

HIGH CAPACITY HEPA FILTERS

APPLICATION

Filta-Matix high capacity HEPA filters are produced with absolutely no compromise to quality. Any other approach would be unthinkable given the fact that this product protects people and is responsible for protecting processes where harmful particles cannot be permitted to enter the air.

Used in the most demanding environments such as Cleanrooms, Gas turbines and Isolation rooms and in industries such as Pharmaceutical, Nuclear, Microelectronics, Healthcare and Biotechnology for instance. Nuclear grade media complies to ASME.AG-1B-2010-AX 3398 for stability and seismic safety.

FILTER DESIGN

High capacity HEPA filters are the most efficient, energy saving HEPA and ULPA filters.

Assembled into V-Banks to provide substantially more media in each filter cell. The large effective media area provides greater airflow capacity at low resistance and exceptionally long service life.

High capacity HEPA filters are available from class H13 to U17, with an MPPS of 99.5% to 99.999995%.

The media is pleated using PLC controlled media

spacing technology for optimal airflow and best media performance. This proprietary technology ensures low resistance when considering static and dynamic differential pressure.

Intermediate hot melt or glass separators ensure uniform pleat spacing and the ability to form a rigid self supported media pack. The media pack is permanently sealed to the filter frame using a solid polyurethane or epoxy sealant.

The frame can be produced from galvanised steel, stainless steel, polycarbonate or ABS plastic.

FILTER GASKETS

Several filter gasket options are available including seamless polyurethane, poron, neoprene, EDPM and silicone.

Gel seal construction is used where holding frame designs rely on knife edge sealing technology.



SUSTAINABILITY & DISPOSAL

From a sustainability point of view Filta-Matix high capacity HEPA filters are an excellent choice because they are designed to last a long time.

When it is finally time to change the filter one must consider the disposal costs. Decontamination using

Hydrogen Peroxide Vapour allows one to use standard instead of medical or hazardous waste disposal methods which save costs. A service offered by Filta-Matix which is concluded by the issuing of a safe disposal certificate.

WORLD CLASS PLEATING TECHNOLOGY



EN 1822:2009 FACTORY TESTS

Each and every HEPA filter is factory tested to EN 1822:2009 and ISO 29463 standards without exception. The entire filter is scanned using a traversing CNC probe across the filter face to search for leaks and to measure filter efficiency in accordance with global standards.

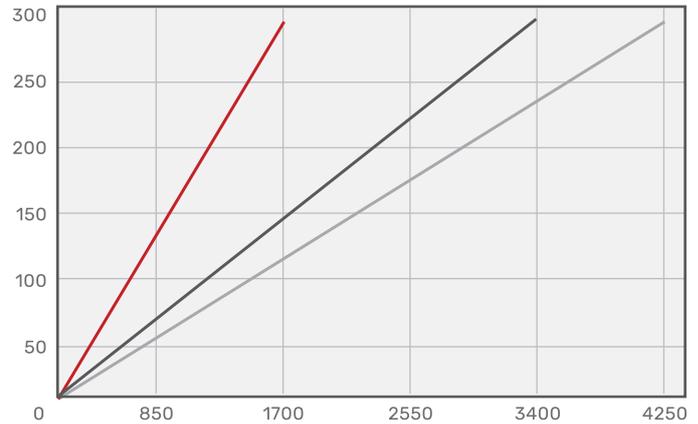
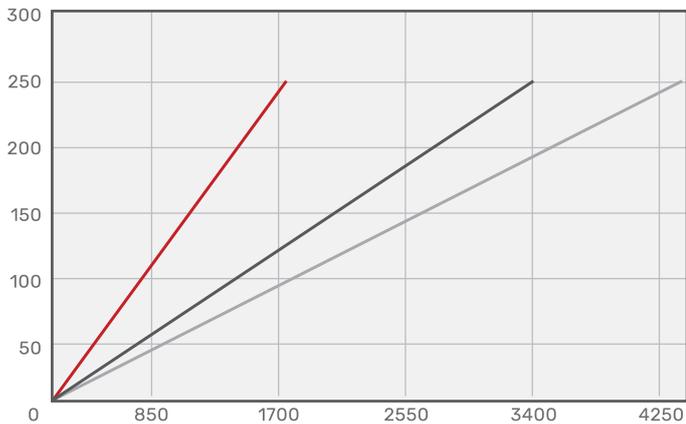


The standard dictates that a mandatory test report has to be issued which depicts the following minimum information:-

- Date of test
- Filter size
- Test airflow rate
- Differential pressure at test airflow rate
- Local and overall efficiency at most penetrating particle size (mpps)
- Filter serial number



The most technologically advanced 5 axis servo driven minipleat machine with 2500 sets of program automatically compensates for different filter media. Variable pleat depth adjusted by touch screen PLC system. Client and raw material software input for 100% traceability.



NS20

NS34

NS40

NS20

NS34

NS40

Filter performance in relation to media area for 610 x 610 x 292 HEPA filter

NS20

NS34

NS40

	H13	H14	H13	H14	H13	H14
Nominal volume flow rate	1750m³/h	1750m³/h	3400m³/h	3400m³/h	4000m³/h	4000m³/h
Effective media area	20m²	20m²	34m²	34m²	40m²	40m²
Efficiency according to EN 1822	>99.95%	>99.995%	>99.95%	>99.995%	>99.95%	>99.995%
Initial differential pressure at nominal volume flow rate	250 Pa	310 Pa	250 Pa	310 Pa	250 Pa	310 Pa
Recommended final differential pressure	600 Pa					
Maximum operating temperature for standard HEPA filters	80°C	80°C	80°C	80°C	80°C	80°C
Maximum operating temperature for high temperature HEPA filters	250°C	250°C	250°C	250°C	250°C	250°C
Maximum relative humidity	100%	100%	100%	100%	100%	100%

High capacity HEPA filters are produced to customer specification. The filter size and efficiency can be changed to suit the application.

View video here: [HIGH CAPACITY HEPA FILTER](#)

EASTERN & WESTERN CAPE
 Cnr Zinfandel & Buketraube St,
 Saxenburg Park 2
 Blackheath
 cape@filtamatix.co.za
 Tel: 021 905-0055
 Fax: 086 660 4025
 Fax: 086 667 2224

KWA-ZULU NATAL
 6 Boulders Park
 2 Wiltshire Road
 Marianne Industrial Estate
 kzn@filtamatix.co.za
 Tel: 031 791-2165
 Fax: 031 791-2154

GAUTENG
 23 Basalt Street
 Alrode Ext 7
 Alberton
 cleanair@filtamatix.co.za
 Tel: 011 908-1150
 Fax: 086 667 2224