

heatilator®

The first name in fireplaces

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ODYSSEY ODY42 RADIANT FIREPLACE WITH FACTORY INSTALLED GAS LOG SET INSTALLATION & OPERATING INSTRUCTIONS



ODY42

CAUTION:

Do not expose the fireplace to the elements (such as rain, etc.).

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!

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to this manual. For assistance or additional information, consult a qualified installer, service agency or the gas supplier.

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WARNING!

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 under water.

Safety Precautions

1. Please read these installation instructions completely before beginning installation procedures. Failure to follow them could cause a fireplace malfunction resulting in serious injury and/or property damage.
2. Always check your local building codes prior to installation. The installation must comply with all local, regional, state and national codes and regulations.
3. An adequate supply of replacement combustion air from outside the house must be available to the fire for the fireplace to operate properly. To achieve this, the use of the optional outside air kit is highly recommended.

In the event the home is unusually tight, the optional outside air kit may not provide all the air required to support combustion. Hearth Technologies Inc. is not responsible for any smoking or related problems that may result from the lack of adequate combustion air. It is the responsibility of the builder/contractor to ensure that adequate combustion air has been provided for the fireplace.

The Odyssey Series Fireplace is for installation in a room having a volume of at least 3,750 cubic feet.
4. The Odyssey Series fireplace with factory installed gas log set must be installed with the Hearth Technologies Inc. (HTI) SL300 Series chimney system.

The chimney system must always terminate outside the building. Be sure to follow all chimney specifications given in these installation instructions.
5. **NEVER** leave children unattended when there is a fire burning in the fireplace.
6. This fireplace is factory built to burn natural or propane gas. A gas conversion kit (to convert from natural gas to propane or propane to natural gas) is not available for the Odyssey Series fireplace. The Odyssey must be purchased from the factory as either natural gas or propane. An optional wood conversion kit (ODYCKW) is available.
7. **NEVER** use starter logs, gasoline, gasoline type lantern fuel, kerosene, charcoal lighter fluid, or similar liquids in this fireplace. Keep any flammable liquids a safe distance from the fireplace.
8. The flue damper must be open at all times when the fireplace is in use.
9. While servicing this fireplace, always shut off any electricity or gas to the fireplace. This will prevent possible electrical shock or burns. Also, make sure the fireplace is completely cooled before servicing.
10. Due to high temperatures, the fireplace should be located out of traffic areas and away from furniture and draperies.
11. Solid fuels cannot be burned in a fireplace where the decorative gas appliance is installed.
12. In order to install Heatilator® fireplace models ODY42 and ODY42L in the state of Massachusetts, the Commonwealth of Massachusetts requires the following:
 - a. The damper must be removed.
 - b. This fireplace is not to be installed for use in a bedroom bathroom.

DESIGN AND INSTALLATION CONSIDERATIONS

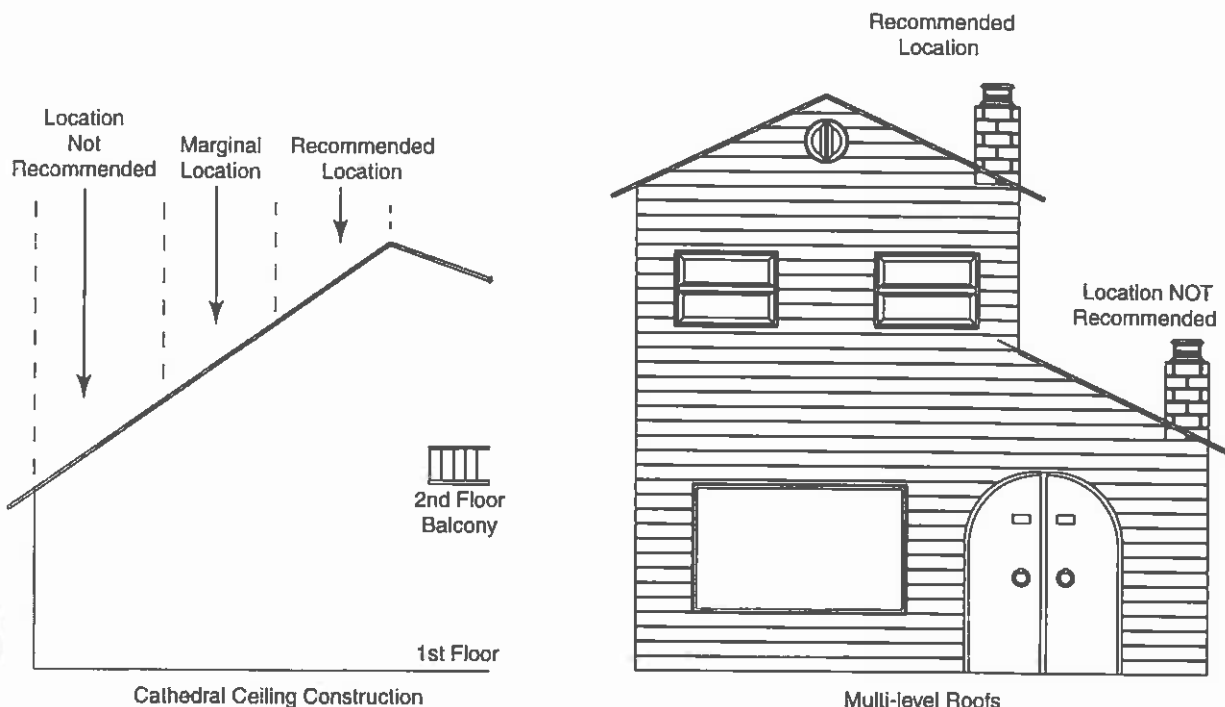
When selecting a location for your B-Vent appliance, it is important to evaluate a number of considerations. Modern construction techniques can create conditions that may not allow your vent to draft properly. This may result in spillage from your B-Vent appliance, as well as cause other combustion appliances to operate incorrectly.

Tightly sealed construction is important for energy efficiency. Unfortunately, a great deal of effort has been directed to tightening up sidewall construction, while considerably less attention has been paid to tightening upper portions of the warm air envelope (insulated ceilings). This has increased the "Stack Effect", a condition that increases the negative pressure generated by the structure. This negative pressure will directly affect the drafting performance of a B-Vent appliance vent. To minimize the negative pressure generated by stack effect, make certain that all ductwork installed in the attic spaces is sealed airtight. Minimize the number of recessed light fixtures installed in the insulated ceiling and use sealed recessed light fixtures. Finally, make certain the whole house fans and attic access panels are tightly sealed. These are important design considerations that must be observed during the design and construction stage of the home.

If you desire to put an appliance in your basement, we recommend that you consider a direct vent gas appliance. Basements always have a significant negative air pressure that causes the B-Vent system to be more susceptible to spillage and cold flue back drafting. Since direct vent gas appliances are sealed, they are not affected by the negative pressure that exists in basements.

Finally, a B-Vent appliance performs best when the vent (roof termination) is located on the upper half of the roof, especially when cathedral ceilings are present. Vents that are located on the lower half of the roof realize what is known as "lazy flue" and will not draft as well as a vent that is located in the upper portion of the roof. The reason for this is that the stack effect generated by the overall height of the living spaces inside the house will exceed the draft generated by the vent system. If you desire to place an appliance in a location where the termination cap would be located on the lower half of a roof; such as on an outside wall at the base of a cathedral ceiling, we recommend that you consider using a direct vent gas appliance. This will ensure an appliance that operates correctly.

These properties do not affect just your B-Vent appliance. They can cause any woodburning fireplace as well as any conventionally vented (B-Vent) gas appliance to operate improperly. Careful planning at this stage of your project will ensure satisfaction with the operation of your appliance once it is completed.



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A. LISTINGS AND CODE APPROVALS

The Odyssey Series fireplace with factory installed gas log set has been tested and listed in the U.S. in accordance with UL127 (Factory Built Fireplace), ANSI Z21.50-1998, and ANSI Z21.60-1996 (Gas Log Set); in Canada, the current ULC S610, CAN/CGA 2.22-M98 and CGA 2.26-M96, and has been listed by Underwriters Laboratories Inc. for installation and operation in the United States and Canada as described in these Installation and Operating Instructions. All components are UL, AGA, CGA or CSA safety certified.

The Odyssey Series fireplace with factory installed gas log set has been tested and listed for use with the optional components given on page 4. These optional components may be purchased separately and installed at a later date.

However, installation of an outside air kit and junction box will require significant reconstruction, and should be installed at the time of the initial fireplace installation.

Check with your local building code agency prior to installing this fireplace to ensure compliance with local codes, including the need for permits and follow-up inspections. In the absence of local codes, comply with the National Fuel Gas Code, ANSI Z223.1-Latest Edition in the U.S.; in Canada, the CAN/CGA B149 Installation Codes. If any assistance is required during installation, please contact your local dealer or the Heatilator Technical Services Department, 1915 W. Saunders Street, Mt. Pleasant, Iowa 52641.

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WARNING!

This Heatilator fireplace and its components are designed to be installed and operated as a system. Any alteration to or substitution for items in this system, unless allowed by these installation instructions, will void the Underwriters Laboratories listing and may void the product warranty. It may also create a hazardous installation. Read through these instructions thoroughly before starting your installation and follow them carefully throughout your project.

B. DESCRIPTION OF THE FIREPLACE SYSTEM

The HEATILATOR® fireplace system consists of the following:

1. Fireplace with Factory Installed Gas Log Set
2. Hearth Extension
3. Chimney System
4. Chimney Termination Cap

Optional components include:

1. Glass Doors
2. Outside Air System
3. Trim Kit
4. Remote Control
5. Junction Box
6. Chimney Air Kit

Odyssey Nomenclature:

ODY42	Fireplace Order Code Number
ODY42	Odyssey Series 42" Fireplace Standing Pilot, Natural Gas
ODY42L	Odyssey Series 42" Fireplace Standing Pilot, Natural Gas

Note: Illustrations throughout these instructions reflect "typical installations" and are for design purposes only. Actual installation may vary slightly due to individual design preferences. However, minimum and maximum clearances must be maintained at all times.

The illustrations and diagrams used throughout these installation instructions are not drawn to scale.

Tools and building supplies normally required for installation:

<u>Tools:</u>	<u>Building Supplies:</u>
Saw	Wall-finishing materials
Pliers	Framing material
Hammer	Fireplace surround
Phillips screwdriver	Caulking material
Tape measure	
Plumb line	
Level	
Electric drill/bits	
Framing square	

We strongly recommend that you DO NOT install B-Vent Gas Appliances in strong negative air locations, such as a basement or a public facility. Living rooms with cathedral ceilings could be susceptible to a negative air situation, but such installations can be overcome through raising the termination, depending on specific installations. This appliance uses room air for normal operation and could have problems establishing a positive draft in a negative air location. In lieu, we recommend a Direct Vent Gas Appliance.

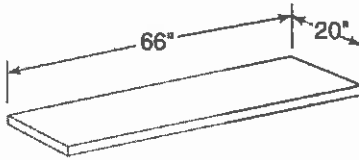
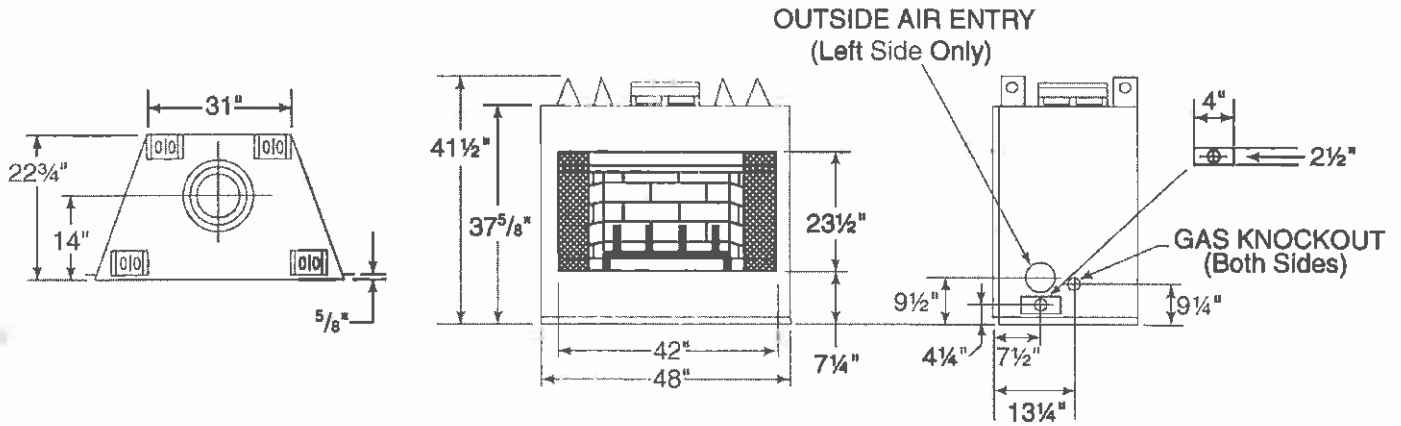
C. FIREPLACE SYSTEM COMPONENTS

The table below, together with the following pictures on page 5-7, show only those components which may be safely used with this fireplace.

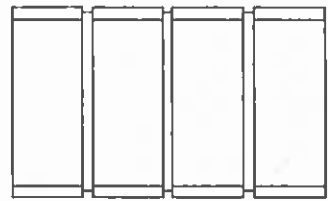
Catalog #	Description
ODY42	Odyssey Fireplace, with Gas Log Set and Hearth Protection Strips
ODYCKW	Gas Log Set to Woodburning Fireplace Conversion Kit
HX4	Hearth Extension
DM1742	Original Bi-fold Glass Doors - Black Finish
DM1742B	Original Bi-fold Glass Doors - Polished Brass Finish
DM1742S	Original Bi-fold Glass Doors - Stainless Steel Finish
GR19	Integral Grate (not included with fireplace) - Included with ODYCKW
AK22	Outside Air Kit
ID4	Insulated Duct/Outside Air
UD4	Uninsulated Duct/Outside Air
CAK4A	Chimney Air Kit
SL306	Chimney Section (6-inch)
SL312	Chimney Section (12-inch)
SL318	Chimney Section (18-inch)
SL324	Chimney Section (24-inch)
SL336	Chimney Section (36-inch)
SL348	Chimney Section (48-inch)
SL3	Chimney Stabilizer
SL315	Chimney Offset/Return - 15°
SL330	Chimney Offset/Return - 30°
FS338	Firestop - Straight
FS339	Firestop - 15°
FS340	Firestop - 30°
AS8	SL300 Straight Attic Insulation Shield, 24"
JB877	Chimney Joint Band
CB876	Chimney Bracket
RF370	Roof Flashing - Flat to 6/12 Pitch
RF371	Roof Flashing - 6/12 to 12/12 Pitch
TR342	Telescoping Chimney Termination Cap - Round
TR344	Chimney Termination Cap - Round (Storm collar included)
ST375	Chimney Termination Cap - Square
TS345	Chimney Termination Cap - Square
TS345P	Chimney Termination Cap - Square (Painted)
CT35	Chase Top
TKA42RS	Stainless Steel Full Trim - ODY42
JK9	Junction Box Kit
RC-SMART-HTL	Remote Control
RC-BATT-HTL	Battery Operated Remote Control (Standing Pilot)
SMART-STAT-HTL	Remote Control with Thermostat Control
SMART-BATT-HTL	Battery Operated Remote Control with Thermostat Control

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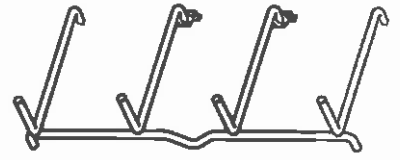
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HX4 - HEARTH EXTENSION



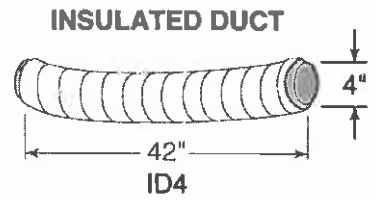
**DM1742 Series
GLASS DOORS**



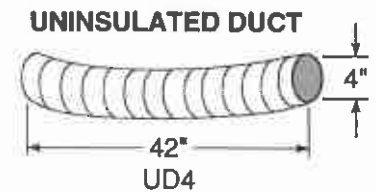
**GR19 - GRATE
(supplied with ODYCKW)**



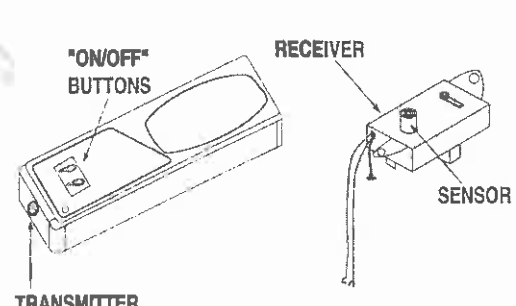
AK22 - OUTSIDE AIR KIT



INSULATED DUCT

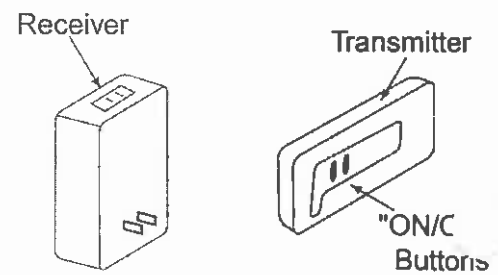


UNINSULATED DUCT



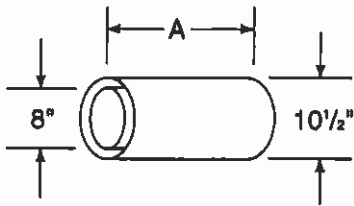
RC-BATT-HTL

REMOTE CONTROLS



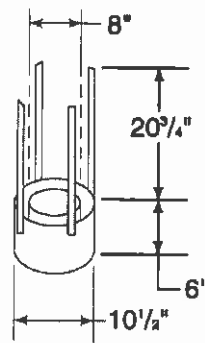
**RC-SMART-HTL
SMART-STAT-HTL
SMART-BATT-HTL**

CHIMNEY SECTIONS

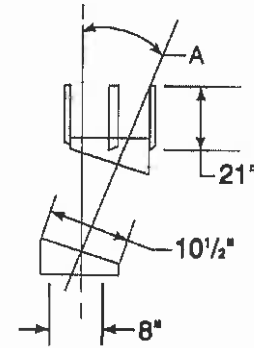


CAT. #	A	B
SL306	6"	4-3/4"
SL312	12"	10-3/4"
SL318	18"	16-3/4"
SL324	24"	22-3/4"
SL336	36"	34-3/4"
SL348	48"	46-3/4"

CHIMNEY STABILIZER



OFFSETS/RETURNS

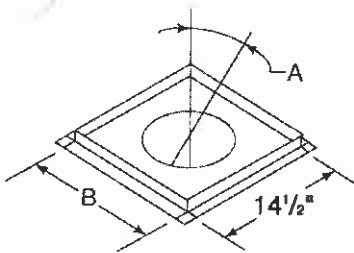


CAT. #	A
SL315	15°
SL330	30°

A = Actual Length

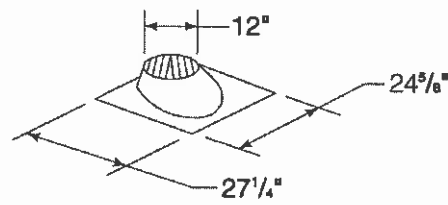
B = Effective length (length of chimney part after it has been snapped to another)

FIRESTOP SPACERS



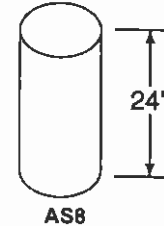
CAT. #	A	B
FS338	0°	14-1/2"
FS339	15°	18-3/8"
FS340	30°	23"

ROOF FLASHING

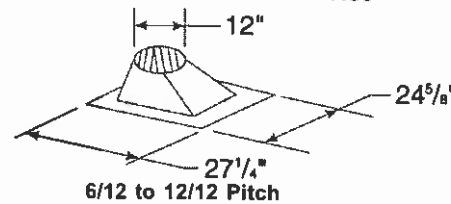


RF370
Flat to 6/12 Pitch

STRAIGHT ATTIC INSULATION SHIELD

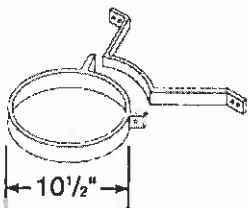


AS8



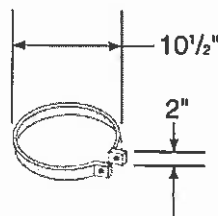
6/12 to 12/12 Pitch

CHIMNEY BRACKET



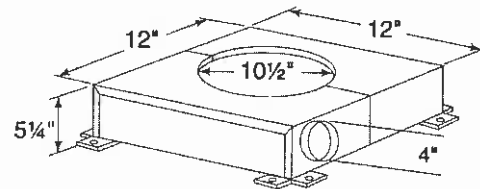
CB876

JOINT BAND



JB877

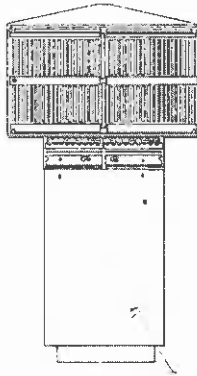
CHIMNEY AIR KIT



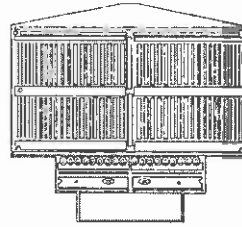
CAK4A

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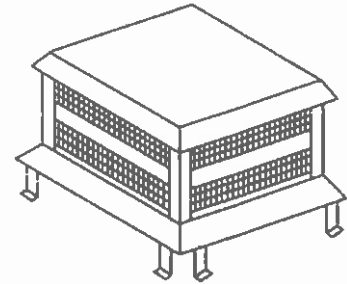
The first name in fireplaces



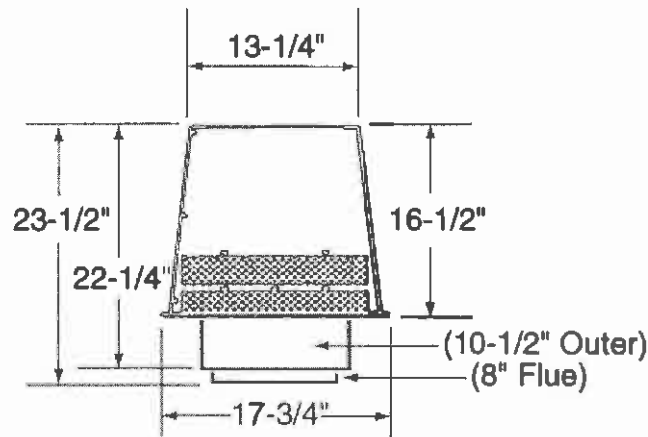
TR342
ROUND TELESCOPING
TERMINATION CAP



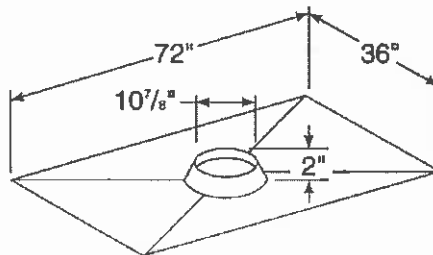
TR344
ROUND TERMINATION
CAP WITH STORM
COLLAR



ST375
SQUARE TERMINATION
CAP



TS345/345P
SQUARE TERMINATION CAP



CT35
CHASE TOP