



# AstroCel® I HC

High Quality HEPA Filter

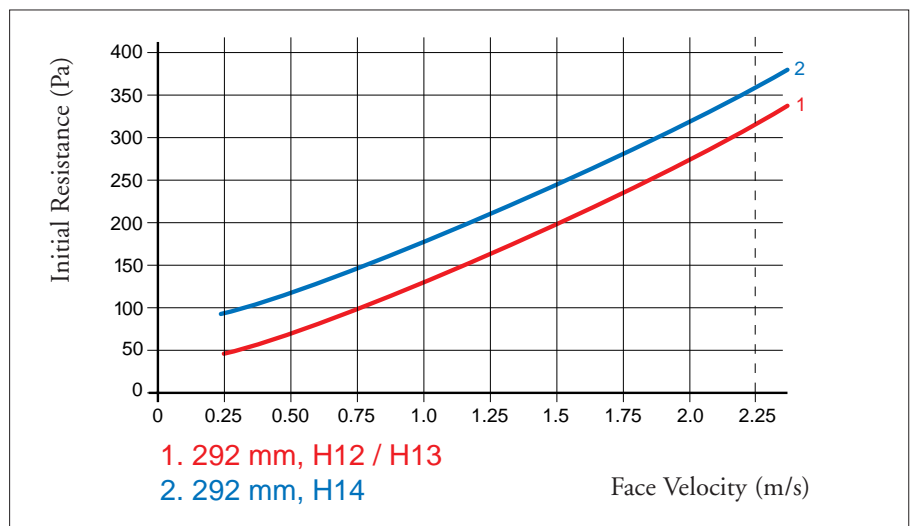
- High air volume filter: 3000 m<sup>3</sup>/h
- Classified H12, H13 and H14 according to EN1822
- Space saving design
- Saves energy in existing installations



AstroCel I High Capacity are classified H12, H13 and H14 in accordance with EN1822 and are designed for applications in which a high volume of air has to be throughput. 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. 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 is necessary.
- In existing installations, low pressure drop means lower energy costs and longer service life.
- Standard individually tested.

## Resistance vs Face Velocity





# AstroCel® I HC

An AstroCel I HC can be ordered using the following Component Code Definition System. Use the table to specify a product suitable to your application requirements.

## Selection Table

Item	Component	Component Code Definition*
A	Media	<b>A = Waterproof glass fibre</b> E = Waterproof glass fibre
B	Cell Sides	24 = Galvanized steel 26 = Stainless steel <b>72 = MDF</b>
C	Separators	<b>H = Aluminium (HC pleat)</b>
D	Bond	<b>9 = Cold cured resin</b>
E	Gasket	P = No gasket <b>S = 7 mm, half round profile, one piece foamed</b> T = 6 mm, flat profile
F	Gasket Location	0 = No gasket <b>2 = One face</b> 3 = Both faces
G	Acceptance Level	G = H12 99.5% @ MPPS acc. to EN1822** <b>H = H13 99.95% @ MPPS acc. to EN1822</b> R = H14 99.995% @ MPPS acc. to EN1822

\* **Bold typeface:** standard execution

\*\* Non leaktested filter

## Standard Sizes and Ratings

Size in mm without gasket			Nominal airflow	
H	W	D	m <sup>3</sup> /h	m <sup>3</sup> /s
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 HC filters should always be installed with the separators in the vertical position.

### Notes:

- Initial resistance at nominal airflow is:  
300 Pa for H12 / H13 filters  
350 Pa for H14 filters.
- Recommended final resistance 750 Pa.
- Temperature limit: 90°C.  
(200°C for A 24 H 5 Y 2 G),  
(260°C for A 26 H 5 Y 2 G).

## How to Order

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

Item	A	B	C	D	E	F	G
<b>Component Definition</b>	<b>A</b>	<b>72</b>	<b>H</b>	<b>9</b>	<b>S</b>	<b>2</b>	<b>H</b>

## Efficiency

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

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