



## **Exhaust Extraction Systems**

### **Direct capture exhaust system**

Our ventilation package for dynamometer test rooms includes severe duty exhaust fans, heavy duty low frequency exhaust silencer stacks, an aerodynamic inlet grill, acoustical inlet plenum, 700°F flexible exhaust hoses, and all related components. All available systems can be customized to your application requirements.

### **DynoVent Ventilation Systems**

Our dynamometer room ventilation systems are designed to provide a net air change of 8 to 10 times per minute, while maintaining the acoustical integrity of the dyno room. These room systems can be configured for below-ground, above-ground, and overhead applications.

### **Motorcycle and ATV Dynamometer Test Rooms (Up to 250 HP):**

- Dual interior rear stack exhaust system
- Front floor mounted fresh air inlet plenum with fixed wall grill
- Two 30" diameter x 5HP roof mounted exhaust fans with mounting transitions
- 700°F premium grade flexible exhaust hose kit, adapter ends and fittings

### **Engine Dynamometer Test Rooms (Up to 1500 HP):**

- Single interior stack exhaust system
- Roof mounted fresh air inlet plenum with fixed ceiling grill
- Single roof mounted exhaust fan (size and HP varies with room size)
- Single carburetor intake drop

## **Automotive Dynamometer Test Rooms (Up to 1500 HP):**

- Dual exterior roof mounted stack exhaust system
- Front floor mounted fresh air inlet plenum with fixed wall grill
- Two 36" diameter x 5HP roof mounted exhaust
- Fans with mounting transitions
- 700°F premium grade flexible exhaust hose
- Kit, adapter ends and fittings

## **Custom HVAC Systems Above 1500 HP**

In addition to the above standard systems, we custom build systems that are factory-tested and documented to meet your performance specifications. Our designs include exhaust capture and removal, fume extraction and room make-up air, and heated or cooled air with positive or negative test cell controlled pressure. We also design our systems to enable communication and interaction between multiple types of building automation systems, for optimized operation and efficiency.

## **Available Options:**

- Space-Saver Inlet Plenums
- Low Overhead Exhaust & Inlet Configurations
- Outdoor Mounted Exhaust Fans
- Increased Vent Capacity for Higher HP Applications

## **Systems can be installed for:**

- Technical schools
- Universities
- Municipalities
- OEM's

- Speed shops
- Rebuilders, etc.

**Typical applications include:**

- OTR trucks (class 8)
- Automobiles
- Motorcycles
- Transit and tour buses
- Farm machinery
- Heavy off-road equipment for industrial, construction and military uses
- Stationary generators; etc.

No system offers better protection for the health of personnel working in maintenance facilities and garages than a Phoenix Dynamometer system. With proper use, these systems can also help reduce owner liability, and avoid EPA hassles.