

Do you protect
your military personnel?

**REMOVE DIESEL EXHAUST
FROM YOUR MILITARY BASE**



EVER WONDER ABOUT THE VALUE OF CLEAN AIR?

We do. Diesel engines, used in many military vehicles, produce a mixture of toxic gases and particulates from the combustion process. These exhaust emissions are discharged into the environment through the exhaust pipe and form a serious health risk in military workshops.

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

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

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

AT SOURCE CAPTURE

Capturing airborne particles at the source is the most effective method for removing exhaust emissions. Extracting at the source (direct connection to the exhaust pipe) ensures that vehicle exhaust emissions do not get the chance to accumulate in your workplace; reducing the exposure level in your facility.

FROM PRODUCT TO TURN-KEY SOLUTION

Our services include the supply of single parts to full project support and implementation. Each system is designed to remove hazardous exhaust emissions in the most effective way, customised to the base's requirements; thereby providing a healthier work environment.

SYSTEM SOLUTIONS

To remove diesel exhaust emissions, a system solution needs to be installed. Such a system can consist of various components, like: fans, rail systems, drops, hose reels, nozzles, balancers and controls. Plymovent offers customised system solutions, depending on your location and specific needs. Our philosophy is to deliver high-quality systems that are safe, user-friendly, regulation compliant and enhances the work environment of your service crew.



FANS

Our wide range of fans covers the demands of almost any application removing the polluted air from the building.



RAIL SYSTEMS

The rail systems provide flexibility and allow easy expansion by the addition of trolleys or additional hose reels.



DROPS

Our single hose drops are mainly used in small workshops and tight areas, an additional boom arm is used for larger areas.



HOSE REELS

Spring- or motorised-operated hose reels, all designed for optimal hose storage and user-friendliness.



NOZZLES

The range of nozzles can be connected to moving or stationary vehicles, depending on your needs.



CONTROLS

Our fully automatic control systems operate your diesel exhaust removal system in the most efficient way.



IMPORTANT FACTS

- The US Environmental Protection Agency (EPA) has determined that the median 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 particle filters, and only partially by activated carbon filters. The source capture system of Plymovent captures these particles and gases before they can spread throughout the service and maintenance area and expels them to the outside.
- As vehicles start their engines and run idle, the diesel exhaust is expelled with force into the building. The source capture system of Plymovent prevents this exhaust from entering the breathing zone, thereby preventing the exhaust from being inhaled by surrounding personnel.
- Like all fuel burning equipment, diesel exhaust contains nitrogen oxides. These oxides can damage lung tissue, lower the body's resistance to respiratory infection and worsen chronic lung diseases such as asthma.

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 are within applicable regulations and exposure limit values.



PLYMOVENT®

clean air at work

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PLYMOVENT OFFERS TOTAL SOLUTIONS FOR AIR CLEANING

For over 40 years, Plymovent has gained experience in the field of air cleaning. We not only have extensive knowledge of the removal of vehicle exhaust emissions, we are also specialised in the extraction and filtration of welding fumes, grinding dust and oil mist in the metal-working industry.

Your authorised Plymovent distributor:

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.