

# NovaVent®



Designed for Quick Installation

Environmentally Safe Alternative to PVC Venting

Tested and Listed to UL1738 & ULC S636 for

Category I, II, III, IV Appliances



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## Single-Wall Category I, II, III & IV UL 1738 & ULC S636 Listed Special Gas Vent System Product Submittal

### NovaVent® SW

Single-Wall venting system is tested and listed to UL 1738 & ULC S636 for use with listed natural gas or propane gas burning equipment with exiting flue gas not greater than 550°F (288°C).

### Applications

Manufactured by Z-Flex®; **NovaVent®** is a factory built, designed and engineered Special Gas Vent system suitable for venting Category I, II, III, or IV Gas Burning appliances and Direct Vent units.

### Common Uses

Gas fired Tankless Water Heaters, Unit Heaters and other gas-fired Category I, II, III, & IV equipment.

### Construction

**NovaVent®** flue is manufactured from a unique high corrosion resistant stainless steel alloy, NV1738, with properties suited for use with gas burning equipment which produce corrosive condensation in venting systems.

When compared to plastic and other resin based materials used for venting systems, NovaVent® displays considerably lower thermal expansion and contraction making it much more resistant to stress corrosion cracking.

### Thermal Expansion (inches/100 feet)

Temperature Change (°F)	PVC <sup>(1)</sup>	CPVC <sup>(1)</sup>	Stainless Steel
100	3.6	4.56	1.09
150	5.4	6.84	1.63

For temperature change: °F = 5/9 °C

<sup>(1)</sup> Note the relative huge thermal expansion of thermoplastic plastic materials as PVC and CPVC compared to steel.

**NovaVent®** also offers a higher temperature range than plastic venting, making it an ideal choice for battling the effects of a wide range of flue gases temperatures and the corrosive condensate produced.

### Stainless Steel



Stainless steel became the standard for venting more than hundred years ago. Today, advances in metal technologies such as NV1738 offer improved elevated

temperature strength and outstanding resistance to environmental attack; providing even better long term value in service life. Stainless Steel is a noncombustible material and unlike PVC bears no risk of chemical out-gassing. Stainless steel is a 100% recyclable material.

### Patented Sealing System

**NovaVent®** SW components are supplied with factory installed, patented (US patent 6-523-865), self-sealing Double Fail Safe™ gaskets. This gasket is designed to work with Z-Flex®'s precision engineered close tolerance manufacturing processes which ensure an airtight, watertight fit.

### Approval

**NovaVent® SW** is UL tested and listed to UL1738 & ULC S636 Venting Systems for Gas Burning Appliances Category I, II, III, and IV. File MH18505.

For more information go to: [www.z-flex.com](http://www.z-flex.com)

### Technical Specifications

<b>Product</b>	NovaVent® Special Gas Vent Systems
<b>Uses</b>	ANSI Category I, II, III, IV Gas Burning Appliances
<b>Diameters</b>	3, 4 & 5 inch
<b>Fuel</b>	Natural or Propane gas
<b>Pressure</b>	8 inches WC positive pressure
<b>Joining System</b>	Factory installed gaskets in all diameters
<b>Temperature Limits</b>	550°F (288°C) exiting continuous flue gas temperature

### Minimum Air Space Clearance to Combustible Materials and Building Insulation

Vent Diameter	Maximum Rated Vent Gas Temperature	Enclosed		Unenclosed	
		Horizontal	Vertical	Horizontal	Vertical
Up to 5"	550°F (288°C)	Non-Combustible Material	6" (150mm)	3" (75mm)	
	480°F (249°C)		8" (200mm)	4" (100mm)	1" (25mm)

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NovaVent® is manufactured by Z-Flex® US, a Novaflex Group Company

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