

**FLEXMASTER®**  
HVAC Products



# Ventilation Systems for Health Care Facilities



## *A Safe Workplace Begins with Clean Indoor Air*



**Indoor air quality in health care facilities is an important health and wellness consideration and critical to sick, infirm, and injured persons.**

Operation and maintenance of the Heating, Ventilating and Air-Conditioning (HVAC) system plays a critical role in maintaining acceptable air quality for indoor environments.

Proper design, operation and maintenance of HVAC systems can significantly help reduce the risk of infection transmission among patients, staff and visitors.

**Flexmaster HVAC Ventilation Duct Systems** can assist in providing a safe and healthy environment while discouraging the growth of mold and mildew and hinder the unhealthy distribution of pollutants.

**Flexmaster HVAC Ventilation Systems** supports equipment used to ventilate, heat and cool the building; to move the air around the building (ductwork); and to convey efficiently filtration and air cleaning systems.

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**Terms and Conditions of Sale** located on our web sites at: [www.novaflex.com](http://www.novaflex.com) | [www.z-flex.com](http://www.z-flex.com) | [www.flexmaster.com](http://www.flexmaster.com).

# Health Care Facilities

## Fabriflex® 8M Flexible Fabric Ducting

Fabriflex® 8M is the viable solution for most heating, ventilating and air-conditioning systems. The inner core, protected by an outer reinforced metallized vapour barrier, improves overall duct strength and puncture resistance.

The acoustically rated Chlorinated Polyethylene Core (CPE) allows noise to be attenuated from the air stream. Mechanically locked without the use of adhesives by a corrosive resistant galvanized steel helix, the core is wrapped with thermal insulation and covered by a fire retardant scrim foil mylar sleeve.



- Mechanically bonded without adhesives
- Core will not aid mold and mildew growth
- Corrosive resistant helix
- Extremely resilient
- Less noise
- Low permeability vapour barrier
- Lightweight
- Thermal reliability
- cULus Listed in accordance with UL-181/ULC-S110 Class 1



## Triple Lock® T/L-M Thermal Flexible Ducting

Triple Lock® T/L-M is exceptionally strong, lightweight and practically self supporting. Corrosion resistant with vibration deadening properties. It is manufactured with vibration deadening dead soft aluminum strip, spirally wound and mechanically locked together.

The inner duct is covered with thermal insulation and wrapped with a flame retardant, scrim foil mylar vapour barrier. Triple Lock® T/L-M combines an aluminum inner core with a three ply mechanical seam, and an insulated reinforced sleeve producing a thermal air duct which maintains temperature uniformity, absorbing duct vibration.

- Triple Lock® three ply mechanical seam, manufactured from semi rigid, dead soft pure aluminum, reducing the number of required supports
- Cross sectional area is maintained on bends, limiting static pressure loss
- Vibration deadening properties
- Lightweight, self supporting
- Thermal reliability and flexibility
- Mylar vapour barrier
- Exceptional strength and corrosive resistant
- cULus Listed in accordance with UL-181/ULC-S110 Class 1



## Triple Lock® Medical Grade TL-AMG

Triple Lock® Medical Grade TL-AMG is MRI safe and acoustically rated. It provides a safe and healthy environment while significantly reducing air flow noise. It is anti-microbial and corrosive resistant with excellent acoustic and vibration deadening properties.

Installed in medical facilities, the effective acoustical design gives a restful night for patients and a distraction-free environment for health care professionals. The polyethylene sleeve prevents transfer of glass fibres into the air stream.



- In health care settings acoustic qualities meet stringent noise criteria ratings
- Air stream protected by seamless polyethylene liner
- Manufactured from dead soft pure aluminum and perforated core
- Triple Lock® three ply mechanical seam
- Vibration deadening properties
- Enhanced mechanical strength • Corrosive resistant
- Lightweight and self supporting
- Thermal reliability
- Anti-microbial properties
- Highly puncture resistant
- cULus Listed in accordance with UL-181/ULC-S110 Class 1

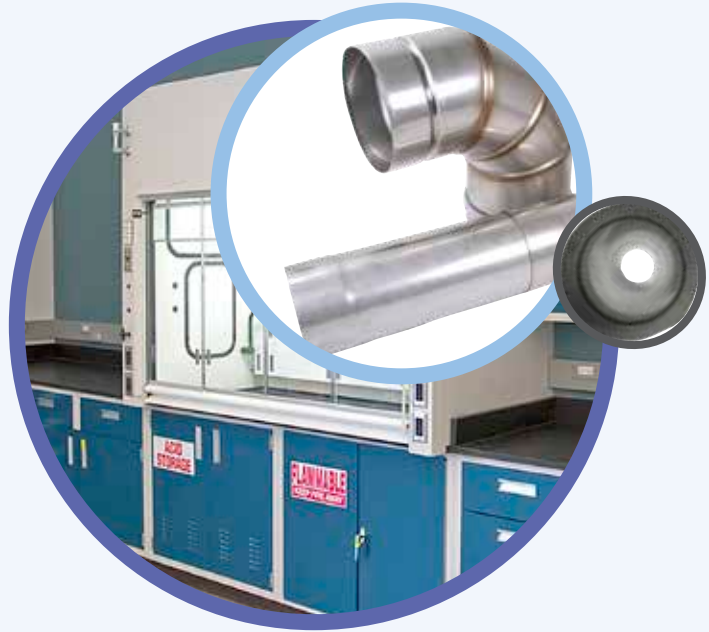
# Health Care Facilities

## Fume Vent Laboratory Smart Exhaust System

Fume Vent is suitable for anaesthetic gas scavenging systems, hot lab exhaust, biological safety cabinets and cart wash exhaust. Fume Vent features air and watertight seams, directional exhaust flow and self supporting connections.

In the field labour savings, with the Lab Smart Design and the on-site cut to length feature.

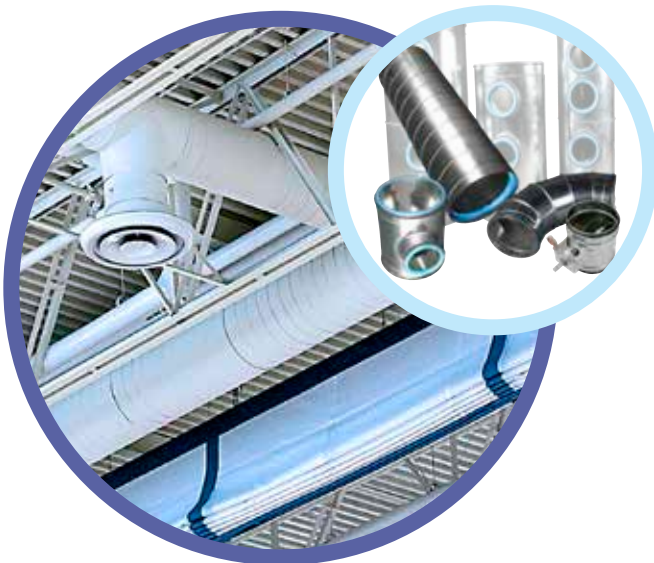
- Fume Vent is constructed from both 20 GA Stainless Steel and 304L/316L Stainless Steel
- Fully welded fittings
- Fusion welded pipe seams
- Factory expanded pipe and fitting ends
- Available in diameters from 4" through 24"
- Fume Vent meets SMACNA's RT-6 Standard



## Platinum Flow® Duct System

Platinum Flow® Duct System is available in both single wall and double wall configurations. Double Wall pipe can be supplied with solid cores for thermal applications or perforated cores for acoustic applications.

Platinum Flow® Duct System is constructed in accordance with the latest SMACNA Duct Construction Standard to +10" water column working pressure and is guaranteed to meet SMACNA's Leakage Class 3 and complies with ASHRAE 90.1-2004 section 6.4.4.2.2. Fire rating EPDM air seal gasket; flame spread 0, smoke developed 5 in accordance with ASTM standard E84-91a.



- LEED "Leadership in Energy Efficient Design" inspired Duct System
- The cornerstone design feature is the double fail safe EPDM sealing gasket.
- During installation, as contact is made, the double seals fold over the mating duct producing an exceptionally tight seal.
- Unique design provides quick site assembly and a tight seal without any field applied sealants.
- Saves time and money for both building owners, engineers, installers and end users.

## Z-VENT® High Efficiency for Safe Venting of Gas Boilers & Heaters

Z-Vent® Double Wall Gas Vent with ZV-Clamp™ significantly increases joint strength and reduces installation time by enabling multiple sections to be assembled on the floor prior to installation. Integrated outer flange with ZV-Clamp™ ensures a fully engaged joint and fast, trouble free field assembly of large diameter sections. Internal double fail safe gasket has a vent gas seal at the inner pipe which allows for thermal expansion during heat/cool cycles.

Z-Vent® air insulated double wall construction reduces outer wall surface temperatures, clearance to combustibles and adds thermal resistance assisting in maintaining stack temperature.

Pipe and fitting ends are precision formed by specially designed high tolerance tooling. The fusion welded components provide superior fit, reduced turbulence and flow resistance. All seams are continuously welded using proprietary Z-Weld technology. This provides an air and water tight construction and long service life.



- Designed for quick, professional assembly and increased structural integrity
- Factory installed double fail-safe™ self-sealing gasket connection. Self-sealing joints reduce installation time and labour up to 25%, compared to field sealed systems
- Flange to flange ZV-Clamp™ outer connection
- No noxious adhesives, no requirement to evacuate people from vicinity
- Precision factory formed pipe and fittings, with fusion welded seams
- Gasketed connection provides air/water seal and thermal expansion
- Tested to 4 times safety factor for strength
- No tools required
- Available in sizes 6" to 24"



Clearance to Combustibles					
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 12"	550°F (288°C)	Non-Combustible Material	6" (150mm)	Single Wall: 3" (75mm)	
	480°F (249°C)			Double Wall: 2" (50mm)	
14" to 24"	480°F (249°C)	Non-Combustible Material			3" (75mm)
	300°F (149°C)	Single Wall: Non-Combustible Material		1" (25mm)	
		Double Wall: 8" (200mm)	Double Wall: 4" (100mm)		

# Health Care Facilities

## Smoothcore™ Aluminum Ducting

Triple Lock® Smoothcore® twin-strip 2 ply construction. Corrugated outer wall provides crush resistance during installation.

Smooth inner wall permits the unimpeded flow of conditioned air, reducing friction loss, providing an unimpeded surface thereby reducing buildup of dust and impurities while aiding cleaning.

- Eliminates the turbulence that's inherent with laminate, fabric or film flexible ducts improving air flow.
- Patented Triple Lock® design won't pull apart during installation.
- UL-181/ULC S-110



**Flexmaster Canada Limited® continuously enhances quality standards and is active in many industry associations and programs dedicated to this goal.**

*The NovaFlex Group® is a privately held company committed to continuous advancement in venting, HVAC, hose and connector solutions. NovaFlex® has one of the broadest product ranges available in the hose and ducting marketplace as well as in the HVAC, Industrial Venting and Hose Industries and in Commercial Exhaust Venting Systems.*

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