

# PLYMVENT®

clean air at work



## VERTICAL STACK RAIL

Creating a healthier work environment in your facility



## EVER WONDER ABOUT THE VALUE OF CLEAN AIR?

**We do.** Exposure to hazardous vehicle exhaust emissions can cause serious health problems for you and your employees. The most efficient way to combat that exposure is to capture the exhaust fumes at the source and eliminate contact with harmful pollutants. With over 45 years of experience, Plymovent source capture systems remove the hazardous emissions at the source, providing a healthy and safe working environment.

Our high-quality exhaust removal systems are recommended worldwide to make sure that legal exposure limits are not exceeded. Plymovent offers various systems that capture, extract and remove gas and diesel exhaust emissions, creating a cleaner and healthier work environment for your personnel.

From existing, to new facilities, our range of products and system solutions covers it all. Contact us to find out what a genuine commitment to customers really means.

## VERTICAL STACK RAIL SYSTEM

The vertical stack rail (VSR) system is designed for vehicles with a vertical exhaust pipe. The Plymovent stack adaptor is fitted to the vertical exhaust pipe, creating a closed connection between the vehicle and the VSR exhaust removal system. The rail profile is a free floating system which allows side-to-side movement of the entire system and automatically aligns with the vehicle exhaust pipe.

### HOW DOES IT WORK?

As the returning vehicle drives into the station, the catcher and the profile align themselves to the exhaust pipe position, eliminating the need for human assistance and potential human hazard. When the exhaust gases flow into the rail the pressure sensors automatically turn on the fan and the exhaust gases are removed from the rail preventing them from entering the station.

The VSR is one of the many effective Plymovent engineered systems for removing vehicle exhaust fumes.

## RECOMMENDED FOR:

We have provided over 50,000 installations for source capture and ventilation systems in various industries including:

- Military facilities
- Automobile plants
- Department of Transportation facilities
- Motorcycle/ATV garages
- Emergency service stations
- Fleet service & repair bays
- Agricultural equipment facilities
- Bus depots

### BENEFITS

- ✓ **Easy to use**
- ✓ Ensures **effective** and **efficient** diesel exhaust gas removal
- ✓ **Fits any** vehicle stack
- ✓ **Expandable system** to almost any length
- ✓ **350 mm lateral movement** to either side
- ✓ **Automatic return** to position after lateral movement



# COMPONENTS

The front opening of system has a V-shaped catcher to guide the stack adapter. The stack adapter converts the round exhaust pipe to a rectangle shape to suit the rail, matching the initial surface of the tailpipe.

Support legs are used to mount the system to the ceiling. The profiles are cut to length to provide the required distance between the system and the vehicle.

The sliding trolleys allow the VSR rail to move approx. 350 mm to either side and position the rail in line with the exhaust pipe of the vehicle.

The duct connection forms the transition between the rail and fixed duct, the hose is flexible to accommodate the movement of the VSR rail. The connection can be either on the top of the rail (drive-through situation) as well as mounted to the back of the rail (back-in situation as displayed below).

The rail is closed on the end(s) with a rubber end gate seal that is opened by the entering stack adapter.

The rail is made of a high grade 6010 T6 aluminum profile.

The bottom of the rail is closed off by a long rubber lip.

## TECHNICAL SPECIFICATIONS

System use	Suitable for back-in and/or drive through applications
Function	Hands free operation with automatic adjustment to vehicle exhaust pipe position (350 mm to either side).
Operation	The fan starts and stops automatically when a vehicle enters the system using pressure sensors
Truck connection to system	Truck stack adapter
System length	5,8 - 29 meter
Material	Aluminium with EPDM rubber lips
Temperature resistance	200°C continuous, 260° intermittent
Installation	Ceiling or wall
Weight	62 kg per 5,8 m (87 kg including two suspensions)
Rail opening	84 mm
Rail diameter	200 mm
Catcher width	686 mm
Duct connection	160 mm
Distance between suspensions	approx. 4 meter
Recommended air velocity in duct	10 to 15 m/s





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## PLYMOVENT OFFERS TOTAL SOLUTIONS FOR AIR CLEANING

For more than 45 years we have made it our business to ensure clean air in fire stations, workshops and emergency service stations. We provide high-quality products to protect firefighters and others from exposure to hazardous diesel exhaust, dust and debris. We offer a broad range of exhaust extraction systems, supported by complete engineering services. Contact us to find out what genuine commitment to customer requirements really means.

## FROM SCRATCH TO THE RIGHT SOLUTION

Plymovent is not just a manufacturer. We offer professional advice and engineering services to provide a solution tailored to your specific needs or requirements. In addition, our worldwide network of distributors offer service and maintenance to keep your system functioning optimally.

For more information, please contact your authorized Plymovent distributor or visit [www.plymovent.com](http://www.plymovent.com).

*Plymovent cares about the air you breathe. We offer products, systems and services which ensure clean air at work, anywhere in the world.*

*We respect the environment and we deliver high-quality products. Our expertise gained over many years and our genuine commitment to customer requirements enable us to provide precisely the solutions you need.*