



# Direct Vent Kit Installation Instructions

All of the components, stainless steel or aluminum liners are manufactured at one or more of the following National Chimney locations:



3 Green Tree Dr  
S Burlington, VT 05403

4219 Howard Ave  
Kensington, MD 20895

2601 Emory Rd, Bldg #4  
Finksburg, MD 21048

2147C Fletcher Ave  
Indianapolis, IN 46203

211 Windsor Dr  
Mt Sterling, KY 40353

## Components and Hardware Parts List:

- 33DVA 3”/3” Direct Vent Appliance—Available in either Stainless Steel or Aluminum and with multiple flashing sizes
- 34DVA 3”/4” Direct Vent Appliance —Available in either Stainless Steel or Aluminum and with multiple flashing sizes
- 33RFC 3”/3” Round Factory Cap—Available in Stainless Steel with multiple flashing sizes
- 34RFC 3”/4” Round Factory Cap—Available in Stainless Steel with multiple flashing sizes
- 3SQ 3”/3” Square Cap—Available in either Stainless Steel or Aluminum and with multiple flashing sizes
- 34SQ 3”/4” Square Cap—Available in either Stainless Steel or Aluminum and with multiple flashing sizes

*Note: All components come with EZ Connect Clamps in their respective sizes.*

## Welcome!

Thank you for purchasing the most complete Direct Vent Kit on the market. Please read all of the instructions carefully and install accordingly. Failure to install this product in agreement with this manual will void the manufacturer’s warranty, and it may affect both your homeowner’s insurance and the UL Listing status.

These instructions apply to National Chimney’s MagnaFlex Direct Vent Liner System. This system, in combination with the gas appliance, has been tested and listed as a decorative gas heater system by a major testing agency such as UL, Warnock Hersey, CSA, and OMNI.

## Safety Provision

Maintain clearance to combustibles to prevent any fire hazard. Check any required clearance to combustibles required by the appliance manufacturer. This engineered system is only to be used with its own flue and is not to be attached to a chimney which vents a solid fuel or other gas appliance.

## Preparing the Chimney

After inspection, if cleaning is required, use a soft plastic brush the same size as the interior of the liner. Either push the brush up from the bottom or down from the top, using the appropriate number of extension poles for the height of the chimney. When cleaning from the top, remove the rain cap before inserting the brush into the top of the liner.

The chimney must be thoroughly cleaned to remove all residues including complete removal of any glazed creosote before the liner can be installed. The chimney must also be inspected for structural integrity. Any missing, cracked, or loose masonry and mortar joints must be repaired before the liner is installed.

## Installation in Masonry or a Zero Clearance Chimney

1. Open and verify that your kit has a DV cap, the appropriate flashing for your installation, four EZ Connect Bands, and the necessary amount of flex.
2. Measure the top of your flue to your appliance.
3. Unroll each aluminum liner to allow the liner to untwist itself.  
*Note: You also may need to pull out the liner, since it is tightly compressed for shipping.*
4. Mark one liner to indicate which tube will be used for exhaust. This will help eliminate installing the exhaust on the fresh air intake side.
5. Secure the flashing to the crown using silicone and tapcon screws.  
*Note: if using a factory flashing adapter, do not use any silicone as you must keep air moving freely.*
6. For the appliance, use high temperature silicone and the supplied gear clamps to make the connection.
7. Congratulations! Your installation is now complete.



### Inspection and Maintenance Instructions

Should you have any questions concerning inspection and maintenance of the MagnaFlex Direct Vent System, please contact: National Chimney at **1-800-897-8481**.

- ▶ Inspection of the MagnaFlex Direct Vent System should be done once per year. To properly inspect the liner system, it is necessary to gain access to the top and/or bottom of the chimney.
- ▶ To inspect from the bottom, remove the connector pipe from the exhaust side of the appliance. Using a flashlight and a mirror, look up inside the liner to inspect for debris or blockages.
- ▶ To inspect the liner from the top, remove the liner's rain cap or the access portion of the rain cap. Using a flashlight, shine the light down into the liner from the top, and visually inspect for blockages and debris.  
*Note: If the chimney has offsets, you may be unable to see all the way to the top or bottom. In that case, it will be necessary to inspect the liner from both top and bottom of the chimney.*
- ▶ The chimney must have the proper applicable wall thickness, i.e., a minimum of 4 inches (nominal) solid masonry units.
- ▶ Proper operation of the venting system and appliance is dependent on the use of all parts specified by the manufacturer for use in the particular installation. Proper performance of the system is potentially affected when the proper assembly of all required parts is not accomplished.
- ▶ Connector pipes and wall pass-throughs shall be installed per the appliance manufacturer's instructions for clearance and construction. See also N.F.P.A. 54 for reference.
- ▶ The chimney must extend at least three feet above the highest point where it penetrates the roof structure and at least two feet higher than any portion of the building or adjoining structures closer than ten feet.
- ▶ The minimum airspace between the liner and the interior of the chimney is zero inches. Clearance to combustibles from the exterior of the chimney may also be zero inches.
- ▶ Note: Other required installation procedures and applicable restrictions are not specifically listed.
- ▶ Contact Local Building or Fire Officials About Restrictions and Installation Inspections in Your Area.

### Our Locations

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