

NovaVent®



Designed for Quick Installation

Environmentally Safe Alternative to PVC Venting

Tested and Listed to UL1738/S636 Category II,III, IV



U.S.A. 1.800.654.5600 • FAX 1.888.889.3539
CANADA 416.679.0045 • FAX 416.679.0051
email sales@z-flex.com • www.z-flex.com



Single-Wall Category II, III & IV UL 1738 Special Gas Vent System Product Specifications

NovaVent® 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®** is a factory built, designed and engineered Special Gas Vent system suitable for venting Category 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 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 resistance to stress corrosion cracking.

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 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, water-tight fit.

Approval

Technical Specifications

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

Temperature	Enclosed Horizontal	Enclosed Vertical	Unenclosed Horizontal	Unenclosed Vertical
480°F	8"	4"	1"	1"

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

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

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

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

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