Fibertex[®] E-Flow

Pocket filter media



Fibertex has launched a new high-performance pocket filter media range, that offers a sustainable and energy-efficient filtration solution for the HVAC segment.

Public building ventilation systems consume a considerable amount of energy, also due to the pressure loss of air filters, which has a significant impact on costs. HVAC systems - which control the temperature, humidity and purity of air - are designed to provide thermal comfort and pleasant indoor air quality. Around 20% of the world's energy consumption is from HVAC systems in buildings. With the increasing focus on comfort and thermal well-being, as well as stricter hygiene limits, especially in public buildings, and increasing energy prices, there is a critical requirement for efficient energy-saving HVAC systems.

A challenge for filtration systems is that during the operation of HVAC systems, dust particles aggregate and accumulate on the filter, causing an increase in pressure drop, and greater energy is required to push air efficiently through the filter.



The Fibertex solution

Fibertex® E-Flow Pocket filter material, which is based on a fully synthetic nonwoven thermal bonding structure, is supplied to leading companies producing pocket filters.

The advanced structure and innovative fibre mixture ensure mechanical filtration with a high dust holding capacity and low pressure drop, resulting in significant energy savings and longer service life for the finished pocket filtres.

Value proposition - how we add value to your business

Energy consumption can be reduced by approximately 33% when using Fibertex® E-Flow Pocket filter media, compared to competitors' filter media, with the same filter class. The Fibertex® E-Flow Pocket filter material is meticulously engineered to control the accumulation of dust particles, preventing a rapid pressure drop. Pocket filters provide exceptional performance, ensuring a long service life and low operating costs for end users.





Dust load, Initial arrestance & Pressure drop test in Fibertex laboratory

Fibertex[®] materials offer up to 94% longer filter life time along with lower operating costs, even while maintaining the same amount of filtration material compared to competing filtration media. These results are due to the advanced structure with a high dust holding capacity.

Fibertex[®] new product range includes filtration media of ISO Coarse 65 %, ISO Coarse 80 %, ISO Coarse 85 %, ISO Coarse 95 %, ISO ePM_{2.5} 75 % and ISO ePM₁ 85 % classes.



Product specification

Characteristic	Method	Unit	Fibertex® E-Flow Vigonair 151 8 C85	Comparative competitive materials*	
Filter class	EN 16890-1	-	ISO Coarse 85 %	ISO Coarse 85 %	ISO Coarse 85 %
Ai - Initial gravimetric arrestance @ 22 cm/s	EN 16890-3	%	85.1	79.5	73.9
Initial pressure drop @ 22 cm/s	EN 16890-2	Ра	14	8	8
Final pressure drop @ 22 cm/s	EN 16890-2	Ра	200	200	200
Dust holding capacity @ 200 Pa	EN 16890-3	g/m²	642	293	330
AEC - Annual energy consumption**	Eurovent 4/21 - 2018	kWh/y	360	537	462

* obtained in EU filter market

** Annual Energy Consumption (AEC) - Estimated electricity consumption per year due to an air pocket filter made from listed filter media (recalculated for filters rated at 0.944 m³/s and final dust load 600 g/m²) as defined in Eurovent Document 4/21 - 2018 (kWh/annum).

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