



Better Air is Our Business®

# AmericanAirFilter® PharmaGel™ LCE

## Room-Side Replaceable HEPA Module

### Designed for Pharmaceutical and Biotech Applications

The AAF® PharmaGel™ LCE Room-Side Replaceable HEPA filter module is designed for applications requiring easy HEPA cartridge change outs that allow you to minimize filter replacement downtime and lower production and maintenance costs.

Designed with the pharmaceutical and biotech industries in mind, filter cartridges can be tested and replaced without disturbing the module housing. An AAF gel sealant pocket ensures airtight integrity at the filter-to-module seal, eliminating the risk of bypass leakage.

#### Extruded Aluminum Housing

The airtight housing is constructed of extruded, anodized aluminum with hangers at all four corners. The housing is built with an integral knife edge to seal the HEPA filter to the module upon installation.

#### Perforated Face Screen

A white-painted perforated face screen is designed with 40% open area and is easily removed for wipe down of the module to prevent cross-contamination of the product. The flush-mounted protective grill is held in place with four stainless steel acorn nuts. Stainless steel perforated face screen is available as an option.



The face screen is held in place with acorn nuts.

#### Adjustable Diffusion Disk

The one piece aluminum top is designed with an adjustable perforated disk and is available with 10" or 12" diameter collar. Airflow diffusion is upstream of the filter and is also accessible downstream through the filter or room side.



### Gel Seal Prevents Bypass Leakage

#### Gel Seal Forms Airtight Seal

AstroCel® II filter cartridges designed for PharmaGel modules each include a pocket of AAF gel sealant around the perimeter of the filter on the downstream side. When the filter is installed, a knife edge on all four sides of the housing penetrates the channel of gel to form an airtight seal. With the gel sealant pocket located downstream of the housing, there is no dead air space commonly found in competitive products that seal on the upstream side.

#### Fastening Tabs for Easy Replacement

The filter cartridge is held in the housing by four fastening tabs. To replace the filter cartridge, the tabs are simply turned 90°. The filter fastening tabs are designed to avoid penetrations through the knife edge frame, and eliminate potential leak paths.



The filter support retainers turn 90° for easy filter cartridge replacement.

# AmericanAirFilter<sup>®</sup>

## PharmaGel™ LCE

### Customize with Options

A variety of options are available to customize the product to your unique requirements:

- Field installed stainless steel trim flange for mounting in a plaster ceiling
- Stainless steel perforated face screen
- ULPA filter (99.9995%) in lieu of HEPA (99.99%)
- Air volume control damper
- Insulation

### Standard Sizes

Nominal Size	Collar Size	Module Part Number	Actual Dimensions			Approx. Weight
			Width	Length	Depth	
24 x 24	10	3010774-005	23 <sup>5</sup> / <sub>8</sub>	23 <sup>5</sup> / <sub>8</sub>	8	30
24 x 24	12	3010774-006	23 <sup>5</sup> / <sub>8</sub>	23 <sup>5</sup> / <sub>8</sub>	8	30
24 x 48	10	3010774-007	23 <sup>5</sup> / <sub>8</sub>	47 <sup>5</sup> / <sub>8</sub>	8	40
24 x 48	12	3010774-008	23 <sup>5</sup> / <sub>8</sub>	47 <sup>5</sup> / <sub>8</sub>	8	40

Special sizes available.  
Please contact AAF Customer Service for information on special sizes.

### Performance Data

Efficiency	Nominal Size	Capacity (CFM)	Clean Filter Res. (in. w.g.)	Filter Part Number	Filter Dimensions		
					Width	Length	Depth
99.99% on 0.30 µm	2x2	200	0.47	3010824-001	19 <sup>7</sup> / <sub>8</sub>	19 <sup>7</sup> / <sub>8</sub>	2 <sup>7</sup> / <sub>8</sub>
	2x4	485	0.47	3010824-002	19 <sup>7</sup> / <sub>8</sub>	43 <sup>7</sup> / <sub>8</sub>	2 <sup>7</sup> / <sub>8</sub>
99.9995% on 0.12 µm	2x2	200	0.68	3010824-003	19 <sup>7</sup> / <sub>8</sub>	19 <sup>7</sup> / <sub>8</sub>	2 <sup>7</sup> / <sub>8</sub>
	2x4	485	0.68	3010824-004	19 <sup>7</sup> / <sub>8</sub>	43 <sup>7</sup> / <sub>8</sub>	2 <sup>7</sup> / <sub>8</sub>

Note: Rated capacity is based on filter with 2" nominal media pack depth. Increased flow rates can be achieved using deeper pleat packs.

Tolerances: Length and Width: +0, -1/8"

Maximum Operating Temperature: 200°F, 100% RH

Rating: Filters: UL-900, Class 1

Gel Sealant in gel trough of filter: Urethane Gel



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AAF has a policy of continuous product research and improvement and reserves the right to change design and specifications without notice.

ISO Certified Firm

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