



Do you protect your
emergency response
personnel?

**REMOVE DIESEL EXHAUST
FROM YOUR STATION**



EVER WONDER ABOUT THE VALUE OF CLEAN AIR?

We do. For more than 35 years we have made it our business to ensure clean air in emergency service stations. We provide high-quality products to protect emergency response personnel 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

REMOVE THE DANGERS OF DIESEL EXHAUST

| Chemical | Health effect* |
|----------------------------------|---|
| Benzene | Group 1A, carcinogen to humans |
| Polynuclear aromatic hydrocarbon | Group 2A, suspected human carcinogen |
| Benzene "alpha" pyrene | Group 2A, suspected human carcinogen |
| Formaldehyde | Group 2A, suspected human carcinogen |
| Benzofuran | Group 2B, possibly carcinogenic to humans |
| Carbon monoxide | Life threatening to humans |
| Nitric oxides | Life threatening to humans |

*Source: OSHA.gov



SOURCE CAPTURE

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

At source capture of airborne particles, 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, the Grabber, available in both a pneumatic and 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 tail pipe, capturing and eliminating virtually all exhaust fumes, plus it is simple to use:

- For the magnetic version just attach it to the tail pipe and you are done. We call this the Plymovent "click and seal" principle.
- For the pneumatic version just attach it to the tailpipe, push the fill valve and quickly ensure a positive seal around any size tailpipe; capturing and eliminating the chance that dangerous exhaust fumes will escape into your station.

“Plymovent protected us, our medical supplies, kept the walls clean, lowered our energy bills, and kept the cancer causing fumes out of the rig. Plymovent is a “must have” for EMS.”
Joe Padulchick of Princeton, NJ First Aid & Rescue



DESIGNED FOR PURPOSE

Each system is designed to remove hazardous exhaust to provide a healthier working environment. Based on years of experience working in the air treatment business, Plymovent has developed a totally reliable approach, we call it "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 emergency response 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



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
- Aluminium track: light-weight and strong
- End stops with rubber shock absorbers take up kinetic energy from trolleys
- Adjustable release points depending on the speed of the vehicle
- 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 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

The Straight Rail System (STR) is the preferred system for drive through and in tandem apparatus bays using either the Magnetic or Pneumatic Grabber®.

The Plymovent STR system is designed to connect to any motor vehicle tailpipe and captures virtually 100% of the exhaust emissions. This system is ideal for drive through bays or bays with up to four vehicles parked in tandem. Everything within the system is automatic, from the fan activation to the automatic release from the exiting vehicle. There is a one-step connection to the system as the vehicle enters the station. Also, the STR system is code compliant, and has solid one-piece extruded aluminium rail profiles offering strength and durability.



KEY ADVANTAGES STR SYSTEM:

- 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 speed of call-out release
- 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 stations and new design-built stations



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 EPA has determined that the size of the average diesel exhaust particle size is 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 an ambulance exits the station, diesel exhaust is expelled with force. The Plymovent source capture system prevents it from being spread throughout the 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 35 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. Obviously lower energy consumption will also have a positive effect on the global environment.



REFERENCE

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

| | | | | | | | |
|-----|----------------------|--------|--------------------|---------|-------------------|----------|----------------|
| USA | Atlantic City, NJ | USA | Las Vegas, NV | Canada | Waterloo, Ontario | Germany | Frankfurt |
| USA | Austin, TX | USA | Lexington, KY | China | Shanghai | Germany | Hamburg |
| USA | Baltimore County, MD | USA | Los Angeles, CA | England | Norfolk | Hungary | Budapest |
| USA | Boston, MA | USA | New Orleans, LA | England | Oxfordshire | Ireland | Dublin |
| USA | Buffalo, NY | USA | Brevard County, FL | Finland | Helsinki | Italy | Bologna |
| USA | Charlotte, NC | USA | Raleigh, NC | France | Cateau | Portugal | Azores Islands |
| USA | Chicago, IL | USA | Santa Barbara, CA | France | Noailles | Serbia | Belgrade |
| USA | Cincinnati, OH | Canada | Winnipeg, Manitoba | France | Nanterre | Spain | Granada |
| USA | Dallas, TX | Canada | Clearview, Ontario | Germany | Munich | Sweden | Stockholm |
| USA | Detroit, MI | Canada | Gatineau, Quebec | Germany | Berlin | Sweden | Gothenburg |
| USA | Kansas City, KS | Canada | Guelph, Ontario | Germany | Cologne | Sweden | Malmö |



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 Corp. is ISO 9001:2008 Certified



PLYMOVENT®
clean air at work

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