

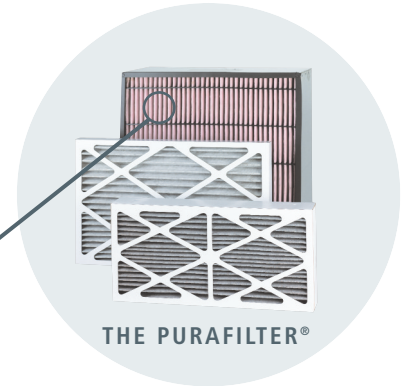
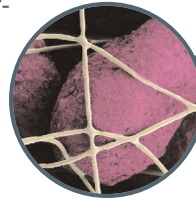
# PRODUCT BULLETIN 4

## THE PURAFILTER® FFU

PURAFIL®



**THE PURAFILTER®** is a combination chemical and particulate filter designed to replace existing particulate filters in retrofit or rework applications. Purafil engineers are the first to successfully suspend sodium permanganate adsorbents in a bi-component fiber matrix.



### STANDARD FEATURES

- 500 g/m<sup>2</sup> of Purafil engineered media
- Users choice of Purafil PSAM, SPB or PSPB media types
- 17 pleats per linear foot
- Bi-component fiber matrix
- Anodized aluminum frame
- Approach velocity: 80-100 FPM (0.4-0.5 M/S)
- Temperature Rating: -4° F to 125° F (-20° C to 51° C)
- Constructed of cleanroom-compatible materials
- Packaged individually and sealed in a non-porous bag

### OPTIONAL FEATURES

- Particulate overlay, 85% ASHRAE efficiency
- Stainless steel frame

### PRODUCT DESCRIPTION

The Purafil-FFU is a combination chemical and particulate filter designed to remove airborne molecular contaminants (AMC) in FFU applications upstream of HEPA/ULPA filters. Available in all standard sizes, the Purafil-FFU uses our patented dry-chemical media to target specific groups of gases in specific areas of cleanrooms.

The Purafil-FFU comes in three media types: SPB, PSAM, and PSPB. These media permanently remove AMC by transforming gases into harmless solids.

Chemical filtration systems utilizing sodium permanganate remove a broader range of contaminants than carbon-only filters and exhibit higher efficiencies.

The bi-component fiber matrix or filter, does not require the use of adhesives, so adsorbents are fully exposed for reaction with gaseous chemical contaminants and odors.

Adsorbents are evenly distributed throughout the filter structure to assure the highest filtration efficiencies. The Purafil offers a higher media loading than other chemical filters, allowing for a longer service life and reduced maintenance.

### SYSTEM ADVANTAGES

**LONGER SERVICE LIFE:** The Purafil offers a higher media loading capacity and up to ten times the removal capacity of other chemical filters.

**SUPERIOR EFFICIENCY:** The Purafil removes a broader range of odors and common indoor pollutants than activated carbon alone.

**EASY LIFE TESTING:** The Purafil can be tested to determine remaining service life.

Purafil's filter monitoring program assures ongoing compliance with ASHRAE 62's Indoor Air Quality Procedure.

### PRODUCT BENEFITS

• **TARGETED GAS CONTROL:** By using different media types, the Purafil-FFU removes a wide range of gases in multiple areas of your facility.

• **WILL NOT OFF-GAS:** Our media permanently removes AMC through an irreversible chemical reaction. Unlike activated carbon filters, the Purafil-FFU turns gases into harmless solids and will not desorb.

• **VARIETY OF SIZES:** Since no two cleanrooms are exactly alike, we manufacture a variety of sizes of the Purafil-FFU to suit your facility's needs.

• **TOTAL AIR PURIFICATION:** Not only does the Purafil-FFU remove a broad spectrum of gases, it can also remove particulate contamination.

## PURAFILTER® FFU



### SIZES AVAILABLE:

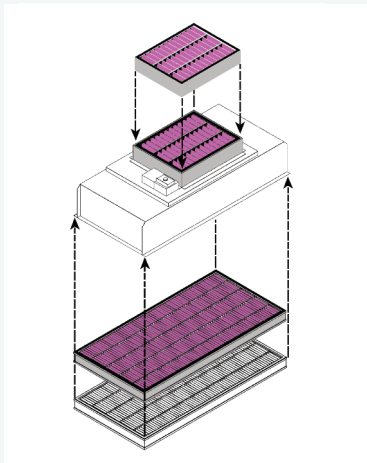
SIZE (inches)	(millimeters)
24 x 24 x 3	(610 x 610 x 76)
24 x 48 x 3	(610 x 1219 x 76)
20 x 20 x 3	(508 x 508 x 76)
24 x 24 x 6	(610 x 610 x 152)
24 x 48 x 6	(610 x 1219 x 152)
20 x 20 x 6	(508 x 508 x 152)

### MEDIA WEIGHT BY FILTER SIZE:

SIZE (inches)	WEIGHT (lbs/kgs)
24 x 24 x 3	2.97/1.35
24 x 48 x 3	6.19/2.81
20 x 20 x 3	2.05/0.93
24 x 24 x 6	6.54/2.97
24 x 48 x 6	13.63/6.18
20 x 20 x 6	4.53/2.05

### PURAFILTER® FFU PLACEMENT

Purafilter-FFU may be installed in the fan filter unit inlet or above your HEPA/ULPA filter



### PURAFILTER® FFU PRESSURE DROP WITH 85% INTEGRAL PARTICULATE FILTER

