

NEW Z-Vent[®] Commercial Double Wall Chimney with ZV-Clamp[™] provides significantly increased joint strength and reduces installation time by enabling multiple chimney sections to be assembled on the floor prior to installation. Integrated outer flange with ZV-Clamp[™] ensures fully engaged joints and fast, trouble free field assembly of large diameter chimney sections. Internal double fail safe gasket provides flue gas seal at the inner pipe and allows for thermal expansion during heat/cool cycles.

Features

- Flange to Flange ZV-Clamp[™] outer pipe connection
- Factory installed Double Fail-Safe[™] self-sealing connections
- Precision factory formed pipe and fittings, with fusion welded seams

Significant Advantages

- Tested to 4 times safety factor for strength
- Gasketed connections allow air seal and thermal expansion
- Designed for quick, professional assembly

Benefits

- Increased structural integrity
- Self-sealing joints reduce installation time and labor up to 25% compared to field sealed systems
- Allows multiple chimney sections to be assembled on the floor prior to installation



Z-VENT[®] Double Wall System with ZV-Clamp[™] Connections

The air insulated double wall construction reduces outer wall surface temperatures clearance to combustibles and adds thermal resistance helping to maintain stack temperature.

Pipe and fittings ends are precision formed by specially designed high tolerance tooling. All seams are continuously welded using proprietary Z-Weld technology providing long service life and a virtual air and water tight construction. Fusion welded components provide superior fit, reduced turbulence and flow resistance.

ZQuote ENGINEERING SERVICES: Z-Flex[®] offers detailed chimney layout drawings with bills of material on request. Our technical support team will review provided appliance data and determine the correct size and parts for any venting system.

Technical Data Sheet

APPLICATION

Z-VENT[®] Double Wall with ZV-Clamp[™] is a factory built, engineered AL29-4C^{®*} gas venting system suitable for venting positive or negative pressure Category I, II, III, IV residential and commercial gas fired heating equipment. The maximum allowable continuous flue gas temperature for Model SVE is 550°F (288°C).

CONSTRUCTION

The inner flue is manufactured from super ferritic AL29-4C^{®*} stainless steel. The AL29-4C^{®*} alloy shows excellent resistance to chloride ion pitting, crevice corrosion and stress corrosion cracking, making it the ideal choice for battling the effects of high temperature flue gases and corrosive condensate from high efficiency gas heating equipment. A unique built-in gasket system provides air and water tight connections with no sealant required. Leakage tested to 2½ times the UL listed pressure rating of 8" water column. The double wall system has a one inch air space between the vent walls providing an insulation factor. This reduces clearance to combustibles and helps to maintain stack temperature, an important feature in the safe venting of modern high efficiency heating equipment. The outer wall is fabricated from Type 304 stainless steel. Fusion welded components provide superior fit, reduced turbulence and flow resistance.

Also eliminated are crevices and other spots where condensation can collect and corrode the vent. Optional 316L Stainless Steel is available where the vent is installed in *potentially corrosive environments*; such as room with *chemicals present*, providing increased corrosion resistance to the outer casing.

MATERIAL SPECIFICATION

ASTM A268, A240. ASME SA268, SA240

PATENTED SEALING SYSTEM

Z-VENT[®] components are supplied with factory installed, patented (US patent 6-523-865), self-sealing gaskets. The gaskets special design along with precision engineered close tolerance construction ensure an air and water tight fit leakage tested to 2½ times the UL pressure rating of 8" W.C.

CERTIFICATIONS

6in. to 24in. UL tested and listed to UL1738/S636 Venting Systems for Gas-Burning Appliances, Category II, III and IV.
File MH 18505

Please note: Different manufacturers have different joint systems and adhesives. Do not mix pipe, fittings or joining methods from different manufacturers without an approved adapter, as doing so will void any and all warranties.

*AL29-4C is a registered trademark of Allegheny Ludlum Corp.

All products are warranted to be free from all defects in material and workmanship. It is impossible to test all products under all conditions to which they might be subjected in the field. It is therefore the buyer and/or end users' responsibility to test all products under the conditions that duplicate the service conditions prior to installation. All improvements, all specifications are subject to change without prior notice. It is the buyer and/or end users' responsibility to review our complete **Terms and Conditions of Sale** located on our web sites at: www.novaflex.com / www.z-flex.com / www.flexmaster.com.