Ahlstrom-Munksjö
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-Munksjö 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-Munksjö 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 2nd 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).
- **Extended manufacturing platform** – 2 plants in EMEA, including a unique pre-filter platform in Finland.
- **"-A" series** – specifically designed to reach the lowest pressure drop and energy consumption.
- **"Dual layer" series** – specifically designed to maximize filter lifetime and increase service intervals.
- **Proven ability to customize** – for enhanced protection and air purification.

Ahlstrom-Munksjö Glass HVAC – Pre-Filtration

Our Glass HVAC Pre-Filtration portfolio covers two levels of mechanical efficiency: Coarse 90% and ePM10 65% according to ISO16890 standard. Glass structure of the media delivers reliable mechanical removal efficiency of coarse particles along with superior stiffness and pleating performances.

Coarse and ePM10 ISO16890 Glass HVAC media are manufactured on a unique asset in Finland delivering low pressure drop, excellent mechanical resistance and optimal production efficiency for cost effective prefiltration.

Key Grade Characteristics

	Basis Weight	Average Efficiency Class	Thickness	Pressure Drop @ 5.3 cm/s	MD Tensile	MD Stiffness
Grades	**g/m²**	**ISO16890:2016**	**µm**	**Pa**	**N/m**	**g**
55ASCO90K	68	Coarse 90%	400	7	2620	1.0
65ASM1065K	68	ePM10 65%	500	9	2550	1.1

Ahlstrom-Munksjö 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 specific market requirements, Ahlstrom-Munksjö has developed a wide product portfolio, including the "-A" series, specifically designed to reach the lowest pressure drop and energy consumption. Also the "dual layer" series, which have been specifically designed to maximize filter lifetime and increase service intervals.

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 performance, fine-tuned efficiency or grammage, multi-layer structures. 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/m²**	**ISO16890:2016**	**µm**	**Pa**	**N/m**	**g**
80ASM155	Single	68	ePM1 55%	480	30	1000	1.0
80ASM155A	-A	68		470	19	1000	1.0
85ADM155	Dual	78		520	30	1100	1.1
90ASM170	Single	68	ePM1 70%	460	41	1300	1.0
90ASM170A	-A	68		460	31	1000	0.9
95ADM170	Dual	78		500	38	1500	1.1
90ASM180	Single	68	ePM1 80%	460	57	1000	1.0
90ASM180A	-A	68		450	48	1000	1.0
95ADM180	Dual	78		510	57	1100	1.1

Ahlstrom-Munksjö Glass HVAC portfolio can be offered with an upstream laminated functionalized spunbond, delivering anti-bacterial and anti-fungal properties, according to the standards: AATCC TM100, JIS L 1902:2008 and EN ISO 846:2019 Part A,B and C.

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