



# 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 is designed to offer a complete range of competitive glass microfiber-based solutions, covering the full spectrum of ISO16890 efficiency classes from ePM10>65% to ePM1>95%.

## Benefits

- ✔ **Complete range of efficiency** - from ePM10 to ePM1.
- ✔ **Extended manufacturing platform** - 2 production plants in Italy: Fabriano and a new green-field in Turin.
- ✔ **"-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** - using extensive and demonstrated know-how.

## Ahlstrom Glass HVAC

Our Glass HVAC Filtration portfolio covers a wide range of mechanical efficiencies from the coarse ePM10>65% to the finest ePM1>95% 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 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/m <sup>2</sup> | ISO16890:2016            | µm        | Pa                       | N/m        | g            |
| <b>65ASF601</b>  | Single   | 60               | ePM10>65%                | 450       | 11                       | 1200       | 0.8          |
| <b>65ADF601</b>  | Dual     | 68               | ePM10>65%                | 500       | 12                       | 1200       | 1.0          |
| <b>80ASM155</b>  | Single   | 68               | ePM1>55%                 | 480       | 30                       | 1000       | 1.0          |
| <b>80ASM155A</b> | -A       | 68               |                          | 470       | 19                       | 1000       | 1.0          |
| <b>85ADM155</b>  | Dual     | 78               |                          | 520       | 30                       | 1100       | 1.1          |
| <b>90ASM170</b>  | Single   | 68               | ePM1>70%                 | 460       | 41                       | 1300       | 1.0          |
| <b>90ASM170A</b> | -A       | 68               |                          | 460       | 31                       | 1000       | 0.9          |
| <b>95ADM170</b>  | Dual     | 78               |                          | 500       | 38                       | 1500       | 1.1          |
| <b>90ASM180</b>  | Single   | 68               | ePM1>80%                 | 460       | 57                       | 1000       | 1.0          |
| <b>90ASM180A</b> | -A       | 68               |                          | 450       | 48                       | 1000       | 1.0          |
| <b>95ADM180</b>  | Dual     | 78               |                          | 510       | 57                       | 1100       | 1.1          |
| <b>DOPH1001</b>  | Single   | 72               | ePM1>90%                 | 450       | 80                       | 1300       | 1.0          |

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