

## altair® PFAH and PBRH Pocket Filters, and DSB8 Panel Filters

### Pre-Filters for High Dust Offshore and Coastal Applications

The Parker Hannifin range of altair pre-filters is designed to enhance and extend the performance of high-efficiency filters protecting gas turbines operating in high-dust environments in offshore and coastal locations.

The altair PFAH pre-filter bags are designed for use with the Parker Hannifin altair HEA, HXA, and HVA pocket filters from the altair®Aquila range. altair PBRH pre-filter pockets are designed for use with the Parker Hannifin HVL, HVX, and HVV high efficiency pocket filters from the altairSystem2\* range.

The altair DSB8 panel filter is designed for use on its own, or as a pre-filter in front of selected altair high efficiency filter pockets, including the HV2, HV3, HVL, and HVX.

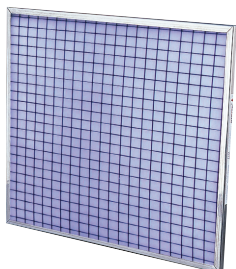
When used in conjunction with final filters, the altair PFAH, PBRH, and DSB8 pre-filters significantly help increase the dust-holding capacity of the system and the life of the high-efficiency filters. They may be changed-out on load, leaving the final filters in place to protect the turbine. The altair DSB8 panel can also be used on its own in air-conditioning and ventilation systems.

By using the Parker Hannifin proven bag-in-bag arrangement, the altair PFAH and PBRH pre-filter elements can be installed with no increase in system length. The DSB8 sits in front of the high efficiency pockets, on the same holding framework, adding only 22 mm (0.9") to the system depth.

Any of these altair filters can also be installed as an addition to, and in front of, an existing system as a supplementary "first line of defense" to provide short-term protection against seasonal higher dust loads such as Harmattan-borne dust.

### Key Benefits

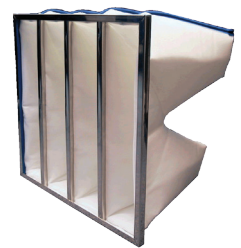
- Substantially increases the life of high-efficiency final filters operating in dusty environments
- Fully cleanable and can be changed-out on load, avoiding the need for turbine shutdown
- High volume flow, leading to smaller filter face area (up to 65% smaller than many conventional designs)
- High dust-holding capacity and long filter life help to reduce filtration costs
- Low pressure loss helps contribute to increased power output and/or improved fuel efficiency



altair DSB8



altair PFAH

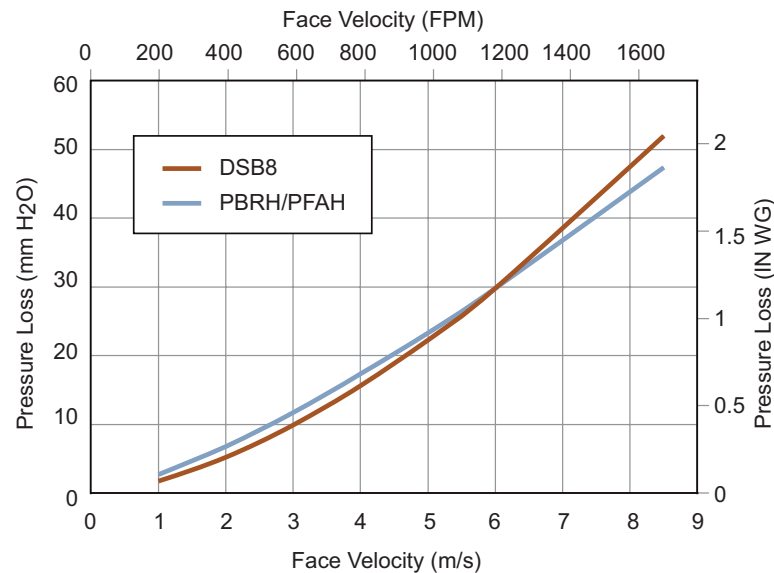


altair PBRH

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## Performance Data

	DSB8	PFAH	PBRH
EN779:2002 rating	G2	F5	F5
ASHRAE dust-holding capacity (700 Pa)	115 g / 0.25 lb	330 g / 0.73 lb	330 g / 0.73 lb



## Construction

The use of advanced synthetic media combinations in these **altair** filters provides filtration and pressure loss characteristics that remain enhanced when operating in wet or dry conditions. The choice of stainless steel header frames further helps reduce corrosion or other degradation of the materials during operation. Standard dimensions are 580 mm H x 620 mm W (22.8" x 24.4"); other sizes available on request.

## Maintenance

Dry dust is easily removed from the **altair** PFAH and PBRH filters by inverting the bag and lightly beating the media, or by washing with water. Greasy contaminants can be removed by washing with Parker Hannifin proprietary cleaning fluid and rinsing with fresh water. The **altair** DSB8 pre-filter media pad is replaceable, allowing operators to reduce maintenance costs by reusing the stainless steel frame and retaining mesh. Replacement should occur at a predetermined pressure loss.

