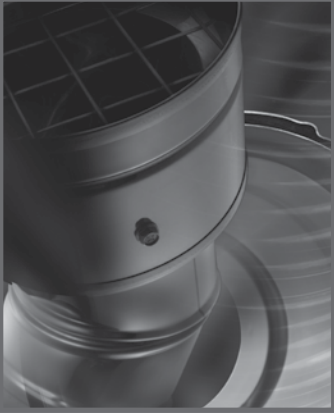


## Installation Instructions



Venting System for Gas Fired Unit Heater  
Appliances

# PRESSURE VENT

**A MAJOR CAUSE OF VENT RELATED FIRES IS FAILURE TO MAINTAIN REQUIRED CLEARANCES (AIR SPACES) TO COMBUSTIBLE MATERIALS. IT IS OF THE UTMOST IMPORTANCE THAT DOUBLE WALL PRESSURE VENT PIPE BE INSTALLED ONLY IN ACCORDANCE WITH THESE INSTRUCTIONS.**

**NOTE:**

Read through all of these instructions before beginning your installation. Failure to install as described in this instruction will void the manufacturer's warranty, and may have an effect on your homeowner's insurance and UL listing status. Keep these instructions for future reference.

**Dear Customer, Installer, or End User:**

We welcome any comments regarding matters pertaining to our DuraVent products.

We welcome any ideas, input or complaints and I'll make sure that someone responds directly back to you.

Send your emails to:  
[president@duravent.com](mailto:president@duravent.com)

If you are searching for tech support or product information, please phone us at 800-835-4429.

Or email us at:  
[techsupport@duravent.com](mailto:techsupport@duravent.com)

**VENTING SYSTEM FOR GAS FIRED UNIT HEATER APPLIANCES.**

*For the most up-to-date installation instructions, see [www.duravent.com](http://www.duravent.com)*

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**PRESSURE VENT**

## INTRODUCTION

Duravent manufactures a special vent system for gas fired appliances as a category II, III and IV venting system in the USA and Canada as BH venting system . For continuous operating exhaust temperature (**Table 1**) pressure of 6" water column. Pressure vent must be installed by an experienced installer familiar with the operation and maintenance of heating appliances and venting. Failure to follow proper installation procedures may cause unsafe conditions.

Do not mix pipe or fittings with other manufacturers. Vent pitch is important for condensate removal and improper appliance connections may cause unsafe conditions. Refer to the gas appliance manufacturers instructions to determine venting requirements and limitations.

Permits may be required before starting an installation. It is the responsibility of the installer to contact local building and fire officials concerning any restrictions and / or inspection requirements that may apply. Suitable for interior or exterior installation.

## GENERAL INSTALLATION REQUIREMENTS

Proper planning for your vent installation will result in greater safety, efficiency and convenience, saving both time and money. Use only Duravent listed parts. Do not install damaged parts.

- When passing through ceilings and walls, make sure all venting pipes are at proper clearances from combustible materials, and that Fire Stops and Wall Thimbles are in place. Wall penetration assemblies are not to be located directly behind a heating

appliance.

- For horizontal terminations make sure NFPA 211 and NFPA 54 rules are followed for minimum distance from windows and openings.
- Do not mix and match with other manufactured products or improvise solutions.
- Never use a vent with an inside diameter that is smaller than the appliance flue outlet.
- Sections of pipe are joined together by lining up the female end of the locking lug with the male end slot. Push them together and turn clockwise to twist lock. Screws are not required. If screws are desired use ¼ long sheet metal screws. Do not penetrate the inner liner with screws.
- Never fill any required clearance space with insulation or any other combustible material (**Table 1**)
- An internal O-ring gasket on the outside of the inner liner is on the female end of the pipe section. These gaskets are lubricated and help seal pipe sections as they are connected together. If your O-ring gasket is missing or becomes unseated during connection, you must replace it with a new O-ring gasket.
- Duravent recommends that the vent system be inspected once a year by a qualified service technician.
- For installation in masonry chimneys check standard for chimney, fireplaces, vents for solid fuel appliances, NFPA 211 for terminations

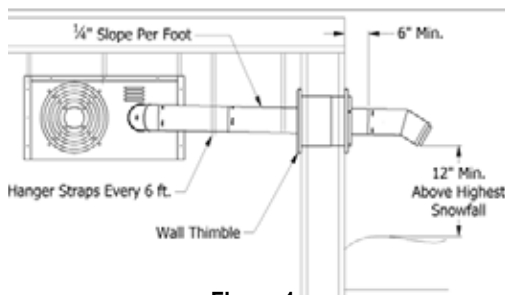
**Table 1**

MINIMUM CLEARANCE TO COMBUSTIBLE MATERIALS AND BUILDING INSULATION				
Dia (in)	Max Flue Gas Temp (°F)	Orientation	Enclosure	Clearance (in)
2"-5"	550	Vertical	Fully Enclosed	1"
2"-5"	480	Horizontal	Unenclosed	Top 2" / Side 1"
2"-5"	330	Horizontal	Fully Enclosed	3"
2"-5"	480	Horizontal	Fully Enclosed	6"

## UNIT HEATER APPLIANCES- HORIZONTAL INSTALLATION

Horizontal commercial applications are for buildings which are not attached to living spaces. When venting through a sidewall termination (residential or commercial) the system shall be not less than 12" (0.3m) above the ground and 12" above the highest snow fall. Terminate the system at least 7' (2.1 m) above a public walkway or driveway and less than 6' (1.8 m) from the combustible intake of any appliance and no less than 3' (.9 m) from any other building opening. For more information on terminations: see National Fuel Gas Code ANSI Z223 .1 and NFPA 54. CAN/CSA-B149.1 or CAN/CSA-B149.2 Propane installations code as applicable.

- The total vent length from the appliance flue collar to the outside termination shall not be greater than the maximum specified in the appliance manufacturer's instructions.
- A horizontal installation shall have a slope downwards of no less than ¼" (6.4 mm) every 12 "(305mm) to prevent excessive condensate formation, ice buildup, or blockage at any location in the assembly (**Fig.1**). See appliance manufacturer's installation instructions for further details regarding condensate drain fittings and pitch of the system.



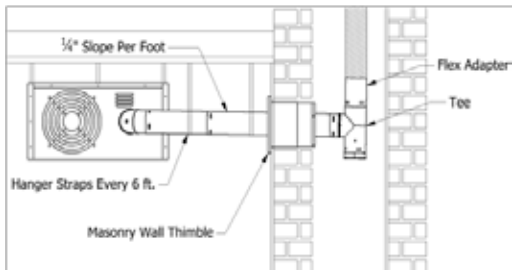
**Figure 1**

## PRESSURE VENT INTO MASONRY CHIMNEY

### AN IMPORTANT MESSAGE ABOUT RELINING YOUR CHIMNEY

Have a professional installer thoroughly clean, and install your new appliance and relining system. Determine condition of creosote buildup in masonry flue, always clean before relining. Any tar glaze creosote buildup must be removed prior to relining the chimney. Determine condition of masonry fireplace and chimney. See that they meet code requirements. The chimney should be checked for cracked, loose or missing bricks, mortar, or other materials that could inhibit a correct installation of the liner system. Make necessary repairs before relining.

The air space clearances between the masonry chimney exterior and combustible materials should be checked to verify that the chimney is in accordance with the clearance specifications of 1) the NFPA; 2) other applicable building codes; or 3) these instructions. 0" clearance if installed in accordance with these instructions).



**Figure 2**

These requirements apply when a unit heater is vented through a masonry chimney with DuraFlex (**Fig.2**). Single appliance venting of a fan assisted unit heater into a tile lined masonry chimney (interior or exterior is prohibited). The chimney must be lined with an insulated single wall flexible vent lining system sized in accordance with nationally accepted venting tables. The DuraFlex system in a masonry chimney should be insulated, because the performance of the entire heating system will be greatly enhanced with improved draft and reduced condensation. The DuraFlex liner system is held in place by the frame work at the top of the chimney. Complete kits are available (Tee, Top Plate, and Flex). Connect only one appliance per chimney liner. The size of the liner should be the same as the appliance outlet.

See complete Duravent flexible chimney liner instructions L253 –  
[www.duravent.com/productdocumentsearch.aspx](http://www.duravent.com/productdocumentsearch.aspx)

## **CLEANING AND MAINTENANCE**

1. Have your system cleaned as needed. If you have doubts about your ability to clean it, contact a professional. Use a plastic or flexible steel brush. Do not use a stiff brush that will scratch the stainless steel liner of your system. Do not use chemical cleaners. They can damage the vent pipe.
2. Pressure vent systems must be installed so that access is provided for inspection and cleaning.
3. The system should be inspected as needed, especially when appliance is serviced.
4. To increase the life of the venting system, coat all exterior metal parts with high temperature, rustproof paint. This is highly recommended, particularly in areas near the ocean.
5. Duravent is not responsible for flue by-products that might discolor roofs or walls.



## M&G DURAVENT LIMITED LIFETIME WARRANTY

M&G DuraVent, Inc. ("DuraVent") provides this limited lifetime warranty for all of its products with the exception of Ventinox® (lifetime), and PolyPro® (ten years). Subject to the limitations set forth below, DuraVent warrants that its products will be free from defects in material or manufacturing, if properly installed, maintained and used. DuraVent products are fully warranted if installed only by a professional installer. This Warranty is transferable from the original homeowner to the buyer of the home. This warranty does not cover normal wear and tear, smoke damage or damage caused by chimney fires, acts of God, or any product that was: (1) purchased other than from an authorized DuraVent dealer, retailer or distributor; (2) modified or altered; (3) improperly serviced, inspected or cleaned; or (4) subject to negligence or any use not in accordance with the installation instructions included with the product as determined by DuraVent. Installation instructions are available online at [www.duravent.com](http://www.duravent.com) under Support/Literature and through our Customer Service Department 800-835-4429 or [customerservice@duravent.com](mailto:customerservice@duravent.com). This limited lifetime warranty applies only to parts manufactured by DuraVent.

DuraVent provides the following warranties for its products: One Hundred Percent (100%) MSRP 15 years from the date of purchase, and Fifty Percent (50%) thereafter, except for the following limitations on: all Termination Caps and DuraBlack® are warranted at One Hundred Percent (100%) for five years.

All warranty obligations of DuraVent shall be limited to repair or replacement of the defective product pursuant to the terms and conditions applicable to each product line. These remedies shall constitute DuraVent's sole obligation and sole remedy under this warranty. This warranty provides no cash surrender value. The terms and conditions of this warranty may not be modified, altered or waived by any action, inaction or representation, whether oral or in writing, except upon the express, written authority of an executive officer of DuraVent.

Corn, bio-fuels, driftwood or other wood containing salt, preservative-treated lumber, plastic and household trash or garbage, or wood pellets containing such materials must not be burned in the appliance or fireplace. In case of a chimney fire, the chimney must be inspected and approved by a certified Chimney Sweep before reuse. After each annual inspection, maintenance, and cleaning, the certified Chimney Sweep must fill out and date the appropriate section of the warranty card provided with the chimney liner.

LIMITATIONS ON INTERNET SALES: Notwithstanding any other terms or conditions of this Limited Lifetime Warranty, DuraVent provides no warranty for the following specific products if such products are not installed by a qualified professional installer: DuraTech®, DuraPlus HTC®, DuraChimney® II, PelletVent Pro®, DirectVent Pro®, FasNSeal®, FasNSeal® W2, FasNSeal® Flex, and PolyPro®, and M&G DuraVent's relining products including DuraLiner®, DuraFlex® (SW, Pro, 316, 304), and Ventinox®. For purposes of this warranty, a trained professional installer is defined as one of the following: licensed contractors with prior chimney installation experience, CSIA Certified Chimney Sweeps, NFI Certified Specialists, or WETT Certified Professionals.

DuraVent must be notified and given the opportunity to inspect defective product prior to replacement under the terms of this limited lifetime warranty. All warranty claims must be submitted with proof of purchase. Labor and installation costs are not covered under this warranty. To obtain warranty service contact: DuraVent Warranty Service, 877 Cotting Ct., Vacaville CA 95688, or call 800-835-4429.

WHERE LAWFUL, DURAVENT DISCLAIMS ALL OTHER WARRANTIES, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL DURAVENT BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL, PUNITIVE OR SPECIAL DAMAGES OR DIRECT OR INDIRECT LOSS OF ANY KIND, INCLUDING BUT NOT LIMITED TO PROPERTY DAMAGE AND PERSONAL INJURY. DURAVENT'S ENTIRE LIABILITY IS LIMITED TO THE PURCHASE PRICE OF THIS PRODUCT. SOME STATES DO NOT ALLOW LIMITATIONS ON IMPLIED WARRANTIES, OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO YOU. THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS THAT VARY FROM STATE TO STATE.

For the most up-to-date installation instructions, see [www.duravent.com](http://www.duravent.com)

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# DuraVent

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**Customer Service Support 800-835-4429 707-446-4740 FAX [www.duravent.com](http://www.duravent.com)**

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