

# Bypass Air Plenum for Vektor-MD Laboratory Exhaust



*Structural integrity, superior performance, flexibility - just a few of the characteristics that define Greenheck's bypass air plenums for Vektor-MD laboratory exhaust systems.*

Greenheck's bypass air plenum design utilizes over 50 years of ventilation engineering expertise. Engineered to reduce fan inlet turbulence and improve performance, the modular plenums can be arranged for specific system configurations, reducing cost.

## Greenheck Advantages:

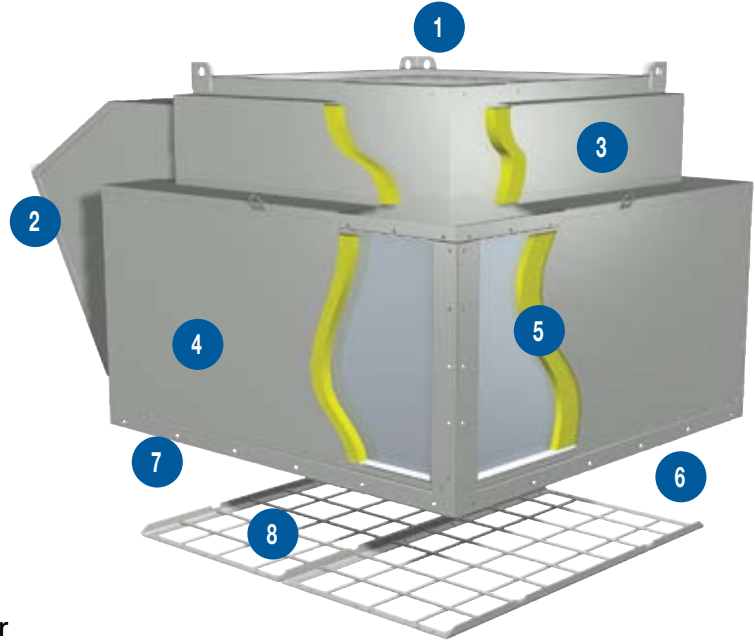
- Plenum design minimizes system effects
- Modular plenum design offers application flexibility while lowering initial cost
- Isolation dampers are designed and manufactured by Greenheck to handle high pressures and corrosive atmospheres
- Bypass dampers are sized and manufactured by Greenheck for accurate bypass air control
- Optional pneumatic or electric (2-position or proportional) damper actuators are factory mounted and tested
- Isolation dampers, bypass air dampers, and bypass air plenum assemblies are manufactured by Greenheck: Schofield, Wisconsin USA



# Vektor-MD Air Plenum Design Features

All Vektor-MD bypass air plenums are manufactured of laser cut and structurally formed heavy gauge steel. Plenum assembly is continuously welded. The welded plenum assembly is then corrosion-resistant coated inside and out using an electrostatically applied polyester resin finish, and baked at 400° F. In addition to superior corrosion resistance to acid, alkali, and solvent vapors, the polyester finish is resistant to the UV component of sunlight. The standard coating color is light gray. Consult the factory for custom colors.

- 1 Corrosion resistant, stainless steel lifting lugs are standard
- 2 Weatherhood protects bypass air damper, isolation damper linkage, and damper actuators from ambient elements and minimizes snow and water entrainment {Acoustical designs are available}
- 3 Isolation dampers can be removed from the bypass air plenum through a bolted access panel; fan removal or entry into the contaminated plenum is not required
- 4 Bolted and gasketed access panels prevent access to plenum interior by unauthorized individuals
- 5 Optional insulated double-wall plenum using a polyester coated steel, stainless steel, or acoustically perforated inner liner
- 6 Plenums are designed for low fan entrance velocity, improving fan performance
- 7 Plenum "skirt" acts as curb cap with pre-punched holes that bolt to the Vektor Curb
- 8 Optional steel or stainless steel safety screens with 1/2 inch (13 mm) bars, Polyester resin coated and baked



Vektor Bypass Plenum Features and Options	Vektor-H	Vektor-MD
Single or multiple fan systems	Yes	Yes
Formed and fully-welded plenums	Yes	Yes
Modular plenum designs for future upgrades	No	Yes
Suitable for bottom or side air intake	Yes	Yes
Double wall construction	No	Optional
Steel or stainless steel safety screens	No	Optional
316 SS perforated lining on double wall	No	Optional
Isolation dampers and actuators	Optional	Optional
Bypass damper actuator(s)	Optional	Optional

## Vektor Family of Lab Exhaust Systems

Vektor-H



Vektor-MD



Vektor-CD



Vektor-MD-ERS



Vektor-CD-ERS



As a result of our commitment to continuous improvement, Greenheck reserves the right to change specifications without notice.