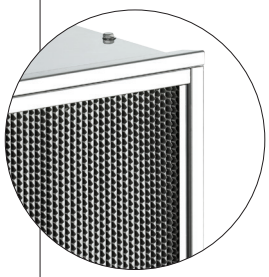
THE WORLD LEADER IN CLEAN AIR SOLUTIONS

AstroCel® I HTP

HIGH TEMPERATURE HEPA FILTERS

- High temperature resistance up to a peak of 752°F (400°C) to protect ultra clean processes
- Handling high airflow rates up to 1236 CFM for critical processes
- Stainless steel construction prevents potential damage from heat stretching
- Uses elastic fiberglass sealant, eliminating cracking or particle shedding seen with ceramic
- Free of silicone to safeguard air quality

The AstroCel I HTP high temperature HEPA filter from AAF Flanders is designed to provide excellent protection of high temperature processes in ultra clean environments that can be found in industries such as pharmaceutical or electronics. This filter supports compliance with the most stringent requirements so that high output quality requirements can be realized at minimized failure costs.



Stainless steel structure for superior durability during heating and cooling.

Reliable High Temperature Operation

In continuous service, the AstroCel I HTP filter offers a maximum temperature resistance of 662°F (350°C), with a peak of 752°F (400°C) for one hour. The robust all-stainless-steel structure prevents the media damage caused by thermal stresses, where materials with different expansion coefficients are used during temperature rising and falling. The elastic fiberglass media sealant is not prone to integrity breaches from stress cracks, giving a superior durability. Thorough heat-cycle tests have confirmed damage-free construction and consistent performance in pressure drop and efficiency at 662°F (350°C). Bias crimped separators in combination with stabilizer bars inside the media pack ensure that uniformity of the media pack is maintained in operation. The AstroCel I HTP filter offers a unique combination of high temperature operation and superior durability, optimizing process results and limiting unscheduled downtimes.

High Air Quality Conditions

The AstroCel I HTP filter provides a high air quality level with a particulate collection efficiency of ≥ 99.97% for 0.3 µm particles at a nominal airflow of 1236 CFM. With this high airflow rate, ventilation can be optimized to enable speedy temperature control. The silicone-free construction of the AstroCel I HTP filter further enhances the air purity level during the various steps of the sterilization process, without the risk of siloxane contamination. For critical process applications in which no concessions can be made to quality and yields, the AstroCel I HTP filter from AAF Flanders provides the right solution for ensuring that strict air cleanliness conditions are met.

Beneficial Total Cost of Ownership

The features described above can allow for a significant reduction in heating and cooling times, reducing the total cycle times of batch processes, increasing production throughput, and reducing overall cost.

Applications

Pharmaceutical: dry heat sterilization and depyrogenation
Electronics: clean oven for LCD and TFT manufacturing
Food and Beverage: drying facilities
Chemical: cleaning and drying for laboratory research

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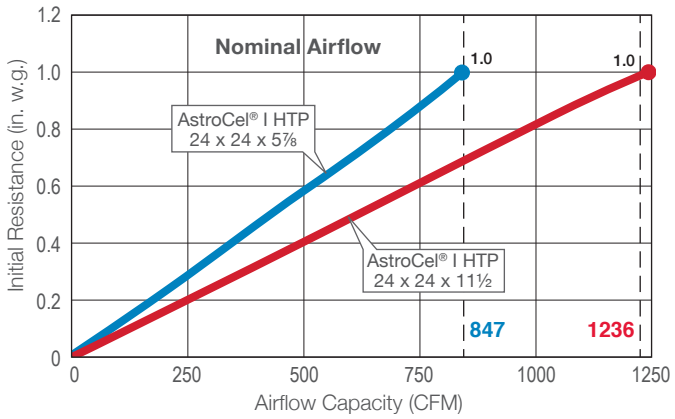
AstroCel® I HTP Filters

Product Information

Nominal Size (inches) W x H x D	Rated Airflow Capacity (CFM)	Efficiency (%) at 0.3 µm	Rated Resistance (in. w.g.)		Operating Temperatures °F / °C		Shipping Weight (lbs.)
			Initial	Final Maximum	Continuous	Peak	
24 x 24 x 5⅞	847	≥ 99.97	1.0	2.0	662 / 350	52 (1h) / 400	29
24 x 24 x 11½	1236	≥ 99.97	1.0	2.0	662 / 350	52 (1h) / 400	29

Performance Data

Initial Resistance vs. Airflow Capacity



Tests performed at ambient temperatures (68°F).

Standard Configuration

Filter media	
Material	Ultrafine microglass
Pack design	Deep-pleat
Separator	Stainless steel with tapering in cross oblique position
Filter frame	
Material	Stainless steel with 2 vertical support bars
Sealant	Elastic fiberglass
Gasket	
Material	Laminated fiberglass

AAF Flanders®

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