Nederman
Exhaust Extraction Systems for Emergency Vehicles
Let´s give your mission a fresh start!

Why expose yourself to unnecessary risks every time the alarm goes and your crew takes off on a mission? Your job is tough enough as it is.

Exposure to exhaust fumes can seriously affect your health, causing irritation to the eyes and damage to the respiratory tract. Prolonged exposure to diesel fumes can lead to coughing, chestiness and breathlessness. In the long term, repeated exposure is as dangerous as being subject to cigarette smoke. Let us help you get rid of the problem once and for all. Nederman’s exhaust extraction system, designed specifically for emergency vehicles, removes the exhaust fumes right at the tail pipe. That’s the only effective way to do it. And we know that for sure: more than 100,000 system solutions have been installed in emergency stations all over the world!

Whatever your needs, Nederman has the solution
No matter what the size of your station or frequency of emergency callouts – we can provide an exhaust extraction solution based on the market’s widest range of products and systems. Our PTS system, for instance, with its pneumatically attached nozzle, is perfect for stations where vehicles varies from time to time, while our MagnaSystem solutions offer extraction efficiency second to none. Whatever your choice, all our solutions have an important feature in common: They are designed for extraction-at-source.

Extraction at source – the only solution
Exhaust fumes collect on the floor in the breathing zone. General ventilation and central re-circulations systems are not enough!
**MagnaSystem**

**Matchless extraction, exit speed and capacity**

Unique Magnetic Attachment

In the MagnaSystem, the extraction hose is attached to the vehicle using an electromagnet. This solution has been specially developed by Nederman and permits quick getaways while providing a superior capacity for exhaust removal.

The MagnaSystem offers outstanding extraction and operational capacity even for stations with high callout frequencies where there are high demands for an exhaust-free environment.

Outstanding extraction efficiency

The design of the nozzle enables complete extraction of the exhaust fumes — and, at the same time, removal of residual emissions from the tail pipe system. This 100 %-PLUS extraction capability makes MagnaSystem second to none.

High heat resistance

Another feature, unique to the MagnaSystem, is that the nozzle also draws in ambient air, cooling the entire extraction system. This is an important advantage when handling the increasingly higher exhaust temperatures generated by modern engines.

When activated, the electro-magnet attaches to an anchor plate on the vehicle, holding the hose on to the vehicle and the nozzle firmly on to the tail pipe.
Fastest exit speed on the market
The magnetic attachment mechanism releases the nozzle immediately on exit. The release distance to the door is adjustable.

The most ergonomical way to attach the nozzle
The operator avoids bending down and breathing residual exhaust fumes while attaching the nozzle to the exhaust pipe. The hose is conveniently guided into position using the grip and is held in place by the electromagnet.

Smooth release eliminates swinging hoses
The magnetic mechanism releases smoothly, preventing tension build-up. There is no slingshot effect, pendular motion is reduced, and the risk of damage to nearby staff or vehicles eliminated.

Hose without loops
As the system has no hoses coiled in loops or trailing behind, space is saved between vehicles and the risk of hose swing is greatly reduced – a great advantage in small bays. Furthermore the vertical hoses cannot become entangled, important when the alarm sounds.

Hoses that guarantee optimal extraction
Our 6 1/4” hose permits a high airflow with low pressure drop, allowing the fan to operate with optimal efficiency. Thus, the fan does not have to be oversized, which saves energy and keep noise at a low level.

100% PLUS extraction and heat resistance
The nozzle extracts 100% of the exhaust fumes and simultaneously draws in ambient air for cooling. This makes MagnaSystem perfect for modern engines generating very high exhaust temperatures. The nozzle also safeguards that residual emissions that may leak from the tail pipe system are extracted.

MagnaRail represents state-of-the-art in the MagnaSystem range (see the other systems on page 8-9)

*Optional
Pneumatic Track System, PTS, has been developed together with our customers and market representatives. The system is based on an expandable nozzle expanded by compressed air, fixing and sealing the nozzle tightly round the tail pipe. PTS is supplied with a choice of different sized nozzles to fit the most common types of tail pipes. A quick coupler makes it easy to interchange the nozzles.

Fleet flexibility
PTS is suitable for stations with high demands regarding environmental cleanliness and safety and is perfect for stations where vehicles varies from time to time.

Quick and safe getaway
On leaving the station, when the vehicle reaches a preset point, the air pressure in the nozzle is released and disconnected from the tail pipe. A valve releases automatically the pressure instantaneously. The valve can also be operated using a switch on the grip.

Fan activation options
The system can be supplied with different fan activation options such as pressure sensors, radio control units or manual switches.

Safety disconnection
As an extra safety, in case of faulty operations, a safety coupler ensures that the hose is disconnected from its mount.
**Quick air vent for quick getaways**

The air pressure in the nozzle is released quicker than in similar systems. The activation point for hose release can be set as close to the exit doors as required.

**Safety coupling**

As an extra security, in case of faulty operation, there is a safety coupling to ensure that the hose is not pulled off its mount.

**Nozzles to suit all types of vehicles**

PTS is supplied with a choice of easily interchangeable nozzles to suit different tail pipes dimensions. The nozzle has a heat resistant inlay.

**Grip for ergonomical handling**

A robust grip for two-handed use positioned at a convenient working height provides ergonomic handling when attaching the nozzle to the tail pipe.

**Exhaust hose with integrated compressed air hose**

4” exhaust hose for easy operation. The compressed air hose connected to the nozzle attachment is well protected inside the exhaust hose.

**Fan activation options**

The system can be supplied with different fan activation options such as a pressure sensor, radio control unit or manual switch.

Guide track of lightweight aluminium

Balancer

Automatic release valve

Trolley stop/shock absorber

Safety Coupling

Grip

Expandable nozzle
MagnaTrack S is an economical alternative to the HS version designed to serve emergency vehicles with a fewer runs and lower exit speeds.

MagnaTrack S has a rubber stop (instead of a hydraulic balancer) and an elastic cord instead of a balancer.

MagnaTrack S is an economical alternative to the HS version designed to serve emergency vehicles with a fewer runs and lower exit speeds.

### MAGNARAIL
The ultimate solution offering outstanding performance

### MAGNATRACK HS / S
For high-frequency/high-speed applications

- Combined trolley rail / exhaust duct of aluminium for easy snap-on mounting
- Trolley and extraction unit, with integrated balancer are made of lightweight composite
- Trolley stop/shock absorber with coiled spring hydraulic oil damper

<table>
<thead>
<tr>
<th></th>
<th>MAGNARAIL</th>
<th>MAGNATRACK HS</th>
<th>MAGNATRACK S</th>
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</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>Up to 4 vehicles at a time</td>
<td>1 vehicle per system</td>
<td>1 vehicle per system</td>
</tr>
<tr>
<td>Application</td>
<td>For reverse-in or drive-through</td>
<td>For reverse-in or drive-through</td>
<td>For reverse-in or drive-through</td>
</tr>
<tr>
<td>Max exit speed</td>
<td>25 km/h; 15 mph</td>
<td>25 km/h; 15 mph</td>
<td>15 km/h; 10 mph</td>
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<tr>
<td>Exhaust pipes</td>
<td>Low level or high level</td>
<td>Low level or high level</td>
<td>Low level</td>
</tr>
<tr>
<td>Options</td>
<td>Automatic return</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Top fan or end fan connection</td>
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### Accessories:
- Choice of fans
- Radio controlled fan operation
- Mounting plates for roll up doors
**MAGNATRACK ST**
For stations with fewer runs

**MAGNASTACK**
The reliable solution for vertical exhaust stacks

**PTS**
For stations with low frequency runs and need of interchangeability between vehicles

- Guide track of lightweight aluminium
- Trolley and extraction unit with aluminium body
- Elastic cord balancer inside the hose
- Trolley stop/shock absorber of rubber

<table>
<thead>
<tr>
<th>MAGNATRACK ST</th>
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<th>PTS</th>
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</thead>
<tbody>
<tr>
<td>1 vehicle per system</td>
<td>For reverse-in vehicles</td>
<td>For back-in or drive-through</td>
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<tr>
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<td>15 km/h; 10 mph</td>
<td>15 km/h; 10 mph</td>
</tr>
<tr>
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<td>15 km/h; 10 mph</td>
<td>15 km/h; 10 mph</td>
</tr>
<tr>
<td>Low-level</td>
<td>Vertical stacks</td>
<td>Low-level</td>
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</table>
We know what’s important when it comes to sound, safe and efficient workplaces. That’s why we also offer, besides our exhaust extraction systems, optional equipment and complete system solutions, from planning and design to installation. When required, we can provide special design assistance and technical support. After-sales service encompasses everything from emergency repairs to scheduled maintenance.

We are experts in this field, understanding and applying the latest technology when addressing new problems. Sound practical knowledge in combination with a high degree of service-mindedness is our hallmark.

Contact us and make a fresh start!
Fire stations all over the world have put their trust in Nederman

We have installed more than 100,000 extraction units in emergency stations all over the world. With more than 60 years of experience we are the pioneers in the field of fume extraction. We have marketing/sales and service organizations with local support in more than 50 countries. Impressive figures all round!
Start your next mission here!
Stop expose yourself to unnecessary risks every time the alarm goes.
Contact us today!

On our website you find information about our products, systems and solutions.
You also find facts reports about health effects of diesel exhaust risks, FAQs and lots of tips and hints.

www.nedermanfire.com

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Title ........................................................................
Station ....................................................................
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Address ................................................................
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Post code/City ........................................................
Phone .....................................................................
E-mail ......................................................................

☐ I would like to set up an appointment
☐ I would you like a budgetary proposal
☐ I would like more info ...............