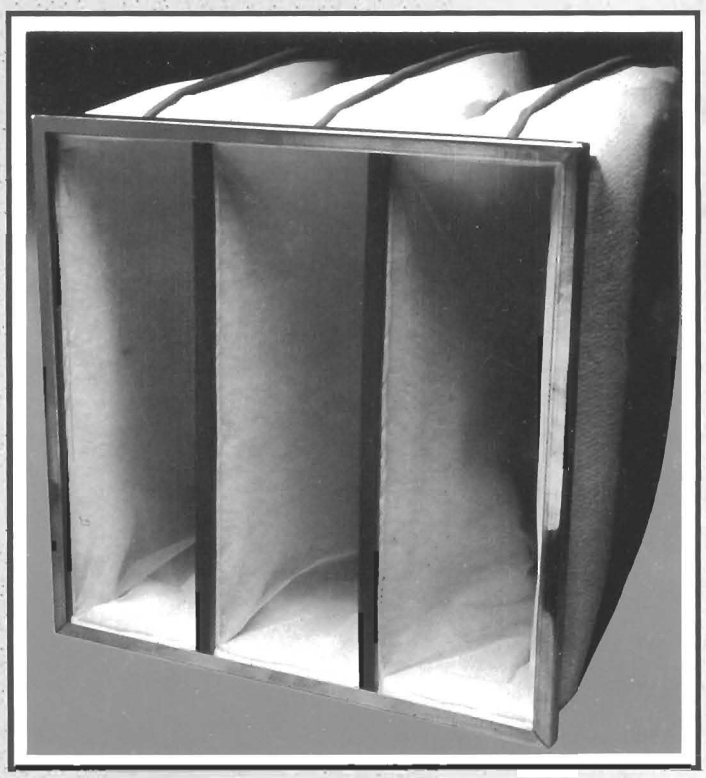
ALTAIR

Data Sheet

Air Filters
and Separators
for Marine
and Industrial Applications.

HV2 Bag Filter

The Altair HV2 is a product of the latest advances in filter technology. It is a high velocity, high efficiency bag filter designed for use wherever large quantities of water, salt or dust are a problem. The HV2 is extensively specified and used to protect gas turbine engines in any demanding environment; also for diesel air intakes, HVAC and for industrial applications where high efficiencies are vital and space is limited.



Offshore/Coastal Use

For marine environments, the Altair System 2 is recommended. This compact unit combines the HV2 with a vane separator to provide substantially higher salt efficiencies and higher dust holding capacities than conventional systems.

The HV2 operates equally well in WET or DRY conditions. It reduces salt to 0.0013 p.p.m salt/air against the NGTE 30 knot standard. This easily satisfies the new stringent limits that have been set to protect gas turbine engines performing at higher temperatures.

A major advantage of the HV2 bag is its ability to cope with drilling cement, even when wet. Instead of blocking up as the mixture 'sets', the HV2 operates as normal with an efficiency of 98.8% against typical drilling dusts.

On oil and gas production platforms with very high levels of drilling dust and shot blast debris (or other very dusty environments) a prefilter may be used to increase the life of the HV2 bag. The Altair PB1 prefilter bag has been specifically developed for this purpose and fits inside the HV2 bag, using the same holding frame. The PB1 is easily cleaned and may be removed or replaced with the turbine running.

Desert Use

For desert locations a suitable filtration arrangement is the Dustorm self-cleaning inertial filter, followed by the HV2. For certain installations the PB1 prefilter bag may be included as a first media stage between the Dustorm and HV2. This system provides high filtration efficiency against the very heavy dust loads encountered in a desert environment.

Industrial Use

Used by itself, (downstream of weather louvres or a weatherhood), the bag provides a complete high efficiency filtration system against an industrial environment. Where dust loads are particularly heavy, the HV2 will normally be used behind a 1st stage self cleaning inertial louvre such as the Altair Dustorm or other suitable prefilter.

Special features include:-

- **high dust holding capacity.**
- **high filtration efficiencies.**
- **small face area.**
- **operates at high velocities.**
- **inert to most chemicals. Will not shed fibres.**
- **robust construction.**
- **wide range of operating temperatures.**
- **reduces filtration costs.**

Typical Applications

The HV2 is now used extensively on offshore oil and gas production rigs. It is ideal for use in power stations, steel mills, food factories, plastics factories, chemical plants etc. Equipment protected by the HV2 includes marine and industrial gas turbines, compressors and air conditioning systems.

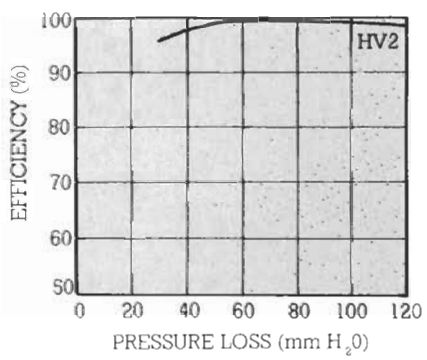
Maintenance

Although the HV2 bag is made from materials which are inherently washable, it is anticipated that the filter will normally be treated as a replaceable item. The high dust holding capacity and efficiency result in a reduction of filter change out and compressor washing frequencies. Therefore maintenance requirements and costs are minimized.
The bag pockets are retained in a stainless steel channel frame which fits into the Altair front access frame. When in position the HV2 bags are easily accessible and are removed and replaced in seconds.

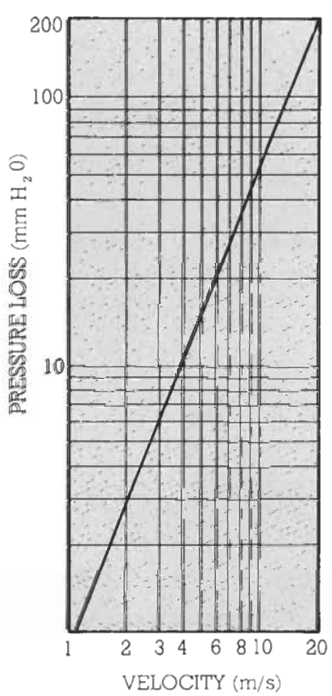
Performance Data

This data is a guideline only, for more detailed information please contact Altair.

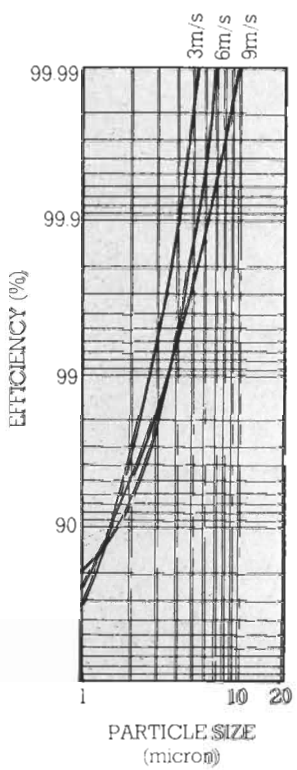
Dust Efficiency (AC Fine)



Pressure Loss (Δ p)



Salt Efficiency



Standard bag sizes:

597 x 597 x 610mm
23½" x 23½" x 24"

1000 x 496 x 610mm
39½" x 19½" x 24"

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Altair also manufacture:

Complete systems to customers specifications
Acoustic packages
Self-cleaning filter systems
Front, side and rear access holding frames
Permanent cleanable bag and panel air filters
Disposable bag filters
Carbon filters
Marine separators
Stormproof louvres
Weather louvres
Grease filters
Fume extraction units
Cleaning fluids (non-caustic and non-ionic)