

Z-VENT

MODEL SVE

SERIES III

INSTALLATION AND MAINTENANCE

INSTRUCTIONS

**Hamilton SVE-3 Horizontal Stainless Steel Venting System
Distributed Exclusively By Hamilton Home Products, Inc.**

Designed for Hamilton WGH Garage Heaters Being Installed
In Downward Sloping Side Wall Venting Applications *Only*

Category III



TESTED AND LISTED BY

UNDERWRITERS LABORATORIES, INC.

UL 1738 & BH636

FLEXMASTER CANADA LTD
452 ATTWELL DRIVE
ETOBICOKE, ONTARIO
M9W 5C3

Z-FLEX US, INC
20 COMMERCE PARK NORTH
BEDFORD, NH
03110-6911

SPECIAL STAINLESS STEEL VENTING

For use with Category II, III, IV appliances

Contact Local Building or Fire Officials about Restriction and Installation Inspections in you area as well as National Codes:

USA - National fuel gas code ANSI-Z223.1

CANADA - CAN/CGA-B149.1 or .2 Fuel Burning Installation Code

Please refer to appliance manufacturer's instructions to determine proper sizing and connection of venting system to appliance, including maximum horizontal length, maximum height, and installation clearances (air spaces). The proper operation of the vent system and appliance requires parts specified by Z-FLEX with no deletion or substitutions.

PARTS LIST

COMPONENT	3" SYSTEM CAT. #	COMPONENT	3" SYSTEM CAT. #
10 Foot Pipe	SVEPWC0310	Adjust. Flashing	SVSADJ03
8 Foot Pipe	SVEPWC0308	Reducer 4" to 3"	SVSERWC0403
5 Foot Pipe	SVEPWC0305	Flat Flashing	SVSSCS03
4 Foot Pipe	SVEPWC0304	Locking Band	SVSLBX03
3 Foot Pipe	SVEPWC0303	Firestop Support	SVSFSS03
2 Foot Pipe	SVEPWC0302	Firestop Spacer	SVSFSX03
1 Foot Pipe	SVEPWC0301	Termination Tee	SVSTTX03
6 Inch Pipe	SVEPWC03.5	Termination Box	SVSRTX03
90° Elbow	SVEEWC0390	Rain Cap	SVSRCX03
45° Elbow	SVEEWC0345	Top Support	SVSLSX03
Horizontal Drain Tee	SVEDWC03	Storm Collar	SVSSCX03
Vertical Drain Tee	SVEVWC03	Z-Vent Sealant	GE106X
Wall Thimble	SVSWTX03	WM Term Coupling	SVSTPX03
WM GV Starter	SVEWMG03	Ametek Fan Conn.	SVSACA03
Drain Tube Kit	SVEDTK	WM CGI Starter	SVEWMFA03

Z-FLEX recommends that an experienced professional who works with venting system on a regular basis perform the installation. These instructions are intended as a guide to assist a professional installer.

When the **Z-VENT** system is installed, the following should be observed:

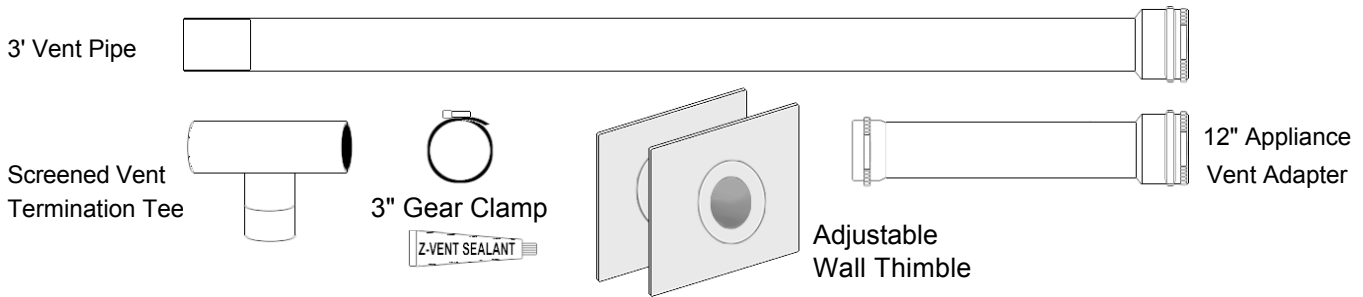
1. A venting system that exits the structure through a sidewall or the like, shall terminate not less than 12 inches (254 mm) above the ground (see Illustration #2, Page 5)
2. The termination of a system shall be located above the snow line in geographical areas where snow accumulates. The termination area should be kept clear of snow and ice at all times.
3. The vent shall not terminate less than 7 ft. (2.13m) above a paved sidewalk or driveway.
4. The termination shall be 6 ft. (1.8 m) or more from the combustion air intake of any appliance.
5. The system shall terminate more than 3 ft. (.91 m) from any other building opening, gas utility meter, service regulator, or the like.
6. Exterior mounted venting systems should be enclosed below the roof line with a chase to limit condensation and protect against mechanical failure.

NOTES:

- A. The Z-FLEX SPECIAL STAINLESS VENT SYSTEM is for use only with appliances having a positive vent pressure of 8" of water column or less.
- B. Except for installation in one or two family dwellings, a venting system that extends through any zone above that on which the connected appliances located shall be provided with an enclosure having fire resistance rating equal to or greater than that of the floor or roof assemblies through which it passes.
- C. Do not place any type of insulation in any required air spaces surrounding the vent system.
- D. A termination must be used on all installations to assure proper operation and to prevent debris from entering the venting system.
- E. The **Z-Vent** system must be free to expand and contract. Pipe must be properly supported. Vertical runs must us firestops as lateral support at each ceiling level and at least one support collar at the base of the vertical run. For vertical runs exceeding 16' (4.88 m), a support collar is required at 16' (4.88 ,m) intervals. Horizontal runs require a loose fitting metal strap or similar support at each joint.
- F. Examine all components for possible shipping damage prior to installation.
- G. Proper joint assembly is essential for a safe installation. Follow these instruction exactly as written. Check severeness of joints upon completion of assembly.
- H. Check for unrestricted vent movement through walls, ceilings and roof penetrations.
- I. Different manufacturers have different joint systems and adhesives. Do Not Mix Pipe, Fittings or Joining methods from different manufacturers.

KIT CONTENTS

Inspect the kit to verify the following parts are present before proceeding with the installation. Contact Hamilton at **1-800-879-0123** if a part is missing. **Read the instructions completely before installing.**

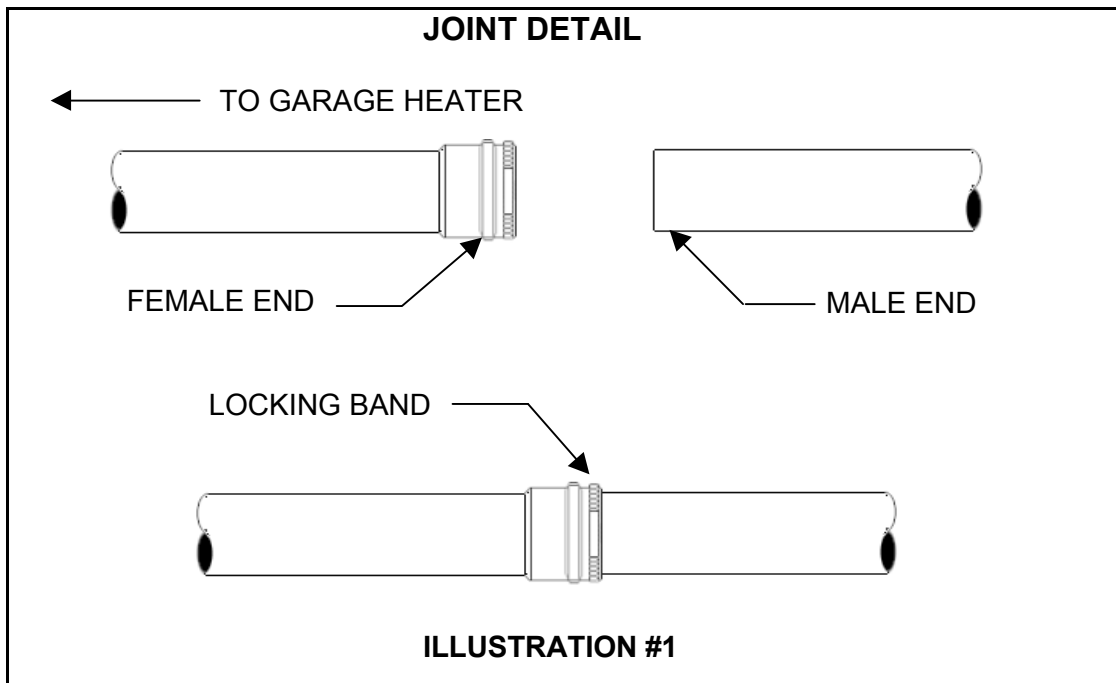


JOINT PROCEDURE

The female end of each Z-Vent III component incorporates a silicone sealing gasket (*except for 12" Appliance Vent Adapter*). Examine all components to insure that gasket integrity has remained during shipping. Gaskets must be in the proper positions or flue gases could leak resulting in carbon monoxide poisoning.

Please Note: The connection of the 12" Appliance Vent Adapter to the Garage Heater Vent Pipe Connector requires *a continuous bead of Z-Vent high temperature silicone (included) applied to the flange of the Vent Pipe Connector prior to attaching the Appliance Vent Adapter and tightening Locking Band.* (See Illustration on Page 5.)

1. Align pipes and push them together as far as they will go (at least 1.75 inches).
2. Tighten Locking Bands and Gear Clamp to a minimum torque of 40 in/lbs. and maximum of 50 in/lbs.



CLEARANCE TO COMBUSTIBLES

System Operating Temperature	Clearance Enclosed		Clearance Unenclosed	
	Horizontal	Vertical	Horizontal	Vertical
300° F (149° C)	8" (200mm)	4" (200mm)	1" (25mm)	1" (25mm)
480° F (249° C)	8" (200mm)	4" (200mm)	1" (25mm)	1" (25mm)

INSTALLATION FOR: Downward Sloping Side Wall Venting Applications Only

(Refer to Illustration on Page 5)

1. Penetrating a combustible wall requires the use of a Wall Thimble. (If the wall is non-combustible, the Vent pipe may be mortared in directly without using a wall thimble.) Install Wall Thimble into wall, observing the aforementioned rules and/or local building codes. Select the point of wall penetration where a **minimum** 1/4" per foot of slope (6.4mm per 305mm) can be maintained.* A framed opening is required to insert the thimble halves. The Wall Thimble can be adjusted for different wall thickness. Caulk around outside edges of plates as necessary and fasten to wall using suitable screws or nails. The Vent Pipe must be sealed at Wall Thimble as per code regarding continuous vapor barrier.

*** IMPORTANT:** *Category III appliances with a downward sloping side wall application must slope not less than 1/4" (6.4mm) every 12" (305mm) to prevent collection of condensate at any location in the assembly.*

2. Apply a continuous bead of Z-Vent High Temperature Silicone to the flange of the Garage Heater Vent Pipe Connector so that it forms a seal when attaching the 12" Appliance Vent Adapter (*do not* tighten locking band on the Garage Heater side of the 12" Appliance Adapter completely at this time.)
3. Using the joint procedure described on Page #3, assemble the female end of the 3' Vent Pipe to the Screened Vent Termination Tee, and slide through the Wall Thimble from the exterior. Slip the Gear Clamp over the end of the Vent Pipe as it passes through the interior portion of the Wall Thimble, and connect Vent Pipe to the 12" Appliance Vent Adapter. Once all connections are made, make sure that the Screened Vent Termination Tee is positioned horizontally.

Note: The length of the Vent Pipe may be cut on the *male end* using aviation snips or a hacksaw (24 tpi). The cut end must be filed or sanded smooth before joining.

The minimum length of the venting system must be 3 ft.

Note: The Gear Clamp must be installed around the Vent Pipe on the interior of the wall to secure pipe in position so that the system remains stationary. (This applies to both combustible and non-combustible walls.) See illustration on Page 5

4. Verify that all joints are connected properly. Tighten **all** Locking Bands (including the locking band from step #2 above) and the Gear Clamp. Allow 1 hour for the High Temperature Silicone to cure before using the Garage Heater.

IMPORTANT NOTICE

When the previous installation procedures are completed, examine the entire venting system to verify that all joints are secure and sealed correctly. The seams and joints must be checked for tightness prior to using the venting system.

The installation must conform to the requirements of the Hamilton WGH Garage Heater instructions, the National Fuel Gas Code and Federal, State, and Local codes and regulations.

Once installation is complete, read the Limited Lifetime Warranty and mail in the Warranty Registration Card.

For additional assistance, call Hamilton Home Products, Inc. at **1-800-879-0123** or visit their web site at www.HamiltonHomeProducts.com.

Hamilton SVE-3 Horizontal Stainless Steel Vent Kit Assembly

(For Downward Sloping Side Wall Venting Applications Only)

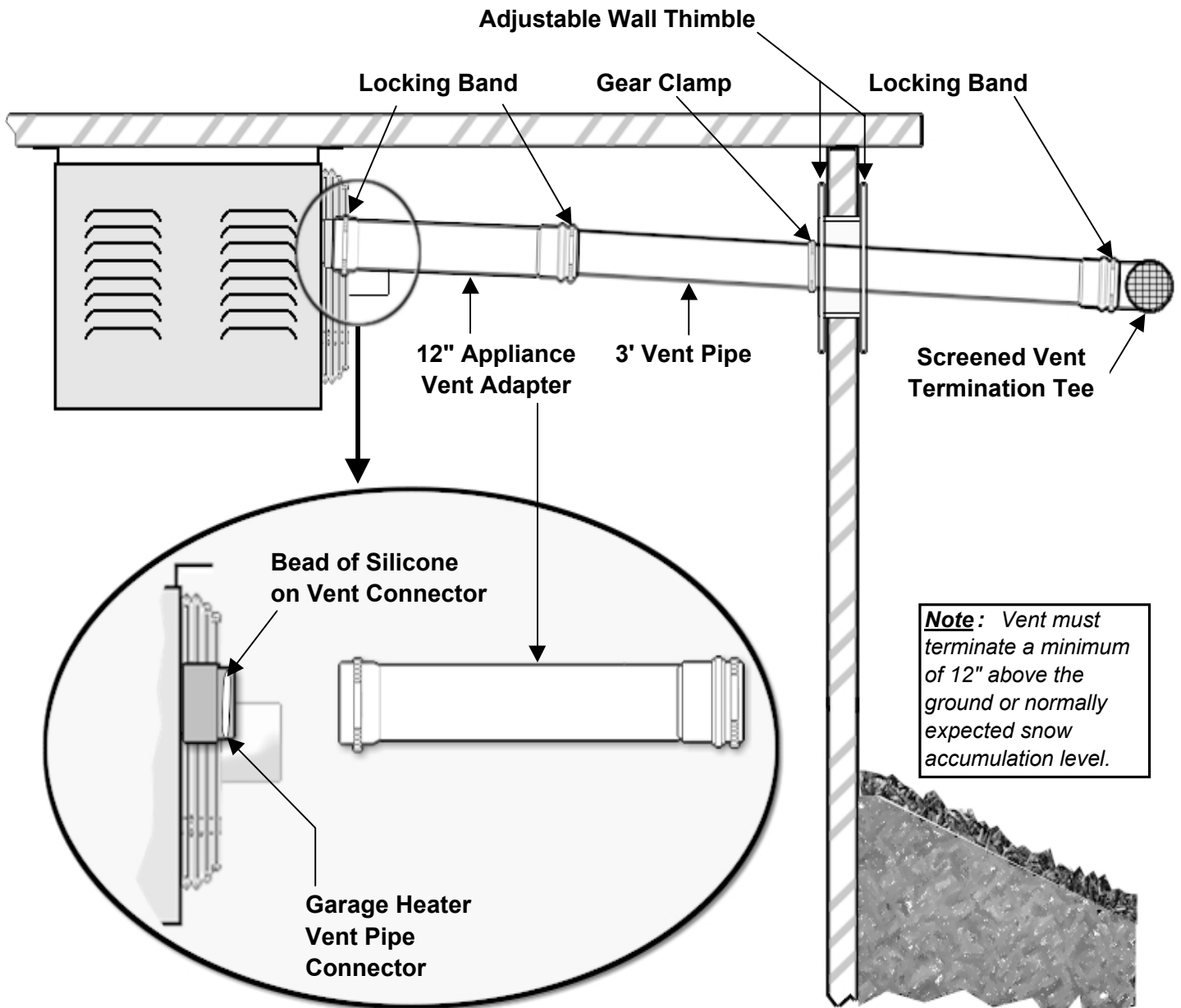


ILLUSTRATION #2

Installation must conform to the requirements of the Hamilton WGH Garage Heater instructions, The National Fuel Gas Code, and Federal, State, and Local codes and regulations.

Z-Flex™ LIMITED LIFETIME WARRANTY

Z-Flex™ ("Seller") extends the following LIMITED WARRANTY for Z-VENT (the "Z-VENT"):

Seller Warrants that at the time of purchase, the Z-Vent will be free of manufacturer's defects in material and/or workmanship. This warranty shall extend to the original purchaser of the Z-Vent or, if purchased by a contractor, to the end user. This warranty is valid for a period of fifteen (15) years from the date of purchase, provided that the Z-Vent has been installed according to Z-Flex™ installation instructions. Deviating from the installation and use instructions included with the Z-Vent will void the warranty.

Under this Limited Warranty, Seller's sole responsibility and liability shall be to replace the Z-Vent and/or accessories, if found by Seller to be defective according to the terms of the warranty, and shall not include replacement installation or other costs.

IMPORTANT: The Z-Vent is designed for use with Category II, III and IV furnace and boiler venting and should not be used with any other type of furnace and boiler venting. Use of the Z-Vent with any other type of furnace and boiler venting other than those recommended by Seller for use with its Z-Vent will void the warranty.

WARNING: CONDENSATION WITH HIGH ACID CONTENT MAY BE PRODUCED DUE TO UNFORESEEN CONDITIONS. YOUR HEATING APPLIANCE AND VENTING SYSTEM SHOULD BE INSPECTED BY A LICENSED CONTRACTOR ON AN ANNUAL BASIS FOR POSSIBLE SIGNS OF DETERIORATION DUE TO RUSTING OR PIN HOLES. CONDENSATION WITH HIGH ACID CONTENT MAY CAUSE LEAKAGE OF HARMFUL GASES WHICH CAN CAUSE NAUSEA, FAINTING OR DEATH. IF DETERIORATION IS DETECTED CEASE USE OF HEATING SYSTEM AND CALL FURNACE / BOILER INSTALLER FOR REMEDIAL ACTION.

To activate the warranty, the end-user must complete and return the Z-Flex™ Warranty Registration Card within ninety (90) days of installation of the Z-Vent. Upon written notice of any defects, Z-Flex™ reserves the right to examine or establish reasonable proof of defective material or workmanship justifying replacement.

NO OTHER EXPRESS WARRANTY HAS BEEN MADE OR WILL BE MADE ON BEHALF OF SELLER WITH RESPECT TO THE Z-VENT OR THE INSTALLATION OR REPLACEMENT OF THE Z-VENT. SELLER SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGES.

As some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, the above limitations or exclusions may not apply to you.

IMPLIED WARRANTIES, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, IMPOSED ON THIS SALE UNDER STATE LAW, ARE LIMITED TO THE PERIOD DURING WHICH THIS WARRANTY IS IN EFFECT. AS SOME JURISDICTIONS DO NOT ALLOW LIMITATIONS ON THE LENGTH OF AN IMPLIED WARRANTY, THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

Claims under this Warranty must be made within the warranty period in writing and directed to: **In the USA;** Warranty Claims, Z-Flex™ (US) Inc., 20 Commerce Park North, Bedford, New Hampshire 03110, (603) 669-5136 or (800) 654-5600. **In Canada;** Warranty Claims, Z-Flex™ Inc., 452 Atwell Drive, Etobicoke, Ontario, M9W 5C3, (416) 649-0045. This Warranty gives you specific legal rights, and you may also have other rights that vary in different States and Provinces.

WARRANTY REGISTRATION CARD: Z-FLEX™

For this warranty to be effective, this card must be completed upon purchase of the covered Z-Vent and returned to Z-Flex™ within ninety (90) days of installation of the Z-Vent.

Original end-user's name: _____

Address of premises in which the Z-Vent is installed: _____

Z-Vent purchased from: _____

Date of installation: _____

Type of Heating System into which Z-Vent installed: _____

I understand and agree to the Warranty as stated: _____

Signature

Date