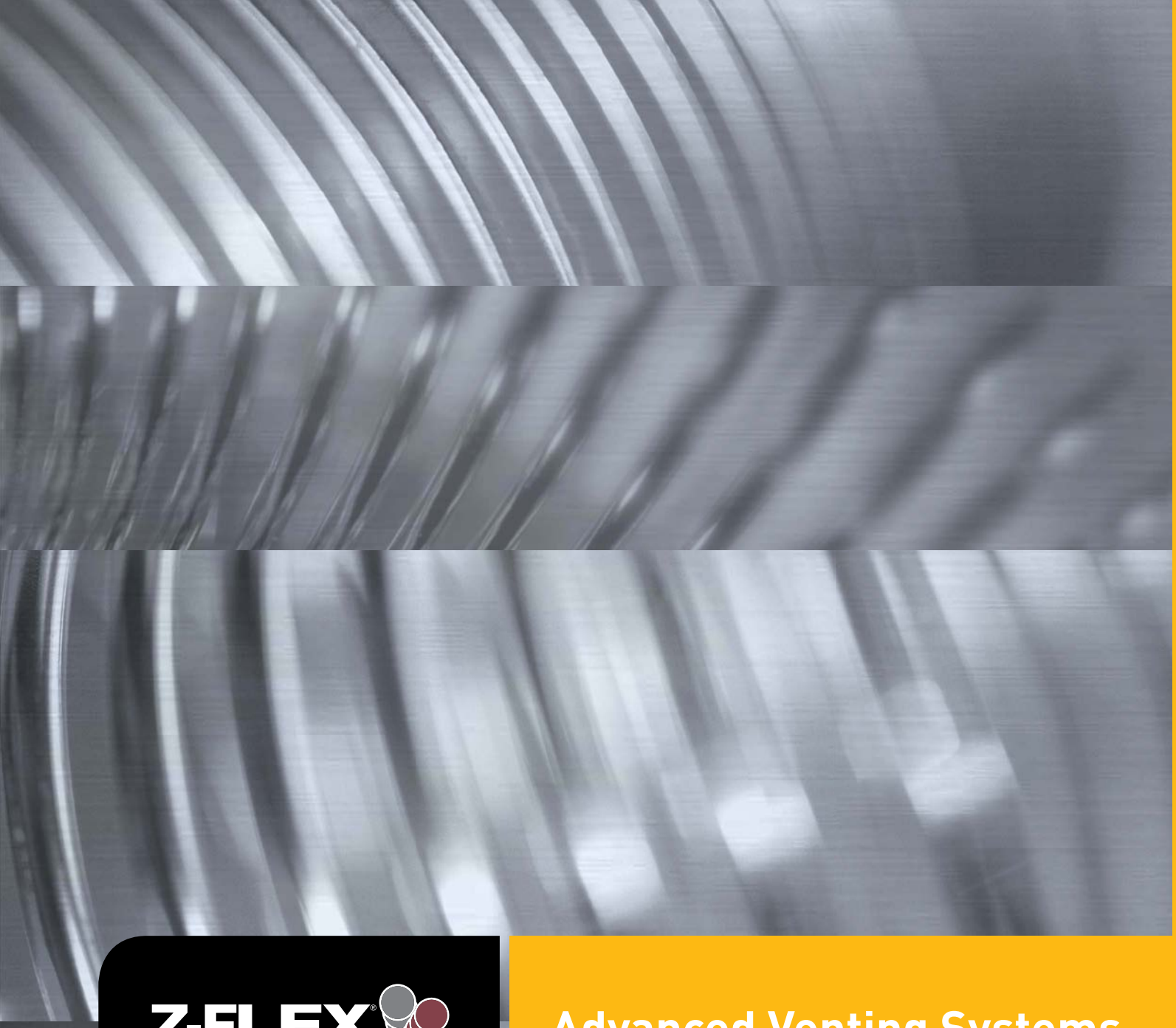


Z-FLEX®
CHIMNEY & VENTING SOLUTIONS

Advanced Venting Systems

1 | Z-Vent® Special Gas Vent
3 | Flexible Vent Connector Systems
5 | Aluminium Chimney Liner System
7 | Stainless Steel Chimney Liner System
9 | Oval Liner System / Advancing the Industry

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 develpoments 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.

c UL us LISTED

Powerful New ZQuote™ Quoting Tool

Z-Vent® System Quotes in Minutes

- Accurate speedy layouts and BOM's
- CALL NOW

PROFESSIONAL'S CHOICE

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

15 YEAR LIMITED WARRANTY

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.: _____

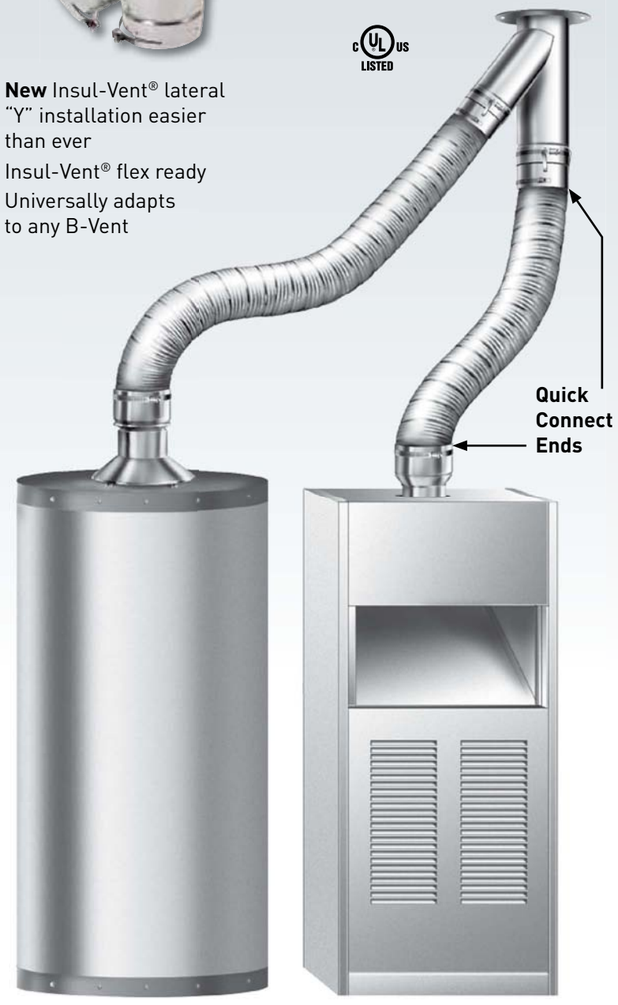
Dia.: 3", 4", 5", 6", 7", 8"
Lengths: Up to 18'

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.: 2OVIKIT

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.: 2OVSKITDia.:

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'

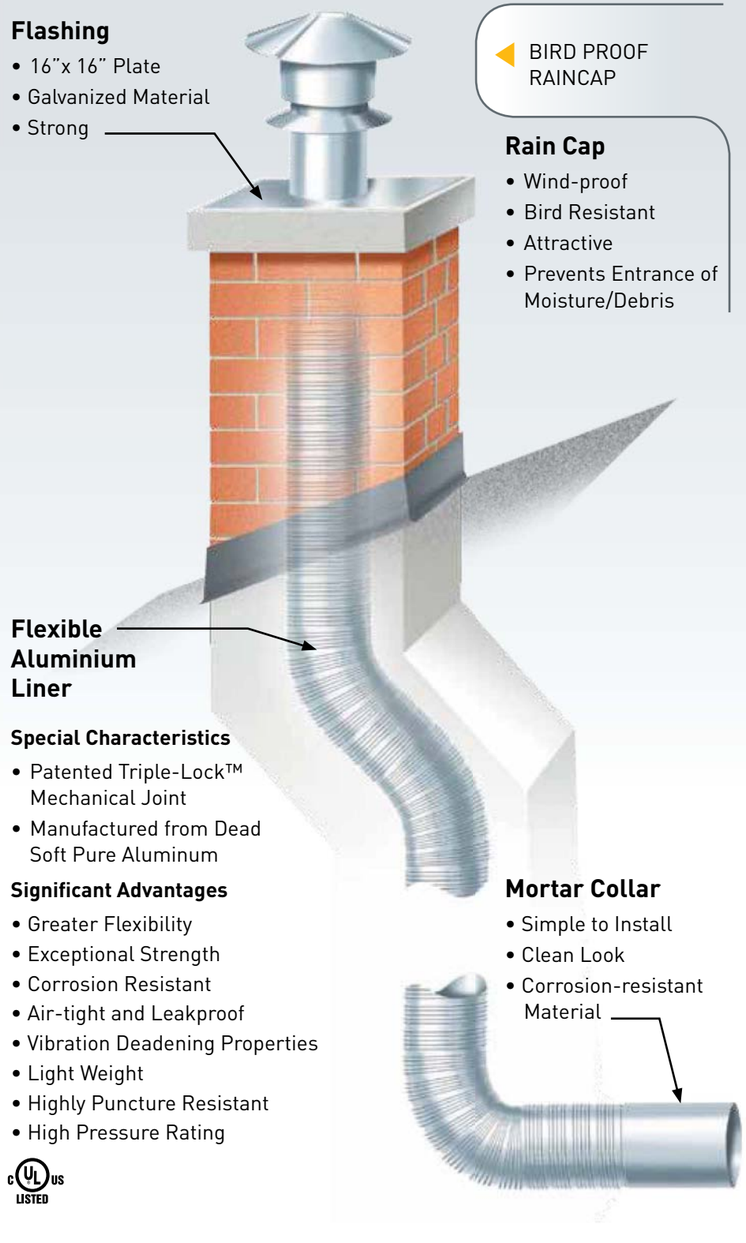
Insul-Liner™ Gas Fireplace Kit Includes:

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

Part No.: 2GIAFKX

Dia.: _____ | Lgth.: _____

Dia.: 4", 5", 6"
Lengths: 15'



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

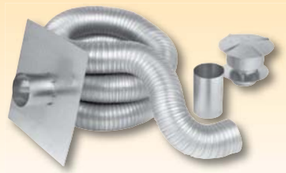
c UL us LISTED

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

Z-FLEX® Liner Kits and Connectors

25 YEAR LIMITED WARRANTY

- 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.: 2NCXXXX

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.: 2GAXXXX

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 Kit Includes:
- Stainless Steel Liner
- Chimney Flashing
- Rain Cap

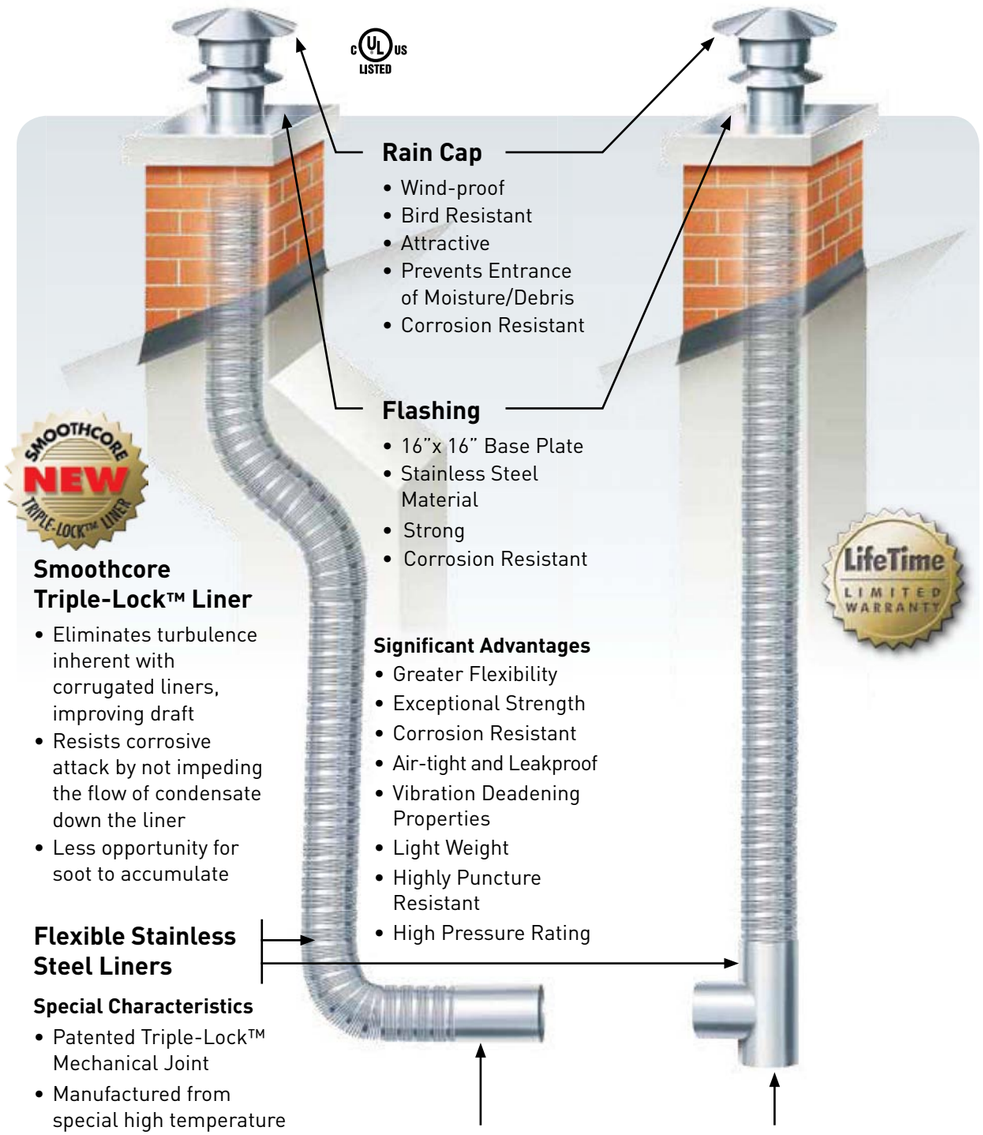
Part No.: 2ZFLKIT
Dia.: _____ | Lgth.: _____
Dia.: 3"-24" | Lengths: 50'

All Fuel Insert Kit Includes:
- Stainless Steel Liner
- Chimney Flashing
- Rain Cap

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

Smoothcore Kit Includes:
- Stainless Steel Liner
- Chimney Flashing
- Rain Cap

Part No.: 2ZFSCKIT
Dia.: _____ | Lgth.: _____
Dia.: 3"-8" | Lengths: 50'

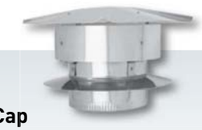


For Use with Natural Draft Appliances.
Not intended for use with Category II, III, or IV gas burning appliances as defined by the National Fuel Gas Code, NFPA 54, or other appliances that result in condensation or corrosive acids on the liner of the chimney, or that create positive pressures in the chimney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



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"

Top Support
Part No.: 2ZTSXXX
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.: 2CNNTRC
Dia.: _____
Dia.: 3" – 24"
Used to mate Z-FLEX® Liner to stove-pipe or when going through a fireplace insert.

Nose Cone
Part No.: 2NCXXXX
Dia.: _____
Dia.: 3" – 24"
To attach to liner, attach rope to cone and pull rope down chimney.

Reducer/Increaser
Reducer Part No.: 2RD
(Dia)R: _____ (Dia)X: _____
Increaser 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

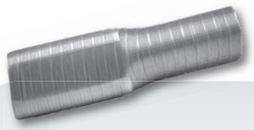
Stainless Steel Rigid Liner
Part No.: 2ZR321F
Dia.: _____
Lgth.: _____
Dia.: 3" – 24"

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.

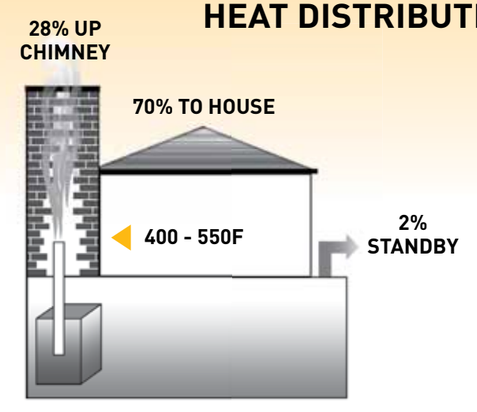
1997 NFPA 31
"Installation of Oil Burning Equipment"

- Venting Tables for sizing Chimney Liners.

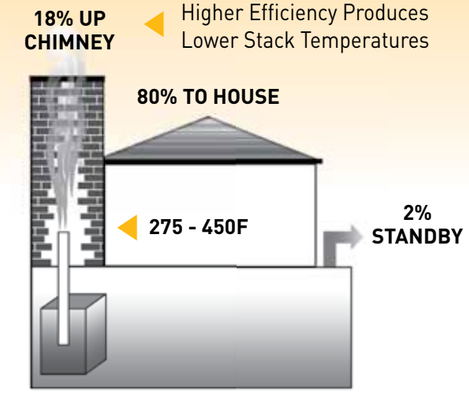
International Approval Services (formerly AGA)

- 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



LOWER EFFICIENCY (Before 1992)



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.

THE NOVAFLEX GROUP®

Z-FLEX® CHIMNEY & VENTING SOLUTIONS

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