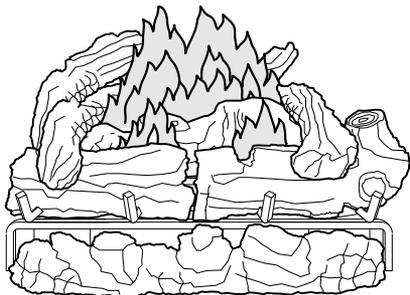


HearthRite

VENT-FREE GAS LOG HEATER



**LOG MODELS
HLS18R1 & HLS24R1**



⚠ 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 to light any appliance.
 - Do not touch any electrical switch; do not use any phone in your building.
 - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
 - If you cannot reach your gas supplier, call the fire department.
- Installation and service must be performed by a qualified installer, service agency or the gas supplier.

⚠ WARNING: This appliance is equipped for either natural or propane gas. Field conversion is not permitted.



Questions, problems, missing parts? Before returning to your retailer, call our customer service department at 1-618-233-7420 or 1-800-851-3153
www.hearthrite.com

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SAVE THIS BOOK

INSTALLER: Leave this manual with the appliance.
CONSUMER: Retain this manual for future reference.

This log set has been tested and approved to ANSI Z21.11.2 standard for Unvented Heaters and also complies with ANSI Z21.60 Decorative Vented Appliances for Solid Fuel Burning Fireplaces. State and local codes in some areas prohibit the use of vent-free heaters. Check your state or local codes.

⚠ WARNING: Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to this manual for correct installation and operational procedures. For assistance or additional information consult a qualified installer, service agency or the gas supplier.

This appliance may be installed in an aftermarket,* permanently located, manufactured (mobile) home, where not prohibited by local codes.

* Aftermarket: Completion of sale, not for purpose of resale, from the manufacturer.

SAFETY

IMPORTANT: Read this owner's manual carefully and completely before trying to assemble, operate, or service this heater. Improper use of this heater can cause serious injury or death from burns, fire, explosion, electrical shock and carbon monoxide poisoning. Failure to follow these instructions will void the warranty.

Only a qualified installer, service agent, or local gas supplier may install and service this product.

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

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.

⚠ 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 heater may not be working properly. Get fresh air at once! Have heater serviced. Some people are more affected by carbon monoxide 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.

Natural and Propane/LP Gas: Natural and Propane/LP gas are odorless. An odor-making agent is added to the gas. The odor helps you detect a gas leak. However, the odor added to the gas can fade. Gas may be present even though no odor exists.

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

⚠ WARNING: Do not allow fans to blow directly into the heater. Avoid any drafts that alter burner flame pattern including ceiling fans. Altered burner patterns can cause sooting.

⚠ WARNING: Before installing 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.

1. Do not add extra logs or ornaments such as pine cones, vermiculite, or rock wool. Using these added items can cause sooting. Do not add lava rock around base. Rock and debris could fall into the control area of heater. After servicing, always replace screen
2. This log heater is designed to be smokeless. If logs ever appear to be smoking, turn off heater and call a qualified service technician. *NOTE: During initial operating, slight smoking could occur due to log curing and heater burning off manufacturing residues.*
3. To prevent the creation of soot, follow the instructions under Care and Maintenance in your heater's owners manual.
4. Do not use this heater if any log is broken. Do not operate heater if a log is chipped (dime-size or larger).
5. Solid fuels should not be burned in fireplace in which a vent-free log set is installed. Do not use this heater to cook food or burn paper or other objects.

LOCAL CODES

Install and use heater with care. Follow all local codes. In the absence of local codes, use the latest edition of *The National Fuel Gas Code, ANSI Z223.1/NFPA 54**.

*Available from:

American National Standards Institute, Inc.
1430 Broadway
New York, NY 10018
National Fire Protection Association, Inc.
1 Batterymarch Park
Quincy, MA 02269-9101

State of Massachusetts: The installation must be made by a licensed plumber or gas fitter in the Commonwealth of Massachusetts.

Sellers of unvented propane or natural gas-fired supplemental room heaters shall provide to each purchaser a copy of 527 CMR 30 upon sale of the unit.

In the State of Massachusetts the gas cock must be a T-handle type. The State of Massachusetts requires that a flexible appliance connector cannot exceed three feet in length.

QUALIFIED INSTALLING AGENCY

Only a qualified agency should install and replace gas piping, gas utilization equipment or accessories, and repair and equipment servicing. The term "qualified agency" means any individual, firm, corporation, or company that either in person or through a representative is engaged in and is responsible for:

- a) Installing, testing, or replacing gas piping or
- b) Connecting, installing, testing, repairing, or servicing equipment; that is experienced in such work; that is familiar with all precautions required; and that has complied with all the requirement of the authority having jurisdiction.

INSTALLATION GUIDELINES

Proper Log Placement

Log placement is critical to proper burner performance. Logs must be correctly positioned onto the burner. The illustrations in this manual show the proper pinned position for logs on this set. Owners need to be shown proper log placement and instructed not to move the logs.

Logs must fit firmly onto the burner when positioned as shown in the illustrations. Malformed logs or logs with sloppy pin holes must be replaced.

Proper Primary Airflow into the Burner

For proper burner operation and flame appearance, the flow of primary air into the venturi tube, located on the rear of the burner, must not be reduced. This flow of air is reduced if dirt, lint or other obstructions build-up around or inside the venturi. Any obstruction in the venturi tube area must be removed. The flow of air into the venturi is also reduced if the gas orifice isn't centered in the venturi inlet and/or is not aligned with the venturi. Any misalignment of the burner orifice may be corrected by bending the shutter cap holding the orifice to the inlet or the venturi tube.

Ceiling Fans, Portable Fans or Logs Installed Near Cold Air Returns

Ceiling fans or oscillating floor type fans need to be monitored during the operation of vent-free logs. If the air blows directly into the flame causing it to impinge on the log set, or firebox, it should be turned off or redirected. Ceiling fans could be reversed to possibly eliminate flame impingement, and the floor fan could be redirected. Upon installation, be aware of any cold air returns or vents in the proximity of the log set. Any draft created around a vent-free log set can cause the flame to impinge on the log and create a sooting situation.

Candles

Avoid the use of scented or decorative candles while the log set is in operation. Candles produce a residue in the air that creates a soot like substance. Burning candles while the log set is operating magnifies the problem. It should be noted that candles, in general, produce soot. The amount of time burned and the quantity of candles burned will determine the amount of soot produced and deposited.

Proper Log Set Operation

Properly installed and properly maintained log sets do not deposit soot on the logs. If users see soot appear on a log, call for service. Do not continue to operate the log set.

Sunken Fireplace

If installing this unit into a sunken fireplace, you must raise the floor to insure adequate airflow and guard against sooting. Raise fireplace floor using a noncombustible material, which is secure.

Glass Doors

Make sure that glass doors are open during all operations of the log set. The opening of the glass door frame should be the dimension used for the minimum front opening of the firebox.

Wood Burning Fireplaces

The interior of the firebox and the chimney should be cleaned and free of all creosote before installing a gas burning log set. Creosote will soften when heated and can drop on the log set causing odors and possibly sooting.

INSTALLING LOGS

⚠ WARNING: Failure to position the parts in accordance with these diagrams or failure to use only parts specifically approved with this heater may result in property damage or personal injury.

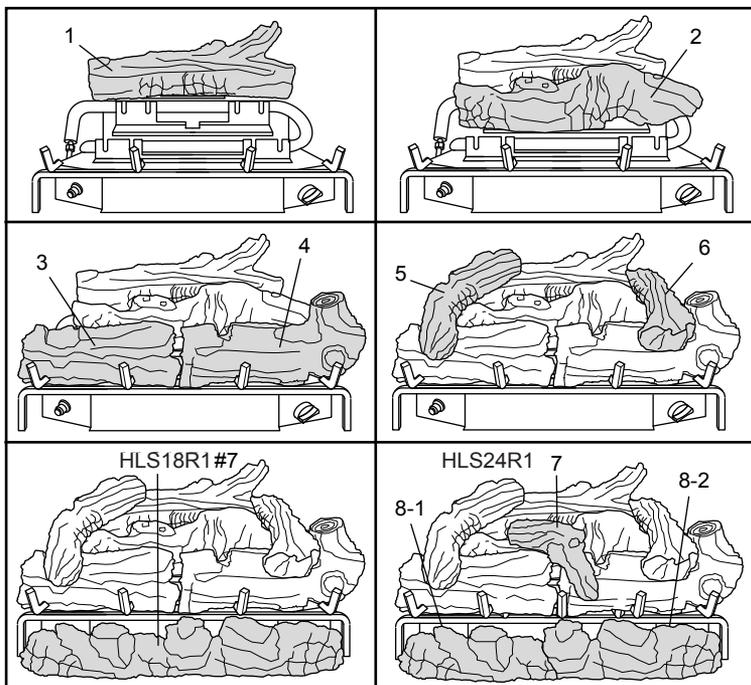
⚠ CAUTION: After installation and periodically thereafter, check to ensure that no yellow flame comes in contact with any log. With the heater set to High, check to see if yellow flames contact any log. If so, reposition logs according to the log installation instructions in this manual. Yellow flames contacting logs will create soot.

It is very important to install the logs exactly as instructed. Do not modify logs. Use only logs supplied with heater.

Each log is marked with a number. This number will help you to identify the logs when installing. After installing logs, add decorative cinders around the grate base, do not place any decorative cinders on logs or burner.

Refer to illustration below for log installation steps.

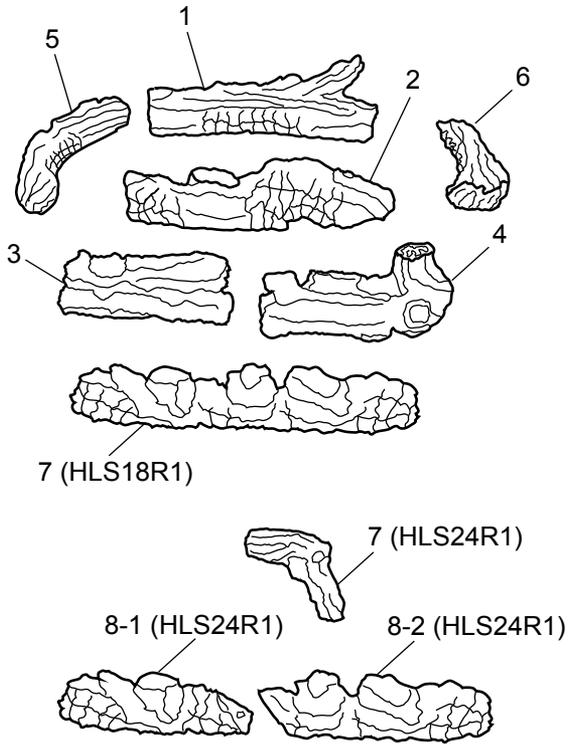
1. Insert log #1 into slots in rear log bracket on grate base and tighten nuts.
2. Insert log #2 onto pin on middle burner.
3. Insert log #3 onto pin on the left of the burner.
4. Insert log #4 onto pin on the right of the burner.
5. Insert the recessed hole on the bottom of log #5 onto pin on log #1, with the other end resting on log #3.
6. Insert the recessed hole on the bottom of log #6 onto pin on log #1, with the other end resting on log #4.
7. **HLS18R1 Only** Place log #7 on the floor in front of burner.
8. **HLS24R1 Only** Insert the recessed hole on the bottom of log #7 onto pin on log #2, with the other end resting on log #4.
9. **HLS24R1 Only** Place logs #8-1 and #8-2 on the floor in front of burner.



Installing Logs

PARTS

MODELS HLS18R1 AND HLS24R1



ITEM	HLS18R1	HLS24R1	DESCRIPTION	QTY
1	EWL18-1	EWL24-1	Log 1	1
2	EWL18-2	EWL24-2	Log 2	1
3	EWL18-3	EWL24-3	Log 3	1
4	EWL18-4	EWL24-4	Log 4	1
5	EWL18-5	EWL24-5	Log 5	1
6	EWL18-6	EWL24-6	Log 6	1
7	EWL18-7	EWL24-7	Log 7	1
8-1	----	EWL24-8-1	Log 8-1	1
8-1		EWL24-8-2	Log 8-2	1

This list contains replaceable parts used in your heater. When ordering parts, contact authorized dealers of this product or call customer service at 1-618-233-7420 or 1-800-851-3153. When calling have you model and serial numbers available.

WARRANTY

KEEP THIS WARRANTY

Model _____

Serial No. _____

Date Purchased _____

Keep receipt for warranty verification.

LOG SET WARRANTY

Empire Comfort Systems Inc. warrants this hearth product to be free from defects at the time of manufacture and for the periods specified below. See owner's manual for warranty details.

HearthRite Vent Free Burners and Log Sets

All parts carry a 1 year limited warranty.

Remotes and Thermostats (Sold with Systems or as Accessories)

All parts carry a 1 year limited warranty.

Hearth products must be installed by a qualified technician and must be maintained and operated safely, in accordance with the instructions in the owner's manual.

Empire will make replacement parts available at the factory. Shipping, labor, and installation expenses are not covered. To make a claim under this warranty, please have your receipt available and contact your installing dealer.

The installing dealer is responsible for providing service and will contact the factory to initiate any warranted parts replacements. Unauthorized service or parts replacements will not be covered.

This warranty applies to the original purchaser only and is not transferable.

Empire Comfort Systems, Inc.
Belleville, Illinois
www.hearthrite.com
1-800-851-3153

200126-01
Rev. B
07/14