

# SUPPLEMENTAL INSTALLATION INSTRUCTIONS

## CATEGORY III SIDEWALL VENTING FOR TU, TDH, AND TL SERIES GAS FIRED CENTRAL FURNACES

**READ ALL INSTRUCTIONS CAREFULLY BEFORE  
BEGINNING THE INSTALLATION.**

**THE INSTALLATION MUST COMPLY WITH THESE  
INSTRUCTIONS AND THE REQUIREMENTS OF ALL  
GOVERNING CODES AND ORDINANCES FOR THE  
INSTALLATION LOCATION.**

**IT IS THE RESPONSIBILITY OF INSTALLER TO KNOW AND  
UNDERSTAND ALL OF THESE REQUIREMENTS.**

**FAILURE TO DO SO COULD CREATE A HAZARD RESULTING  
IN PROPERTY DAMAGE, BODILY INJURY OR DEATH.**

**INSTALLER: LEAVE THESE INSTRUCTIONS WITH THE  
FURNACE FOR FUTURE REFERENCE.**



**BARDMANUFACTURING COMPANY  
BRYAN, OHIO 43506**

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just as planned.*

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# SUPPLEMENTAL INSTRUCTIONS FOR CATEGORY III VENTING OPTION

## STAINLESS STEEL – RIGID GAS VENT

**Category III** (sidewall) installations are permitted only when in accordance with the following requirements:

1. The Installation Instructions from the vent manufacturers referenced below must be followed exactly except as noted in this set of instructions.

2. Authorized venting systems are: **StaR-34 SS – Rigid Gas Vent**

Supplier: **Flex-L International Inc.**  
 CDA: 6035 Kestrel Rd. • Mississauga • ON • L5T 1Y8  
 USA: POB 29140 • Columbus • OH • 43229-0140  
 Telephone 800-561-1980 Fax 800-267-1980

**Saf-T Vent Special Gas Vent**

Supplier: **Heat-Fab Incorporated**  
 38 Haywood Street  
 Greenfield, MA 01301  
 Telephone 800-772-0739 Fax 413-773-3133

**SVE Special Gas Vent**

Supplier: **Z-Flex U.S. Inc.**  
 20 Commerce Park North  
 Bedford, NH 03110-6911  
 Telephone 603-669-5136 Fax 603-669-0309  
 Outside NH 800-654-5600

3. The Category III installation can only be used for a single furnace installation and no other appliances are to be vented as part of this installation.
4. The size (diameter) of the vent system must be the same as the vent collar on the furnace draft inducer.
5. The minimum vent must consist on one (1) 90 degree elbow, drain tee, three (3) feet of pipe, and termination tee.
6. The maximum allowable vent system is based on the number of 90 degree elbows used. Two 45 degree elbows are equal to one 90 degree, and it is recommended to use 45 degree elbows wherever practical. Reference the table below for specific information.

Total 90 Degree Elbows for Vent System	1	2	3	4	5
Maximum Allowable Vent Pipe Length (feet)	50	45	40	35	30

7. Vertical vent installations using the one of the stainless steel systems referenced above are permissible but not recommended. B-Vent double wall vent systems are the recommended vent system for vertical vent applications.

8. *The following requirements are exceptions to and take precedence over any statements made in the Vent Manufacturers' Instructions regarding the subject being discussed:*

- a.) A horizontal drain tee must be installed as near as practical to the first elbow coming off the top of the furnace.
- b.) Only a single drain fitting is required as specified in *a.* above.
- c.) The loop in the drain hose should be at least 3 feet (0.9m) from the connection point on bottom of drain tee to insure a positive water seal in the drain hose at all times.
- d.) All horizontal portions of the vent system must slope upwards away from the furnace towards the vent termination tee.
- e.) The termination tee is oriented with the side tee opening connected to the vent pipe, and the two (2) openings with the bird screen positioned up and down. The extension (spacing from wall surface to the backside of the vertical section of tee fitting) is 12 inches minimum and 18 inches maximum.
- f.) The venting system termination shall be at least 4 feet (1.2 m) below, 4 feet (1.2 m) horizontally from, or 1 foot (30cm) above any door, window, or gravity air inlet into any building. The bottom of the vent terminal shall be located at least 12 inches (30cm) above grade.
- g.) Connection to the flue outlet fitting on the furnace draft inducer is required as follows:
  - \* Flex-L system: apply approved sealant, push pipe section firmly onto flue collar, and use appropriately sized worm gear clamp to draw pipe tightly to the collar.
  - \* Heat-Fab system: apply approved sealant, and use adapter 7363GC for 3" or 7364GC for 4".
  - \* Z-Flex system: apply approved sealant, and use standard locking band to clamp pipe section to the flue collar.

