RBI

River Bend Industries, LLC

Bunkers Built to Stand Behind

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Pressure Testing Enclosures

River Bend Industries, (RBI) is an industry leader in pressure testing enclosures. We custom design, engineer and build testing enclosures to suit your specific testing parameters and needs. RBI conducts testing enclosure risk assessments and uses a proprietary process to design and build custom pressure testing enclosures. We focus heavily on your process-flow and layout, then design our enclosures to enhance your production, while helping to ensure a safe working environment. Each testing enclosure is certified and built to specific requirements. Our goal is to provide the safest working environment possible for your pressure testing needs.

Safety, Productivity, and Best Use of Shop Space

Our enclosures are engineer stamped and guaranteed. SmartBox™ Technology integrates optional control systems to protect against human error and make the enclosures and testing process easy to manage. We use internally designed and engineered heavy-duty blast hinges to make the enclosure stronger and doors easy to open. Each enclosure is designed with safety in mind to keep your employees as safe as possible.

Each enclosure is designed to be modular. Special engineering attention is given to creating an enclosure that will contain the possible projectile sizes at the maximum pressure to be tested, while keeping a modular design. This modular design allows the enclosure to be relocated to a different facility, or added to if needed. In addition, our open top enclosures can be lined with 4”x4” hardwood boards or plywood to mitigate ricochet as an option.

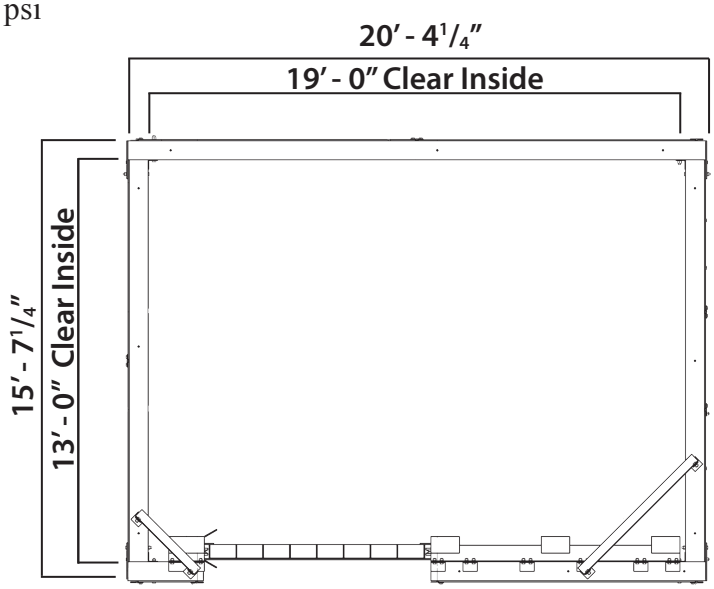
The enclosures featured here are pre-engineered enclosures. There are multiple options available. Please refer to the sections on Controls, Accessories, and Options to select items that best fit your needs. Custom enclosures are also available. Please contact us at 1 855.703.2758 for more information.

10,000 psi

Standard 20’ L X 15’W X 10’ H open top - 10,000 psi

Model # RBI-002

- Maximum testing pressure (Hydro) - 10,000 psi
- Two sliding doors
- One 7.5’ equipment door
- One 3’ sliding man door (side)
- Top bracing system
- Plywood lining
- Push-button controls
- Door and lock sensors

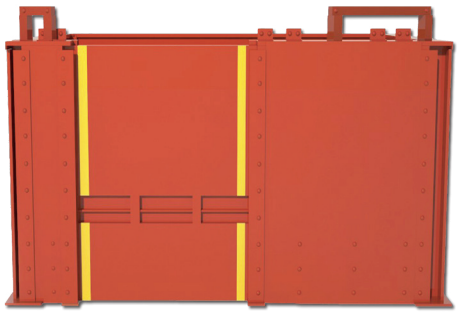


Top View

This testing enclosure is designed to maximize your shop space and increase productivity, while keeping operators safe. This enclosure has 5/8” thick steel walls and top bracing system. This functional design features a 7.5’ air-operated sliding door, and a 3’ sliding man door. Sliding doors keep swinging doors out of the way of isles or other operations. This enclosure can be configured with several options:

- PLC control options
- Camera system and DVR
- Drip pan
- Closed top with crane slot

*Enclosures shown here are standard sizes and rated for specific testing media, testing pressure, and projectile sizes. Custom configurations, sizes, and testing needs are always available.



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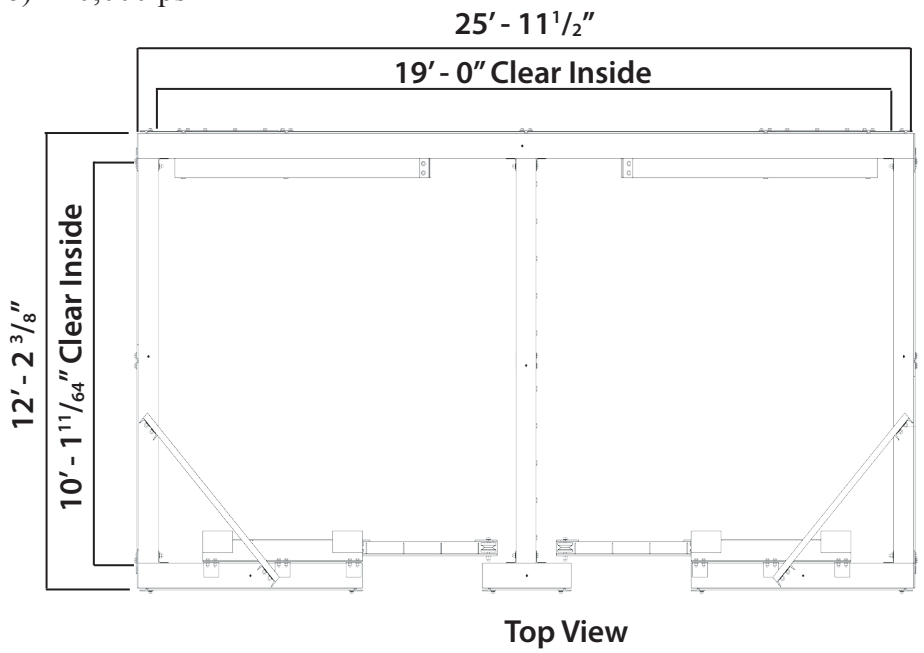
10,000 psi

Double Cell 26' L X 13'W X 8' H - 10,000 psi

Model # RBI-026

- Maximum testing pressure (Hydro) - 10,000 psi
- Two 13' x 13' test cells
- Two 4' sliding doors (front)
- Two 3' sliding man doors (back)
- Top bracing system
- Plywood lining
- Push-button controls
- Door and lock sensors



This double cell testing enclosure is designed to maximize your shop space and increase productivity, while keeping operators safe. This enclosure can be configured with several options:

- Center wall opening with swing doors
- PLC control options
- Camera system and DVR
- Drip pan
- Closed top with crane slot

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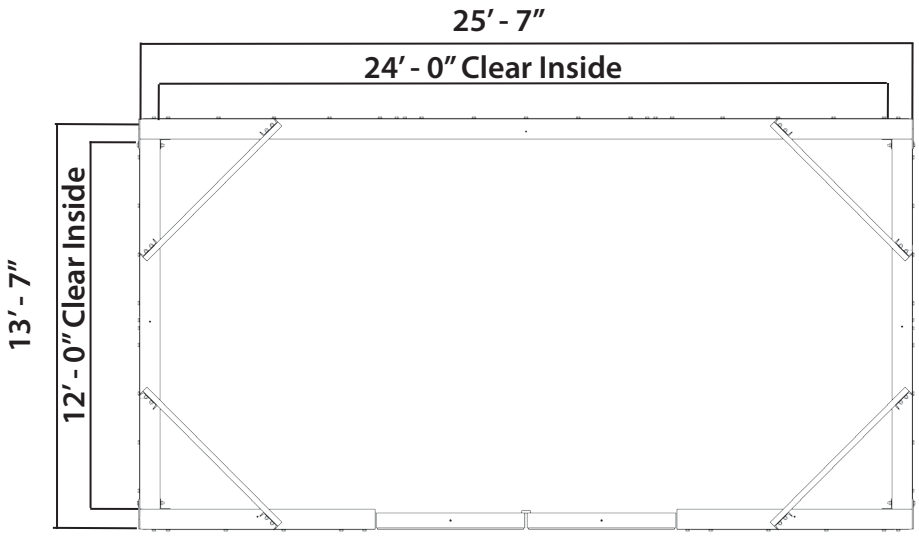
10,000 psi

26’ L X 14’W X 10’ H - 10,000 psi

Model # RBI-036

- Maximum testing pressure (Hydro) - 10,000 psi
- One 10’ double swing door
- Top bracing system
- 85,000 lb. rated blast hinges
- Plywood lining
- Manual door locks



Top View

This enclosure is designed for large jobs. The double door with 10’ opening allows for easy equipment loading. This enclosure can be configured with several options:

- Simple, Push-button, or PLC control options
- Camera system and DVR
- Pneumatic locks
- Door and lock sensors
- Closed top with crane slot

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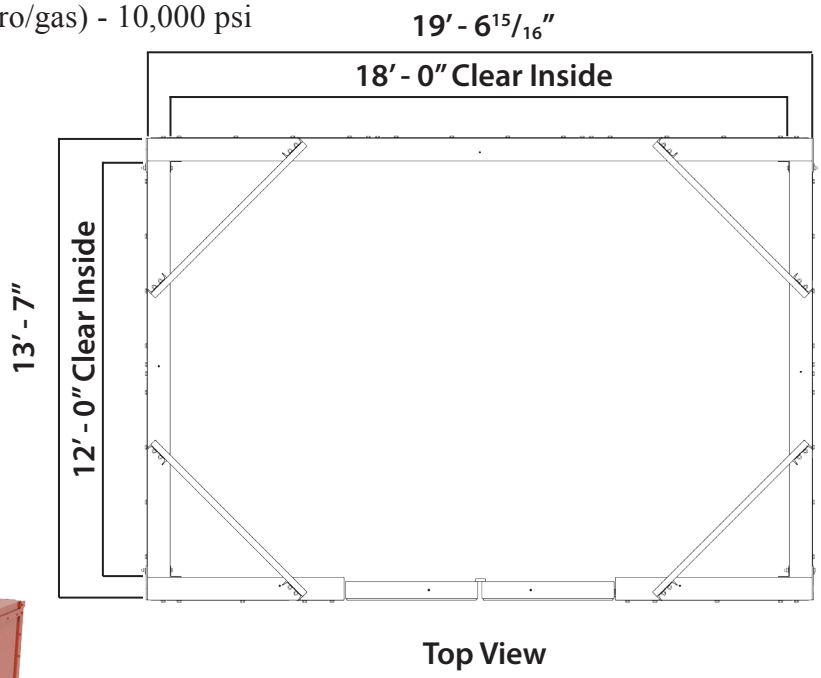
10,000 psi

20' L X 14'W X 10' H - 10,000 psi Hydro or Gas

Model # RBI-038

- Maximum testing pressure (Hydro/gas) - 10,000 psi
- One 8' double swing door
- Top bracing system
- 85,000 lb. rated blast hinges
- Plywood lining
- Manual door locks



Top View

This enclosure is designed for large jobs. The double door with 8 ft opening allows for easy equipment loading. This enclosure can be configured with several options:

- Simple, Push-button, or PLC control options
- Camera system and DVR
- Pneumatic locks
- Door and lock sensors
- Closed top with crane slot

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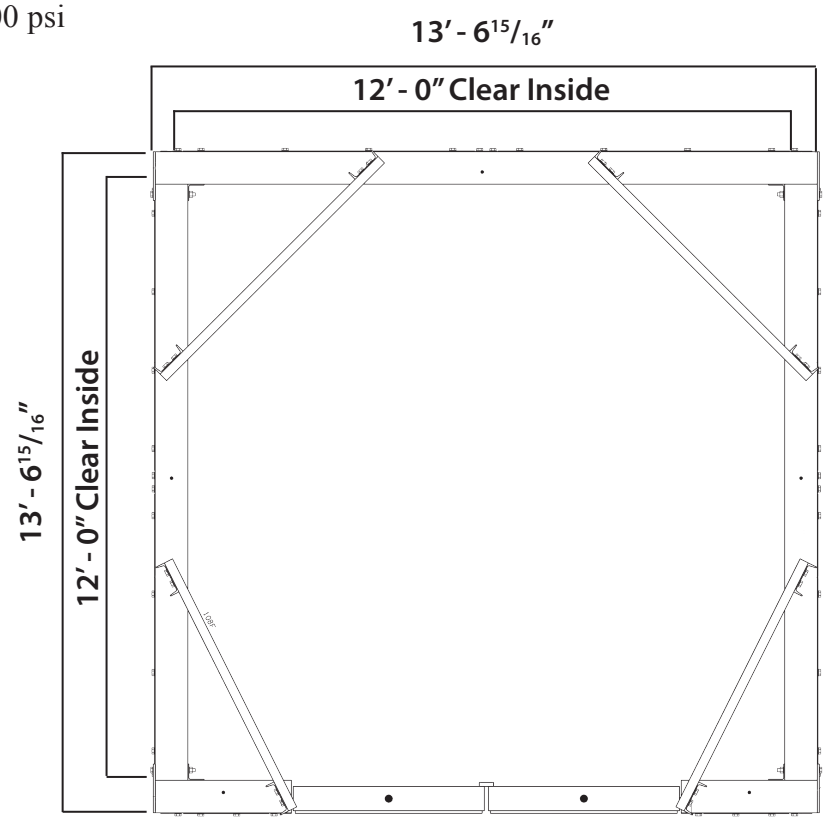
10,000 psi

14’ L X 14’W X 8’ H - 10,000 psi

Model # RBI-049

- Maximum testing pressure (Hydro) - 10,000 psi
- One 8’ double swing door
- Top bracing system
- 85,000 lb. rated blast hinges
- Plywood lining
- Manual door locks



Top View

This enclosure features an 8’ double door opening to allow for easy equipment loading. This enclosure can be configured with several options:

- Simple, Push-button, or PLC control options
- Camera system and DVR
- Pneumatic locks
- Door and lock sensors
- Closed top with crane slot

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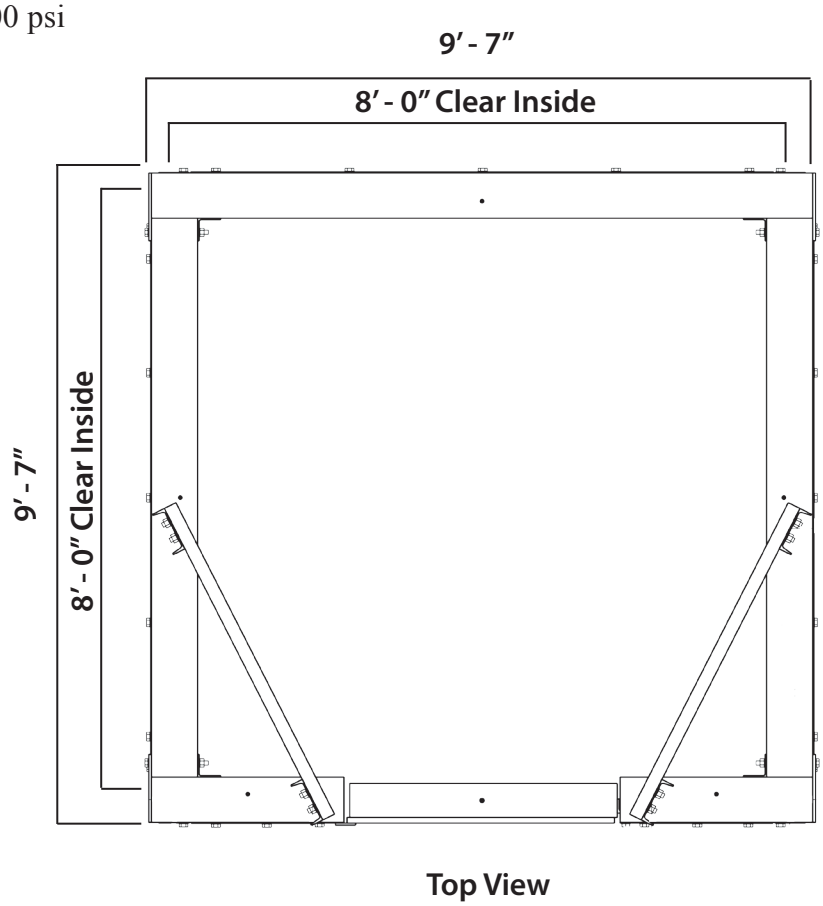
15,000 psi

10’ L X 10’W X 8’ H - 15,000 psi

Model # RBI-037

- Maximum testing pressure (Hydro) - 15,000 psi
- Single 4’ man door
- Top bracing system
- 85,000 lb. rated blast hinges
- 4”x4” hardwood lining
- Manual door locks



This enclosure is designed for limited space where higher pressure testing is needed. This enclosure can be configured with several options:

- Simple, Push-button, or PLC control options
- Camera system and DVR
- Pneumatic locks
- Door and lock sensors
- Closed top with crane slot

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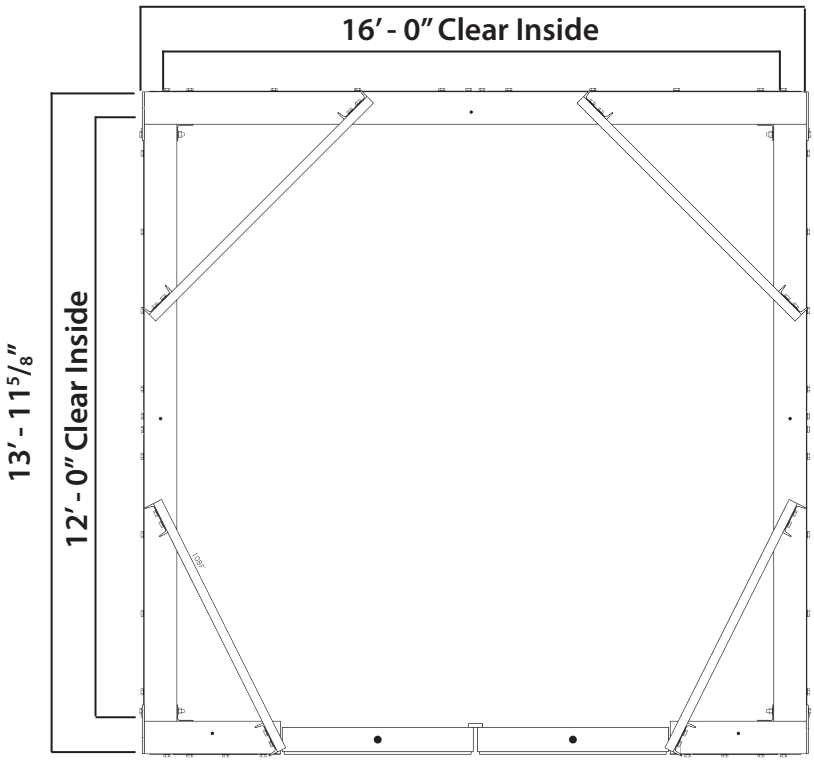
14' L X 18'W X 12' H open top - 30,000 psi Hydro/Gas Enclosure

Model # RBI-047

- Maximum testing pressure - 30,000 psi
- Double 4' swing door
- Top bracing system
- 85,000 lb. rated blast hinges
- 4"x4" lining
- Manual door locks



Top View

This testing enclosure is designed for high-pressure hydro or gas testing. This enclosure can be configured with several options:

- Simple, Push-button, or PLC control options
- Camera system and DVR
- Pneumatic locks
- Door and lock sensors
- Closed top with crane slot

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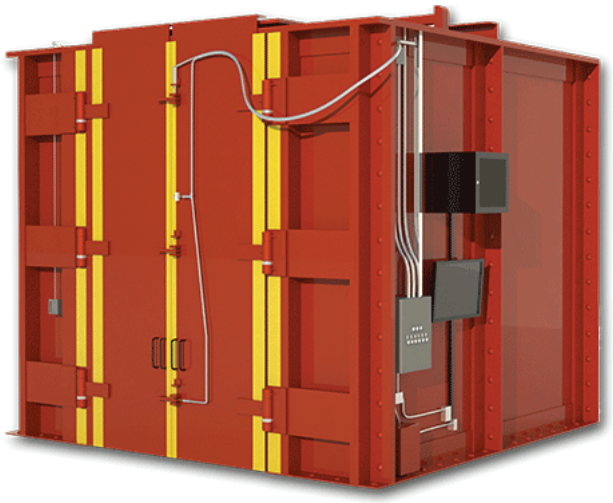
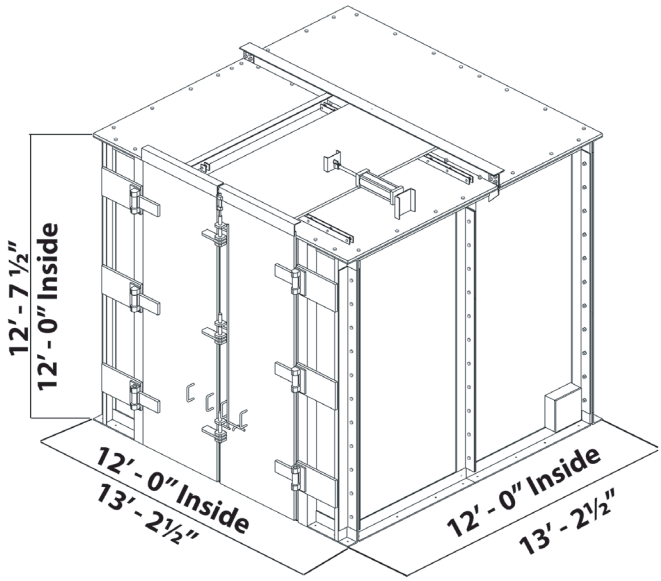
30,000 psi

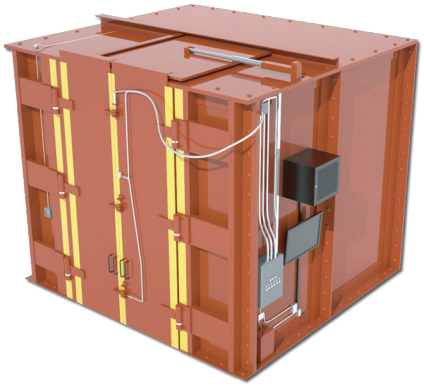
Closed Top 12′ L X 12′W X 14′ H - 30,000 psi Hydro/Gas Enclosure Model # RBI-017

- Maximum testing pressure - 30,000 psi
- Double 4’ swing door
- Closed top with crane slot
- 85,000 lb. rated blast hinges
- 4”x4” lining
- Manual door locks
- Push-button controls



Shown with optional controls and video equipment





This testing enclosure is designed for large jobs where high-pressure hydro or gas testing will be done. Features a 3’ pneumatic top opening for over-head crane loading. This enclosure can be configured with several options:

- PLC control options
- Camera system and DVR
- Pneumatic locks
- Door and lock sensors

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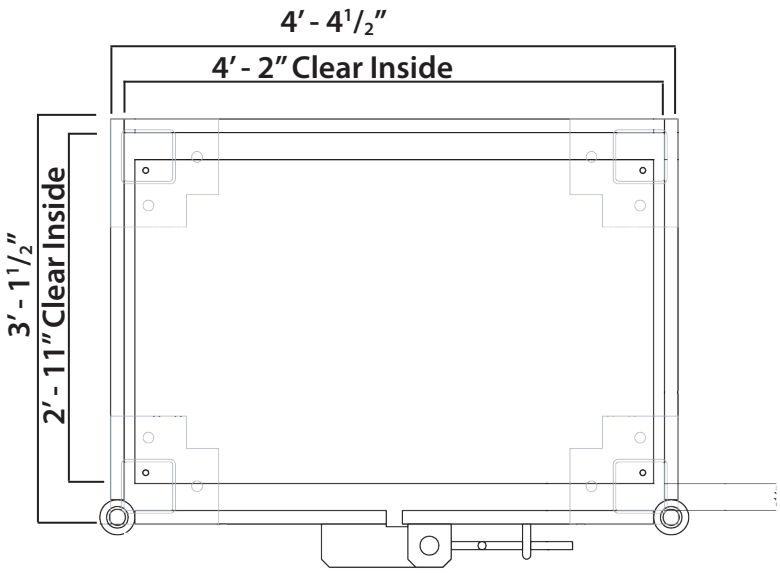
30,000 psi

4′ W X 3′D Test Bench Enclosure - 40,000 psi

Model # RBI-TB

- Maximum testing pressure - 40,000 psi
- Double swing door
- Closed top with crane slot



Top View

This testing enclosure is designed for high-pressure testing of small items. This enclosure can be configured with several options:

- Simple, Push-button, or PLC control options
- Camera system and DVR
- Pneumatic locks
- Door and lock sensors

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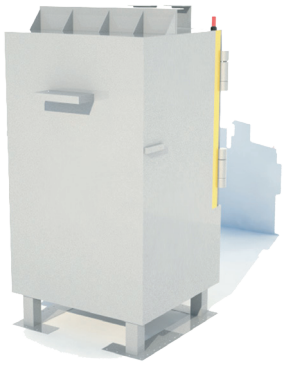


Control Options

Our Smart Box™ design and technology makes our testing enclosures the safest and most functional enclosures available. We incoroporate specialized features to create a work and testing environment that is not only the safest possible, but functional and efficient for optimum throughput. These features include door and lock sensors, air pressure safety switches, IP video cameras, DVR systems, and pneumatic driven doors and locks. There are three main types of controls which can be configured in various ways depending on your needs. All control systems are designed to sense that all doors are properly closed and locked. The system will only provide testing pressure once all safety measures are met. Other control features are available depending on your specific criteria and needs.

Simple Controls

The simple controls are designed to ensure all doors are closed and locked before pressure can be supplied for testing. This system includes:

- 2-Sensor System
- Ansel Valve
- Flashing Indicator Light

Push-Button Controls

The Push-button is a multiple sensor system and is designed to ensure all doors are closed and locked before pressure can be made for testing. Controls up to two pneumatic doors with locks or manual doors with pneumatic locks. This system includes:

- Multiple Sensors
- Air Cylinders
- Pneumatic Controls
- Ansel Valve
- Flashing Indicator Light
- Relay Logic Override Switch

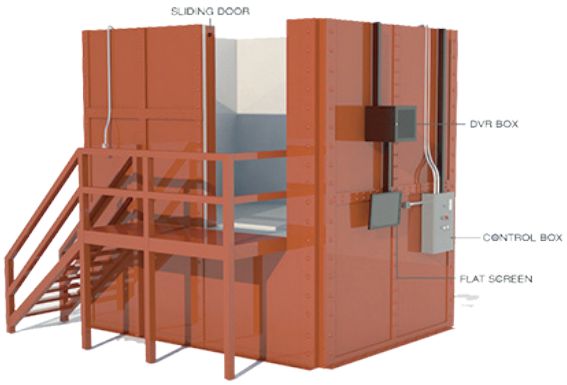
PLC Controls

The Programmable Logic Controls (PLC) are for more automated systems that require multiple controls. The system is designed to control multiple doors and pneumatic locks.

- Multiple Sensors
- Air Cylinders
- Pneumatic Controls
- Ansel Valve
- Flashing Indicator Light
- Override Switch

Accessories and Options

RBI Pressure testing enclosures come standard with many safety and functional features such as blast hinges, top bracing systems, proximity door and lock sensors, and more. In addition, there are several optional items that are commonly added. These options are designed to meet your specific testing needs.

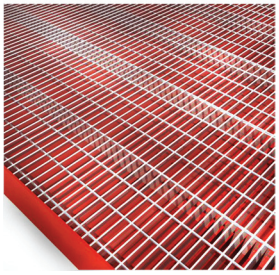


Video/DVR

High-resolution PTZ cameras and DVR system enable operators to view pressure tests without putting themselves in harm's way. Video systems are optional and can be configured to meet your needs. Typical systems include:

- Internally mounted PTZ cameras
- Flat screen monitors
- IP accessible DVR

Drain Pan

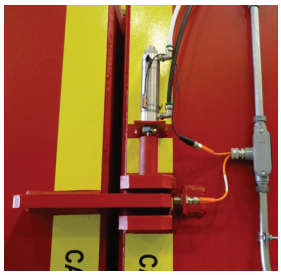


The drain pan is used for liquid test media collection and storage. Our pan comes with 1" steel grating with supports that allows flow of liquid throughout the pan. The pan comes with two 2" ports that can be used to drain the pan or used in conjunction with a filtration system.

Z.E.U.S.™

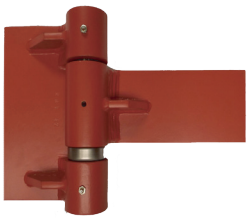
The Zero Entry Universal Sprayer and Camera System (Z.E.U.S.) is designed for gas or air leak observations. It includes two extendable arms with two flexible spray hoses on each arm. The Z.E.U.S. system includes a control box and reservoir that mounts outside of the enclosure. The camera system includes two arms that allow for the camera position to be moved both vertically and horizontally. Also included with camera system is a 24 volt L.E.D. light that mounts to the camera arm. The camera arms and sprayer arms both extend up to 71" and rotate 350° .

Door and Lock Sensors



Door and lock sensors are optional on some enclosures. These proximity sensors ensure the doors are closed and the locks are in place before pressure can be supplied to the test.

Blast Hinge



RBI custom made blast hinges are made available for purchase. Our engineer stamped hinges come in two sizes: a 25,000 lb and an 85,000 lb rated hinge. These hinges are designed as blast resistant hinges for pressure testing enclosures, or any doors that require heavy duty hinges. Our hinges are designed with thrust bearings to provide easy movement while also providing strength and durability.

Pressure Testing Enclosure Features

Custom Blast Hinges

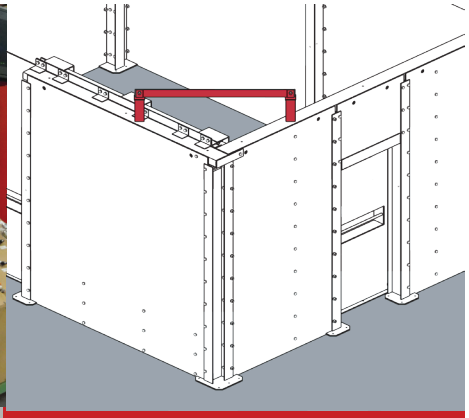
At RBI, we manufacture our own engineer certified and stamped, blast resistant hinges for superior strength and ease of use. Any system is only as strong as its weakest point. In many cases, that is the door hinges. Standard butt hinges or pin hinges are often the weakest point, and can make the door too difficult to open and close. Our hinges are specifically engineered to actually make the enclosure stronger, and—using specially designed bearings—make our large strong doors as easy to open as a home refrigerator.

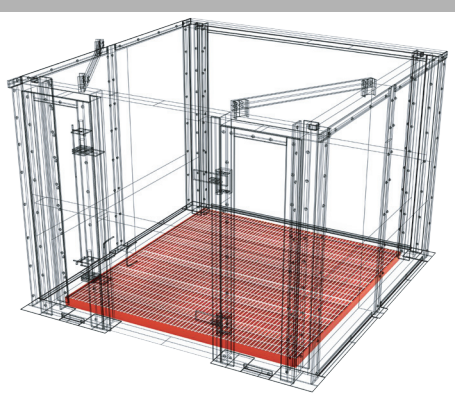
Door and Lock Sensors

As part of our Smart Box Safety Control System, we provide safety door and lock proximity sensors with our enclosures. These sensors keep everyone around the enclosure safe by sensing if the doors are closed and locked. The system will not allow a test to be conducted unless all sensors are in the appropriate state. This prevents accidental testing when someone is inside the enclosure, a door is left open, or a door lock isn't properly engaged.

Top Bracing System

Our patent pending top bracing system is designed to add stability and strength to the enclosure. This provides for a stronger enclosure using less steel. Most enclosures work with 6" or 8" concrete slab.





Pressure Testing Enclosure Safety Risk Assessment

Our process often begins with, or includes, a Testing Enclosure Safety Risk Assessment. To make a sound recommendation on what type of enclosure is needed, we need to first assess what is currently being used. Whether you currently have a roll-away guarding system or a full enclosure, we will examine your specific situation to determine the risk. We can offer retrofits to existing enclosures if certain criteria is met. Our risk assessment provides a full write-up that includes:

- Observations
- Risk Assessment
- Recommendations

Enclosure Information Survey

River Bend Industries, LLC
14220 S. Meridian
Oklahoma City, OK 73173
Phone: 405-703-2758
www.rbiokc.com

Date:

Customer Name:
Address:
State/Province:
Zip/Postal Code:

Respondent's Name:
Position:
Phone:

Test Enclosure Dimensions

Type of Enclosure		Inside Dimensions		Cameras Req'd	
Outside Width		Outside Depth		Height	
Door Opening		Door 2 Opening		Roof Needed	
Slab Thickness		Concrete PSI		Retractable Roof Size	

High-Pressure Testing Information

Medium to be used | Largest Projectile | Largest Projectile Weight

Max testing pressures of each medium

Air | Gas | Liquid

Max Volume of Gas to be used | Is pressure testing equipment currently in place

Notes

Shop Layout and Enclosure Footprint

We understand that your needs may be different than those met by our standard enclosures.
We welcome the opportunity to find out more about your specific testing requirements.
Please contact us with questions. You may also fill out the attached
Enclosure Survey form and fax to 405.703.2794 or scan and email to us.

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14220 S. Meridian Ave,

Oklahoma City, OK 73173

4505.703.2758

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