#### 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

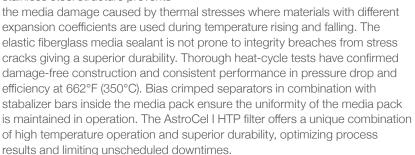
The AstroCel I HTP high temperature HEPA filter from AAF is designed to provide excellent protection of high temperature processes in ultra clean environments that can be found in industries such as pharmaceutical or electronics. It supports compliance with the most stringent requirements so that the 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 AstroCel I HTP filter provides a high air quality level with a particulate collection efficiency of  $\geq$  99.97% for 0.3 µm particles at a nominal airflow of 1236 CFM. With this high airflow rate, ventilation can be optimized for enabling 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 new AstroCel I HTP filter from AAF provides the right solution for ensuring that the 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

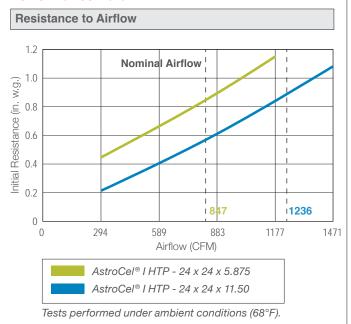


### AstroCel® I HTP

#### **Product Information**

Nominal Sizes (in.)			Rated Airflow Capacity	Efficiency (%) at 0.3 μm	Rate	ed Resistance (in. w.g.)	Ope Tempe °F	Shipping Weight (lbs.)	
W	Н	D	CFM		Initial	Final Maximum	Continuous	Peak	
24	24	5.875	847	≥ 99.97	1.0	2.0	662 / 350	752 (1h) / 400	29
24	24	11.50	1236	≥ 99.97	1.0	2.0	662 / 350	752 (1h) / 400	48

#### **Performance Data**



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

# IMPORTANT FILTERS SHOULD BE CONDITIONED PRIOR TO USE AT HIGH TEMPERATURE

EQUIPMENT MANUFACTURER'S MANUAL SHOULD BE REVIEWED FOR SPECIFIC INSTRUCTIONS ABOUT EQUIPMENT, BEFORE START-UP.

HIGH TEMPERATURE CONDITIONING:

a. RAMP OVEN TEMPERATURE 1.5°C / MINUTE (35°F / MINUTE) INCREMENTS TO MAX. FILTER RATING:

RED RTV SEALANT FILTERS 260°C (500°F) BLACK CEMENT FILTERS 400°C (750°F)

b. HOLD AT THIS TEMPERATURE FOR TWO HOURS OR UNTIL SMOKE CEASES.

PLEASE NOTE THAT DURING THIS PROCEDURE SOME SMOKE MAY OCCUR WHEN THE FILTER IS BEING BROUGHT UP TO TEMPERATURE. THIS PROCESS SHOULD BE COMPLETED PRIOR TO USE OF FILTERS IN STERILIZING OVENS.

## IMPORTANTE LOS FILTROS DEBEN ACONDICIONARSE ANTES DE USARSE A ALTAS TEMPERATURAS

1. ANTES DEL ENCENDIDO, ES NECESARIO CONSULTAR LAS INSTRUCCIONES DEL EQUIPO EN EL MANUAL DEL FABRICANTE.

2. ACONDICIONAMIENTO A ALTAS TEMPERATURAS:

a. INCREMENTE LA TEMPERATURA DEL HORNO EN RAMPA EN INCREMENTOS DE 1.5°C / MINUTO (35°F / MINUTO) A LA CALIFICACION MAXIMA DEL FILTRO:

SELLACOR RTV ROJO FILTRO 260°C (500°F) CEMENTO NEGRO FILTRO 400°C (750°F)

b. MANTENGA ESTA TEMPERATURA DURANTE DOS HORAS O HASTA QUE EL HUMO SE DETIENE.

TENGA EN CUENTA QUE DURANTE ESTE PROCEDIMIENTO DE ELEVACIÓN DE LA TEMPERATURA PUEDE PRODUCIRSE UN POCO DE HUMO. ES NECESARIO COMPLETAR EL PROCESO ANTES DE USAR LOS FILTROS EN HORNOS DE ESTERILIZACIÓN.

#### NOTES:

1 COPY ABOVE INSTRUCTIONS TEXT ONLY FOR PLACEMENT IN FILTER CARTON.
DO NOT COPY ENTIRE DRAWING.

NEXT ASSEMBLY (S) :

В

1002674(D), 1580356(D), 1602614(D), 1762491(B)

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RE	V DW	G DATE	CHK BY	DATE	APPR BY	DATE	DESCRIPTION OF CHANGE	REQUEST AND IS SUBJECT TO ALL OTHER TERMS AND CONDITIONS OF ANY WRITTEN AGREEMENT OR PURCHASE ORDER TO WHICH IT RELATES.	P.O. Box 35690 Louisville, KY. 40232-5690 www.aafintl.com	± 1/32" - ± 1/2° APPROVED E	Y: DATE: 6JUN00		105 A	SHEET 1 OF 1 C