24" VENT FREE
GAS LOG
MODEL: GLDF24R-VF

Thermablaster®

BY Reecon

CAUTION - FOR YOUR SAFETY

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 liquid in 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.

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

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. Refer to Air for Combustion and Ventilation section on page 8 of this manual. Warranty is void if not professionally installed.

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 propane or natural gas. This appliance is equipped with a simple means to switch between propane and natural gas in dual fuel models only. Field conversion by any other means including the use of a kit is not permitted.

WARNING: Do not attempt to access or change the setting of the fuel selection means.

Access to and adjustment of the fuel selection means must only be performed by a qualified service person when connecting this appliance to a specified fuel supply at the time of installation.

Change of the selector setting to other than the fuel type specified at the time of installation could damage this appliance and render it inoperable.

The installer shall replace the access cover before completing the installation and operating this appliance.

Questions,problems? Before returning to your retailer, call our customer service department at 1-877-670-8428, 9:00 am - 6:00 pm EST, Monday through friday or email **service@thermablaster.com**

Conforms to ANS Z21.11-2-2013. Gas-Fired Room Heater Volume II, Unvented Room Heater

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ABOUT US

We at Reecon strive to produce the highest quality Thermablaster heaters to warm our customers. We feel that a heater should look as good as it operates and work without a fuss. That is why we have developed our patent pending dual fuel heating system, which allows the use of either liquid propane or natural gas for some of our most popular products, without requiring any adjustments. Our product lines consist of vent free gas wall heaters, a direct vent gas wall heater line, kerosene and propane forced air heaters, electric industrial heaters, fireplace sets, as well as outdoor heating products. Through our innovative product design and customer first mentality, we strive to provide the best heaters for all needs, at a price that won't break the bank.

PRODUCT SPECIFICATIONS

Model	**GLDF24R-VF**
Gas type	**Using natural gas**
Nominal Heat Input	40,000 Btu/hr
Minimum Inlet Supply Pressure (W.C.)	6”
Maximum Inlet Supply Pressure (W.C.)	9”
Manifold Pressure (W.C.)	5.2”
Nominal Input Pressure (W.C.)	7”
Gas type	**Using propane gas**
Nominal Heat Input	40,000 Btu/hr
Minimum Inlet Supply Pressure (W.C.)	8”
Maximum Inlet Supply Pressure (W.C.)	14”
Manifold Pressure (W.C.)	6”
Nominal Input Pressure (W.C.)	11”
Ignition	Automatic Ignition
Package Dimension (H×W×D)	16.93”x26.57”x17.32”
Heater Dimension (HxWxD)	15.7”x24”x12”

IMPORTANT SAFETY INFORMATION

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

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

CARBON MONOXIDE POISONING: Early signs of carbon monoxide poisoning resemble the flu with headache, dizziness and/or nausea. If you have these signs, heater may not be working properly. Get fresh air at once! Have heater serviced. Some people - pregnant women, persons with heart or lung disease, anemia, those under the influence of alcohol, those at high altitude - are more affected by carbon monoxide than others.

Natural and Propane /LP Gas: Natural and Propane/LP gas are odorless. An odor-producing 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:** Any change to this heater or its controls can be dangerous.

⚠ **WARNING:** Do not use any accessories not approved for use with this heater.

⚠ **WARNING:** Carefully supervise young children when they are in the room with the heater.

⚠ **WARNING:** Make sure fireplace screen must be in place when the appliance is operating and, unless other provisions for combustion air are provided, the screen shall have an opening(s) of introduction of combustion air.

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

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

⚠ **WARNING:** Keep children and adults away from hot surfaces to avoid burns or clothing ignition. Heater will remain hot for a time after shutoff. Allow surfaces to cool before touching.

⚠ **WARNING:** Do not place clothing or other flammable material on or near the appliance. Never place any objects in the heater.

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

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

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

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

⚠ **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.

Solid-fuel shall not be burned in a fireplace in which an unvented room heater is installed.

⚠ **WARNING:** Any glass doors shall be fully opened when the appliance is in operation

CAUTION: Two gas line installations at the same time are prohibited. The access plate to the

switching means shall not be opened while the heater is in operation.

⚠ **WARNING:** This appliance is for installation in a solid-fuel burning masonry or UL 127 factory build fireplace or in a listed vent less firebox enclosure. It has been design certifies for these installations. Exceptions: DO NOT install appliance in a factory build fireplace that includes instructions stating it has not been tested or should not be used with unvented gas logs.

1. This heater shall not be installed in a room or space unless the required volume of indoor combustion air is provided by the method described in the *National Fuel Gas Code,* ANSI Z223.1/NFPA 54, the *International Fuel Gas Code,* or applicable local codes.
2. Do not place Propane/LP supply tank(s) inside any structure. Propane/LP supply tank(s) must be placed outdoors.

3. This heater shall not be installed in the place which the strong wind would shut down the appliance.

Air ducts and/or ash dumps in the fireplaces shall be permanently closed at time of appliance installation.

4. This heater needs fresh air ventilation to run properly. This heater has an Oxygen Depletion Sensing (ODS) safety shutoff system. The ODS shuts down the heater if not enough fresh air is available. See Air for Combustion and Ventilation, page 8. If heater keeps shutting off, see troubleshooting.

5. Keep all air openings in front and bottom of heater clear and free of debris. This will ensure enough air for proper combustion.

6. If heater shuts off, do not relight until you have provided fresh air from outside. If heater keeps shutting off, have it serviced.

7. Do not run heater where flammable liquids or vapors are used or stored under dusty conditions.

8. Before using furniture polish, wax, carpet cleaner, or similar products, turn heater off. If heated, the vapors from these products may create a white powder residue within burner box or on adjacent walls or furniture.

9. Always run heater with control knob at PILOT/IGN, LOW or HIGH locked positions. Never set control knob between locked positions, otherwise poor combustion and higher levels of carbon monoxide may be resulted.

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

11. Turn off and let heater cool down before servicing. Only a qualified service person should service and repair heater.

12. Periodic visual check of pilot and burner flame, with pictorial sketches or drawings.

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

Important Note:

- An unvented room heater having an input rating of more than 10,000 Btu/hr (2,931 W) shall not be installed in a bedroom or bathroom; or

- An unvented room heater having an input rating of more than 6000 Btu/hr (1,758 W) shall not be installed in a bathroom.

QUALIFIED INSTALLING AGENCY

Only a qualified agency should install and replace gas piping, gas utilization equipment or accessories, repair and service the heater. 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.

PRODUCT FEATURES

SAFETY PILOT
This heater has a pilot with an Oxygen Depletion Sensing (ODS) safety shutoff system. The ODS/pilot shuts off the heater if there is not enough fresh air.

AUTOMATIC IGNITION SYSTEM
This heater is equipped with a PCB controlled automatic igniting system. No AC power supply required. Battery should be periodically checked and replaced accordingly.

GAS OPTIONS CAPABLE (Dual Fuel Models Only) (Models that start with GLDF)
If you have the dual fuel model, your heater is equipped to operate on either propane or natural gas. The heater will automatically identify your gas source without any manual changes.

THERMOSTATIC CONTROL
These heaters have a control valve with a wireless remote thermostat. This results in the greatest heater comfort and may result in lower gas bills.

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

INSTALLATION CHECKLIST

Share this checklist with your professional installer

- ☐ Manifold Pressure and Nominal Inlet Pressure for appropriate gas type
  - o Using Natural Gas:
    - Minimum Inlet Pressure (W.C): 6”
    - Manifold Pressure (W.C.): 5.2”
    - Nominal Input Pressure (W.C.): 7”
  - o Using Propane Gas:
    - Minimum Inlet Pressure (W.C): 8”
    - Manifold Pressure (W.C.): 6”
    - Nominal Input Pressure (W.C.): 11”
- ☐ Clearances
  - o 5” minimum from bottom of heater to Top Surface of Floor
  - o 16” Minimum from sides to of Heater
  - o 42” Minimum clearance from top surface of heater and up
- ☐ Connected to gas supply using a 5/8th inch UNF inlet connection to a ½ inch gas pipe
- ☐ Unit is placed in a room that is a minimum of 1150 square feet.
- ☐ 2 pieces of 14500（3.8V）rechargeable batteries placed in heater & AA batteries placed in remote.
- ☐ Adequate ventilation and fresh-air flow is appropriate for heater location
- ☐ Unit successfully tested
  - o Installed by:
    - Company _____
    - Installer _____
    - Contact Info _____
    - Date _____

Note to installer: Ensure that you are referencing the product manual for full details on each of the installation steps, warnings and considerations. This list is to be used to confirm the steps as you move through the installation. Please leave this sheet with the user.

*Do not attempt any modifications, repairs or replacements on this unit without first discussing with Thermablaster Technical Support. Doing so will void the product’s warranty. Professional Installation is required by all local and National codes.

Unit is not to be used as a central heating system

Preparing for Installation

Before beginning assembly or operation of the product, make sure all parts are present. Compare parts with package contents list and diagram above. If any part is missing or damaged, do not attempt to assemble, install or operate the product. Contact customer service for replacement parts.

Before installing heater, make sure you have the items listed below:

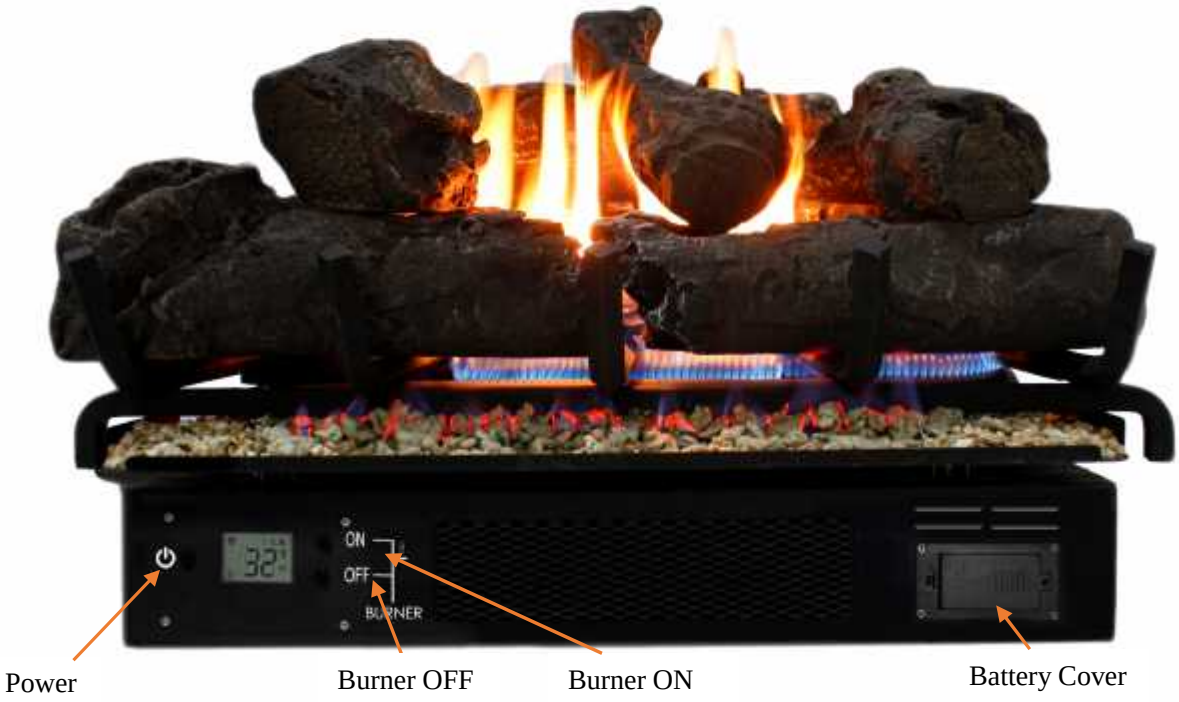

Figure 1 - Vent-Free Gas log

UNPACKING

1. Remove heater from carton.
2. Remove all protective packaging applied to heater for shipping.
3. Check heater for any shipping damage. If heater is damaged, promptly inform dealer where you purchased heater.
4. Remove thread protective cup on the gas inlet pipe underneath the heater.
5. Install the two 14500 （3.6V） rechargeable batteries. Be sure batteries has full capacity.

Batteries must be removed if the heater is not in use for an extended period of time.

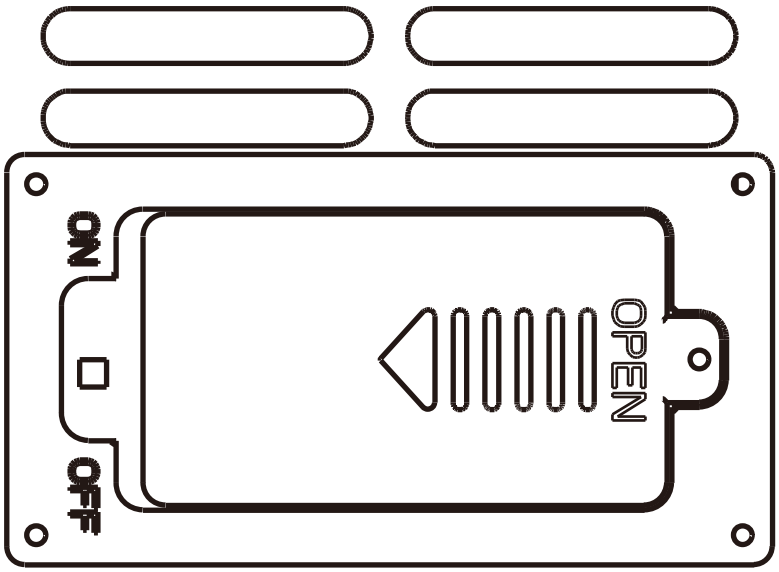

Figure 2 – Battery Cover and Power Switch

WATER VAPOR: A BY-PRODUCT OF UNVENTED ROOM HEATERS

Water vapor is a by-product of gas combustion. An unvented room heater produces approximately one (1) ounce (30 ml) of water for every 1,000 BTUs (0.3 KWs) of gas input per hour. Unvented room heaters are recommended as supplemental heat (a room) rather than a primary heat source (an entire house). In most supplemental heat applications, the water vapor does not create a problem. In most applications, the water vapor enhances the low humidity atmosphere experienced during cold weather. The following steps will help ensure that water vapor does not become a problem:

1. Be sure the heater is sized properly for the application, including ample combustion air and circulation air.
2. If high humidity is experienced, a dehumidifier may be used to help lower the water vapor content of the air.
3. Do not use an unvented room heater as the primary heat source.

AIR FOR COMBUSTION AND VENTILATION

⚠ **WARNING**: This heater shall not be installed in a confined space or unusually tight construction unless provisions are provided for adequate combustion and ventilation air. Read the following instructions to ensure proper fresh air for this and other fuel-burning appliances in your home.

Providing Adequate Ventilation

This heater shall not be installed in a room or space unless the required volume of indoor combustion air is provided by the method described in the NATIONAL FUEL GAS CODE, ANSI Z223.1/NFPA 54, the INTERNATIONAL FUEL GAS CODE, or applicable local codes. The following are excerpts from National Fuel Gas Code, ANSI Z223.1/ NFPA 54. Air for Combustion and Ventilation. All spaces in homes fall into one of the three following ventilation classifications:

1. Unusually Tight Construction
2. Unconfined Space
3. Confined Space

The information on the following pages will help you classify your space and provide adequate ventilation.

Confined and Unconfined Space

The National Fuel Gas Code, ANSI Z223 .1/NFPA 54 defines a confined space as a space whose volume is less than 50 cu. ft. per 1,000 BTU/hr (4.8 m3 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 1,000 BTU/hr (4.8 m3 per kw) of the aggregate input rating of all appliances installed in that space. Rooms connecting directly with the space in which the appliances are installed, through openings not furnished with doors, are considered a part of the unconfined space.

This heater shall not be installed in a confined space or unusually tight construction unless provisions are provided for adequate combustion and ventilation air. Adjoining rooms are connecting only if there are odorless passageways or ventilation grills between them.

Unusually Tight Construction

The air that leaks 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 where:

a) Walls and ceilings exposed to the outside atmosphere have a continuous water vapor retarder with a rating of one perm (6×10-11kg per pa-sec-m2) or less with openings gasket or sealed and

b) Weather stripping has been added on openable windows and on doors and

c) 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 of the three criteria above, you must provide additional fresh air. See “Ventilation Air from Outdoors”. If your home does not meet all of the three criteria above, proceed to “Determining Fresh-Air Flow for Heater Location”.

DETERMINING FRESH-AIR FLOW FOR HEATER LOCATION

Use this worksheet to determine if you have a confined or unconfined space. Space: Includes the room in which you will install heater plus any adjoining rooms with door less passageways or ventilation grills between the rooms.

1. Determine the Volume of space in cubic feet

   Length X Width X Height = _____ cu. Ft.
   (Including adjoining rooms with door less passageways or ventilation grills between rooms)

   Example: 24’ (L) X 16’ (W) 8’ (H) = 3,072 cu. Ft.

2. Multiply the volume of space by 20 BTU/Hr. to determine the maximum BTU/Hr. the space can support.

   Example: 3.072 cu. Ft. X 20 BTU/Hr. = 61,440 BTU/Hr.
   (Maximum BTU/Hr. the room can support)

3. Add the BTU/Hr. of all the fuel burning appliances in the space

   Vent Free Heater _____BTU/Hr.
   Gas Appliance #1_____BTU/Hr.
   Gas Appliance #2_____BTU/Hr.

Example:	Vent Free Heater	26,000 BTU/Hr.
	Gas Appliance #1	35,000 BTU/Hr.
	Total	61,000 BTU/Hr.

The space in the prior example is a confined space because the actual BTU/hr used is more than the maximum BTU/hr the space can support.

You must provide additional fresh air. Your options are as follows:
Rework worksheet, adding the space of an adjoining room. If the extra space provides an unconfined space:

a) Remove door to adjoining room or add ventilation grills between rooms. See “Ventilation Air from Inside Building” on next page.
b) Vent room directly to the outdoors. See the following “Ventilation Air from Outdoors” for details.
c) Install a lower BTU/hr heater if lower BTU/hr size makes room unconfined. If the actual BTU/hr used is less than the maximum BTU/hr the space can support, the space is an unconfined space. You will need no additional fresh air ventilation.

⚠ **WARNING:** If the area in which the heater 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, ANSI Z223.1/NFPA 54, Air for Combustion and Ventilation, or applicable local codes.