



Pharmaslim Ducted Ceiling Module

All-Welded Roomside Replaceable Ducted Ceiling Module



Maintain critical
roomside clean space
with a leak free welded
terminal filter housing



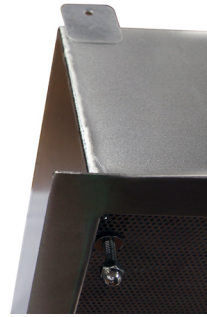
Aerosol injection port, static pressure port and damper adjustment are easily accessible for filter service.

The Camfil Pharmaslim ceiling module provides clean room level air filtration for pharmaceutical or biotechnology facilities as well as any other facility where clean space is a manufacturing or health-related requirement. Its unique roomside replaceable filter design minimizes downtime and ensures repeatable room air cleanliness following filter service. The Camfil Pharmaslim:

- Has a total hood height of only 9" (less height of connection collar) and is available in full and half size to accommodate 21-3/4" x 44" or 21-3/4" x 20" by 53mm deep HEPA filters.
- Is constructed of 0.063" aluminum with all-welded seams to eliminate leak paths and ensure structural rigidity.
- Has a universal body type for installation into a T-bar or plaster ceilings.
- Includes hanging tabs on each corner for suspended ceiling installations.
- Includes a centered top inlet 12" round raised-rib collar for secure connection to HVAC air supply.
- Includes a radial bow-tie damper with roomside hexagonal connection control to adjust for proper air volume to the conditioned space.
- Includes a flexible vinyl aerosol pipe and dispersion plate system for uniform challenge distribution across the entire face of the filter. The dispersion plate includes apertures to facilitate airflow uniformity throughout the module.
- Includes a roomside labeled static pressure port for evaluating filter pressure drop or sampling of the upstream aerosol concentration during filter scan testing. Ports and damper adjustment location allow easy filter change, airflow adjustment and filter scan testing from the roomside.
- Includes a roomside labeled aerosol injection connection to accommodate unit certification.
- Includes filter standoffs that also act as filter centering guides.
- Accepts 53mm deep Camfil Megalam® gel seal filters.
- Includes a flush-mounted face grille with four acorn nuts for unit service. The grille is optimized to promote uniform airflow.
- Is available with optional 2" foil backed fiberglass insulation.

Leak-Free Welded Construction

All seams are welded to eliminate any contaminating leak paths. Each Pharmaslim is leak tested to 3.0" w.g. to ensure leak free performance.



Additional Welded Points

Corner joint of knife-edge junctures are continuously welded to eliminate leak paths. Knife-edge design ensures that filter will not bottom out in the track eliminating metal to metal contact and potential bypass.

Gel-Penetrating Knife-Edge

The Camfil Pharmaslim includes a gel-penetrating knife-edge that affects a positive seal.

Permanent Trim

Universal body design allows installation into T-bar or plaster ceilings.

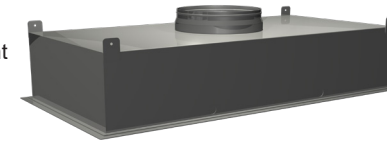


Static Pressure Port & Aerosol Injection Port

A static pressure port for measuring the pressure drop across the installed filter and an aerosol injection port for roomside testing convenience. There is also an external damper adjustment for regulating airflow. All are conveniently located in the same proximity.

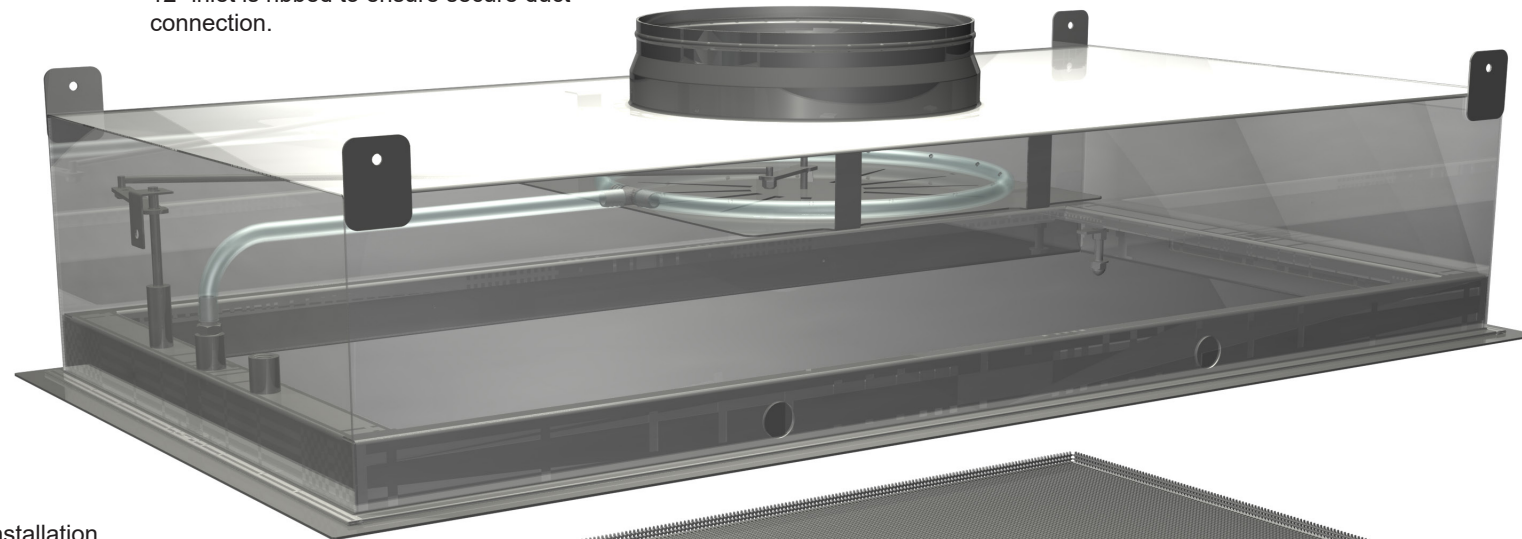
Hanging Support Tabs

The Pharmaslim includes hanging tabs on each corner for attachment to an external support system.



Ribbed Duct Connection Collar

12" inlet is ribbed to ensure secure duct connection.



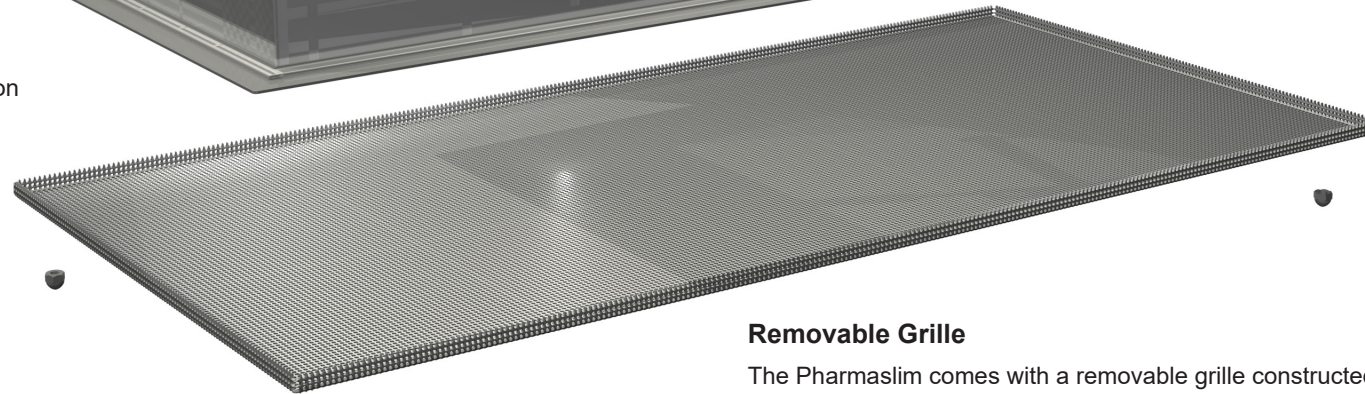
Radial Bow tie Damper

Accurate airflow modulation and control from the roomside. The radial bow tie damper is riveted to the Pharmaslim housing.



Air/Aerosol Diffuser Plate & Injection Ring

The air/aerosol diffuser plate and injection ring facilitate airflow uniformity and aerosol dispersion for filter testing and/or room certification.

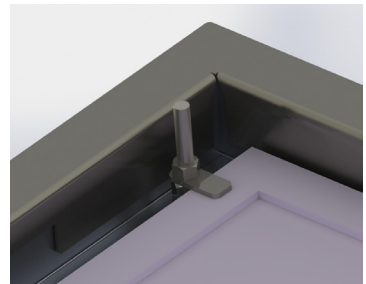


Removable Grille

The Pharmaslim comes with a removable grille constructed of stainless steel, the grille ensures protection of the filter and internal housing components and has a 40% open area.

Filter Retention Tabs

Filter retention tabs secure the filter on the gel track and within the assembly.



Fasteners

Acorn nut grille fasteners are standard for securing grille to housing.

Optional External Insulation

Pharmaslim modules are available with external foil-bank insulation on top and sides.

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Pharmaslim Hood

MODEL NO.: PHARMASLIM 2X2
 FILTER SIZE: 21 3/4" X 20"
 MAX. FILTER PACK DEPTH: 53mm
 CUSTOMER PO. NO.: N/A
 CAMFIL ORDER NO.: N/A

P/N: M82000200
 S/N: N/A-0001
(MADE IN THE U.S.A.)

Full Product Detail on Unit Labels

Serial numbers are assigned to each hood after leak testing. This allows testing traceability.

Model	Part Number	Actual Dimensions (inches)	Weight (pounds)
2 x 2 Standard	M82000200	23-5/8 x 23-5/8 x 9	19
2 x 2 Insulated Top & Bottom	M82000201	23-5/8 x 23-5/8 x 9	20
2 x 4 Standard	M82000202	23-5/8 x 47-5/8 x 9	30
2 x 4 Insulated Top & Bottom	M82000203	23-5/8 x 47-5/8 x 9	32
2 x 2 Removable Trim Assembly 1-1/2" SRT	M41001011	25-1/4 x 25-1/4	6
2 x 4 Removable Trim Assembly 1-1/2" SRT	M41001012	25-1/4 x 47-1/4	10

Filters must be ordered separately, contact your local Camfil representative or consult chart on next page.



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Camfil Megalam® Filters (ordered separately)

Camfil Megalam HEPA filters provide fine particulate control to meet the requirements of today's high technology clean rooms and clean areas. Offering configuration and performance flexibility, the Megalam filter will provide the highest level of protection for product processes and personnel. Standard gel seal filters contain polyurethane gel for knife edge seal. Silicone gel is recommended when a high degree of cleaning and sterilization agents are used or in a high temperature application.

Each Camfil Megalam filter:

- Is manufactured of micro glass fiber media. The media is pleated using Camfil's Controlled Media Spacing™ technology. CMS™ ensures optimized filter element depth and pleat spacing, resulting in minimized configuration losses and low resistance to airflow.
- Includes continuous glass filament or thermoplastic separators to ensure uniform pleat spacing and form a

rigid self supported media pack. Media-to-media contact, and associated fiber break-off, are eliminated.

- Includes a heavy-duty, lightweight anodized aluminum frame for high strength and ease of installation.
- Includes frame corners that are secured with Camfil's exclusive Klip-Lok™ mechanism for module durability and long-term integrity.
- Has a media pack which is sealed on all four sides using Camfil's CamPure™ polyurethane sealant. CamPure is a fire-retardant, thermally/chemically stable, shock-adsorbing polyurethane elastomer sealant assuring leak-free integrity and low-out gassing.
- Is manufactured in a ISO Class 7 (M 5.5, Class 10,000) clean room and tested in a ISO Class 5 (M 3.5, Class 100) clean space.
- Is tested using Camfil's AUTO-SCAN™ automated leak detection system. Filters are serialized, bar coded, and all data is provided on a label on the filter. This allows for filter traceability back to the raw goods of unit construction.



Pharmaslim Housing Size	Megalam Filter Part Number	Actual Size		Rated Airflow (cfm)	Initial Resistance (inches w.g.) (tolerance ± 20%)
		Width (inches)	Length (inches)		
53 MM (99.99% @ 0.3-micron)					
2 x 2	855028022	21-¾	20	233	0.52
2 x 4	855028370	21-¾	44	554	



For detailed specifications please consult your local Camfil Distributor or Representative or www.camfil.com. Camfil has a policy of uninterrupted research, development and product improvement. We reserve the right to change designs and specifications without notice.

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