AstroCel® I / AstroCel® I HC, Elevated Temperature

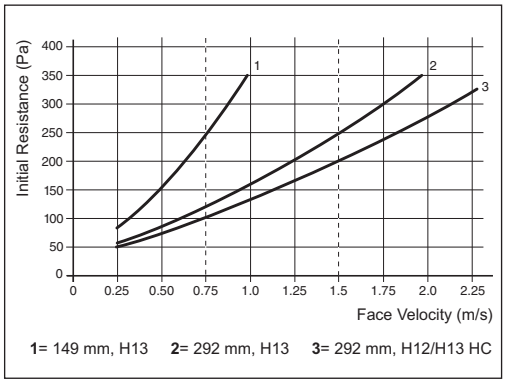
High Efficiency Particulate Air Filter (HEPA)

- ***Filter class H12, H13 and H14 according to EN1822***
- ***Available in High Capacity execution***
- ***Saves energy in existing installations***
- ***for temperature range of 70°C - 260°C***

AstroCel I filters owe their excellent air cleaning efficiency to their advanced design. The filter is available with anodized aluminium cell sides as well as MDF and stainless steel. The rigid pleated media pack with aluminium separator provides high efficiency air filtration on fine particles at the lowest possible resistance. For applications with a high air volume the High Capacity execution is the perfect solution. Because of their high capacity, fewer filters are needed to handle the same volume of air compared to other HEPA filters of the same size. The AstroCel I HC filters owe their high capacity to a unique separator design which allows denser packing of the filter media. The benefits to the customer are numerous:

- In new installations, fewer filters mean less costly installation space in necessary.
- In existing installations, low pressure drop means lower energy costs and longer service life
- Standard individually tested

Resistance vs Face Velocity



1= 149 mm, H13 **2**= 292 mm, H13 **3**= 292 mm, H12/H13 HC

Better Air is Our Business®

AstroCel®I / AstroCel®I HC, elevated temperature

Selection Table

Item	Component	Component Code Definition*
A	Media	**A = Waterproof glass fibre H13** **E = Waterproof glass fibre H14**
B	Cell Sides	**69 = Anodized aluminium** 72 = MDF **26 = Stainless steel**
C	Separators	**J = Aluminium** **H = Aluminium High Capacity**
D	Bond	**5 = Silicone** **9 = Cold cured resin**
E	Gasket	P = No gasket **S = 7 mm, half round profile, one piece foamed** T = 6 mm, flat profile **Y = 6,5 mm, silicone rubber**
F	Gasket Location	0 = No gasket **2 = One face** 3 = Both faces
G	Acceptance Level	G = H12 99.5% @ MPPS, acc. to EN1822 **H = H13 99.95% @ MPPS, acc. to EN1822** R = H14 99.995% @ MPPS, acc. to EN1822

** Bold typeface: standard execution*

How to Order

Below a typical example of how to order a standard AstroCel I filter using the Component Code Definition System.

AstroCel I (120°C)	A	69	J	9	S	2	H
AstroCel I HC (120°C)	A	69	H	9	S	2	H
AstroCel I (260°C)	A	26	J	5	Y	2	H
AstroCel I HC (260°C)	A	26	H	5	Y	2	H

Standard Sizes and Ratings

Size in mm without gasket[1)] H	W	D	Nominal airflow m^3/h	m^3/s
AstroCel I			m^3/h	m^3/s
610	305	149	500	0.14
610	610	149	1000	0.28
610	762	149	1250	0.35
610	305	292	1000	0.28
610	610	292	2000	0.56
610	762	292	2500	0.69
AstroCel I HC				
610	305	292	1500	0.42
610	610	292	3000	0.83
610	762	292	3750	1.04

1) The 'H' (Height) dimension also indicates the vertical position of the separators. AstroCel I filters should always be installed with the separators in the vertical position.
2 Other sizes available on request.

Notes:
- Initial resistance at nominal airflow is:
250 Pa for H12/H13 filters
320 Pa for H14 filters.
- Initial resistance High Capacity filters:
300 Pa for H12/H13 filters
350 Pa for H14 filters.
-Recommended final resistance is 750 Pa.

Efficiency

Efficiency @ 0.3 µm	Efficiency EN1822 @ MPPS	
99.99%	H12	99.5%
99.997%	H13	99.95%
99.999%	H14	99.995%

AAF-International B.V.
P.O. Box 7928
1008 AC Amsterdam
The Netherlands
Tel.: + 31 20 549 44 11
Fax: + 31 20 644 43 98
www.aafeurope.com

International AAF Offices:
Amsterdam (NL), Athens (GR), Brussels (B), Cramlington (GB), Dortmund (D), Dubai (UAE), Helsinki (Fin), Istanbul (TR), Lisbon (P), Louisville, Ky (USA), Madrid (E), Mexico (Mex), Mozzate-Co (I), Paris (F), Bangalore (IND), Riyadh (KSA), Shah Alam (Mal), Suzhou, Shenzhen (PRC), Singapore, Taiwan, Vienna (A)

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Johannesburg (RSA)

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