace chimney or chimney damper to vent the flue gas must be in accordance with Table 2.

### Secure Chimney Damper

The chimney damper must be fixed in a manner which will maintain the minimum permanent vent opening at all times (By screw, bolt at damper's edge to prevent its closing, or by a hole or holes in the damper).

Solid fuels shall not be burned in a fireplace where a decorative fireplace is installed. The installation and provisions for combustion and ventilation air must conform with the *National Fuel Gas Code, ANSI Z223.1/NFPA54*.

Ensure periodic examination and cleaning of the venting system of the solid fuel burning fireplace at least once a year by a qualified agency.

Decorative appliances for installation in solid fuel burning fireplaces shall not be thermostatically controlled. Additions such as thermostats or other automatically cycling devices are not permitted. Additions such as thermostats or other automatically cycling devices are not permitted.

**Table IV-A**

**(A) - For Factory Built Fireplaces Free Opening Area Of Chimney Damper For Venting Combustion Products From Decorative Appliances For Installation In Solid Fuel Burning Fireplaces (See 1.14.1-b)**

Chimney Height* (ft)	Appliance Input Rate (kBTU/hr)											Max. Input***
	20	30	40	50	60	70	80	90	100	110	120	
	Minimum Opening** (sq. in.)											
10	11.3	16.6	22.1	28.3	35.3	44.2	—	—	—	—	—	77.6
15	8.6	12.6	17.3	21.2	26.4	32.2	38.5	45.4	—	—	—	98.2
20	7.5	10.8	14.5	18.1	22.1	26.4	31.2	37.4	43.0	—	—	114.2
25	6.6	9.6	12.6	15.9	18.1	22.9	27.3	31.2	36.3	43.0	50.3	121.0
30	6.2	9.1	11.3	14.5	17.3	20.4	24.6	28.3	33.2	37.4	44.2	130.1
35	5.7	8.0	10.8	13.2	15.9	18.9	22.1	25.5	30.2	34.2	39.6	141.2
40	5.3	7.5	10.2	12.6	15.2	18.1	20.4	23.8	27.3	31.2	35.3	158.5

- \* Height is from hearth to top of chimney and the minimum height is 10 feet. (See Figure 3, Factory Built Fireplace.)
- \*\* Chart shows minimum opening (sq. in.) for the given height and input rate.
- \*\*\* Column marked "Max. Input" corresponds to the maximum allowable input rate (kBTU/hr) for the given height.

**Table IV-B**

**(B) - For Masonry Built Fireplaces Free Opening Area Of Chimney Damper For Venting Combustion Products From Decorative Appliances For Installation In Solid Fuel Burning Fireplaces (See 1.14.1-b)**

Chimney Height* (ft)	Appliance Input Rate (kBTU/hr)										
	20	30	40	50	60	70	80	90	100	110	120
	Minimum Opening** (sq. in.)										
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. (See Figure 3, Factory Built Fireplace.)
- \*\* Chart shows minimum opening (sq. in.) for a given height and input rate.

## Location

Centrally locate the unit in the fireplace and deep enough into the firepit to accomplish adequate draft. Ensure that the grate front feet sit inside the front edge of the fireplace.

## Fireplace screen

The fireplace screen must be in place when the appliance is operating, and unless other provisions for combustion air are made, the screen must have an opening(s) for the introduction of combustion air.

## Important Safeguards

Although your gas logs are very realistic in appearance, it is not a real wood burning fireplace and must not be used for burning rejected material.

To avoid irreparable damage to the appliance or personal injury, matches, paper, garbage, or any other solid fuels must not be placed or thrown on top of the logs or into the flames.

To avoid personal injury, do not touch any hot surface of the appliance when it is in operation.

Touch only the control knob. Avoid contact with the grate feet or prongs or any other part which may be very hot.

Always ensure that the fireplace screen is closed when the appliance is operating and provisions are made for combustion air. This appliance is not certified for use with glass doors in a closed position.

Close supervision is necessary when the appliance is operated near children.

## Cleaning

**CAUTION:** Before cleaning or moving logs or other parts of the unit, be sure to read the above sections on important safeguards.

All cleaning should be done when the appliance is cold.

Only limited cleaning will be required under normal use. Dusting the front grate, the top of the cover, or the control knob panel may be required occasionally. Do not use any cleaning fluid to clean the logs or any other part of the appliance.

If the flames show any unusual shapes or behavior, or if the burners fail to ignite properly, then the burner holes may require cleaning. If this occurs, do not operate the appliance.

Contact your nearest dealer to get your appliance serviced. The appliance can be cleaned by removing the top, front, and rear logs. Handle the logs gently as to not damage the fiber pieces. Always lift each log by holding it carefully at both ends.

Carefully use a vacuum cleaner to remove dust and loose particles from the base, logs, and from around the burners. Gloves are recommended to prevent the fibers from breaking your skin. If the skin is broken, wash gently with soap and water.

If loose rock wool is removed, replace it with factory replacement only. Follow instructions for rock wool placement.

## Servicing

Repair and replacement work should only be done by a qualified service person. The appliance should be inspected before use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding materials, etc.

It is imperative that the control compartment is maintained clean and free of obstructions.

Always shut off the gas supply and make sure the appliance is cool before beginning any service operation.

Any safety screen or guard removed for servicing a gas appliance must be replaced before operating the heater.

Always check for gas leaks after servicing.

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## Repair Parts

A parts list with exploded views is on page 7. Always include correct name, part number, and model number of the appliance when ordering service parts.

If you desire to communicate with the factory, write to:

**Appalachian Stove  
& Fabricators  
329 Emma Road  
Asheville, NC 28801  
Phone: (828) 235-0154  
Fax: (828) 254-7803**

# Two Year Limited Warranty

This warranty is limited to fireplaces manufactured and assembled by Appalachian Stove and Fabricators, henceforth "Appalachian."

## Warranty Coverage

If any component of a fireplace covered under this warranty is returned to Appalachian and found to be defective within two years from the date of purchase, Appalachian will, at its option, repair or replace the defective component at no charge. Valves, ODS's, regulators, and motors carry a 1 year warranty. Date of purchase and purchase price must be verified by an acceptable proof of purchase.

This warranty covers only parts as provided above. In no case shall Appalachian be responsible for materials, components, or construction which are not manufactured or supplied by Appalachian, or the labor necessary to install, repair, or remove such materials, components, or construction.

## Qualification

The fireplace must be installed in accordance with Appalachian installation instructions and local codes.

The fireplace must be installed by a qualified installer and must be operated according to the operation instructions furnished.

This limited warranty applies only to the original owner of the gas logs or the original owner of the dwelling in which the gas logs are installed.

## Limitations

Appalachian is not responsible for any incidental or consequential damage caused by possible defects in this product.

The duration of any implied warranty with respect to the fireplace is limited to the duration of the foregoing warranty.

Some states do not allow the exclusion of incidental or consequential damages or limits on the duration of implied warranties, so these limitations may not apply to you.

## Warranty Fulfillment

Appalachian reserves the right to investigate any and all claims against this warranty and to decide on the method of settlement.

Appalachian is not responsible for warranty work completed without obtaining Appalachian's consent. Appalachian employees and dealers have no right to alter this written warranty.

This limited warranty is given in lieu of any other expressed or implied warranty.

The Appalachian Stove  
329 Emma Road  
Asheville NC 28806  
Phone: (828) 253-0164  
Fax: (828) 254-7803

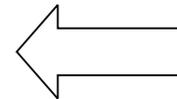
**CAUTION!** These steps must be followed to insure proper combustion. Position Rockwool as described below.



Step 1: After the burner system has been connected to the gas supply, remove the bag of wool that is supplied.

Step 2: Start at the bottom of the tray and fill

The first step with wool up to the first bend.



Step 3: Place wool in a single layer from the first ledge continuing to the top of the burner.



Step 4: Once the wool is in place, check the gap between the grate bar and the wool. It should be about the thickness of your hand. (Approximately 3/4")\_

**\*\*Do not operate this burner without wool in place!**