



Exhaust Evacuation and HVAC Systems

HVAC Controller Options

Phoenix Dynamometer Systems LLC offers two different HVAC controller options:

- Stand alone PLC controlled
- Fully integrated within the data acquisition and control system

Direct Capture Exhaust System

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

The following system installation options are available:

- Above Ground
- Below Ground
- Overhead

DynoVent Ventilation System

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.

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

Available Options

- Space-Saver Inlet Plenums
- Low Overhead Exhaust & Inlet Configurations

- Outdoor Mounted Exhaust Fans
- Increased Vent Capacity for Higher HP Applications

Custom HVAC Systems Above 1500 HP

When job requirements go beyond the wide range of capability of our standard products, Phoenix Dynamometer's Systems LLC engineers meet your needs by designing and building custom-built systems that are factory-tested and documented to meet your performance specifications.

Exhaust capture and removal, fume extraction and room make-up air either heated or cooled with positive or negative test cell controlled pressure are a few of the many requirements of a modern test cell.

We design our systems to enable communication and interaction between multiple types of building automation systems for optimized operation and maximum efficiency.