

# HEPA filter



- ➔ HEPA efficiencies of 95% up to 99.9995% (@ 0.3 µm)
- ➔ Finedust efficiencies of 60% up to 98% ASRHAE
- ➔ High quality micro fibreglass media
- ➔ Lowest initial pressure drop
- ➔ Rigid frames
- ➔ Frame height of 68mm up to 292mm
- ➔ High quality standard due to Quality Assurance System
- ➔ HEPA filter tested by laser particle counting system
- ➔ Highly economical through high final pressure drop
- ➔ For use in Clean Rooms up to class 1
- ➔ Usable in two flow directions

## Description:

High Efficiency Particulate Air Filters (HEPA) and Ultra Low Penetration Air Filters (ULPA) are the most efficient air filters commercially available. They have a broad application in clean rooms and other areas requiring the highest levels of contamination control.

## Construction:

HEPA filters are available in a variety of construction materials. Available types include; particle board or metal construction, single or double flange, conventional or fluid seal.

The filter media is manufactured from sub-micron glass fibres formed into high density paper. Continuous sheets are pleated to provide a high ratio of media area to face area, resulting in low media velocity which is essential for ultra high efficiency filtration.

HEPAs are available in aluminium separator type or close pleat configuration. The sealing to filter housing or frame is achieved through a leak-free, dry seal system. High capacity HEPAs are also available.

## Efficiency

HEPA Efficiency - 99.99% minimum efficiency on 0.3 micron particles.

Every HEPA filter is individually tested to international standards before it leaves the manufacturers factory. The penetration and actual resistance at test air flow rate are clearly indicated on the filter label.

## Installation:

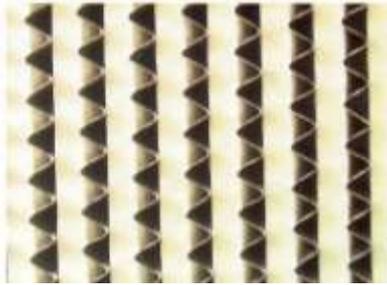
Filters are installed into specially designed modules or permanent mounting frames which incorporate clamps, that when tightened ensure that the filters gasket is sealed against the mounting frame.

Filter installation should be on-site NATA certified to ensure that the HEPA filter was not damaged during delivery or installation and to ensure the integrity of the seal between the filter/frame seal.

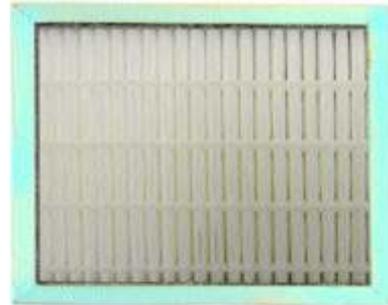
Due to the high performance of the HEPA filter it is recommended that a pre filter be installed to extend the service life of the filter.

It is also recommended that a pressure gauge be installed across the filter bank, to ensure optimum filter life is achieved.

# HEPA filter



**Aluminium separator  
media pack**



**Separatorless  
media pack**

## Aluminium separator style:

| Part no. | Size             | Capacity l/s @ 250 Pa. |
|----------|------------------|------------------------|
| 6-0054   | 305 x 305 x 150  | 93                     |
| 6-0055   | 305 x 610 x 150  | 186                    |
| 6-0060   | 305 x 610 x 292  | 282                    |
| 6-0056   | 610 x 610 x 150  | 372                    |
| 6-0061   | 610 x 610 x 292  | 566                    |
| 6-0057   | 610 x 762 x 149  | 465                    |
| 6-0062   | 610 x 762 x 292  | 706                    |
| 6-0058   | 610 x 914 x 150  | 557                    |
| 6-0059   | 610 x 1215 x 150 | 743                    |

## Separatorless style:

| Part no. | Size             | Capacity l/s @ 250 Pa. |
|----------|------------------|------------------------|
| 6-0004   | 305 x 305 x 150  | 70                     |
| 6-0005   | 305 x 610 x 150  | 140                    |
| 6-0010   | 305 x 610 x 292  | 280                    |
| 6-0006   | 610 x 610 x 150  | 280                    |
| 6-0010   | 610 x 610 x 292  | 560                    |
| 6-0007   | 610 x 762 x 149  | 350                    |
| 6-0018   | 610 x 762 x 292  | 690                    |
| 6-0008   | 610 x 914 x 150  | 420                    |
| 6-0009   | 610 x 1215 x 150 | 560                    |

## Fluid seal style:

| Part no. | Size             | Capacity l/s @ 250 Pa. |
|----------|------------------|------------------------|
| 6-2000   | 560 x 560 x 210  | 300                    |
| 6-2001   | 560 x 890 x 210  | 462                    |
| 6-2002   | 560 x 1160 x 210 | 624                    |