



Ahlstrom Molecular HVAC

Purifying air, protecting personal health and comfort

Quality of air in residential and commercial buildings is a major public health and safety challenge. Ahlstrom filtration media for Heating, Ventilation and Air Conditioning (HVAC) applications, protect people and processes from harmful pollutants in ambient air, reducing the risk of airborne contamination and increasing the comfort of life.

Ahlstrom Molecular HVAC portfolio has been specifically designed for HVAC applications where odors and VOC's need to be removed from the ambient air. It is based on our unique our proprietary Trinitex[®] technology, allowing the incorporation of specific activated carbon formulation inside the fibrous structure.

A premium choice for panel, bag and compact filters designed to improve indoor air quality in urban and industrial areas through efficient removal of gaseous pollutants.

Benefits

- ✓ **Optimal gas adsorption capacity and reliability** – extending operational filter lifetime.
- ✓ **Excellent pleatability, including on rotary pleater** – increasing productivity and filter quality.
- ✓ **Extensive product offering** – available with different stiffness level and carbon content.
- ✓ **Ability to combine gaseous and particles removal** – delivering a unique 2 in 1 solution.
- ✓ **Proven ability to customize** – using extensive and demonstrated know-how.

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Based on our proprietary Trinitex® technology allowing the simultaneous formation of 3 wetlaid layers in 1 step, our Molecular HVAC filter media incorporate granular activated carbon in the middle layer. Intrinsically flame retardant, our Molecular HVAC range delivers excellent pleating performance, reliable and optimal adsorption of odors and VOCs, along with durability in most operating conditions.

Our Molecular HVAC portfolio covers 3 levels of activated carbon content from 200gsm to 400gsm; and is available in a stiff design for pleated panel or compact filters, or in a soft, high permeability design (K936) for bag filters. The portfolio is completed with a unique 2-in-1 Trinitex® concept (K1070) combining activated carbon and microglass in the middle layer, for an efficient removal of gaseous pollutants and particles (ePM2.5 50% according to ISO16890).

Our flexible production platform and our state-of-the-art lamination capabilities, opens up a complete panel of customization including antimicrobial performance, fine-tuned efficiency or grammage, and composite structures.

Key Grade Characteristics

	Basis Weight	Thickness	Air Permeability	Stiffness MD	Efficiency Class	Carbon Content	Initial Breakthrough Toluene*	Capacity Toluene at 95% Breakthrough*
Grades	g/m ²	µm	L/m ² /s @ 200 Pa	mg	ISO16890	g/m ²	%	g/m ²
K1095 300	300	1,450	1,550	7,000	Coarse	200	26	46
K1063 400	400	1,800	1,300	6,100	Coarse	300	12	68
K1021 500	500	2,200	1,200	6,500	Coarse	400	5	124
K936 500	500	2,400	1,500	2,300	Coarse	400	5	124
K1070 500	500	2,600	300	12,000	ePM2.5	250	18	58

*According to DIN71460-2 with 80ppmv, 0.1 m/s, 50%RH

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