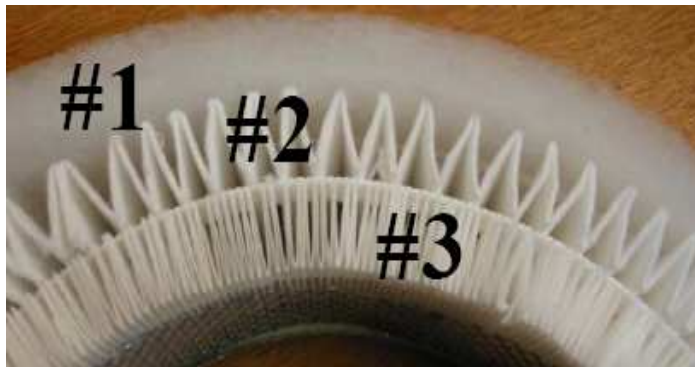


ULTRATOP TurboMaster HEPA 3S



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- #1 Pre filter sock (F5)
Acts as coalescer and protects #2 pre filter.
Can be replaced during normal operation of turbine.
- #2 Fine filter (F8) variable filter area
Removes water droplets and particles >3.0 microns.
Protects #3 HEPA filter.
- #3 HEPA filter (H11) variable filter area
Efficient sub-micron filtration

Converting pulse clean system to static

In gas turbine air intake applications pulse filters were originally used in dry desert areas to ensure plant operation under sand storm conditions rather than to maintain high filtration efficiency.

When an environment is moist or the filtered dust consists of urban or industrial emissions, e.g. unburned hydrocarbons, soot etc. the pulse filters suffer and are inadequate in operation both economically and technically.

The initial efficiency of pulse filter material is low compared to static filtration materials and very often consists of a large proportion of cellulose fibers.

Cellulose fibers tend to expand when exposed to moist air conditions and as a result generate a pressure drop rise.

Also dirt will wash through pulse filters during fog or rain, which has been the case in many pulse clean installations.

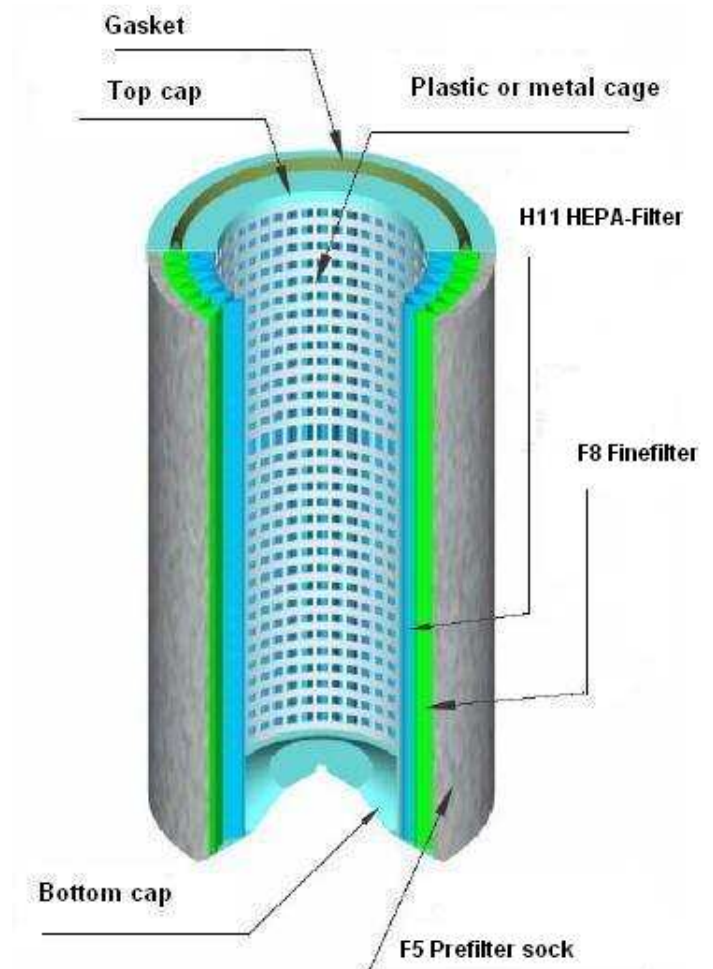
As a result of these facts, pulse clean filters should only be considered as the last alternative for power plants.

Any pulse clean system can easily be replaced with our four stage static cartridges. The **TurboMaster HEPA 3S**, consist of a pre filter, fine filter and HEPA filter. This makes it possible to have a filtration system that is equivalent in efficiency to a static filter system without any changes to the filter housing.

The life time of **TurboMaster HEPA 3S** is longer than pulse filter cartridges or regular static fine filter elements due to the lower air flow per filter associated with pulse system design. According to field data, by using static filter cartridges it is possible to achieve substantial economical and operational improvements.

Pre- and Fine Filter are 100% synthetic and hydrophobic

High Efficiency without electrostatic charge



- Schutzvermerk nach ISO 16016 – Protection notice as per ISO 16016 -

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