The PelletVent Pro Biofuel Venting System

Designed for biofuels with a corrosion resistant super-ferritic inner.

Features and Benefits:
- 1" clearance to combustibles
- Available in a black painted finish
- Limited lifetime warranty
- Pipe lengths from 6" to 60"
- Pipe extensions in 12" & 18"
- Laser-welded seams on inner and outer walls
- Super-ferritic inner wall resists corrosion from biofuels
- Galvalume outer wall
- Primary metal-to-metal connection seals the joint
- Encapsulated o-ring provides a secondary seal
- Positive connect twist-lock...no fasteners required

Corn and other biofuels have higher water content than wood pellets. When water combines in the flue with elements in corn, such as sulfur, nitrogen, and phosphorus, the condensation is highly acidic. These acids cause common pellet chimney vent liners made of 430, 304 and 316 stainless steels, to corrode.

Joint research with OMNI Environmental Services scientifically proved DuraVent's super-ferritic stainless steel is resistant to corrosion caused by corn flue gases. It is the only safe choice for venting corn and other biofuel appliances.

4L29-4C, while resistant to corrosion, is not recommended for temperatures at or above 600°F. Chimney fires exceeding 600°F can occur in pellet chimneys as the result of unburned fuel residue collecting in the chimney. At these temperatures, 4L29-4C can become brittle, while DuraVent's super-ferritic stainless steel is stable and exceeds 4L29-4C performance for venting corn and other biofuels.

PelletVent Pro for biofuels (patent pending) features a metal-to-metal seal as the primary protection against leakage. A high temperature silicone o-ring, completely encapsulated between the inner and outer wall, provides a secondary seal.

Silicone seals fail at temperatures exceeding 600°F. Other manufacturers employ only a silicone gasket in the female end of the connection as their only leakage protection. When these devitrify or fail, there is no leakage protection, allowing combustion gases to enter the home.

In the event of a pellet chimney fire, DuraVent's primary metal-to-metal seal provides continuous leakage protection. Additionally, the encapsulated o-ring, although devitrified, stays in place and continues to function as a seal.
**Super Ferritic Metal Inner liner**

**Patented Pending**

Pipes are the most corrosion resistant. By far the best performing metal when burning bio fuels.

- All 20-4C good corrosion resistance but becomes brittle when flu temperatures exceed 600 degrees F. Very expensive metal to use and availability is suspect. Do not use metal and see literature.

- Security has two types of liner. One for wood pellets and one for wood stoves. 304 Stainless Steel and a Core Line using 304 Stainless Steel. Both metals have been proven to corrode when exposed to biofuel exhausts.

- 304 Stainless Steel does not hold up to corrosion when burning biofuels.

- AL29-4C good corrosion resistance, but becomes brittle when flu temperatures exceed 600 degrees F. Very expensive metal to use and availability is suspect.

**ICC**

- 430 Stainless Steel. By far the worst performing metal when exposed to the corrosive compounds generated by biofuels. MetalFab also uses galvanized steel which is highly susceptible to corrosion caused by biofuel gas compounds.

- 410 Stainless Steel. By far the worst performing metal when exposed to the corrosive compounds generated by biofuels. MetalFab also uses galvanized steel which is highly susceptible to corrosion caused by biofuel gas compounds.

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**China Outer**

More corrosion resistant than galvanized steel. Approved in both the US and Canada.

**Galvalume Outer**

- Galvalume Outer.

- 5' pipe available.

- Welded Seams.

- Branches of tees and bases of elbows swivel Galvalume Outer.

- Makes for a rounder pipe to allow a stronger seal at the joint to prevent smoke leakage. Allows for extra steps through holes in wall thimbles and fire stops, creating less access to the house.

- Galvalume Outer.

- No hemmed ends.

- 3" to 4" adaptor tee available.

- Ceiling Firestop Support.

- Allows combustion air for the appliance to come through the same hole cut into the wall. The less penetration to the outside. Aluminum flex connects to any appliance inlet location left, middle, right.

- Laser Welded Seams.

- Laser Welded. Welded Seams.

- Lock seam which tends to allow the pipe creating a greater potential for leakage.

- Lock scored which tends to allow the pipe creating a greater potential for leakage.

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**Twist Lock Connection**

- Easy installation with no mechanical fasteners required.

- Connective locking with locking tab. Locking tab creates outer wall penetration allowing in outside cool air between inner and outer wall causing faster condensation of the flue gases.

- Twist Lock Connection.

- 3 sheet metal covers taped to inner of pipe in box. Easy to line and takes longer installation time.

- Compact end pieces secured with screws. Requires additional installation time. Ends can be install in transit.

- Twist Lock connection with "Snap-fit" hub. Tub connects opening into outer and inner walls allowing outside cool air to circulate inside the pipe. Can cause flue gases to condense and cause corrosion.

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**1" Clearance to combustibles in US and Canada**

- Tested and listed for the closest clearances obtainable.

- 3" Clearance to combustibles requires more space for the installation.

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- 50% of lifetime there after.

- Only offers 100% replacement up to 5 years and then 100% replacement there after.

- None found.

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**Swivel Ties and Elbows**

- Branches of tees and bases of elbows allow fitting to properly be closed up after being connected to pipe sections. Saves time and money.

- None available. Requires particular attention to lining up sections for a proper installation costing time and money.

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**Attic Insulation Shield**

- Gave installation the required protection from attic insulation coming in contact with the vent pipe.

- None available. Solder supports that vent pipe be enclosed in a attic chase which will require more installation time and money.

- None available. Security Installation instructions say to use an attic insulation shield but they do not supply wire on their part list.

- Ceiling Support Radiation Shield

- Ceiling Insulation Support.

- None available. MetalFab's installation instructions are not up to date and not up to code. Code requires shooing around when passing through the floor of an attic to prevent insulation from coming in to contact with the pipe. They do not meet code.

- None available.

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**Adjustable Wall Stop and Wall Stop Extension**

- Provides a 1/4" to 1" adjustability on wall stops to create proper clearances and to adjust for varying surface dimensions like sills.

- None available. Wall bracket is fixed at 3" clearance dimension.

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- 3" to 5" clearance.

- Some adjustment but fixed at minimum 3" clearance.

- Wall bracket is fixed at 3". Adjustment kit is available to extend the bracket to 5".

- None available. Wall bracket is fixed at 3" clearance dimension.

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**Inconcer Adapter**

- Allows installation to increase from 3" appliance adapter 4" pipe directly from the adapter without additional parts.

- None available. Requires installation to use an additional section connector as added to the pipe to go from 3" to 4".

- Appliance Adapter Increaser.

- Tapered Stone Adapter.

- None available. 3" to 4" pipe increaser must be added to the adapter to increase pipe diameter to 4". Takes up 5 more inches of space behind the appliance.

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- None available. Requires more space between appliance and wall for the adapter and tee on an interior vertical installation like a basement.

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- 6" Pipe is available.

- 7" Pipe is available.

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**Super Ferritic 5" Flex Section**

- Connects pellet insert to rigid pipe after passing through existing smoke shelf. Super Ferritic metal gives the 316L stainless protection from corrosion caused by condensate.

- None available. Requires installer to knock out smoke shelf to connect rigid pipe to the appliance.

- None available. Requires installer to use flex adapter and source another manufacturers flex line. Adds time and money to the installation.

- None available. Requires post installation painted for interior installations.

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**Block Pipe**

- High temperature painted pipe and components are available for artificially placing interior installations.

- Black parts available. Black parts available.

- No black pipe, tees, elbows or adaptors available.

- Black parts available.

- Black parts available.

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**No Hemmed ends**

- Creates a stronger pipe. No tighter connections.

- Hemmed end creates bulke noticeable joints on interior installations.

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**Sustained Lifetime Warranty (Best warranty in the industry)**

- 100% replacement of product for the first 15 years of usage and 50% replacement thereafter.

- 1-10 years 100% replacement. 11-15 years 75% replacement 16-40 replacement.

- 10 year replacement warranty. No replacement coverage after 10 years.

- Only offers 100% replacement up to 5 years and 50% of lifetime there after.

- Replacement parts will be covered 100% for the first 10 years. 50% coverage for the remaining limited lifetime.

- None found.