



Advanced Venting Systems

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Z-VENT® Special Gas Vent

CATEGORY II, III, IV HEATING EQUIPMENT

Z-VENT® is designed for use with boilers, high efficiency furnaces, pool heaters, unit heaters and water heaters.

The latest developments in high efficiency heating equipment calls for state-of-the-art venting designs. Z-VENT® is specifically designed for today's ANSI category II, III, IV condensing and non-condensing, positive and negative pressure appliances. cULus tested and listed to standards UL1738/ULCS636, Z-VENT® is manufactured in a full range of residential and commercial sizes from 3" – 24", single and double wall.

A full range of engineering services is available to design systems. Z-VENT® is manufactured using AL29-4C®* advanced ferritic stainless steel with unmatched corrosion resistance for use with condensing furnaces and boilers. Z-VENT® is manufactured utilizing a fail-safe self sealing gasket connection. No sealant is required.

Visit our website for more information
www.z-flex.com info center.



Powerful New ZQuote™ Quoting Tool

Z-Vent® System Quotes in Minutes

- Accurate speedy layouts and BOM's
- CALL NOW



Contractors Choice Self Sealing Gasket System

Z-VENT® AL29-4C® special gas vent for use with boilers, water heaters high efficiency furnaces, pool and unit heaters. With its patented, double fail-safe self-sealing gasket system, it's proven to be both the easiest to install and the most reliable venting system in the industry.

- Patented double fail safe self-sealing gasket system ensures system is air and water tight.
- cULus tested and listed to cULus 1738 for Category II,III,IV appliances



Z-VENT® Concentric Vent System™

Z-VENT® Concentric Vent System is engineered for maximum performance, safety and ease of installation on high efficiency Tankless Water Heaters, Hydronic Boilers and Space Heaters.

- Patented Double Fail Safe sealing system ensures safe exhaust of flue gases.
- Patented design allows for ease of installation and professional results.
- Single penetration for exhaust and air intake with reduced clearance.
- Designs for Horizontal and Vertical applications.
- Multiple size combinations available.

(visit www.z-flex.com for more details)

Highly Customizable

10 ft. Pipe lengths available (3 inch and 4 inch diameter)

- Pipe can be cut to length in the field
- 1" clearance to combustibles

Appliance connectors available for most equipment. Please refer to price guide. See website for list of equipment – www.z-flex.com



Flexible Gas-Vent Connector Systems

GAS APPLICATIONS

Insul-Vent® Double-Wall Insulated Vent Connectors

Insul-Vent® is a double-wall insulated vent connector. Insul-Vent® is designed to make insulated connections between appliance and common vent (i.e. B-Vent, masonry chimney, or Z-FLEX® chimney liner products), easy and economical. Simply cut to desired length and attach quick-connect ends. No drilling or screwing is required. Plus it eliminates costly elbows and accessories.



Double Wall Insulated Vent Connector Kit Includes:

- Length of Double Wall Flex
- Appliance Connector
- Universal Connector

Part No.: 2SVKXXX

Dia.: _____ | Lgth.: _____

Dia.: 3", 4", 5", 6", 7", 8"

Lengths: Up to 18'

Parts available separately.

Single-Vent Single-Wall Vent Connectors

Single-Vent is a single wall flexible vent connector. Single-Vent, like Insul-Vent®, is designed to make difficult installations easy and economical. It replaces rigid single wall pipe as a vent connector. Both products, like all our other flexible products, are manufactured with our patented Triple-Lock™ seam. Insul-Vent® and Single-Vent are cULus listed and offer 1" clearance to combustibles.



Single Wall Vent Connector Kit Includes:

- Length of Single Wall Flex
- Appliance Connector
- Universal Connector

Part No.: 2SVKXXX

Dia.: _____ | Lgth.: _____

Dia.: 3", 4", 5", 6", 7", 8"

Lengths: Up to 18'

Parts available separately.



Benefits:

- Cut to length on site
- No drilling or screwing required
- Installs in half the time
- Eliminates costly elbows and accessories
- 1" clearance to combustibles

- **New** Insul-Vent® lateral "Y" installation easier than ever
- Insul-Vent® flex ready
- Universally adapts to any B-Vent

Insul-Vent® and Single-Vent are listed with Underwriters Laboratories – File MH 17194.

Oil Insul-Vent® and Oil Single-Vent are listed with Underwriters Laboratories – File MH 17194.

Flexible Oil-Vent Connector Systems

OIL APPLICATIONS

Oil-Vent Double-Wall Insulated Vent Connectors

Oil-Vent double-wall insulated vent connector is designed to make insulated connections between appliance and common vent (i.e. L-Vent, masonry chimney, or Z-FLEX® chimney liner products), easy and economical. Simply cut to desired length and attach quick-connect ends. No drilling or screwing is required. Plus it eliminates costly elbows and accessories. Equivalent to Type L-Vent.



Oil-Vent Double Wall Insulated Vent Connector Kit Includes:

- Length of Double Wall Flex
- Appliance Connector
- Universal Connector

Part No.: 20VIKIT

Dia.: _____ | Lgth.: _____

Dia.: 3", 4", 5", 6", 7", 8"

Lengths: Up to 18'

Parts available separately.

Oil-Vent Single-Wall Vent Connectors

Oil-Vent single wall flexible vent connector is designed to make difficult installations easy and economical. It replaces rigid single pipe as a vent connector. Both products, like all our other flexible products, are manufactured with our patented triple lock seam. Double-Wall and Single-Wall Oil-Vent are UL listed and offer 1" clearance to combustibles.



Oil-Vent Single Wall Vent Connector Kit Includes:

- Length of Single Wall Flex
- Appliance Connector
- Universal Connector

Part No.: 20VSKIT

Dia.: _____ | Lgth.: _____

Diameters: 3", 4", 5", 6", 7", 8"

Lengths: Up to 18'

Parts available separately.

Aluminium Chimney Gas Liner Kits

GAS APPLICATIONS

When to Z-FLEX® a Chimney (from National Gas Code)

- When a masonry chimney has no liner at all
- When damage to existing chimney lining is evident
- When retrofit appliance has fan-assisted combustion and is vented alone
- When additional or replacement equipment is installed or an appliance is converted to gas from another fuel
- When the existing chimney is oversized relative to heating requirement

Z-FLEX Insul-liner™

Pre-insulated Chimney Liner for Category 1 Gas Heating Equipment & Gas Fireplaces

Insul-Liner™ is another “simple solution” from Z-FLEX®. The National Fuel Gas Code (NFPA 54, ANSI Z223.1) recommends that liners be insulated in certain situations.

A good rule of thumb is to use an insulated liner in exterior chimneys or when a brick chimney has no clay liner at all. The insulation will keep the flue gases warm to prevent condensation. Also refer to the equipment manufacturer's instructions for their recommendations.

Insul-Liner™ replaces B-Vent when relining a masonry chimney.

Insul-Liner™ is insulated at the factory and protected with an outer aluminum jacket. This eliminates the time needed to insulate on the jobsite and prevents damage to the insulation during installation. Simply remove from the box and install.



Insul-Liner™ Kit Includes:

- Insulated Aluminum Liner
- Chimney Flashing
- Rain Cap
- Mortar Collar
- 3 Screws

Part No.: 2GIAKXX

Dia.: _____ | Lgth.: _____

Dia.: 3", 4", 5", 6", 7", 8"

Lengths: 15'



Insul-Liner™ Gas Fireplace Kit Includes:

- Insulated Aluminum Liner
- Chimney Flashing
- Rain Cap
- Fireplace Connector
- 3 Screws

Part No.: 2GIAFKX

Dia.: _____ | Lgth.: _____

Dia.: 4", 5", 6"

Lengths: 15'

Flashing

- 16"x 16" Plate
- Galvanized Material
- Strong

BIRD PROOF RAINCAP

Rain Cap

- Wind-proof
- Bird Resistant
- Attractive
- Prevents Entrance of Moisture/Debris

Flexible Aluminium Liner

Special Characteristics

- Patented Triple-Lock™ Mechanical Joint
- Manufactured from Dead Soft Pure Aluminum

Significant Advantages

- Greater Flexibility
- Exceptional Strength
- Corrosion Resistant
- Air-tight and Leakproof
- Vibration Deadening Properties
- Light Weight
- Highly Puncture Resistant
- High Pressure Rating



Z-FLEX® chimney liners are listed with Underwriters Laboratories, File MH 13681

Mortar Collar

- Simple to Install
- Clean Look
- Corrosion-resistant Material

Z-FLEX® Liner Kits and Connectors



- Z-FLEX® Aluminum Chimney Liner Kits come complete with everything you need to quickly and easily install a professional venting system.
- Z-FLEX® liner is manufactured by using a dead soft aluminum strip which is spirally wound and mechanically joined together forming an air-tight and leakproof Triple-Lock™ seam.
- Z-FLEX®'s specially designed 'deep corrugations' provide for greater flexibility and ease of installation. The result is a clearly superior product offering incredible longevity.



Aluminum Liner Kit Includes:

- 2-Ply Aluminum Liner
- Chimney Flashing
- Rain Cap
- Mortar Collar
- 3 Screws

Part No.: 2GACKIT

Dia.: _____ | Lgth.: _____

Dia.: 3", 4", 5", 6", 7", 8", 10"

Lengths: 15' - 50'

Gas Fireplace Kit Includes:

- 2-Ply Aluminum Liner
- Chimney Flashing
- Rain Cap
- Fireplace Adapter (Single Appliance)
- 3 Screws

Part No.: 2GAFKXX

Dia.: _____ | Lgth.: _____

Dia.: 3", 4", 5", 6", 7", 8", 10"

Lengths: 15' - 50'

Fireplace Connector

Gas Fireplace Kits only.

Part No.: 2ZSCPRP

Dia.: _____

Nose Cone

Part No.: 2NCXXX

Dia.: _____

Dia.: 3", 4", 5", 6", 7", 8", 10"

Galvanized "Y"

Part No.: 2GAYXXX

Dia.: _____ | Lgth.: _____

Dia.: 3", 4", 5", 6", 7", 8"

Connects two vent connectors to common vent.

Liner Coupling

Part No.: 2CNNTRG

Dia.: _____

Dia.: 3", 4", 5", 6", 7", 8", 10"

Custom sizes available.

Used to attach two lengths of vent.

Universal B-Vent Connector

Part No.: 2CNNBFC

Dia.: _____

Dia.: 3", 4", 5", 6", 7", 8", 10"

Connects any B-Vent to Z-FLEX® liner.

Additional Length Aluminum 2-Ply Liner

Part No.: 2GAXXX

Dia.: _____ | Lgth.: _____

Available in multiples of 5' to 50'.

Stainless Steel Oil + Solid Fuel Liner Kits ALL FUEL APPLICATIONS

Z-FLEX® Stainless Chimney Kits Everything you need to get the job done right.

Z-FLEX® Stainless Steel Chimney Liner Kits come complete with everything you need to quickly and easily install a professional venting system.

It is manufactured from special high temperature and acid resistant stainless steel exclusive to Z-FLEX®.

Z-FLEX®'s specially designed 'deep corrugations' provide for greater flexibility and ease of installation. The result is a clearly superior product offering incredible longevity.



Pellet, Oil & Gas Kit Includes:

- Stainless Steel Liner
- Chimney Flashing
- Rain Cap
- Mortar Collar

Part No.: 20ILKTX_1
Dia.: _____ | Lgth.: _____
Dia.: 3" - 24" | Lengths: 50'



All Fuel Insert Kit Includes:

- Stainless Steel Liner
- Chimney Flashing
- Rain Cap

Part No.: 20ILKTX
Dia.: _____ | Lgth.: _____
Dia.: 3" - 24" | Lengths: 50'



All Fuel Kit Includes:

- Stainless Steel Liner
- Chimney Flashing
- Rain Cap

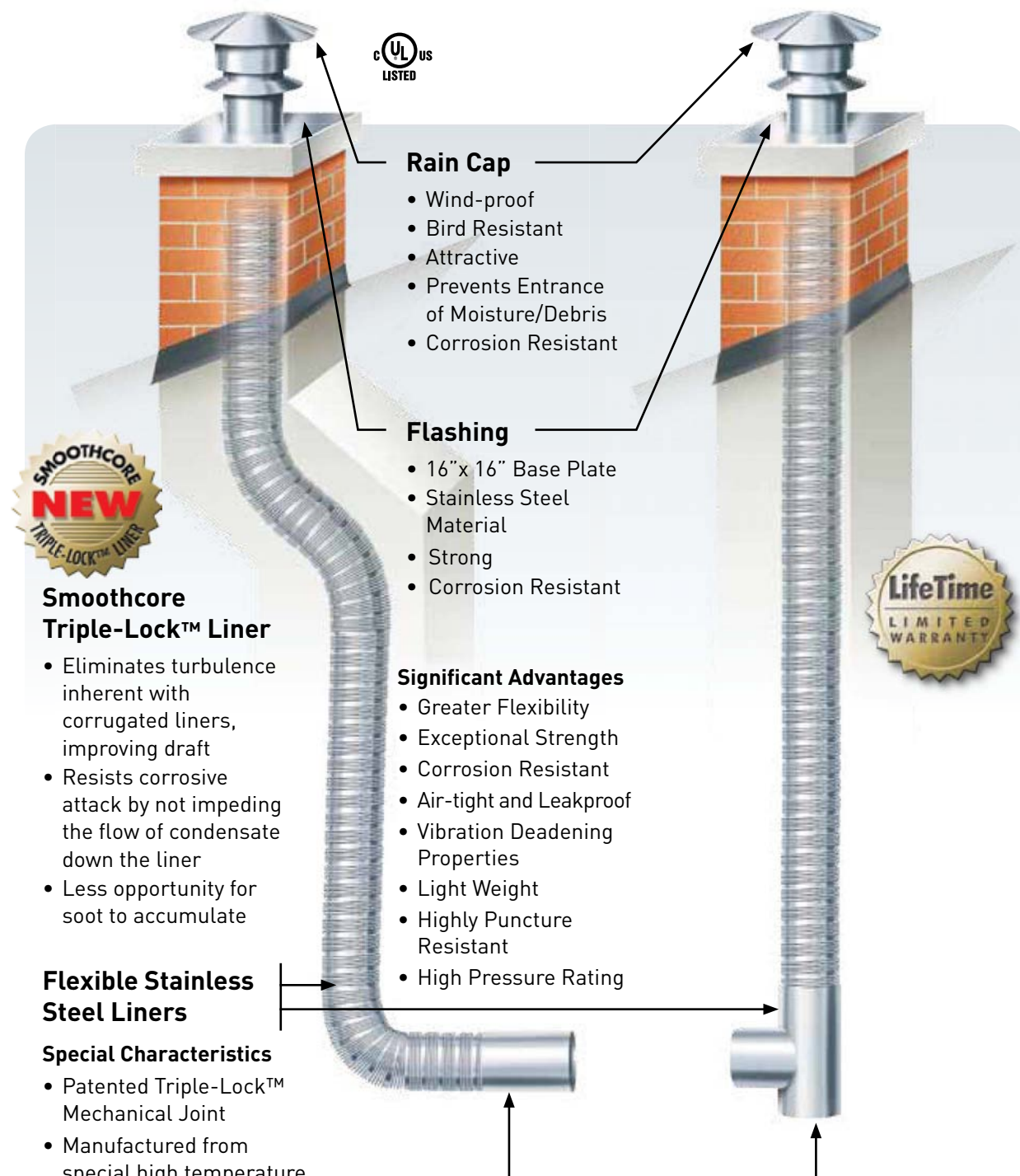
Part No.: 22FLKIT
Dia.: _____ | Lgth.: _____
Dia.: 3" - 24" | Lengths: 50'



Smoothcore Kit Includes:

- Stainless Steel Liner
- Chimney Flashing
- Rain Cap

Part No.: 22FCKIT
Dia.: _____ | Lgth.: _____
Dia.: 3" - 8" | Lengths: 50'



Rain Cap

- Wind-proof
- Bird Resistant
- Attractive
- Prevents Entrance of Moisture/Debris
- Corrosion Resistant

Flashing

- 16"x 16" Base Plate
- Stainless Steel Material
- Strong
- Corrosion Resistant



Smoothcore Triple-Lock™ Liner

- Eliminates turbulence inherent with corrugated liners, improving draft
- Resists corrosive attack by not impeding the flow of condensate down the liner
- Less opportunity for soot to accumulate

Significant Advantages

- Greater Flexibility
- Exceptional Strength
- Corrosion Resistant
- Air-tight and Leakproof
- Vibration Deadening Properties
- Light Weight
- Highly Puncture Resistant
- High Pressure Rating



Flexible Stainless Steel Liners

Special Characteristics

- Patented Triple-Lock™ Mechanical Joint
- Manufactured from special high temperature and acid-resistant stainless steel exclusive to Z-FLEX®

Mortar Collar

- Convenient
- Clean Look
- Corrosion Resistant Material
- Easy to Install

Flex Ready Lock N'Go Tee (Cleanout)

- 3pc. with removeable snout and clean out
- All stainless steel
- Fail-safe mechanical connection from snout to body

For Use with Natural Draft Appliances.

Not intended for use with Category II, III, or IV gas burning appliances as defined by the National Fuel Gas Code, NFPA 54, or other appliances that result in condensation or corrosive acids on the liner of the chimney, or that create positive pressures in the chimney system.

When to Z-FLEX® a Chimney

- When a masonry chimney has no liner at all
- When damage to existing chimney lining is evident
- When new burner is installed on existing equipment
- When firing rate of existing burner is reduced
- When a new appliance is connected to an existing chimney
- When the existing chimney is oversized relative to heating equipment

Stainless Steel Flex Liner

Part No.: 2ZLSSXX

Dia.: _____ | Lgth.: _____

Part No.: 2ZL294C

Dia.: _____ | Lgth.: _____

Dia.: 2" - 24"

Lengths : Up to 50' or multiples of 5'.

Top Support

Part No.: 2ZTSXXX

Dia.: _____

Dia.: 3" - 24"

Rain Cap

Part No.: 2RNCAPS

Dia.: _____

Dia.: 3" - 24"

Stainless Steel Chimney Flashing

Starter Collar 16" x 16" Base

Part No.: 2ZSCSXX

Dia.: _____

Dia.: 3" - 24"



Lock N'Go Tee

Part No.: 2ZFTXX

Dia.: _____

Dia.: 3" - 24"

Z-FLEX® Tee supplied. Flex Ready Rigid Tee also available.

Dripless Type "A" Connector

Part No.: 2CNCNTRC

Dia.: _____

Dia.: 3" - 24"

Used to mate Z-FLEX® Liner to stove-pipe or when going through a fireplace insert.



Nose Cone

Part No.: 2NCSXXX

Dia.: _____

Dia.: 3" - 24"

To attach to liner, attach rope to cone and pull rope down chimney.



Reducer/Inceaser

Reducer Part No.: 2RD

(Dia)R: _____ (Dia)X: _____

Inceaser Part No.: 2IN

(Dia)R: _____ (Dia)X: _____

Dia.: 3" - 24"



Insulating Blanket w/ Wrap & Gear Clamps

Part No.: 2INSKIT

Dia.: _____

Includes 2 gear clamps per 5' section.

Stainless Steel Components

ALL FUEL APPLICATIONS

Continued from Page 8

Stainless Steel Rigid Liner

Part No.: 2ZR321F

Dia.: _____

Lgth.: _____

Dia.: 3" - 24"

4-Piece 90° Elbow

Part No.: 2RE90XX

Dia.: _____

Dia.: 3" - 24"

3-Piece 45° Elbow

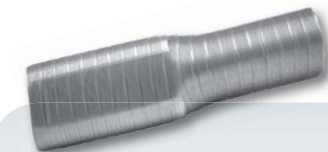
Part No.: 2RE45XX

Dia.: _____ | Lgth.: _____

Dia.: 3" - 24"

Oval Liner System

ALL FUEL APPLICATIONS



Flexible S/S Oval to Round

Part No.: 2ZLSSOR

Dia.: _____ | Lgth.: _____

Dia.: 6", 7", 8", 10"

Note: To be used in those areas that are re-sealable in one application. Oval accessories available.



Stainless Steel Dripless Type "A" Oval Connector

Part No.: 2CNNTRA

OV: _____ | Dia.: _____

Dia.: 6", 7", 8", 10"

Used to join Z-FLEX® Oval Liner to Oval T-Section and Oval to Oval Liner or when going through a fireplace adapter.



Stainless Steel Single Oval Base/Tee

Part No.: 2ZRBTOX

Dia.: _____

Dia.: 6", 7", 8", 10"



Flexible S/S Full Oval

Starter Collar 16" x 16" Base

Part No.: 2ZLSSOX

Dia.: _____ | Lgth.: _____

Dia.: 6", 7", 8", 10"

Note: Oval accessories available.

Oval to Round Adapter

Part No.: 2ZRORAX

Dia.: _____

Dia.: 6", 7", 8", 10"

Round to Oval Adapter

Part No.: 2ZRROAX

Dia.: _____

Dia.: 6", 7", 8", 10"

Liner Finders



The easy to apply solution.

Apply the right liner every time with Liner Finder from Z-FLEX®.

Our Gas and Oil Liner Finders make it fast and easy to match the right Z-FLEX® product and size to the liner application. The convenient "slide rule" design is simple to use, portable, and foolproof.

Advanced products for maximum performance.

- Patented Triple-Lock™ design for strength .
- Right sized packaging to lower shipping costs.
- Best available materials/alloys.
- 30+ years of manufacturing experience.
- "Immediate" availability (24-72 hr. lead time).
- Listed by Underwriters Laboratories.

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.

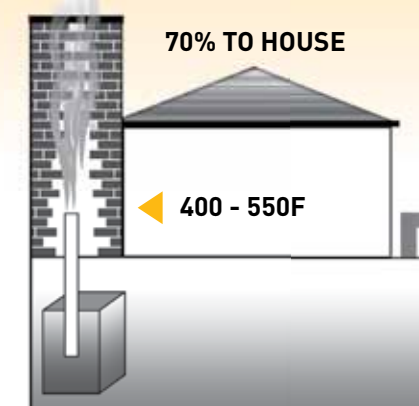
International Approval Services (formerly AGA)

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

HEAT DISTRIBUTION

28% UP CHIMNEY

70% TO HOUSE

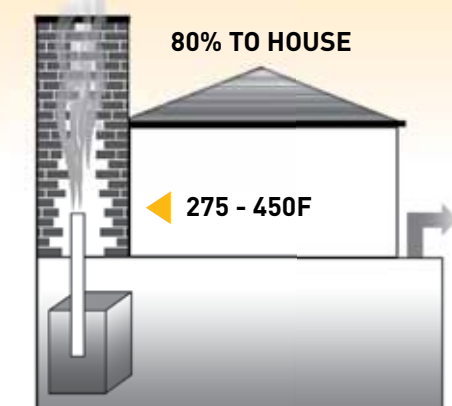


LOWER EFFICIENCY (Before 1992)

18% UP CHIMNEY

Higher Efficiency Produces Lower Stack Temperatures

80% TO HOUSE



HIGHER EFFICIENCY (After 1992)



Z-FLEX®

The Flexible Venting Solutions Specialist.

Z-Flex®, part of the Novaflex Group® of companies, is the leading manufacturer of specialty venting systems for furnaces, boilers, water heaters, oil heaters, fireplaces, and more.

Z-FLEX® has been providing flexible answers to gas, oil, pellet and wood venting applications since 1979.

We have pioneered flexible chimney liner solutions and special gas vent (AL29-4C®).*

A variety of innovations in materials and construction have led to products that deliver:

- Superior performance and increased efficiency
- Easier handling and faster, simpler installation
- Greater reliability, safety and increased service life

To that we add responsive customer service along with expert technical support.

The Novaflex Group® is a family owned manufacturing group of companies with one of the broadest product ranges available in the marketplace for the HVAC, industrial venting and hose industries. Throughout a more than thirty year history, Novaflex® has earned a solid reputation for providing innovative and high quality products.

*AL29-4C is a registered trademark of Allegheny Ludlum Corp.



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