

INC Dyno Shell™ Motorcycle Test Rooms

Professional Motorcycle, Trike & ATV Ventilation Enclosures for the PowerSports Industry



- Cost-effective solution
- Controls ventilation, removes exhaust & shields noise
- Rugged modular steel panel construction
- Safe silenced ventilation systems
- Easily installed
- Predictable project schedule and cost
- Customization options available





INC Dyno Shell™ Motorcycle Ventilation Enclosures

Professional Motorcycle, Trike & ATV Performance Ventilation Enclosures for the PowerSports Industry

The INC Dyno Shell by IAC Acoustics is a cost-effective product that meets your budget and provides a quality test environment. A pre-engineered and manufactured INC Dyno Shell is much less costly and performs better than any custom designed, contractor or self-built room using conventional building materials. This design can be upgraded for higher acoustical performance at any time.

IAC Acoustics offers a new complete line of affordable and functional INC Dyno Shell room for the PowerSports & Product Testing Market that will host any dynamometer set up. The design of the new line IAC Dyno Shell room delivers a reliable proper ventilation system and has the option to contain noise within the space if the end user needs to comply to noise regulation codes. In addition, The INC Dyno Shell Test Rooms are easy to install, move, change and modify due to their modular design and extremely light construction.

INC Dyno Shell Benefits

- Provides a controlled testing environment
- Provides a safe workspace for technicians
- Eliminates dangerous fumes
- Protects dynamometer equipment by providing cooling air flow through aerodynamically designed inlet plenum
- No construction hassle or dust and effortless assembly
- Predictable costs help to stay on budget
- Fast and predictable project completion allows for accurate & reliable business planning

Authorized Vendor in Harley-Davidson Tool & Equipment Program

IAC Acoustics is the authorized dynamometer room vendor in the Harley-Davidson Tool & Equipment Program and a proud partner of Motorcycle Mechanics Institute, Ranken Technical College, North Eastern Institute of Technology and HorsePower TV produced by RTM Productions.

Standard Included Features & Specifications

- Lightweight hollow panel construction (STC-27 with a solid steel exterior)
- Interior ceiling height of 8'-0" or 9'-0" (adequate for both pit & floor mounted dynamometers)
- Front floor mounted fresh air inlet plenum with fixed wall grill
- One or two mounted exhaust fans
- One STC-33 single leaf swing door (4' wide x 7' high)
- One 30" wide x 42" high viewing window that can be located conveniently around the room
- Detailed assembly drawing instructions

Popular Accessories & Options

- Powerful SuperVent® ventilation system with dual interior exhaust stacks
- Larger double swing entry door (6' or 7' wide)
- Additional 30" wide viewing windows
- Additional acoustic panel kit (includes QFA panels, grommets, hooks, stick pins & caps)
- Pre-wired modular lighting & electric package
- Factory baked powder coat vibrant color finishes
- Heavy duty adjustable exhaust hose stands
- Hi-temp exhaust hose kit
- Interlocking full rubber floor system

INC Dyno Shell Features

Pre-engineered rooms readily available in kit form

Easy to install — light construction & no dust

Rugged steel modular hollow panel construction

Shell Panels can be customized with acoustic absorption fill — now or later

Provides optional soft panel add-on that ensures sound absorbing ratings up to NRC 1.05 — creates optional noise containing environment within the space

Modular design allows for the addition of doors & windows

Components of like size & type are fully interchangeable & replaceable

One-piece panel joiners, heavy gauge steel base channels, corner trim and finish. Flashings provide easy assembly and structural rigidity.

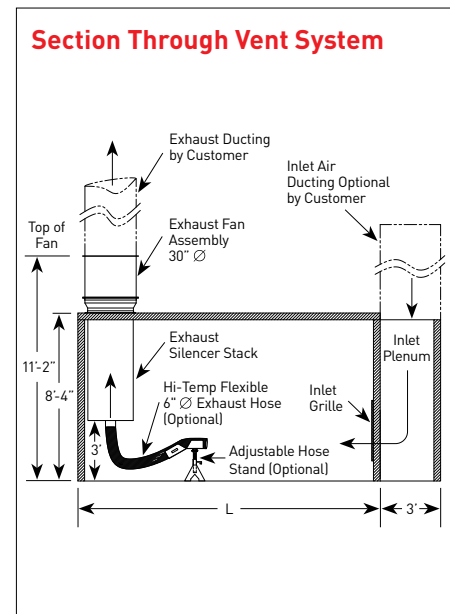
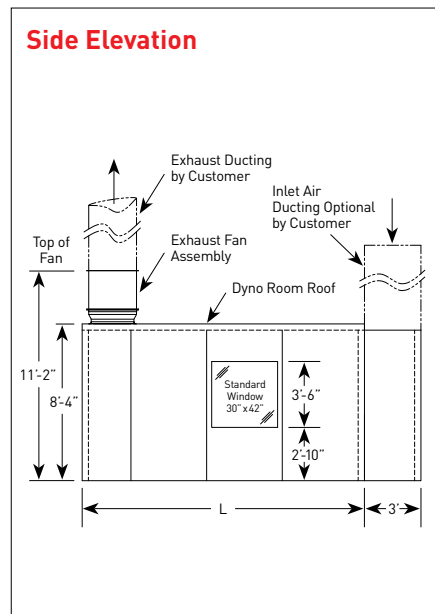
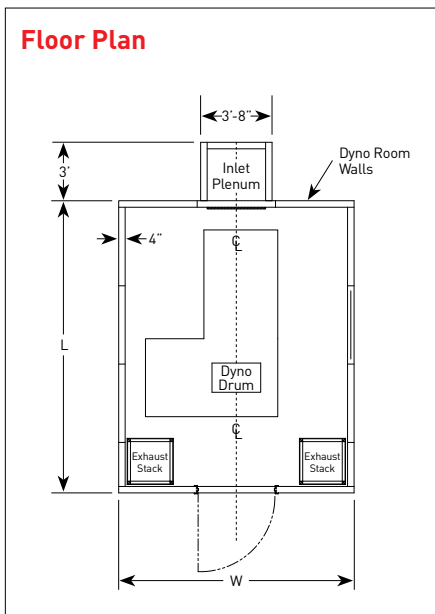
All components fabricated from galvanized steel — non-flammable & resistant to rust

Custom vibrant color options available

Layouts & Dimensions

Typical layouts and dimensions for standard INC Dyno Shell Test Rooms are shown below. For a complete set of room plans and specifications, contact IAC Acoustics.

Room Size	W	L	H	1-Pane Window	Additional Windows	Door	6' Double Door	Shell Panel Fill
12' x 10'	12'	10'	8' or 9'	30" x 42"	AVAILABLE	4' x 7'	AVAILABLE	AVAILABLE
12' x 15'	12'	15'	8' or 9'	30" x 42"	AVAILABLE	4' x 7'	AVAILABLE	AVAILABLE
12' x 18'	12'	18'	8' or 9'	30" x 42"	AVAILABLE	4' x 7'	AVAILABLE	AVAILABLE



Technicians & Engines Can Breathe Easy

A Dyno Test Room is only as effective as its ventilation system. Our optional silenced ventilation system guarantees the removal of heat, carbon monoxide and other combustion & exhaust gases while providing fresh air for engine consumption and operator comfort — without sacrificing any noise reduction!

Even when making long dyno runs with a load applying device, our silenced ventilation system with our unique flowthru design and exhaust source capture reduces harmful carbon monoxide levels to as low as 4 ppm!



Silenced Ventilation System

The silenced ventilation system is a flowthru design specifically configured to provide the high performance ventilation necessary for dynamometer testing. This requires making a complete air change inside the dyno room 8-10 times per minute or approximately one complete air change every 6-8 seconds while maintaining an inlet air velocity of approximately 2150 FPM.

The silenced ventilation system works by drawing engine exhaust gases and heat out of the room through our unique PowerFlow[®] silenced exhaust stacks powered by roof-mounted severe duty exhaust fans. Fresh combustion and make-up air are drawn into the room through our aerodynamically designed inlet plenum. The system is inherently self-balancing and sized to operate under a slight negative static pressure to prevent exhaust gas leakage.



Please note that our vent systems require 208/230/460 volt 3-phase power. 120V single phase systems are available as a purchase option for some applications. You must duct the exhaust fans out of your facility. Inlet air may be drawn from shop ambient or ducted to the exterior of your building. All ductwork beyond the dyno room is to be provided by others.



Check out the
INC Dyno Shell
video here!

Installation

INC Dyno Shell Rooms are shipped in modular kit form to be assembled on site by you or your local contractor. Our modular construction is specifically designed to be installed properly and easily with no previous experience. Assembly is very simple and can be done with a two-person crew using ordinary hand tools in approximately 1-2 days. We have carefully designed our system to be user-installed and each room is shipped with detailed instructions and drawings — technical help is always available when needed.

INC Dyno Shell Room Installation Process

- 1 Anchor base channel to your shop floor
- 2 Set and join wall panels, door & window panels
- 3 Assemble the roof & trim

IAC installation services are available upon request



INC Dyno Shell by IAC Acoustics

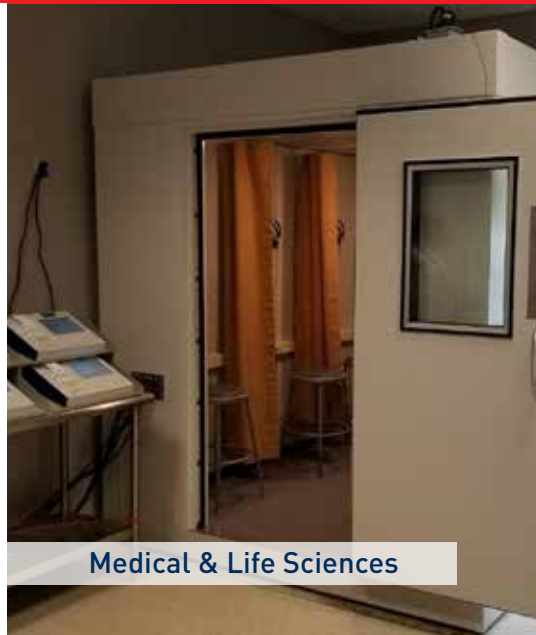
A cost-effective solution that provides predictable performance, a reliable test environment and a high-performance ventilation system.

Making the World a Quieter Place

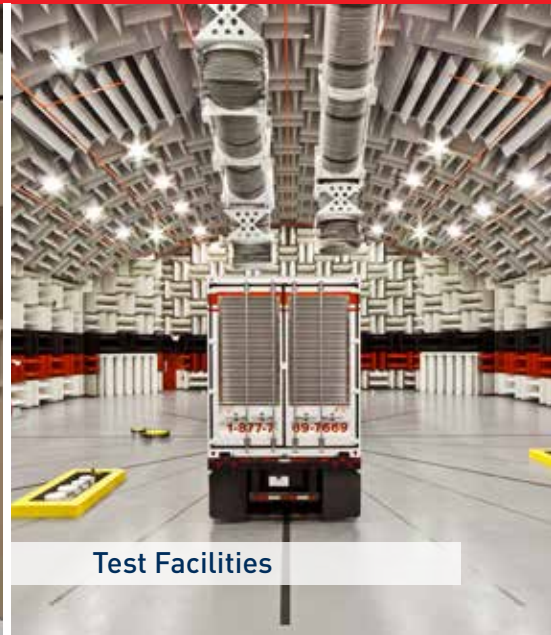
Markets Served by IAC Acoustics



Architectural



Medical & Life Sciences



Test Facilities



Industrial



Dyno Test Rooms



HVAC