

PRODUCT BULLETIN

THE PURAFILTER

The Purafilter® is a combination chemical and particulate filter that integrates Purafil® patented dry-scrubbing media into a nonwoven fiber matrix. Purafilters can replace existing particulate filters in retrofit or rework applications as well as in new construction applications where building codes and standards require outdoor air cleaning for PM₁₀, PM_{2.5}, and ozone. The integrated sodium permanganate and activated carbon media add chemical filtration while providing the same level of particulate control.

Typical Applications: Commercial environments including hotels, airports, office buildings, data centers, schools, casinos, restaurants, museums, and athletic stadiums.

Longer Service Life: The Purafilter offers a higher media loading capacity and up to ten times the removal capacity of other chemical filters.

Superior Efficiency: The Purafilter offers the highest removal efficiencies and eliminates a broader range of odors and common indoor pollutants.

Easy Life Testing: The Purafilter can be tested to determine remaining service life. Purafil's filter monitoring program assures ongoing compliance with the Indoor Air Quality Procedure of ASHRAE Standard 62.1.

Permanent Odor Removal: The Purafilter will not desorb like traditional activated carbon filters and removes gases through an irreversible chemical reaction process.



COMMERCIAL GRADE SPECIFICATIONS (MERV 8*)

Pressure drop 2 inch	0.51 iwg
Pressure drop 4 inch	0.43 iwg

HEAVY-DUTY GRADE SPECIFICATIONS (MERV 15*)

Pressure drop 12 inch	0.47 iwg
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OPERATING RANGE

Temperature	4° F to 125° F (-20° C to 51° C)
Airflow	up to 500 ft/min (2.54 m/sec)

CONSTRUCTION

Chemical Media	7 media blends available
Frame	Paper, galvanized, or aluminum
Particulate Media	MERV 8 and MERV 15 available
Size	Available in all filter sizes

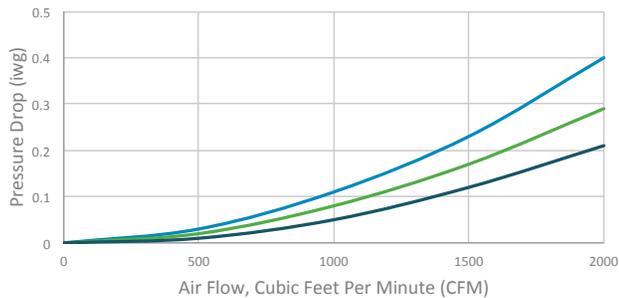
*Minimum Efficiency Reporting Value (MERV) in compliance with ANSI/ASHRAE Standard 52.2-2012. MERV 8 removes 35% of particulates as small as 3 µm (mold/spores). MERV 15 removes 85% of particulates as small as 0.3 µm (bacteria/smoke).

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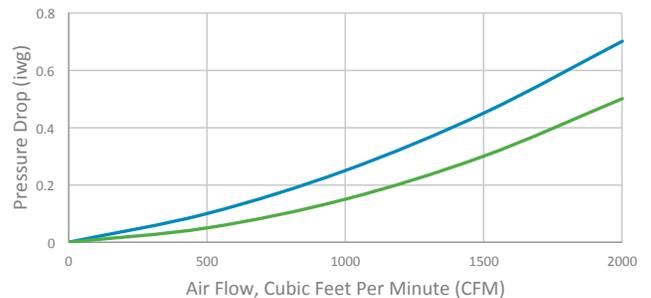
THE PURAFILTER

Purafilter Pressure Drop

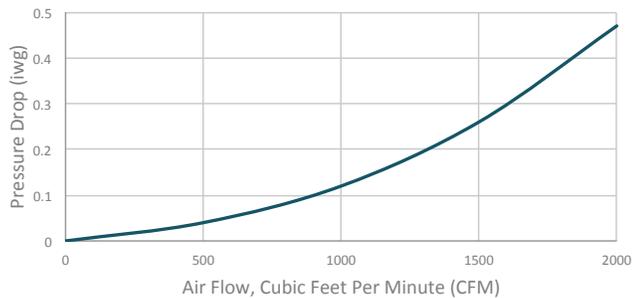
Plain Media



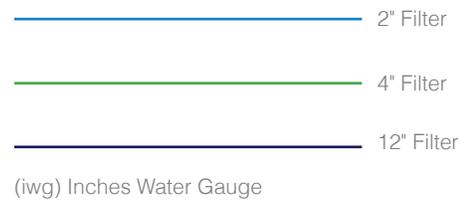
MERV 8



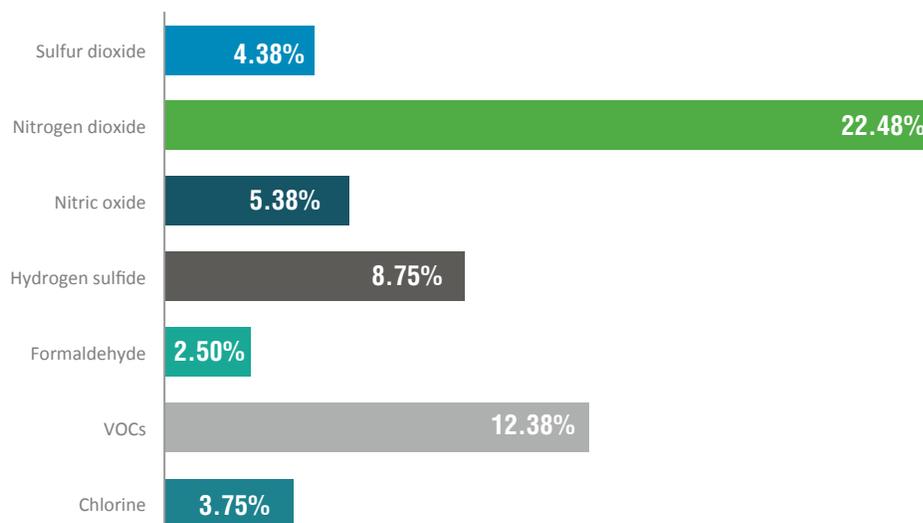
MERV 15



Legend



Removal Capacity of Purafil SP Blend*



*Removal capacity by weight. For example, 10 pounds (4.54 kg) of Purafil SP Blend will remove a minimum of 2.25 pounds (1.02 kg) of Nitrogen Dioxide. SP Blend media is a 50/50 blend composed of Purafil SP (sodium permanganate, activated alumina), and Purakol® (activated carbon).