

# MONOXIVENT

Source Capture Systems

## Fire House Exhaust Removal Systems

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**1-877-608-4383**

**the AX**

- **MADE IN THE USA!**
- **COMPETITIVE PRICING!**
- **8 CLEAN AIR SYSTEMS!**
- **OVER 50 YEARS OF SOURCE CAPTURE!**



### American Pride!

*The AX is manufactured in the USA, by Monoxivent.*

*Since 1953, Monoxivent has been a premier clean air solution provider.*

### Our Systems:

- AX - Pneumatic Track (AXPT)
- AX - Pneumatic Rail (AXPR)
- AX - Electromagnetic Track (AXET)
- AX - Electromagnetic Track, Festooning Hose (AXET-F)
- AX - Electromagnetic Rail (AXER)
- AX - Vertical Stack (AXVS)
- AX - Static Spring Release (AXSR)
- AX - R Series, Replacement Systems/Components (AXR)

# Overview: Emergency Vehicle Exhaust Removal Systems - the AX



Monoxivent creates smart and innovative solutions with a premier line of Emergency Vehicle Exhaust Systems. Our AX product line offers exhaust extraction systems specifically designed to meet a variety of applications. Whether you need an automatic release system, manual release system, or replacement components we can meet your requirements and fit your budget.

The AX product line includes the Pneumatic Track System (AX-PT), Pneumatic Rail System (AX-PR), Electromagnetic Track (AX-ET), Electromagnetic Rail (AX-ER), Vertical Stack System (AX-VS), and Static Release (AX-SR). Monoxivent also offers a cost-effective solution with the Stationary Mechanical Release System (SMR). The AX-R Series offers replacement systems and components for existing pneumatic installations. The AX is designed and manufactured to remove emergency vehicle exhaust fumes out of vehicle bays safely and efficiently. The removal of these toxic fumes help to preserve the air quality throughout the firehouse. The system is easy to use and low maintenance. The versatility of the AX ensures that all fire stations and vehicles are accommodated. Monoxivent offers the flexibility to adapt to any size tailpipe and vehicle. AX systems are compliant with the International Building Code, the International Mechanical Code, NFPA 1500, and OSHA 3112.



The AXPT installed system, with high visibility red/yellow hose assembly and signature Monoxivent Safety Boot.

## The AX, Pneumatic Track (AX-PT)

The Pneumatic Track system incorporates a simplistic design and operating logic. The Pneumatic Track system is one of the more prevalent designs in firehouses today. A heavy-duty track is used to guide the hose-drop assembly parallel to the vehicle. The hose-drop assembly consists of a balancer, steel-lifting elbow, high-temperature/high-visibility hose, safety disconnect, and pneumatic adapter. This assembly travels along the track as the vehicle departs the bay.

## The AX, Pneumatic Rail (AX-PR)

The Pneumatic Rail features a unique ducting mechanism. The rail itself, acts as the exhaust duct. The AX-PR also incorporates state-of-the-art pneumatics and controls. Within the exhausting rail, a track system guides the hose-drop assembly, which is parallel to the vehicle. The hose-drop assembly consists of a balancer, steel-lifting elbow, high-temperature/high-visibility hose, safety disconnect, and pneumatic adapter. This assembly travels along the track as the vehicle departs the bay.

This system also features an enhanced automatic start logic.

The pneumatic adapter is a distinguishing feature for the AX-PT/AX-PR. The adapter attaches and inflates to the vehicle exhaust pipe, creating a complete seal to capture all fumes. No manual intervention is required.



Lower Hose Assembly - featuring 1000-degree internal hose and heat-resistant ANSI caution cover. (Used on AXPT/AXPR)



Track/Balancer/Hose Assembly - shown on the AXPT system.



Internal Safety Cable- used with AXPT/AXPR systems.



Monoxivent's Exhausting Rail/Trolley - exhausts toxic fumes through the plenum and to the main duct system. The trolley features a pressure switch, roller contactor, and stabilizing wheels/rollers.

**The AX, Vertical Stack (AX-VS)**

The AX-VS was designed to cater towards vehicles with vertical exhaust pipes. The system consists of an exhausting rail, a stack receptor, and chrome-plated vertical stack nozzle. A track/trolley system also is included to compensate for any off-center parking of the vehicle. The system allows for 32" of lateral movement in the exhausting rail. The AX-VS is activated by a pressure sensor, which automatically starts the exhaust fan. The system automatically shuts off with a timer/temperature mechanism. No manual intervention is required.



AXVS

**The AX, Static Spring Release (AX-SR)**

The AX-SR is the most cost effective system on the market for 100% source capture of toxic emergency vehicle exhaust fumes. The AX-SR incorporates simplistic design and operating logic. No other system, like it, exists on the market today! The AX-SR utilizes a Static Spring Release Nozzle and Heavy-Duty Track to allow complete source capture of fumes. No special air lines/pneumatics, electronics, magnets, or special installation requirements are required.



AXVS

**The AX, R Series (Replacement System)**

The AX R-Series saves money and improves quality by replacing pneumatic exhaust removal systems in fire houses. The replacement components include: flex hose, lifting elbow, pneumatic adapter assembly, upgraded trolley, pneumatic air lines, safety cable, and more! The R-Series allows fire departments to retain, if functional, tracks, compressors, fans, air distribution systems, and control panels.



AXSR - Tailpipe Adapter

The R-Series is offered in two formats: as a Replacement Upgrade or as a Standard Replacement. The R-Series may be used on existing Plymovent systems or other similar pneumatic systems.

**The AX, Electromagnetic Track/Rail/Track-Festooning Systems**

The AX Electromagnetic Systems are offered as a Track (AXET), Rail (AXER), or Track-Festooning configuration. These systems utilize electromagnetic attachment. The system does not require the tailpipe to be used as a pulling force, instead the magnet attaches to a permanently affixed puck on the side of the vehicle. These systems have automatic start and disconnect. The hose-drop assembly consists of a balancer, steel-lifting elbow, high-temperature/high-visibility hose, safety disconnect, and swivel joint with electromagnet and nozzle. The track system guides the assembly and utilizes a duct adapter to transfer the toxic fumes, while the rail systems utilize a plenum that connects to a main duct to transfer fumes. The festooning system is an option on track systems, to eliminate excess hose loops.



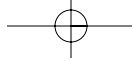
AXER



AXPT



AXSR



## *Full Satisfaction Guarantee!*

MONOXIVENT provides the end user with quality and energy efficient vehicle exhaust removal equipment.

If, for any reason, the end user is not completely satisfied with our products or services, we will do everything within our ability to achieve their total satisfaction.

## *The BEST Exhaust Removal Systems on the Market & Made In the USA!*

- Firefighter Friendly
- Durable, Reliable, and Quality Built
- Cost Effective
- Safety Compliant  
OSHA, NIOSH
- Easy & Simple Installation
- Manufactured with Precision CNC Controlled Equipment by Highly Skilled Workers
- Available with Custom Designs and Configurations



Monoxivent's 50,000-sq. foot manufacturing and office facilities, along the banks of the Mississippi River in Rock Island, IL.

**MONOXIVENT**  
Source Capture Systems

*Clean Air Systems Since 1953!*

1306 MILL ST., ROCK ISLAND, IL 61201  
[www.monoxivent.com](http://www.monoxivent.com)

**877-608-4383**

Represented by:

**MONOXIVENT**

Monoxivent offers a complete line of source capture equipment to facilitate a full-range of applications in reference to vehicle and welding/fume exhaust elimination. Monoxivent also offers an extensive range of custom fabrication capabilities. Monoxivent is served by a highly-trained nation-wide network of representatives.

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