# F5, F6, F7, F8, F9 Class Bag Filter

## About this product

The bag filters are characterized by the use of hot-melt adhesive, which is a thermoplastic material, to secure the filter media in place within the filter frame.
The hot-melt adhesive is applied as a liquid and solidifies upon cooling, creating a strong bond between the filter media and the frame, which ensures that the filter media remains securely in position, even under high airflow conditions.
This bag filter media consists of a graduated multi-layer structure with each layer having a different density or filtration capability. Larger particles are captured near the surface, while smaller particles are caught in the denser, inner layers.

## Applications

· **Commercial Buildings:** used in the HVAC systems of offices, malls, and hotels to maintain indoor air quality.
· **Industrial Facilities:** manufacturing and chemical production, often require effective air filtration for worker health and product quality.
· **Hospitals and Healthcare:** essential in healthcare settings to maintain sterile environments and protect patients and staff from airborne contaminants.
· Suitable for serving as a pre-filter in **paint booths** in **the coating industry**.

## Specifications

- Grade: F5, F6, F7, F8, F9
- Frame options: Stainless steel, aluminum alloy, or ABS
- Graduated density structure enhances efficiency
- Secure seal at the connection ensures no air bypass or leaks under a high airflow rate
- 3 small pockets in each row divert and equalize the airflow, keeping bags in shape for better performance and lower energy consumption
- Long filter service life and high dust-holding capacity.

| Dimensions (mm) W*H* D | 592*592*600 | | | | |
|---|---|---|---|---|---|
| Filtration Grade | F5 | F6 | F7 | F8 | F9 |
| Air Flow (m³/h) | 3400 | 3400 | 3400 | 3400 | 3400 |
| Initial Resistance (Pa) | 35 | 65 | 85 | 95 | 125 |
| Final Resistance Recommended (Pa) | 450 | 450 | 450 | 450 | 450 |
| Average Weight Efficiency | 90% | 96% | 98% | >98% | >98% |
| Initial Efficiency | – | 50% | 60% | 85% | 93% |
| Dust Holding Capacity (g/□ ) | 1850 | 1200 | 1400 | 650 | 500 |

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|---|---|---|---|---|---|
| Temperature (°C) | 100 | 100 | 100 | 100 | 100 |
| Max Ambient Temperature (°C) | 80 | 80 | 80 | 80 | 80 |

## Technical Specifications