



# Ahlstrom Glass 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 Glass HVAC portfolio covers a complete range of 100% mechanical, glass microfiber based, filtration solutions keeping excellent performances over time:

- **Glass HVAC – Pre-Filtration** offer has been designed to effectively remove coarse particles as a first stage of filtration extending operational lifetime of downstream filters.
- **Glass HVAC – Fine Filtration** offer has been designed to effectively remove fine particles as a 2<sup>nd</sup> stage of filtration protecting high efficiency filter media or as final filters for HVAC applications.

## Benefits

- ✔ **Complete range of efficiency** – from Coarse to ePM1 rating (ISO16890)
- ✔ **Superior pleating performance** – excellent pleat shape and high consistency.
- ✔ **Extended manufacturing platform** – 2 production sites in Italy including a state-of-the-art new machine at Turin.
- ✔ **“-A” series** – specifically designed to reach the lowest energy consumption.
- ✔ **Proven ability to customize** – using extensive and demonstrated know-how.

## Ahlstrom Glass HVAC – Pre-Filtration

Our Glass HVAC Pre-Filtration portfolio covers two levels of mechanical efficiency: Coarse 85% and ePM10 65% according to ISO16890 standard. Glass fiber structure of the media delivers reliable removal of coarse particles along with an outstanding durability. Excellent sheet formation guarantees consistent and optimal filtration characteristics, and superior pleating performances.

### Key Grade Characteristics

	Basis Weight	Average Efficiency Class	Thickness	Pressure Drop @ 5.3 cm/s	MD Tensile	MD Stiffness
Grades	g/m <sup>2</sup>	ISO16890:2016	µm	Pa	N/m	g
<b>55ASCO90T58</b>	58	Coarse 85%	340	3	1960	1.1
<b>65ADF60IT</b>	68	ePM10 65%	350	11	1640	1.2

## Ahlstrom Glass HVAC – Fine Filtration

Our Glass HVAC Fine Filtration portfolio covers a wide range of mechanical efficiency from ePM2.5 to highest ePM1 ratings according to ISO16890 standard. The portfolio is characterized by low pressure drop and high dust holding capacity, additionally excellent pleating performance; an optimal choice for deep-pleat and mini-pleat applications.

To meet most challenging market requirements in terms of energy consumption, Ahlstrom has developed “-A” series, a family of products designed to reach the lowest level of pressure drop and an optimized dust holding capacity.

Our flexible production platforms and our state-of-the-art lamination capabilities, opens up a complete panel of customization including: silicon-free water and oil repellent treatment, antimicrobial feature, fine-tuned efficiency or basis weight, dual layer design or 1-side / 2-side spunbond lamination. The references in the table below represent only a selection of the most common glass grades of the portfolio.

### Key Grade Characteristics

		Basis Weight	Average Efficiency Class	Thickness	Pressure Drop @ 5.3 cm/s	MD Tensile	MD Stiffness
Grades	Category	g/m <sup>2</sup>	ISO16890:2016	µm	Pa	N/m	g
<b>80ASF70IT</b>	Standard	68	ePM1 55 %	380	28	1370	12
<b>80ASF70IAT</b>	-A	68		380	22	1200	12
<b>90ASF80IT</b>	Standard	68	ePM1 65 %	400	39	1370	12
<b>90ASF80IAT</b>	-A	68		360	33	1200	12
<b>90ASF90IT</b>	Standard	68	ePM1 80%	360	58	1370	12
<b>90ASF90IAT</b>	-A	68		360	55	1200	12

Contact Ahlstrom Sales: ✉ [filtration@ahlstrom.com](mailto:filtration@ahlstrom.com)

[www.ahlstrom.com](http://www.ahlstrom.com)



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