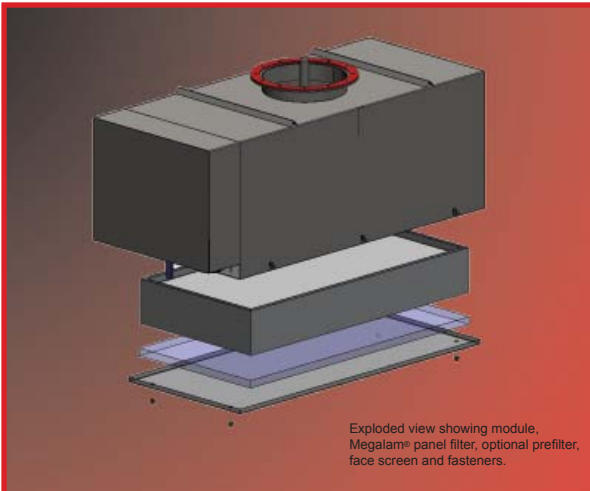
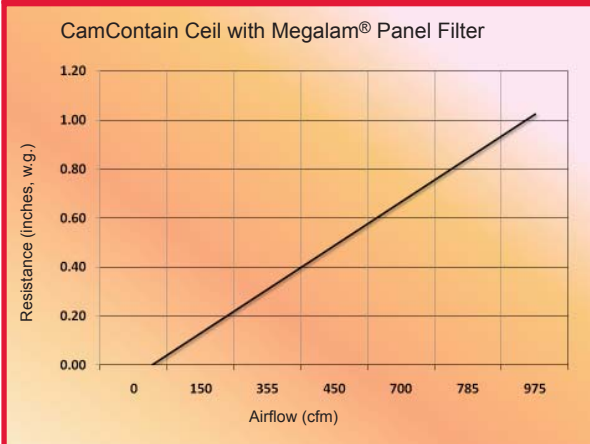


# CamContain Ceil

## Ceiling Mounted Roomside Exhaust Containment Module With Auto-Scan Testing Capability



A ceiling-mounted containment module for installations where interstitial space is limited.



The CamContain Ceil X, when matched with a Camfil Farr Megalam® panel filter (99.99% @ MPPS), has a low resistance to airflow, reducing energy expenditures to move air through the system.



The Camfil Farr CamContain Ceil can be used in pharmaceutical, biotech, Biosafety Level (BSL) Labs and medical facilities for critical exhaust applications where interstitial and external space is limited, and containment of contaminants is critical.

The standard 24" by 54" size accommodates installation in a hard ceiling or can be adapted for installation in a ceiling grid system. It provides an ideal design solution for retrofit or upgrade of existing spaces to meet stringent BSL design requirements. The compact design provides BSL capability for applications where standard high level containment systems may not be practical because of space limitations.

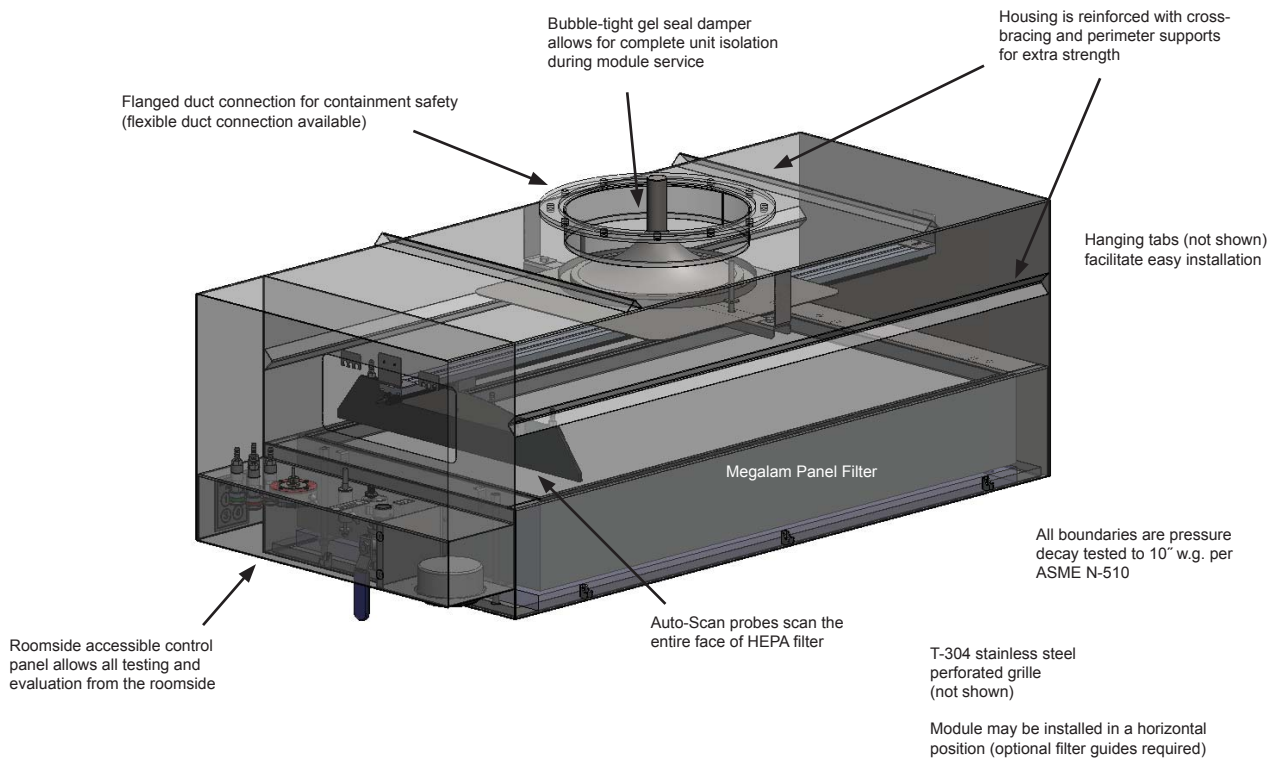
The CamContain Ceil XS filter and assembly may be evaluated with Camfil Farr's non-intrusive CamControl automated scanning system or Motion Control Lite. The portable validation equipment evaluates both filter performance and filter seal integrity, including leak detection, average efficiency, and pressure decay testing. Test data is recorded, documented and transferred to a secure database (if the optional 3 module CamControl System is used).

In applications which do not require in situ filter scanning, the CamContain Ceil XO model provides a containment level ceiling-mounted roomside exhaust system designed for on-site overall efficiency testing.

The Camfil Farr CamContain Ceil series modules:

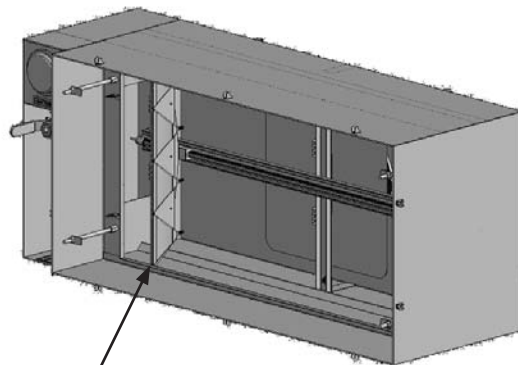
- Provide higher airflow capacity per module than industry alternatives, reducing the number of units required for lower first cost, maintenance and energy expenditures. The number of air changes within the containment envelope may be increased as a result.
- Are extremely versatile, allowing for varying height conditions above the finished ceiling. Depending upon the available clearance in the interstitial space above the ceiling plane, the finish trim allows for dimensional elevation adjustment from 2 to 14 inches below the ceiling surface.
- Are pressure decay tested at the factory to ensure product integrity, reliable performance and integrity beyond the actual operating capacity of the module.
- Reduce maintenance costs, including decontamination, damper adjustment, filter testing and prefilter or HEPA filter service or replacement.
- Allow complete isolation and limited volume control through the use of a linear bubble-tight gel seal isolation damper.
- Accept HEPA filters from 99.99% to 99.9995 efficiency at MPPS.
- May include an optional hygienic bag-in/bag-out kit providing an additional measure of security to protect service personnel from handling potentially contaminated filters.
- Includes a differential pressure gauge for visual filter pressure drop evaluation.

Camfil Farr	Product sheet
CamContain Ceil	3425 - 0909
Camfil Farr - clean air solutions	



**Auto-Scan Assembly**

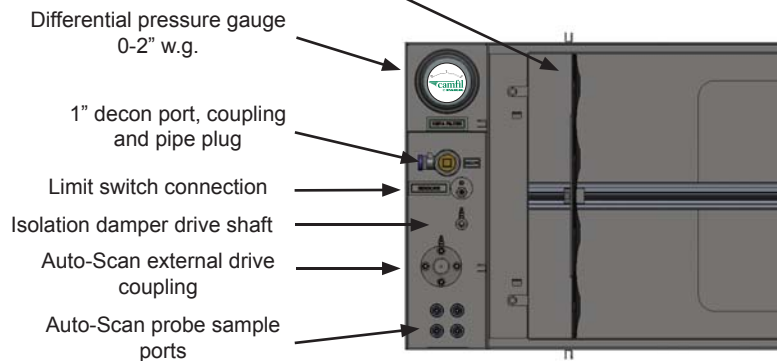
The CamContain Ceil Auto-Scan Assembly allows for in-situ scanning of the unit's HEPA filter. An automated scanning mechanism allows for validation tests to be conducted from the roomside while labs are operational, eliminating downtime and minimizing the risk of contamination of adjacent spaces.



Auto-Scan sampling probe assembly

**Control Panel**

All required service functions and testing on the CamContain Ceil XO and XS modules may be performed from the roomside. All of the connections required to perform validation testing are located in the control panel on the roomside of the unit. Additionally, a visual pressure drop indicator (i.e. differential pressure gauge) is included in the control panel, allowing for easy determination of the remaining life of the HEPA filter.



## Megalam Panel Filters Ensure Module Performance

The CamContain Ceil uses Camfil Farr Megalam panels that are specifically designed to maintain operational and testing integrity. Each Megalam panel:

- Is individually tested using Camfil Farr's Auto-Scan automated leak detection system. Filters are serialized, bar coded, and all performance data is labeled on the filter. (Certificates of Conformance to testing are available for each filter).
- Includes micro glass fiber media that is pleated using Camfil Farr's Controlled Media Spacing™ technology. CMS™ ensures optimized filter element depth and pleat spacing, resulting in minimized configuration losses and low resistance to airflow.
- Has continuous glass filaments or thermoplastic separators to ensure uniform pleat spacing, and also forms a rigid self-supported media pack. Media-to-media contact, and associated fiber break-off, are eliminated.
- Incorporates a heavy-duty, lightweight anodized aluminum frame for high strength and ease of installation.
- Includes frame corners that are secured with Camfil Farr's exclusive Klip-Lok mechanism for module durability and long-term integrity. The media pack is sealed on all four sides using Camfil Farr's CamPure polyurethane sealant. CamPure is a fire-retardant, thermally/chemically stable, shock-adsorbing polyurethane elastomer sealant which assures leak-free integrity and low out-gassing.
- Is manufactured in an ISO Class 7 (M 5.5, Class 10,000) cleanroom and tested in an ISO Class 5 (M 3.5, Class 100) clean space.

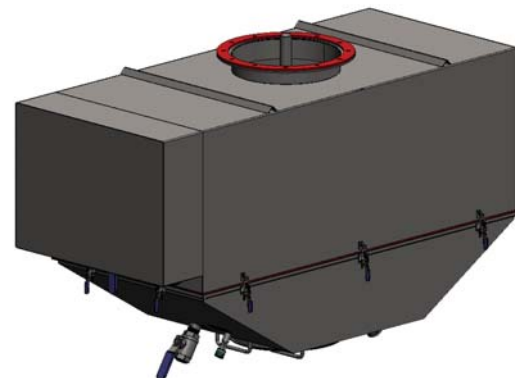
## CamContain Ceil options:

- Control selections
- CamControl – fully automated testing system.
- CamControl Motion Module – requires photometer or particle counter and aerosol generator by others, fully upgradable to CamControl.
- Motion Control Lite – operates Auto-Scan assembly, requires photometer or particle counter and aerosol generator by others.
- Prefilters, nominal 22" x 43" by 1". Non-woven polyester pad or special size MERV 8 30/30® filter available.
- A Universal Testing Shroud (UTS) that functions as a mixing chamber for even distribution of upstream air/aerosol mixture and as a sealed encapsulation for field decontamination and pressure decay testing. A minimum of one UTS per project is required to test.
- Hygienic Filter Bagging Kit – includes bag with four glove ports and bag-out trash port, and change-out strap.
- Ceiling Adapter Kit – for sheetrock or hard ceiling installations, available in 304 SST or 316 SST.
- Stainless Removable Trim – available in 1-1/2" or 2", 304 SST or 316 SST.

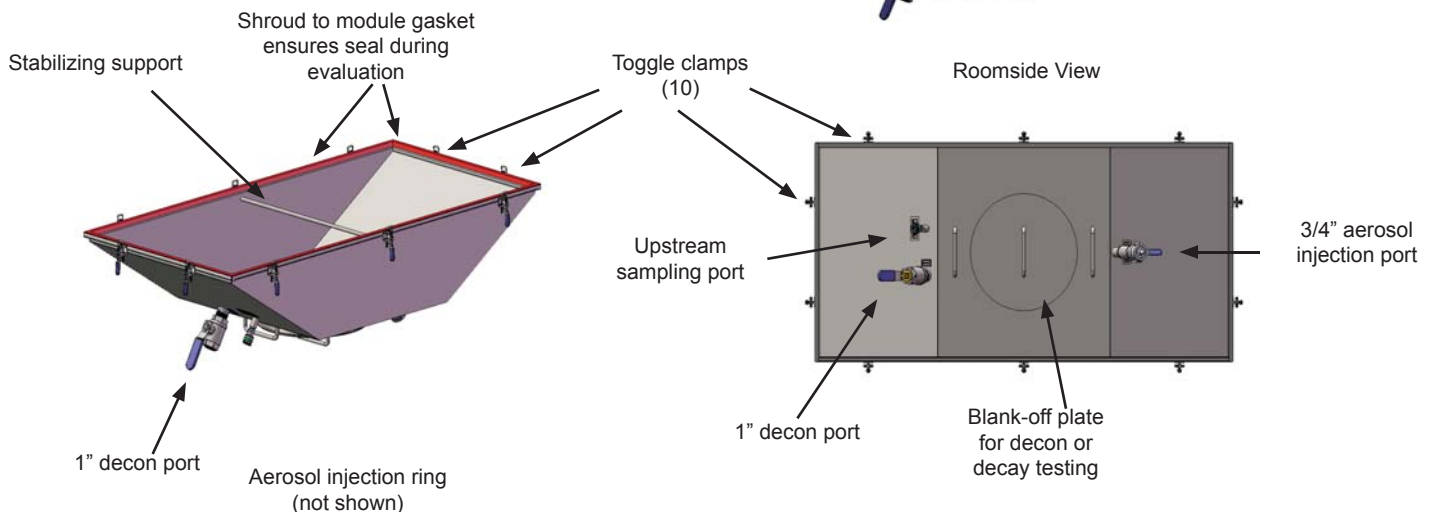
## Universal Testing Shroud

To test the HEPA filter and pressure boundaries of the module, remove the stainless steel face screen and prefilter, and attach the test shroud using the housings ten toggle clamps.

A 12" blank-off plate is included with the testing shroud to perform pressure decay testing and decontamination on the CamContain Ceil module.

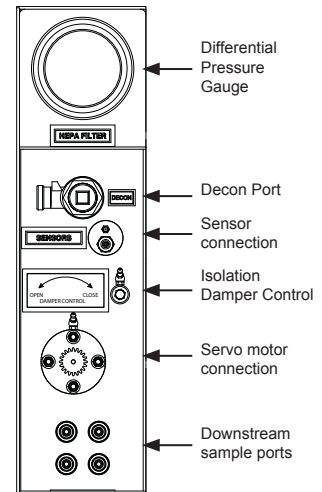
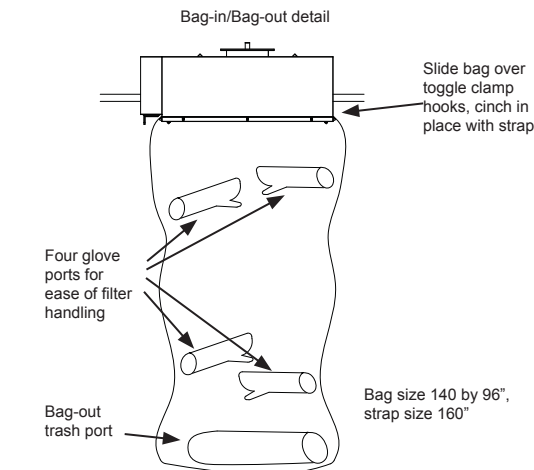
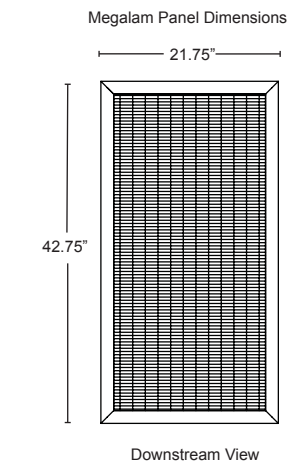
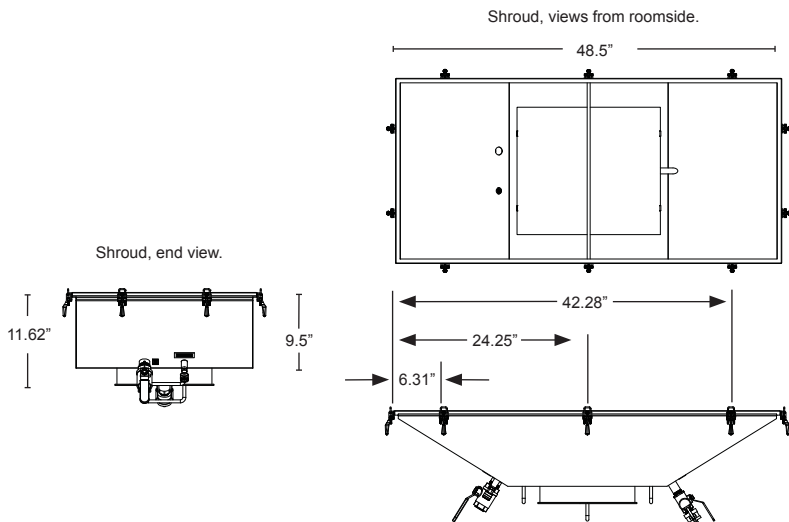
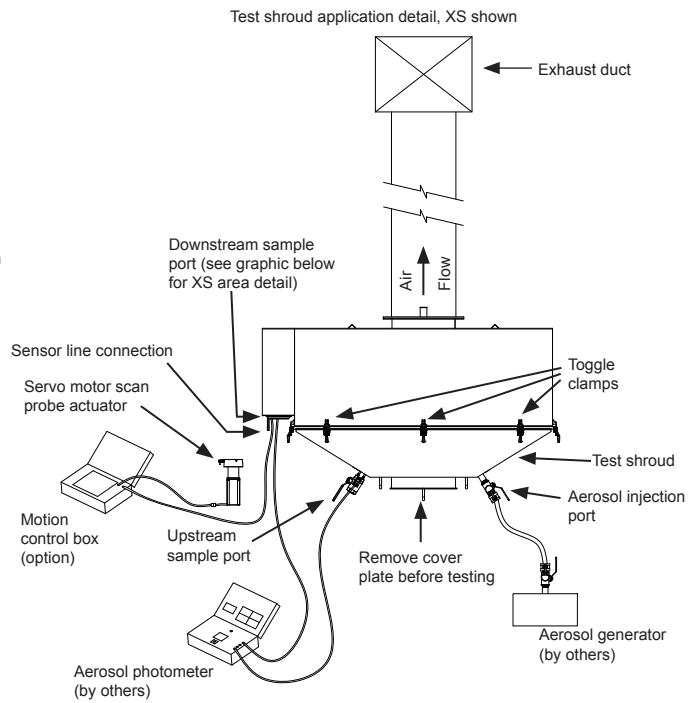
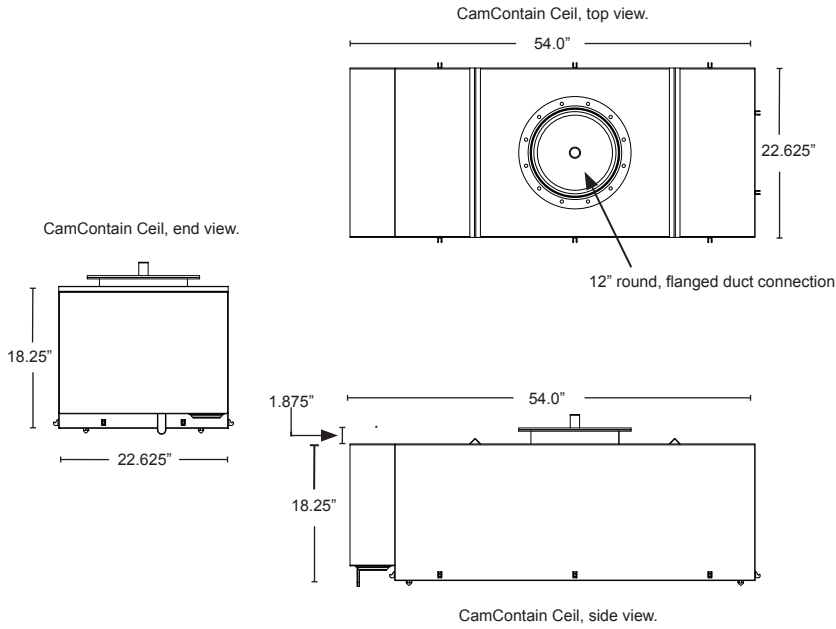


Roomside View



# DIMENSIONAL DATA

# CAMCONTAIN CEIL



XS connection detail (located at downstream sample port location on graphic above)

The following sales submittal drawings are available on the Camfil Farr web site, or contact factory .

- CamContain Ceil Model Number Selection
- CamContain Ceil XS Roomsides Scan Testable Exhaust Unit
- CamContain Ceil XO Roomsides Overall Efficiency Exhaust Unit
- CamContain Ceil XS/XO Roomsides Exhaust Unit Test Shroud
- CamContain Ceil XS/XO Roomsides Exhaust Unit Ceiling Adapter Trim Detail
- CamContain Ceil XS/XO Roomsides Exhaust Unit Permanent Trim Detail
- CamContain Ceil XS/XO Roomsides Exhaust Unit Bag-in/Bag-out Detail
- CamContain Ceil XO Roomsides Exhaust Unit Test Shroud Operational Detail
- CamContain Ceil XS Roomsides Exhaust Unit Test Shroud Operational Detail
- Megalum Panel Filter (specific to CamContain Ceil)

Camfil Farr has a policy of uninterrupted research, development and product improvement. We reserve the right to change designs and specifications without notice.

**Camfil Farr, Inc.**  
 United States Tel: (973) 616-7300 Fax: (973) 616-7771  
 Canada Tel: (450) 629-3030 Fax: (450) 662-6035  
 E-mail: [camfilfarr@camfilfarr.com](mailto:camfilfarr@camfilfarr.com)

Camfil Farr products meet the stringent requirements of ASME NQA-1, Quality Assurance for Nuclear Facility Applications.

