

## altair® High Efficiency Pocket Filters



The CLARCOR Industrial Air **altair** inlet filtration solutions provide a high level of protection for gas turbines located in offshore and coastal environments. Designed to operate at high velocities, the system has a small filter face area, making the unit compact and providing flexibility in site layout.

The **altair** high efficiency pocket filters—the HEA, HXA and HVA—give a range of performance characteristics to suit specific requirements. Designed to protect gas turbines in atmospheres with high levels of sub-micron particulate, they also provide a barrier against more common contaminants like wet and dry salt aerosols, drilling muds, grit blasting debris, and hydrocarbons. The use of advanced synthetic media combinations helps provide filtration and pressure loss characteristics that remain optimized when operating in wet or dry conditions. Durable features like fully stainless steel header frames and salt-resistant sealing gaskets help protect the filters from corrosion during normal operation.

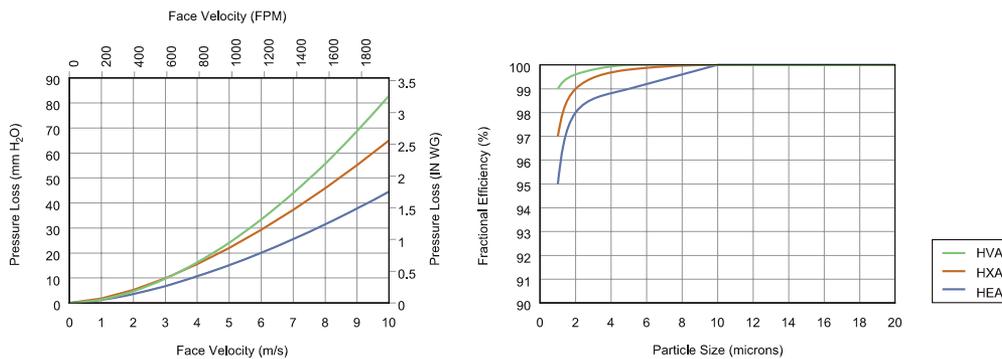
As an integral part of the **altair**Aquila inlet system, the **altair** filters—in conjunction with marine vane separators—significantly reduce salt concentrations, prolonging turbine life and reducing maintenance downtime. Filters can be selected according to operational requirements to provide a range of benefits, including increased turbine output, reduced fuel consumption and extended filter life. In heavily contaminated environments, a high efficiency filter can be used in combination with the **altair** PFA prefilter.

### KEY BENEFITS

- High volume flow gives small filter face area (up to 65% smaller than conventional designs)
- High dust-holding capacity and longer filter life help reduce filtration costs
- Excellent salt removal in all conditions helps protect against turbine corrosion
- Low pressure loss helps increase power output and improve fuel efficiency
- Fully stainless steel housing provides long life

### Performance Data

	HEA	HXA	HVA
Gravimetric efficiency (arrestance) vs. ASHRAE test dust	98%	99%	>99%
Salt output† vs. NGTE 30 knot aerosol†† (efficiency)	0.0002 ppm	0.00018 ppm	0.00018 ppm



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