# NovaVent® White

## An Environmentally Safe Alternative to PVC Venting

**NovaVent® White** provides excellent resistance to elevated temperatures, minimal thermal expansion and outstanding protection from environmental attack.

**NovaVent® White** offers greater long term value in service life than PVC vent systems.

**NovaVent® White** is a noncombustible material and unlike PVC, bears no risk of chemical out-gasing.

**NovaVent® White** manufactured from stainless steel, is100% recyclable material.

### Common Uses

Gas fired Tankless Water Heaters and other gas-fired Category I, II, III, IV equipment. Tested and Listed to UL1738/S636 Category I, II,III, IV.

New!
Appliance White Finish
Durable Heat-Safe,
Uniform Look.
Esthetically
Pleasing

c UL us

Z-FLEX®
CHIMNEY & VENTING SOLUTIONS

# NovaVent® White

LifeTime LIMITED WARRANTY

PROFESSIONAL'S Z CHOICE

Z-FLEX® CHIMNEY & VENTING SOLUTIONS

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## Special Gas Vent System Product Submittal

### Single-Wall Category I, II, III & IV UL 1738 / S636

### NovaVent® White SW

Single-Wall venting system is tested and listed to UL 1738 / 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® White 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 and other gas-fired Category I, II, III, & IV equipment.

### Construction

**NovaVent® White** 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® White** displays considerably lower thermal expansion and contraction making it much more resistant to stress corrosion cracking.

**NovaVent® White** 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.

### Thermal Expansion (inches/100 feet)

| Temperature Change (°F) | PVC[1] | CPVC[1] | Stainless Steel |
|---|---|---|---|
| 100 | 3.6 | 4.56 | 1.09 |
| 150 | 5.4 | 6.84 | 1.63 |

For temperature change: °F = 5/9 °C

[1] Note the relative thermal expansion of thermoplastic plastic materials as PVC and CPVC compared to steel.

### 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-gasing. Stainless steel is a 100% recyclable material.

### Patented Sealing System

**NovaVent® White** 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 air-tight, water-tight fit.

### Material Finish

The white thermoplastic coating is incredibly durable and color matched to common appliance colors providing an ecstatically pleasing look.

### Approval

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

### Technical Specifications

| | |
|---|---|
| Product | NovaVent® Special Gas Vent Systems |
| Uses | ANSI Category I, II, III, IV Gas Burning Appliances |
| Diameters | 3, 4 and 5 inch |
| Fuel | Natural or Propane gas |
| Pressure | 8 inches WC positive, neutral or negative pressure |
| Joining System | Factory installed gaskets in all diameters |
| Temperature Limits | 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" | 4" (100mm) | 1" (25mm) | |

*For more information go to: www.z-flex.com*

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**U.S.A.**
20 Commerce Park North, Bedford, NH 03110-6911
tel: 603.669.5136 fax: 603.669.0309

**CANADA**
452 Attwell Drive, Etobicoke, ON M9W 5C3
tel: 416.679.0045 fax: 416.679.0051

www.z-flex.com email sales@z-flex.com