

WHAT'S YOUR LEVEL OF CONTAINMENT?

*Containment by
DESIGN!*



FLOW SCIENCES, INC.



**CUSTOM
DESIGN/BUILD
GALLERY**



Flow Sciences' Chemical Transfer Station™

Flow Sciences team of engineering professionals can provide custom solutions for your containment needs including Robotic Enclosures

DESCRIPTION

For over 15 years, FSI has been providing containment solutions for the pharmaceutical, chemical, and biotech industries. With a commitment to independent testing and the use of sophisticated engineering sciences such as Computational Fluid Dynamics, Flow Sciences' ensures the highest level of protection.

The procedure for custom engineered enclosures is very thorough. Flow Sciences' engineering team evaluates each process or product that is being enclosed and strives to understand the containment issues at hand and then designs a system to meet those requirements.

Flow Sciences' Representatives guide each client through every phase of the custom order process:

- Custom Quotation Request Form
- Engineering & Design
- Production
- Installation

CUSTOM QUOTATION REQUEST FORM

The first step of the custom enclosure process is The Custom Quotation Request Form. With this form, a Flow Sciences' Representative will contact the client to review the requirements for containment. In some instances, an onsite visit may be necessary. The representative will then generate a Custom Quote



FS2250-9 Enclosure for Sympatec Laser Diffraction System

Request Form with the collected data for evaluation by the Flow Sciences Engineering and Design staff.

ENGINEERING AND DESIGN SUPPORT

Flow Sciences' skilled team of engineering and design professionals thoroughly evaluate each custom enclosure request. A containment system is designed and a preliminary dimensional drawing is generated. Our Representatives often work directly with the manufacturer of the product being enclosed to ensure all aspects of our design meet their requirements.

PRODUCTION

After client approval, the designs are sent to our production facility where Flow Sciences' experienced technicians begin the manufacturing process. A cardboard mock-up of the custom enclosure can be created if deemed necessary by the customer. Each unit undergoes strict quality control to ensure that all units that leave the Flow Sciences' plant are of the highest standards.

INSTALLATION

Flow Sciences provides installation support via phone Monday through Friday, 7:30 AM to 5:30 PM EST. If onsite installation is required, the Flow Sciences' Representative must be notified before a quote is generated.

Please call **800.849.3429** to speak to a **Flow Sciences Customer Support Specialist** for additional information on Custom Engineered Enclosures.



Front View



Rear View

The FSI custom enclosure design and review process is optimized for product performance and application success.

This enclosure was designed specifically for the operator and equipment. During this process the client contacted FSI and our trained field representatives provided an initial on-site project and application review.

This resulted in a budgetary quote and concept drawing being generated. All parties agreed to continue on the project, drawing revisions were achieved, and desired containment levels addressed.

Equipment access and service, installation and logistical concerns, and testing and certification procedures were included in the scope of work. A Factory Acceptance Test was provided by FSI and witnessed/ approved by the client.

The project was closed when FSI installed and witnessed the field certification of the system.

The FS5050 Series offers both **Personnel and Product Protection** and is *Scalable to YOUR Application!*

The following pages contain selected images showing actual product solutions for Animal, Analytical, Robotic, Scale-Up/Pilot Plant, and Production/Manufacturing applications.



FS5000-107 Small Animal Anesthetizing Unit



FS5000-109 Framed Enclosure for Fraction Collector



FS2240-12 Benchtop Containment for Micromeritics Multi-Sample Smart Prep Degassing Unit



Personnel Protection for Beckman Coulter Biomek® FX with plate stacker. Also shown with access doors open.



FS5000-100 Powder Containment Workstation for Quadro Powder Mill



FS5020-1
Soft-Wall Vinyl Enclosure
Designed for 55 Gallon Powder
Drum Weighing and Sampling



Removable Panels for Quick
and Easy Access



Front View

FS8400-12
Ventilated Bulk Powder Isolator



Rear View

Containment



LFBC™ Dual Protection Enclosure

- Designed for Xcelodose™ Precision Powder Micro-filling System.
- Provides both personnel and product protection.
- W: 79"/201 cm
H: 96"/244 cm
D: 40"/122 cm



Necropsy Workstation

- Two microscope workstations linked with Pass Thru to 4' enclosure allow parallel processing within a contained environment.
- Designed for small animal surgery and dissection.
- Features internal plenums, base cutouts, and custom lift table.
- W: 120"/305 cm
H: 50"/127 cm
D: 30"/76 cm



Top Mount Balance Enclosure with Adjustable Face Opening

- Designed for use where multiple sized vessels need to be weighed.
- Top Mounted Fan Filtration Enclosure provides ease of installation within limited space
- W: 39"/99 cm
H: 53"/135 cm
D: 30"/76 cm

Log onto our website or call us today to customize your enclosure

By Design



Containment Solutions Available for:

Beckman Coulter	QIAGEN
Buchi	Quadro
Callper Life Sciences	ReactArray
Capsugel	SPX Lightnin
Cybio	Sympatec
Gilson	Symyx Technologies (formerly Autodose)
Globepharm	Tecan
Malvern	Teledyne ISCO
MOFLO	Tomtec
Nilfisk	Vankel (Varian)
Niro	Vortisieve
Perkin Elmer	<i>and many others</i>



Framed enclosure for Laboratory Robotics

- Designed for Beckman Coulter Biomek® FX with plate stacker and incubator.
- Required enclosure to fit instrument application with multiple access points for service needs.
- W: 118"/300 cm
H: 56"/142 cm
D: 30"/127 cm



FS2400-40 Vented Solvent Workstation
Features All-Clear Construction,
Stainless Steel Sink, and Pull Out Drawers
for Storage or Drying



FS2223
Personnel Protection for
Teledyne ISCO Combiflash Companion
Chromatography Suite



ISCO Chromatography Suite



FS11300SS Stainless Steel and Glass
Top Mount Balance Enclosure
Featuring Bag In / Bag Out
HEPA Filtration



FS14300 Adjustable Sash Enclosure
Perfect for **Rotovap** Containment
Shown atop the FS5000-113
A Sound Dampening Unit for
Ro-Tap Sieve Shaker





FS5000-111
Personnel Protection for
Autodose Powderium
with Pick and Place Robot



FS5000-115 and FS11550
Karnavati Mini Tablet
Press II Enclosure Suite

This enclosure system was developed to act as a mini Pilot Plant. Allows users to bring bulk product in and finished product out of a completely contained process.



FS5050
LFBC™ (Lateral Flow Bio-Containment)
Product line offers *Personnel and Product Protection*
Completely Scalable to fit your Application Requirements



FS5000-123
Personnel Protection for
Buchi Spray Dryer B-290



FS5000-119 *Product Protection for*
Caliper Sciclone ALH 300



**Locatable Openings*



**Iris Port*



Flow Sciences brings improved and customized containment products to the demanding marketplace ensuring safety and quality solutions. Flow Sciences' containment products and systems provide many benefits to meet the needs of the end user.

- Turbulence-Free air flow
- Task-Specific safety applications
- Custom-Fit containment enclosures
- Energy-Efficient ventilation systems
- Ergonomic work space design
- Easy clean up
- Personnel and Product Protection
- Exceeds ASHRAE quality standards

***Tested By:**



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