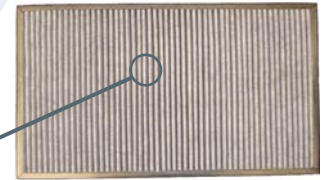
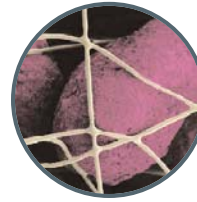


PRODUCT BULLETIN

4 THE PURAFILTER® CG CLEANROOM GRADE (HVAC) PANEL FILTER




THE PURAFILTER® CG PANEL FILTER is an adsorbent-loaded nonwoven fiber filter designed to remove airborne molecular contamination (AMC) from the air in makeup and recirculation air handlers. Its optimized mini-pleat design provides for the maximum pleat density assuring high removal efficiencies and capacities at a low pressure drop.



THE PURAFILTER®
CG PANEL FILTER

STANDARD FEATURES

- 500 g/m² (grams per square meters) of Purafil engineered media
- Users choice of Purafil SPB, PSPB, PSAM, PCB or AM media types
- 3 ft² of Purafil media per square foot of filter face area*
- Minimum 25 pleats per linear foot*
- Bi-component fiber matrix
- 0.75" (20 mm) aluminum frame
- Hot-melt glue line pleat spacer
- Airflow: up to 500 ft./min (2.54 m/sec)
- 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
- Available in full-size and half-size filters

OPTIONAL FEATURES

- Poron (or equivalent) gasketing available on one or both sides
- 20 mm stainless steel frame
- 200 g/m² or 300 g/m² loading with up to 34 pleats per linear foot
- Integral particulate overlay

*Full size filters only

THE PROBLEM

With each technological advancement, operations become increasingly sensitive and intricate. As a result, airborne molecular contamination (AMC) has evolved as a serious threat in cleanroom manufacturing environments.

PURAFIL PROVIDES THE SOLUTION

To remove AMC effectively and economically, Purafil offers the Purafil CG Panel Filter. Specifically designed for use in a "v-bank" filter configuration in recirculation air handlers, full-size (nominal) 24 x 24 x 1" (600 x 600 x 25 mm) or half-size (nominal) 12 x 24 x 1" (300 x 600 x 25 mm) filters can be used in standard front or rear-access frames employing a 2, 3, or 4 "V" configuration.

The Purafil CG Panel Filter:

- reduces product defects and improves yield.
- prevents AMC-related corrosion caused by fugitive emissions, leaks, and spills.
- eliminates odors and production downtime.

PRODUCT DESCRIPTION

The Purafil CG Panel Filter is a adsorbent-loaded nonwoven fiber media filter that integrates our patented impregnated adsorbents to remove harmful gaseous contaminants.

Through our unique manufacturing process, we can offer single or blended media options to provide superior removal capacity and broader contaminant control. Our engineers, chemists and laboratory technicians control the quality of the Purafil CG Panel Filters by evaluating and enhancing media formulas, design configurations, and production processes.

Our manufacturing process also allows for a higher media loading than previously offered, which reduces the cost of ownership by increasing service life and reducing maintenance.

The Purafil CG Panel Filter's bi-component fiber matrix does not use adhesives, so our engineered media particles are fully available to react with AMC. To ensure high filtration

efficiency, adsorbent particles are uniformly distributed throughout the filter structure.

MEDIA TYPES

Purafil-CG Panel Filters are available in SPB™, PSPB™, PSAM™, PCB and AM media types to remove the specific contaminant gases present in the different process areas of the cleanroom. These media permanently remove AMC by transforming gases into harmless solids and trapping them on and within the adsorbent particles.

CLEANROOM COMPATIBLE, GUARANTEED

Independent third-party testing verifies that the Purafil CG Panel Filters are constructed of cleanroom-compatible material that do not emit dopants, metals, organics, or other molecular contaminants at levels that would pose a risk to cleanroom processes.

PRODUCT BENEFITS

• **TARGETED AMC CONTROL:** Patented filter is available in five media types: SPB™ for the control of acids, condensables, and organics, PSPB™ for dopants and enhanced acid control, PSAM™ for the control of acids and bases, PCB for enhanced control of molecular acids and AM for enhanced control of molecular bases.

• **LONGER LIFE & IMPROVED PERFORMANCE:** Purafil has combined the benefits of patented engineered adsorbent media and proven technology to offer an unparalleled filter for AMC removal.

• **PERMANENT GAS REMOVAL:** The Purafil CG Panel Filters will not desorb like traditional activated carbon filters. Gases are removed through irreversible chemical reactions.

• **LOW PRESSURE DROP:** Pressure drop at 250 fpm (1.27 m/s) is <0.36 iwg (<90 Pa) for the Purafil CG Panel Filter in a 2-V arrangement.