



Underground Systems  
Self Storing, Vehicle  
Extraction

**TECHNICAL  
INFORMATION**

PROJECT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 ARCHITECT: \_\_\_\_\_  
 ENGINEER: \_\_\_\_\_  
 SALES ENGINEER: \_\_\_\_\_  
 DATE: \_\_\_\_\_

**www.monoxivent.com**

**info@monoxivent.com**

**309-794-1000**

**Page: UES-1**

**UNDERGROUND VEHICLE EXTRACTION SYSTEMS**

The following section will familiarize you with the standard underground self storing vehicle exhaust extraction systems by Monoxivent.

For many years the underground system has been the most popular means of removing vehicle exhaust fumes. The following information is based on the industry standard of the floor outlet, saddle or extension tunnel and the tunnel adapter sleeve.

The underground system is designed to allow for either a self-storing or plug-in of the flex hose from the floor outlet which completes the connection from the main duct system to the vehicle tailpipe.

The current market demands a "convoluted no crush type hose" to be used with the underground system. The series 3000 hose serves this purpose. The hose offers a design allowing people and vehicles to walk or drive over the hose. The hose will rebound to its original shape if this occurs.

In past years, the underground system used metal interlocking hose. The metal hose lacked a tight bend radius and flexibility. However, it did offer a smooth and easy sliding into and out of the floor outlet and duct. Another big disadvantage to the metal hose was the simple fact that if the hose was driven over, the hose had to be replaced.

The automotive market using the underground system needs to understand the pros and cons to both rubber no crush hose and metal hose. The rubber no crush hose offers a tight bend radius, flexibility, and a return to shape upon compression. Rubber hose does not slide easily and does not have any type of helix or wall stiffener, thus the rubber hose is not easy to slide back into the floor outlet. The metal hose offers easy storing ability, but does not offer flexibility, easy bending, or the ability to be used again after the hose has been driven over.

Monoxivent's experience has found that the demand for the rubber hose is greater than for the metal hose. The end user usually has had experience with the storing concerns of rubber hose, but takes the other advantages rubber hose offers over the metal hose. We suggest the end user be made aware of the pros and cons of both types of hose.