

A photograph showing the interior of a fire station. Several fire trucks are parked in a row, with their yellow hoses hanging from the ceiling. The scene is brightly lit by overhead fluorescent lights. The focus is on the side of a red fire truck in the foreground, showing a window and a fire department emblem.

Do you protect
your firefighters?

**REMOVE DIESEL EXHAUST FROM
YOUR FIRE STATION**



EVER WONDER ABOUT THE VALUE OF CLEAN AIR?

We do. For more than 40 years we have made it our business to ensure clean air in fire stations. We provide high-quality products to protect firefighters and others from exposure to hazardous diesel exhaust. 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.

WHY PLYMOVENT

- A genuine commitment to customer needs
- System solutions
- Expertise gained over decades
- High-quality products
- Global presence

DANGERS OF DIESEL EXHAUST

Chemical	Health effect*
Benzene	Group 1, carcinogen to humans
Benzo(a)pyrene	Group 1, carcinogen to humans
Formaldehyde	Group 1, carcinogen to humans
Dibenz(a,h)anthracene	Group 2A, probably carcinogenic to humans
Benzo(furan)	Group 2B, possibly carcinogenic to humans
Carbon monoxide	Life threatening to humans
Nitric oxides	Life threatening to humans

*Source: OSHA.gov, IARC.fr

REMOVE THE DANGERS OF DIESEL EXHAUST

Hazardous vehicle exhaust emissions in a fire station are a firefighter's most significant cancer health risk and could be a serious legal liability for the fire department. Eliminate this hazard from your fire station with Plymovent code compliant vehicle exhaust capture and removal systems. From existing stations, to new turn key facilities, our totally automatic start-up and disconnect source capture systems are the recommended method for controlling exhaust emissions at your station.

“Durability of the product, especially with the harsh weather of Western New York, has stood over both time and conditions.”

Chief John Lapham of North Tonawanda Fire Department

“There's no need to bend over and hook up the system, which is how it should be, safe and simple”

Assistant Chief Jeffrey McGuigan of White Springs Fire Department





SOURCE CAPTURE

PLYMOVENT SOURCE CAPTURE SYSTEMS: THE PNEUMATIC OR MAGNETIC GRABBER® SETTING THE INDUSTRY STANDARD

Capture airborne particles at the source prior to their spreading in the local environment, is the most efficient method to achieve a safe and healthy working environment. It minimizes the amount of air that needs to be removed, thereby reducing the total investment in air handling equipment and also reducing the total energy consumption.

A key component to our system is the sealed nozzle design called the Grabber®. The Plymovent Grabber® is available in either a pneumatic or a magnetic version. With the Grabber®, the Plymovent system can provide a virtually 100% source capture performance hereby meeting various regulations.

The Grabber® connects to the tailpipe, capturing and eliminating virtually all exhaust fumes. Plus, it is simple to use:

- **Magnetic Grabber®**

Just attach it to the tailpipe and you are done. We call this the Plymovent "click and seal" principle.

- **Pneumatic Grabber®**

Attach it to the tailpipe, and push the fill valve to quickly ensure a positive seal around any size tailpipe; capturing and eliminating the chance that dangerous exhaust fumes will escape into your station.



DESIGNED FOR PURPOSE

Each system is designed to remove hazardous exhaust and provide for a healthier working environment. Based on years of experience working in the air treatment business, Plymovent has developed a totally reliable approach that we refer to as "engineered solutions."

This approach ensures we offer an optimal solution for providing clean air in your working environment, taking such important elements into account, as value for money and efficient operation.

The philosophy of Plymovent is to deliver quality systems that are safe, user friendly, regulation compliant and that will enhance the quality of life for your firefighters and emergency service personnel. That is why we have developed a line of source capture systems designed to meet your station's needs:

- **Under Carriage Track Systems** - for single and double bay applications
- **Under Carriage Rail Systems** - for drive through bays with up to four vehicles
- **Vertical Stack Rail Systems** - for vehicles with overhead exhaust stacks



UNDER CARRIAGE TRACK SYSTEMS

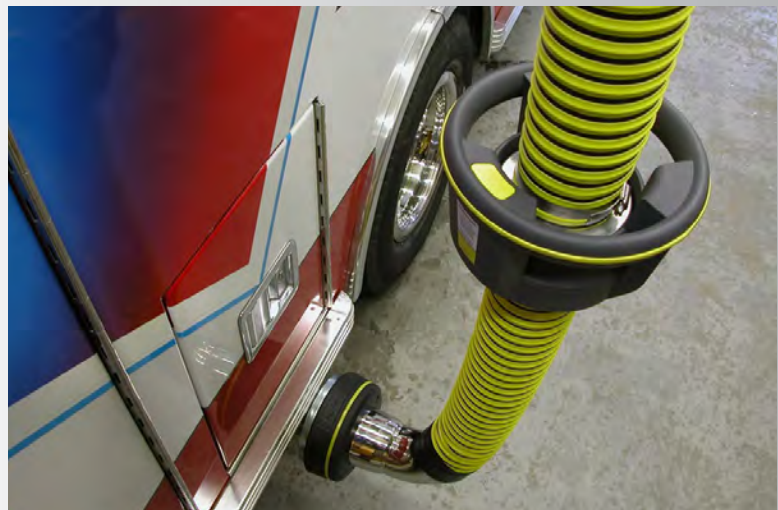
KEY ADVANTAGES SBT SYSTEM:

- Models handle up to 60 feet deep back-in bays
- Auto-disconnect at the exit door
- Attach the Grabber® from the vertical position
- Aluminum track: light-weight and strong
- End stops with rubber shock absorbers take up kinetic energy from trolleys
- Adjustable release points depending on the vehicles exit speed
- Pre-fitted yellow/black extraction hose
- Virtually 100% source capture through a unique automatic Grabber® nozzle; available in sizes to fit all emergency response vehicle tailpipe sizes
- Automatic start-stop of fan by an exhaust sensor
- Safety disconnect coupling; fail safe system, easily re-connectable
- Suitable for existing fire stations and new design-built stations

The Sliding Balancer Track System (SBT) has set the standard for vehicle emission control for fire and emergency response vehicles around the world using either the Magnetic or Pneumatic Grabber®.

The SBT system is the preferred system for back-in and drive through apparatus bays, and is designed to connect to any motor vehicle tailpipe while capturing virtually 100% of the exhaust emissions. The SBT system is used in single and double vehicle applications where the vehicle tailpipe is within 60 feet of the door. It is a fully automatic system, including fan activation and system disconnect from the exiting vehicle.

The SBT system is fully code compliant, and there is a one-step connection to the system as a vehicle enters the station. If you are looking for an exhaust removal system that you can connect at the door before backing in and have it automatically disconnect when you leave, the SBT is right for your application.





UNDER CARRIAGE RAIL SYSTEMS

Plymovent provides two rail systems based on the type of trucks being supported: the Straight Rail System (STR) and the Vehicle Square Rail System (VSRX). Both systems are designed to connect to any motor vehicle tailpipe and capture virtually 100% of the exhaust emissions using the Magnetic or Pneumatic Grabber® (coming soon to VSRX). Both systems offer automatic fan activation and automatic release from the exiting vehicle. Additionally, both systems enable operators to easily hook up the hose as a vehicle enters the station.

The STR system is ideal for drive through bays or bays with up to four vehicles parked in tandem, as it includes a solid, one-piece circular aluminum rail profile.

The VSRX system is ideal for a single heavy-duty or multiple heavy-duty trucks in tandem, as it offers exceptional airflow with a solid aluminum square rail profile. In addition, the VSRX system is versatile, as the rail can be reconfigured for a vehicle with a top exhaust stack in the future.



KEY ADVANTAGES STR / VSRX SYSTEMS:

- Models to handle up to 150 feet
- Exhaust hose sizes for all vehicle types
- Auto-disconnect at the exit door
- Door-to-door removal of harmful emissions
- Speed absorbing shock system
- Front and rear door release
- Expandable design
- Allows for up to four vehicles in tandem
- Adjustable release points depending on the vehicles exit speed
- Virtually 100% source capture through a unique automatic Grabber® nozzle; available in sizes to fit all emergency response vehicle tailpipe sizes
- Automatic start-stop of fan by an exhaust sensor
- Safety disconnect coupling; fail safe system, easily re-connectable
- Suitable for existing fire stations and new design-built stations



VERTICAL STACK RAIL SYSTEMS

KEY ADVANTAGES VSR SYSTEM:

- Floating suspension
- Adjustable capture stack
- Fits any vehicle stack
- One piece aluminum rail
- A fully automatic system
- Expandable system to almost any length
- Adapter cone designed for both empty and loaded vehicles
- 12" lateral movement to either side
- Flexible duct connection
- Sealing rubber lips
- Automatic return to position after lateral movement
- Safety cables; added security
- Suitable for existing fire stations and new design-built stations

The Vertical Stack Rail System (VSR) is the solution for vehicles that have top exhaust stacks and need to move through an apparatus bay.

The Plymovent VSR system is designed for vehicles with overhead exhaust stacks. With no operator intervention needed, the "V" shaped catcher guides the vehicle tailpipe into the rail profile. The rail profile is a free-floating system that allows side-to-side movement of the entire system and automatically aligns itself with the vehicle's tailpipe. The system is fully automated from fan start to disconnect. Along with being completely code compliant, the VSR system offers a solid one piece extruded aluminum rail profile that provides strength and durability.





IMPORTANT FACTS...

...ABOUT DIESEL EXHAUST

- The World Health Organization (WHO) classified diesel engine exhaust as carcinogenic to humans, based on sufficient evidence that **exposure is associated with an increased risk for lung cancer***.
- The United States Environmental Protection Agency (EPA) has determined that the size of the average diesel exhaust particle sizes 0.2 microns. These particles are typically not visible to the human eye.
- Diesel exhaust particles are often too small to be captured by onboard filters. **Toxic gases are not captured by particulate filters**, and only partially by activated carbon filters. The Plymovent source capture system captures these particles and gases before they enter the fire station, and expels them to the outside.
- As a fire truck exits the station, diesel exhaust is expelled with force. The Plymovent source capture system prevents it from being spread throughout the fire station including the living quarters.**
- Diesel exhaust particles and gases are suspended in the air, so exposure to this pollutant occurs whenever a person breathes air that contains these substances.
- Like all fuel-burning equipment, diesel exhaust contains nitrogen oxides. Nitrogen oxides can damage lung tissue, lower the body's resistance to respiratory infection and worsen chronic lung diseases, such as asthma.
- Plymovent source capture systems provide a sealed nozzle system which have been proven in over 50,000 installations over the past 40 years.***

* Based on the International Agency for Research on Cancer (IARC) and World Health Organization (WHO) June 12, 2012 press release.

** The operation of exhaust extraction systems can be affected by various factors including proper design of the system, operating procedures, and service and maintenance. Exposure levels should be checked upon installation and periodically thereafter to ensure that they fall within applicable regulations and exposure limit values.

*** Plymovent systems are made code compliant, please ensure the system is properly designed, operated, serviced and maintained.

WHY CONTROL EQUIPMENT:

■ FINANCIAL REASONS

A fully automatic controlled system will enable you to substantially lower your use of electricity and overall energy consumption. This creates a solid and viable investment for your station.

■ ENVIRONMENTAL REASONS

The control equipment which we have in our product range enables an on-demand use of the system. The result of installing our control equipment is a reduction of electricity consumption and lower heating cost due to the fact that the system is only used when needed. Lower energy consumption will also have a positive effect on the global environment.

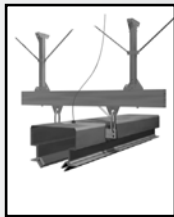
WHAT IS THE BEST SOLUTION FOR YOU?

VERTICAL STACK RAIL SYSTEM



FANS

- We offer a wide range of fans covering most requirements in a variety of applications.
- In-house manufactured
- AMCA Certified



RAILS / TRACKS

- We can accommodate the varying demands of fire stations: facility layout, vehicle size, bay configuration and more.



VSR CATCHER

- Entry guide
- Sealed entry gate
- 12" lateral movement to either side



TROLLEY

- Self supporting
- Internal & external wheels
- Adjustable impact cushions
- Bi-directional release



BALANCER

- Adjustable
- Strong but light weight
- Back up safety chain
- Closed housing



MAGNETIC GRABBER®

- Easy to operate "click and seal"
- Virtually 100% source capture
- Conical design for easy use



PNEUMATIC GRABBER®

- Virtually 100% source capture
- Simple to use
- Controlled release

UNDER CARRIAGE RAIL SYSTEMS



We can provide a diesel exhaust removal system specifically tailored to your needs.

UNDER CARRIAGE TRACK SYSTEMS



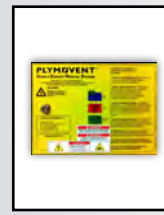
SAFETY DISCONNECT

- Protects system
- 360 degree swivel
- Soft cover
- No hose obstruction
- Easy to operate and handle



HOSE ASSEMBLIES

- Multiple lengths
- High temperature resistance



CONTROLS

- We offer fully automatic control systems which will operate with your exhaust system in the most efficient way
- In-house manufactured
- UL listed



★ SALES OFFICE
● DISTRIBUTOR

REFERENCES

We have installed over 50,000 source capture systems across the world. Here are some examples:

USA	Atlantic City, NJ	USA	Detroit, MI	Canada	Gatineau, Quebec	Germany	Frankfurt
USA	Baltimore County, MD	USA	Kansas City, KS	Canada	Guelph, Ontario	Germany	Hamburg
USA	Boston, MA	USA	Lancaster, PA	Canada	Winnipeg, Manitoba	Germany	Munich
USA	Brevard County, FL	USA	Las Vegas, NV	China	Shanghai	Hungary	Budapest
USA	Buffalo, NY	USA	Lexington, KY	England	Norfolk	Ireland	Dublin
USA	Burlington, VT	USA	Los Angeles, CA	England	Oxfordshire	Italy	Bologna
USA	Casper, WY	USA	Memphis, TN	Finland	Helsinki	Netherlands	Amsterdam
USA	Charlotte, NC	USA	New Orleans, LA	France	Cateau	Serbia	Belgrade
USA	Chicago, IL	USA	Salt Lake City, UT	France	Nanterre	Spain	Granada
USA	Cincinnati, OH	USA	Spokane, WA	France	Noailles	Sweden	Gothenburg
USA	Dallas, TX	USA	Syracuse, NY	Germany	Berlin	Sweden	Malmö
USA	Denver, CO	USA	Wilmington, DE	Germany	Cologne	Sweden	Stockholm

#HOOKUPTHEHOSE



POWERED BY PLYMOVENT

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.

PLYMOVENT®
clean air at work

Plymovent Corp. T +1 800 644 0911
5 Corporate Drive T +1 609 395 3500
Cranbury, NJ 08512 F +1 609 655 0569
USA E cleanair@plymovent.com

f plymoventusa @plymoventusa plymoventusa

Your authorized Plymovent distributor:

