

Multi-Pleat™ BOSS

Premium high strength, high capacity pleated filter



FEATURES

Premium heavy-duty construction

Heavy gage expanded metal backing

High dust holding capacity media blend for long life

Low resistance to airflow saves energy

High wet strength, moisture resistant beverage-board frame

Available in 2" and 4" depths

Available in MERV 9, MERV 11 and MERV 13

Multi-Pleat BOSS Premium Performance Pleated Filter

Providing heavy duty performance in a long lasting pleated panel filter, the Multi-Pleat BOSS is manufactured with a heavy duty, metal support grid and durable moisture resistant beverage board frame. The Multi-Pleat BOSS filter's low initial resistance helps to lower operating costs and increase energy savings.

High Dust Capacity and Low Resistance

The Multi-Pleat BOSS media pack utilizes high lofted synthetic fibers, blended to create a consistent denier media. The media configuration allows maximum airflow while providing maximum dust holding capacity. The lofted blend loads at a slower rate, thereby increasing the filter life to twice the life of normal pleated filters. Combined performance measurables of lower resistance and higher dust holding capacity improves overall total cost of ownership.

Designed for Extreme Operating Conditions

Tough operating conditions require an equally tough filter to handle those conditions. The BOSS offers a sturdy, high moisture resistant beverage board frame, designed to meet the rigors of most conditions. The media is a heavy duty, lofted combination that provides high capacity dust handling capabilities. Quality media construction also provides reliable performance in the toughest conditions, including high moisture environments.

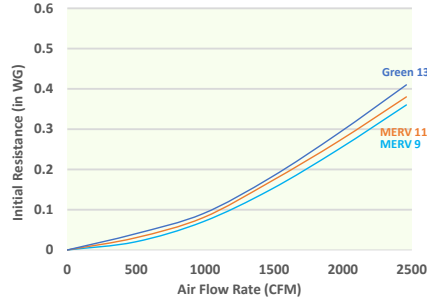
A heavy-duty, expanded metal pleat support grid increases filter rigidity, while supporting proper pleat spacing. Pleat design provides maximum efficiency, low resistance to airflow, and maximum dust handling capacity. The construction ensures a stable filter, eliminating racking and vibration of the pleats under normal airflow.

Multi-Pleat™ BOSS Performance Data

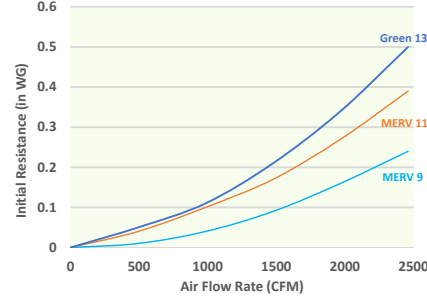
| Filter Depth | Air Velocity | Efficiency | Initial Resistance (inches w.g.) | Final Resistance (inches w.g.) | Pleats Per Linear Foot |
|--------------|--------------|------------|----------------------------------|--------------------------------|------------------------|
| 2" | 500 FPM | MERV 9 | 0.25 | 1.0 | 14 |
| 4" | 500 FPM | MERV 9 | 0.16 | 1.0 | 11 |
| 2" | 500 FPM | MERV 11 | 0.28 | 1.0 | 14 |
| 4" | 500 FPM | MERV 11 | 0.26 | 1.0 | 11 |
| 2" | 500 FPM | MERV 13 | 0.29 | 1.0 | 14 |
| 4" | 500 FPM | MERV 13 | 0.27 | 1.0 | 11 |

Initial Resistance vs. Air Flow Rate

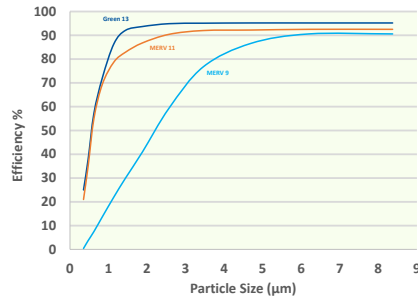
2 Inch Filter



4 Inch Filter



Efficiency by Particle Size



Multi-Pleat™ BOSS Specifications

| | |
|------------------------------|-----------------------------------|
| Filter Depth | 2" and 4" |
| Efficiency | MERV 9, MERV 11 and MERV 13 |
| Media | 100% Synthetic |
| Media Support | Expanded Metal on Downstream Side |
| Frame Type | Beverage Board |
| Max Operating Temperature | 200°F (93°C) |
| Recommended Final Resistance | 1" w.g. |
| Filter Certification | UL 900 and ULC-S111-07 |
| Manufacturing Certification | ISO 9001:2015 |

1.0 General Specifications

- Filters shall be Multi-Pleat BOSS extended surface pleated air filters as manufactured by Koch Filter.
- Filters shall be available in nominal depths of 2", 4" in high capacity configurations.
- Filters are classified by Underwriters Laboratories to UL 900 and ULC-S111-07.
- Filters are manufactured by an ISO 9001 registered company.

2.0 Filter Material and Construction

- Media shall be 100% synthetic media.
- Filters shall have an expanded galvanized steel support grid bonded to the air-exiting side of the filter to maintain pleat uniformity and prevent fluttering.
- Filter frame shall be comprised of a high wet strength beverage board with a cross member designed to increase filter strength and rigidity. Frame shall be recyclable.

3.0 Filter Performance

- Filters shall be MERV 9, MERV 11 or MERV 13 in high capacity configurations when tested in accordance with ASHRAE 52.2 Test Standard.
- Filters shall be rated to withstand a continuous operating temperature up to 200°F.
- Filters shall have a recommended final resistance of 1.0" w.g.

| MERV 9 | | |
|-------------|---------------|----------------|
| Part Number | Nominal Size* | Capacity (CFM) |
| | WxHxD | |
| 102-701-112 | 12 x 24 x 2 | 1000 |
| 102-701-116 | 16 x 20 x 2 | 1115 |
| 102-701-117 | 16 x 25 x 2 | 1400 |
| 102-701-118 | 18 x 24 x 2 | 1500 |
| 102-701-119 | 20 x 20 x 2 | 1400 |
| 102-701-120 | 20 x 24 x 2 | 1675 |
| 102-701-121 | 20 x 25 x 2 | 1740 |
| 102-701-122 | 24 x 24 x 2 | 2000 |
| 102-701-123 | 12 x 24 x 4 | 1000 |
| 102-701-125 | 16 x 20 x 4 | 1115 |
| 102-701-126 | 16 x 25 x 4 | 1400 |
| 102-701-127 | 18 x 24 x 4 | 1500 |
| 102-701-128 | 20 x 20 x 4 | 1400 |
| 102-701-129 | 20 x 24 x 4 | 1675 |
| 102-701-130 | 20 x 25 x 4 | 1740 |
| 102-701-131 | 24 x 24 x 4 | 2000 |
| MERV 11 | | |
| Part Number | WxHxD | 500 FPM |
| 102-500-112 | 12 x 24 x 2 | 1000 |
| 102-500-116 | 16 x 20 x 2 | 1115 |
| 102-500-117 | 16 x 25 x 2 | 1400 |
| 102-500-118 | 18 x 24 x 2 | 1500 |
| 102-500-119 | 20 x 20 x 2 | 1400 |
| 102-500-120 | 20 x 24 x 2 | 1675 |
| 102-500-121 | 20 x 25 x 2 | 1740 |
| 102-500-122 | 24 x 24 x 2 | 2000 |
| 102-500-123 | 12 x 24 x 4 | 1000 |
| 102-500-125 | 16 x 20 x 4 | 1115 |
| 102-500-126 | 16 x 25 x 4 | 1400 |
| 102-500-127 | 18 x 24 x 4 | 1500 |
| 102-500-128 | 20 x 20 x 4 | 1400 |
| 102-500-129 | 20 x 24 x 4 | 1675 |
| 102-500-130 | 20 x 25 x 4 | 1740 |
| 102-500-131 | 24 x 24 x 4 | 2000 |
| MERV 13 | | |
| Part Number | WxHxD | 500 FPM |
| 102-714-112 | 12 x 24 x 2 | 1000 |
| 102-714-116 | 16 x 20 x 2 | 1115 |
| 102-714-117 | 16 x 25 x 2 | 1400 |
| 102-714-118 | 18 x 24 x 2 | 1500 |
| 102-714-119 | 20 x 20 x 2 | 1400 |
| 102-714-120 | 20 x 24 x 2 | 1675 |
| 102-714-121 | 20 x 25 x 2 | 1740 |
| 102-714-122 | 24 x 24 x 2 | 2000 |
| 102-714-123 | 12 x 24 x 4 | 1000 |
| 102-714-125 | 16 x 20 x 4 | 1115 |
| 102-714-126 | 16 x 25 x 4 | 1400 |
| 102-714-127 | 18 x 24 x 4 | 1500 |
| 102-714-128 | 20 x 20 x 4 | 1400 |
| 102-714-129 | 20 x 24 x 4 | 1675 |
| 102-714-130 | 20 x 25 x 4 | 1740 |
| 102-714-131 | 24 x 24 x 4 | 2000 |