

# Z-FLEX® Chimney Liner Systems

## Co-Linear *FLEXIBLE DIRECT VENT* System

**A completely sealed system that does not compromise indoor air quality**  
**Designed for use when converting existing wood-burning fireplaces into gas fireplaces**

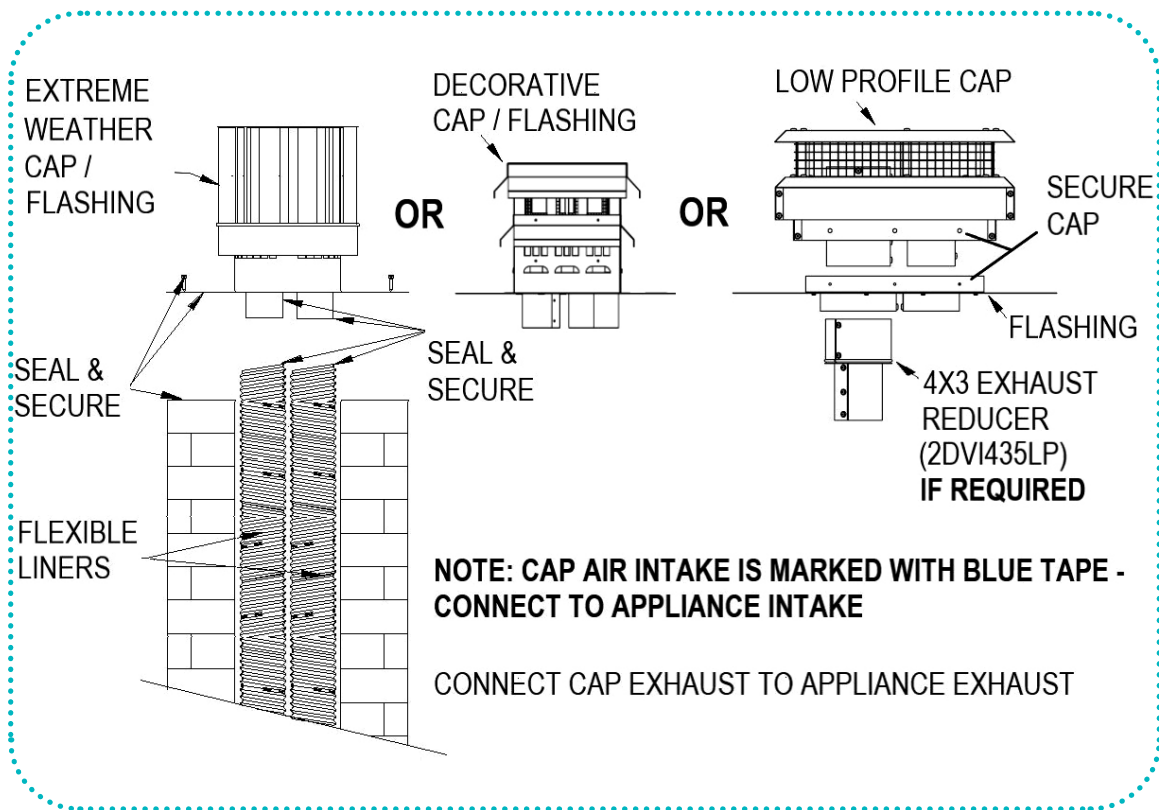
In terms of safety, efficiency and versatility, **Direct Vent Fireplaces** have several advantages over traditional fireplaces.

Using indoor air for combustion can de-pressurize the living space and potentially pull harmful flue gases back into the home.

**Direct Vent Systems** use outdoor air instead of indoor air for combustion.

Outside air is drawn in for combustion, while flue gas is exhausted outside.

As hot air exits the pipe, the natural flow of heat creates a convection loop as cooler, denser air is pulled back to the burner.



 **UL** US  
2112  
ANSI Z21.88  
CSA 2.33

## Co-Linear *FLEXIBLE* DIRECT VENT System

**Direct Vent Insert Kits** include:

Two (2) Triple Lock<sup>®</sup> Gas Liners for flue exhaust and outside combustion air, with an extreme weather, decorative or low profile co-linear termination.

### Extreme Weather Kit



cULUS

**Model DVI-X Direct Vent Co-Linear Flexible Liner Kit with Extreme Weather Cap/Flashing Kit includes:**

- Chimney Liners (Exhaust and Intake)
- Extreme Weather Cap/Flashing
- Self-tapping Screws

### Decorative Kit



cULUS

**Model DVI-D Direct Vent Co-Linear Flexible Kit with Decorative Cap/Flashing Kit includes:**

- Chimney Liners (Exhaust and Intake)
- Decorative Cap/Flashing
- Self-tapping Screws

### Low Profile Kit



cULUS

**Model DVI-LP Direct Vent Co-Linear Flexible Kit with Low Profile Cap Kit includes:**

- Chimney Liners (Exhaust and Intake)
- Low Profile Cap.
- Flashing
- Self-tapping Screws
- 4 x 3 Reducer (2DVI4335LP)

**Safety** - Direct Vent Systems exhaust flue gases outdoors while bringing adequate combustion air to fireplace.

Tighter homes lack ventilation air necessary for complete combustion of burning fuels. Incomplete combustion yields carbon monoxide an invisible, odorless, colorless gas which if not properly vented and exposed in high enough concentrations can be fatal or cause permanent injury.

**Efficiency** - As Direct Vent Systems draw cold combustion air directly from outdoors to fireplace instead of from the living space, heated air from the living space does not need to be replaced by cold drafts through windows and doors resulting in a higher system efficiency.

**Quality** - Z-Flex Triple Lock<sup>®</sup>, regarded as the strongest flexible duct construction method in the industry; provides piece of mind that flue gases are being safely vented outside the living space through continuous length flexible gas vent. In addition, computer added design and construction methods help produce aesthetically pleasing and efficient system components.

**Versatility** - Direct Vent Systems are easy to install. Continuous length Triple Lock<sup>®</sup> Flexible Gas Vent provides only two connection points; Insert and Termination. The Flexible Venting is quickly and easily routed through straight or offset existing masonry chimneys. Extreme Weather and Decorative Terminations are available for any installation.

# Z-FLEX® Chimney Liner Systems

## Co-Linear *FLEXIBLE DIRECT VENT* System

### Z-Flex Direct Vent Systems

Part ID	Description	Exhaust size	Intake size
2DVI335D	DV Co-Linear 3/3 Decorative Kit X 35 Ft	3 in.	3 in.
2DVI335LP	DV Co-Linear 3/3 Low Profile Kit X 35 Ft	3 in.	3 in.
2DVI335X	DV Co-Linear 3/3 Extreme Weather Kit X 35 Ft	3 in.	3 in.
2DVI435D	DV Co-Linear 4/3 Decorative Kit X 35 Ft	4 in.	3 in.
2DVI435LP	DV Co-Linear 4/3 Low Profile Kit X 35 Ft	4 in.	3 in.
2DVI435X	DV Co-Linear 4/3 Extreme Weather Kit X 35 Ft	4 in.	3 in.

### Safety Issues

Since the federal government required modern heating equipment to achieve higher efficiencies in 1992, safely venting them has become more of a challenge. Today's more efficient equipment produces lower flue gas temperatures than pre-1992 equipment. The low temperature flue gas provides little natural draft in chimneys and is more likely to condense into an acidic, and corrosive, solution. The result can cause property damage, personal injury, or death. The natural laws of physics that control this phenomenon pertain to all gas and oil fired equipment. Our three major product lines; chimney liners, special gas vent (AL29-4C®\* stainless steel), and flexible vent connectors are all designed to prevent flue gas condensation or protect against its corrosive effects. Most of the products **Z-FLEX®** has developed are now recommended or required by the following national codes and testing agencies:

#### **1992 National Fuel Gas Code**

Venting Tables for sizing Chimney Liners and Vent Connectors when adding or replacing equipment. Insulated Connectors required in attics and other "cold" spaces.

#### **1997 NFPA 31**

"Installation of Oil Burning Equipment" Venting Tables for sizing Chimney Liners.

#### **International Approval Services (Formerly AGA)**

June, 1996 – IAS requires all Category III gas boilers and furnaces to use a UL 1738 approved vent system (as **Z-VENT®**). July, 1998 – IAS requires all Category III gas residential unit heaters to use a UL 1738 approved vent system (as **Z-VENT®**).