

AmericanAirFilter®
**Air Filtration Products
and Capabilities**

*Advanced Solutions for the Removal of Airborne
Particulate and Gaseous Contaminants*



Better Air is Our Business®

Air Filtration Products and Capabilities

Industry Leader

Our Qualifications

AAF International is the name recognized globally for quality, expertise, and innovation in air filtration. As one of the world's largest manufacturers of commercial, industrial, and residential air filters, AAF makes a wide variety of products for removing and controlling airborne particulates and gaseous contaminants. Because the need for clean air is universal, AAF designs air filter products for use in all types of air filtration systems, regardless of the original manufacturer. The scope of applications is unlimited and ranges from ultra-clean air for electronics and pharmaceutical manufacturing, to preventing the spread of infection in hospitals, to removing odors and harmful gases in occupied spaces. We protect people, processes, and systems every minute of every day.

AAF is a company with an outstanding industry record. The diversity of our customers' air filtration requirements has given us the expertise to provide products and systems, based on a broad industry perspective. Superior industry knowledge and an outstanding team of indoor air quality professionals mean our customers receive top quality products and services at a competitive cost.



A Proud History

AAF traces its roots to Bill Reed, a skilled engineer and clever entrepreneur who recognized in 1921 that cleaning the air was critical to the growth of society, the development of technology, and the protection of human health. Through the years, the corporation has endured a world war and a cold war, depressions, recessions, natural and man-made disasters, political and social upheaval, and leaps in technology that could not be dreamed in 1921. Still today, the brand names AAF® and AmericanAirFilter® remain benchmarks for quality and performance in air filtration. Through all of the changes, we have seen in more than 90 years in business, nothing has distracted us from our mission – *Bringing Clean Air To The World!*



Original American Air Filter Company.

From its world headquarters in Louisville, Kentucky, AAF maintains operations in 22 countries and has more than 2,600 employees worldwide. AAF is supported in its international ventures through the resources of its parent company, Daikin Industries, Ltd., Osaka, Japan, a diversified international manufacturing company and a global leader in air conditioning.

Throughout its rich history, AAF's filtration experts have created and developed many of the filtration products and equipment being used in the industry today. We have been a key innovator in air filtration, and we continue to place great emphasis on research and development to meet the increasing demand for clean air.

90 years
AAF
IMPROVING AIR
Quality
Since 1921



21st Century Filter Technology

AAF offers the most comprehensive engineering and manufacturing capabilities in the industry. With advanced design and in-house testing facilities in the U.S., Europe, and Asia, we are unsurpassed in our ability to design air filters to any specification.

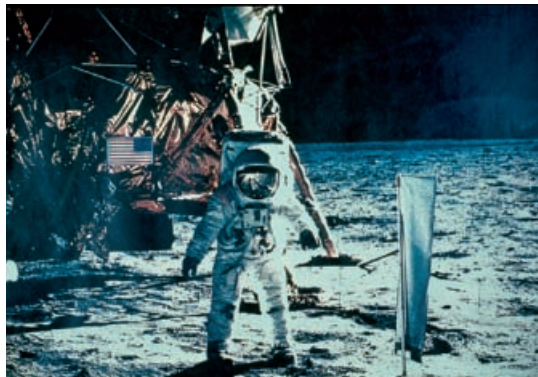
All AAF products are guaranteed to meet rated performance standards based on industry accepted test procedures. Rigid quality control procedures ensure consistent performance. Quality control inspections are conducted throughout the manufacturing process, from incoming raw materials to random checks on finished goods.

Our corporate quality policy best states our commitment: *Customer satisfaction and continuous improvement are our highest priorities. Product quality cannot and will not be compromised.*



Environmentally Responsible Air Filtration Solutions

AAF is committed to environmental responsibility. Our self-established goal is to protect the environment by reducing our carbon footprint through minimizing our use of natural resources and choosing sustainable solutions and materials whenever possible. We have implemented multiple initiatives and standards at all levels of our business to promote attainment of our goal. In our Product Development Group, AAF's product designs minimize base raw material consumption and meet our "Green" product development standards. Our high-efficiency pleated filters rated MERV 13 and above are products that may contribute to the achievement of LEED® Project Certification.

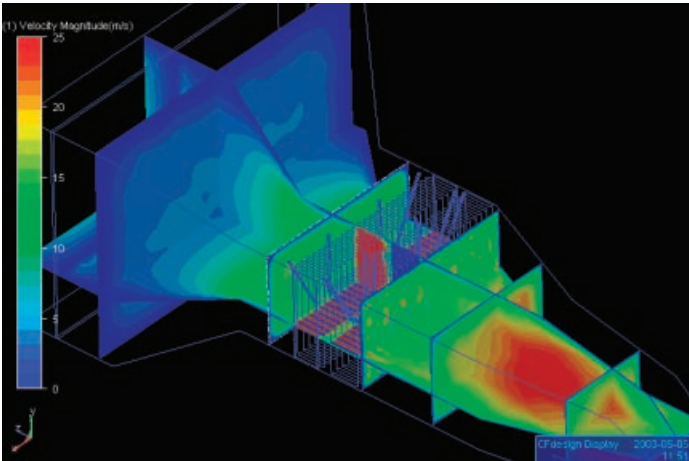


AAF was the first choice to develop special filtration for the initial lunar landing.

Looking to the Future

AAF is taking on the challenges of this century with the same energy and entrepreneurial spirit that characterized our business during the last century. We've been to the moon, providing innovative air filtration for one of man's greatest technological achievements. We are ready to return there and travel beyond, as we look to a bright future with experience, knowledge, and commitment that is unmatched in our industry. We will continue to meet the universal challenge of fulfilling the demand for clean air.

Clean Air Technology



AAF uses state-of-the-art engineering to design and develop filters.

Innovative Engineering and Design

Our Engineering Department consists of two groups: Research and Development and Product Engineering.

The Research and Development group is headquartered in Louisville, KY, with staff located in Europe and Asia. Each member of the group is committed to advancing the state-of-the-art in air filtration. Their role in serving AAF's customers is to recognize emerging needs and anticipate future air filtration requirements, in order to provide solutions in a timely manner. Their accumulated years of experience, in synergy with a worldwide network of academic and industrial resources, ensure that AAF will always offer excellence in air filtration.

The Product Engineering staff is located in Louisville, KY, and in key manufacturing facilities around the world. They are a team focused on current markets, with an objective of continuous improvement in products and services to provide maximum value to our customers. They also quickly adapt our products to meet short-term changes in air filtration requirements as they arise in the marketplace.



AAF filters are used in contamination-controlled environments around the world.

State-of-the-Art Testing

AAF subjects all of its products to stringent testing using certified, comprehensive, and industry-recognized testing laboratories. Testing is essential in documenting filter efficiency, diagnosing problems and assisting in research and development of filtration products. AAF's testing meets the highest standards for quality control. Our testing team is comprised of focused professionals committed to one goal – accumulating the most accurate data possible from each test.

Life Cycle Valuation Program

AAF Sales Representatives use an exclusive software program, Life Cycle Valuation (LCV), to tailor AAF filtration solutions to your unique circumstances and create an optimized filtration maintenance schedule for your system. AAF's LCV program puts your total costs into perspective by considering all aspects of your facility and assessing a broad range of variables. Easily customized and adapted to create unique solutions.



In addition to budgetary information, your Sales Representative uses the LCV program to provide solutions for multiple systems showing you cost comparisons in a clear and concise summary. Some of the variables included in the query are: current cost of electricity; inflation rates associated with power, filters, and labor; filter flow capacity, face velocity, and even MERV.

Customer Service

Customer Support When You Need It

Understanding filtration and matching the correct filter with your application are essential to achieving the air quality you need. AAF Sales Representatives consist of air filtration specialists with years of experience in analyzing and developing filtration products and solutions. AAF Representatives are always available for consultation when problems arise. Let our specialists help identify the best filtration options for the operation of your office, hospital, process, or institution.

AAF Representatives have completed a structured education program designed to make them experts in air filtration and Indoor Air Quality (IAQ). They have the current information you need to deal with these important and potentially volatile issues. In addition, AAF provides continuing education to maintain its Representatives as the best and most knowledgeable in the industry.

After reviewing your air handling system and assessing the condition of your filters, your AAF Representative will make recommendations to improve air quality, filter performance, as well as means to save energy. Additionally, our Representatives are trained to assist with LEED Project Certification.

AAF Representatives are also available to conduct seminars and educational in-service training on any aspect of air filtration as it relates to your business.

Distribution Partner Network

At AAF, we realize the need for clean air can exceed our direct sales force's reach. That is why we have partnered with some of the best air filter distributors in the business. Through this unique relationship, our air filtration experts work together with our partners to provide them with training, technical support, and leadership. In turn, our partners provide customers with superior local service and the best brand in the industry.

AAF understands the requirements of our partners and we have a dedicated team ready to serve.



Contact your local AAF Sales Representative by calling 888.223.2003 to learn more about AAF air filtration products and solutions available today.

We will be happy to discuss in detail our National Accounts and Filtration Solutions Teams, or how you can become an AAF Distribution Partner.

National Accounts Team

AAF recognizes that some customers need to be managed or maintained on a national level. Therefore, we have developed our National Accounts team to handle these unique customers and their needs. Account types handled through our National Accounts team include:

- National Accounts (healthcare, commercial, government, pharmaceutical, and industrial)
- Wholesale/MRO
- Engine/Transportation
- OEM/Biohood

Our National Accounts team is highly experienced at providing clean air solutions.



Filtration Solutions Teams

Our Filtration Solutions teams are available to offer support and guidance from the inception of a building project or renovation. Experts in recommending ideal air filtration solutions, our teams work with engineers and architects, and are available to give air filtration education seminars. A special Cleanroom team is dedicated to new construction of clean environments.

Extended Surface Supported Pleat Filters

PerfectPleat®

PerfectPleat® HC M8 - True innovation in the extended surface, pleated panel filter. Form and fit unlike any pleated filter in the marketplace. Self-supporting DuraFlex® media made from virgin fiber. Consistent media with process controlled fiber size and blend. Withstands significant abuse - maintains its shape and pleat spacing. No need for wire support - totally incinerable. Made with the highest wet-strength beverage carrier board available. Recommended for high moisture applications. Covered under one or more of the following patents: US 6398839 B2; US 6254653 B1; US 6159318; US 6165242; US 6387140 B1; US 7,398,887 B2. Available in 1", 2", and 4" models. MERV 8.

Brochure AFP-1-200

PerfectPleat® ULTRA - Same construction as PerfectPleat HC M8 filter. PerfectPleat ULTRA has 15 pleats per lineal foot. Incorporates antimicrobial. Available in 1", 2", and 4" models. MERV 8.

Brochure AFP-1-203

PerfectPleat® SC M8 - Same construction as PerfectPleat HC M8 filter. Made with 25% less media than PerfectPleat HC M8 filter. Available in 2" and 4" models. MERV 8.

Brochure AFP-1-202

PerfectPleat® SC M7 - Same construction as PerfectPleat HC M8 filter. Made with approximately 25% less media than PerfectPleat HC M8 filter. Available in 1", 2", and 4" models. MERV 7.

Brochure AFP-1-202

PerfectPleat® PF - Sonically-welded, pinch frame design. Features a support strap to ensure uniform pleat spacing, adding rigidity and support. Covered under patent US 7,112,255 B2. Available in 1" thickness. MERV 6.

Brochure AFP-1-241



from top — PerfectPleat® ULTRA 1",
PerfectPleat® SC M8 2", and
PerfectPleat® SC M7 4"



PerfectPleat® HC M8

AmAir®

AmAir® 300X - The heavy-duty die cut box frame is made of high strength, moisture resistant beverage board. The pleat support grid is made of heavy duty expanded metal to ensure pleat shape is maintained throughout the life of the filter. The media is a blend of cotton and polyester fibers.

Brochure AFP-1-165

AmAir® HT - Designed for high temperature operation (up to 500°F). UL Class 1. The frame is an aluminized steel U-channel available in 2" and 4" thicknesses. Ultra fine glass fiber media.

❖ **AmAir® 1300** - Offers a totally unitized, die cut box, beverage board frame with double thickness in the perimeter wall. Heavy duty, expanded metal pleat support grid is laminated to the media pack to increase rigidity and help maintain proper spacing between pleats. Utilizes synthetic, electrostatically charged media with high dust holding capacity. Meets the demands of the toughest applications. Available in 1", 2", and 4" thicknesses. MERV 13.

Brochure AFP-1-167



AmAir® 1300

❖ MERV 13 and higher filters meet efficiency requirements established for LEED® Project Certification.

VariCel®

✦ **VariCel® M-Pak** - 6"-deep filter with the same media area and performance as the 12"-deep VariCel filter. Uses AAF's dual-density media. Space-saving design reduces freight, storage, and handling costs. Sturdy high-impact polystyrene cell sides enclose a fixed media pack. Fully incinerable. Available in MERV 14, 13, and 11. Antimicrobial available on MERV 14 and 11 models.

Brochure AFP-1-161

✦ **VariCel®** - High and medium efficiency extended surface filters particularly well suited for Variable Air Volume (VAV) systems. Available with antimicrobial. VariCel filters are built ruggedly with metal cell sides and a single piece steel header in 6" and 12" depths. Double-header models and particle board construction (no header) also available. Ultra-fine glass fiber media.

Brochure AFP-1-158

✦ **XL Series** - Extended life media pack for longer service life.

✦ **HT Series** - High temperature models available for operation up to 900°F.

Brochure AFP-1-248

✦ **VariCel® II** - High and medium efficiency filters only 4" deep. Made with AAF's exclusive Slim Line Design, mini-pleat separator concept. Available with antimicrobial. Ultra-fine glass fiber media.

Brochure AFP-1-237

✦ **VariCel® II M & MH** - The same microglass paper media, mini-pleat arrangement, and efficiencies of the VariCel II filter. The VariCel II MH filter includes our unique interlocked cell sides and header. The VariCel II M filter uses a U-channel frame to fit in 4" side access and front access systems. Both offer the right combination of rugged construction, high efficiency, and convenience. Available with antimicrobial.

Brochure AFP-1-239



VariCel® M-Pak

VariCel® II



VariCel®



✦ MERV 13 and higher filters meet efficiency requirements established for LEED® Project Certification.



VariCel® II MH

All VariCel® filters use ultra-fine, dual-density glass fiber media, with the exception of the VariCel® RF filter.

Extended Surface Supported Pleat Filters (continued)

VariCel®

❖ **VariCel® VXL** - 8-panel high efficiency filter in an all plastic configuration. Excellent performance in difficult operating conditions. Uses AAF's dual-density media. Lightweight and easy to install. Fully incinerable. Available in MERV 15, 14, 13, and 11. Antimicrobial available on MERV 15 and 14 models.

Brochure AFP-1-162

❖ **VariCel® V** - High capacity, 6-panel, mini-pleat extended surface filter for operation up to 750 FPM with low resistance, long service life. Available with antimicrobial. Ultra-fine glass fiber media.

Brochure AFP-1-258

❖ **VariCel® RF** - Rigid, durable extended surface filter that is ideal for VAV systems. Constructed with galvanized steel cell sides, synthetic media and plastic pleat spacers. Media is supported by an expanded metal grid.

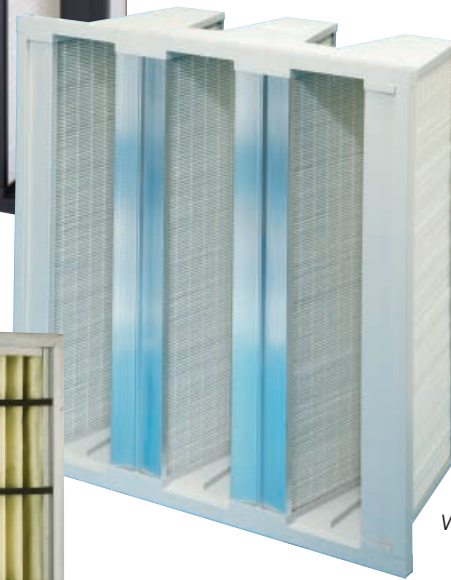
Brochure AFP-1-105



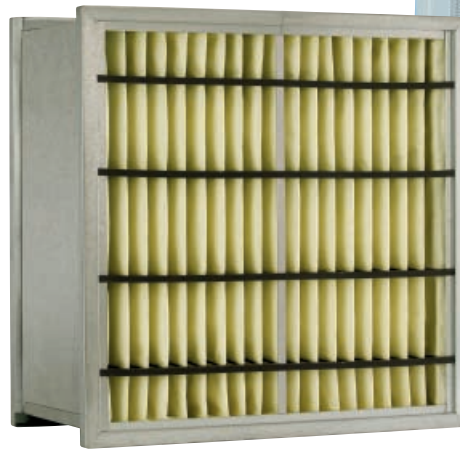
VariCel® VXL, BioCel® VXL



❖ MERV 13 and higher filters meet efficiency requirements established for LEED® Project Certification.



VariCel® V



VariCel® RF

BioCel®

❖ **BioCel® VXL** - 8-panel high efficiency filter. Excellent performance in difficult operating conditions. Lightweight and easy to install. Fully incinerable. Available with antimicrobial. MERV 16.

Brochure AFP-1-118

❖ **BioCel® M-Pak** - 6"-deep filter with the same media area and performance as the 12"-deep BioCel filter. Space-saving design; reduces freight, storage, and handling costs. Sturdy high-impact polystyrene cell sides enclose a fixed media pack. Fully incinerable. MERV 16.

Brochure AFP-1-117

❖ **BioCel I®** - Provides significantly higher efficiency filtration than other extended surface filters – 95% on 0.3 µm particles, MERV 16. It offers an alternative for critical applications, such as hospitals and other installations, where HEPA filters are not required. Same construction alternatives as VariCel filters. Ultra-fine glass fiber media.

Brochure AFP-1-116



BioCel I®



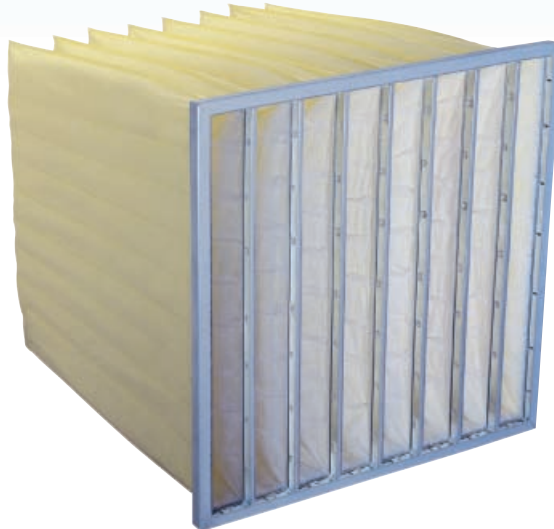
BioCel® M-Pak

Extended Surface Non-Supported Pocket Filters

DriPak®

✦ **DriPak® 2000** - IAQ engineered, extended surface, non-supported pocket filter. Synthetic media is available with antimicrobial. Wide range of sizes fits all types of air filtration systems. Sonic welded pocket construction features ribbons of fabric welded inside the pockets to create aerodynamic channels. Outstanding dust holding capacity for longer service life in each efficiency category. Choose from four efficiencies: MERV 15, MERV 14, MERV 12, and MERV 8.

Brochure AFP-1-114



DriPak® 2000, MERV 15 with antimicrobial

✦ **DriPak®** - Original ultra-fine, glass fiber design. Wide range of sizes fits all types of air filtration systems. Exclusive span stitching pocket design. Pocket design has been aerodynamically balanced (Patent No. US 4356011) to achieve optimum pocket configuration for minimum resistance and maximum dust holding capacity. Choose from two efficiencies: MERV 15 and MERV 13.

Brochure AFP-1-120

Self-supported and rod-supported models available for paint and specialty applications.



AmerSeal® Cube

AmerSeal® Cube

Self-sealing design prevents dirty air bypass; permits fast installation; requires no clips, latches, or other holding devices. Will not discharge – does not rely on charged media to temporarily boost performance. Moisture resistant, polyester media with drytack adhesive.

Brochure AFP-1-160

✦ MERV 13 and higher filters meet efficiency requirements established for LEED® Project Certification.

Extended Surface Supported Pocket Filters

FlexPak™

FlexPak™ FA Series - Replacement for "HP"* extended surface filters installed in systems equipped with compatible basket type wire retainers. Choose from four efficiencies: 90%, 80%, 50% - ultra-fine glass fiber media; 30% - polyester media.

*Trade name of Camfil Farr

Brochure AFP-1-119

HEPA and ULPA Filters

HEPA filters are the most efficient air filters commercially available. They are used in cleanrooms and other applications requiring ultra-clean air - semiconductor, electronics, pharmaceutical manufacturing, food processing, hospitals, and labs. Every MEGAcel™ and AstroCel® filter is individually tested before shipment to assure it meets rated efficiency and resistance. AAF HEPA and ULPA filters are available in a variety of efficiencies - from 99.97% tested on .3 µm particles to 99.99995% and higher, tested on .1 to .2 µm particles. All filters are available scan tested.

MEGAcel™ I and AstroCel® I

❖ **MEGAcel™ I** - HEPA filters designed to meet demanding airflow efficiency requirements. Helior® media combines ultra-high efficiency with lowest pressure drop. Lower energy consumption — greater than 40% lower resistance. Highly resistant to corrosive environments. Negligible off-gassing properties. Meets I300I specifications. Withstands pressure up to 10 in. w.g. (2,500 Pa).

Brochure AFP-1-403

❖ **AstroCel® I** - Designed for 125 FPM (5 7/8" deep) and 250 FPM (11 1/2" deep) filter face velocities at 1.0 in. w.g. initial resistance. Available with a variety of cell side materials, including particle board, plywood, galvanized, stainless steel, and aluminum. Gasket seal and gel seal models. Separators are available in corrugated or vinyl coated aluminum. Ultra-fine glass fiber media.

Brochure AFP-1-110

❖ **High Capacity AstroCel® I HCX** - Designed to handle up to 500 FPM, 2000 CFM (24" x 24" x 11 1/2" size) at 1.4 in. w.g. initial resistance. Cell side materials, separators, and media are the same as the AstroCel I filter. 99.97% and 99.99% efficiencies.

❖ **AstroCel® I and AstroPak™ I "CELEBRITY" Series** - Economical HEPA filters for negative air remediation equipment and other applications. 1000 and 2000 CFM models. 99.97% efficiency.



❖ *MERV 13 and higher filters meet efficiency requirements established for LEED® Project Certification.*



AstroCel® I particle board cell side construction

MEGAcel™ I double box flange model construction

AstroCel® II LPD Series HEPA and ULPA filters



AstroCel® III

MEGAcel™ and AstroCel® II

❖ **MEGAcel™** - ULPA filters designed to meet the most stringent cleanroom filtration requirements for fabs, modular, mini, and micro environments using Helior™ media.

Brochure AFP-1-402

❖ **AstroCel® II LPD Series** - Mini-pleat filter design using ribbons of media for separators. Three pleat pack thicknesses accommodate 100 FPM (2" deep), 150 FPM (3" deep) and 200 FPM (4" deep) filter face velocities at 0.54 in. w.g. or less initial resistance. Standard cell sides are extruded aluminum. Gasket seal and gel seal models. Ultra-fine glass fiber media.

Brochure AFP-1-404

AstroCel® III

❖ **AstroCel® III** - Mini-pleat filters ideal for demanding operating conditions in critical applications. High capacity operation with minimal resistance to airflow; 2400 CFM rated airflow at 1 in. w.g. Longer service life - 436 square feet of media. Low energy consumption and lower costs. Chemical resistant anodized aluminum frame provides superior strength. Gasket seal and gel seal designs available.

Brochure AFP-1-405

Disposable Ceiling Modules

TM-2 and TM-4

Light weight, factory sealed hoods for individually ducted, vertical downflow cleanrooms. AAF ceiling filter modules utilize the AstroCel II filter mini-pleat media pack. The entire module is hermetically sealed at the factory to eliminate leak paths. Extruded aluminum housing.

Brochure AFP-1-475

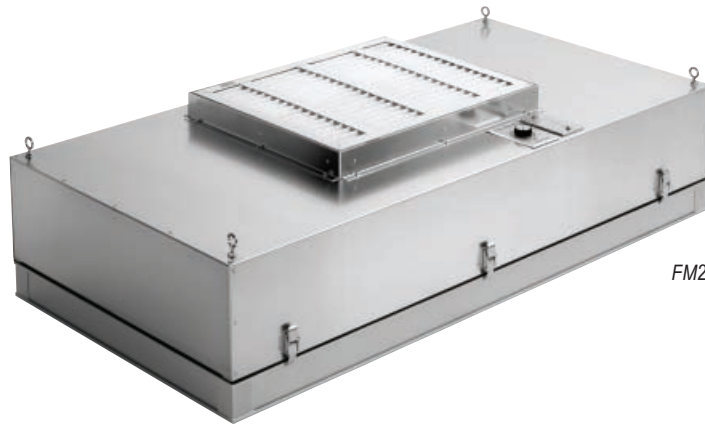


TM-2 and TM-4

FM2-LE

Fan/Filter modules for easy delivery of clean air. Each module utilizes a rugged, energy-efficient AC motorized impeller. It can be used to upgrade an existing cleanroom, or to convert existing space into a cleanroom, without additional ductwork or air handling equipment.

Brochure AFP-1-420



FM2-LE

PharmaGel™ and PharmaGel™ LCE

HEPA filter modules for applications requiring an easily replaceable cartridge without risk of bypass leakage.

Brochures AFP-1-408 and AFP-1-409



PharmaGel™

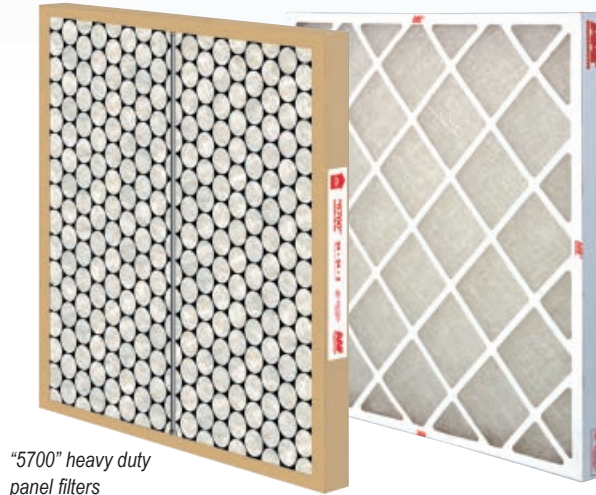
Panel Filters - Disposable External Frame Filters

Disposable panel filters are widely used as prefilters for higher efficiency filters or to protect heating/cooling coils from becoming coated with dirt.

"5700"

High arrestance and high dust holding capacity make "5700" filters the premium performing disposable panel filters in the industry. Designed for extra heavy dust loading conditions. Available in a wide range of sizes, 1" and 2" thicknesses. Fiberglass media.

Brochure AFP-1-108



"5700" heavy duty panel filters

HeavyDuty™

Single-sided, scrim-backed disposable panel filter. Woven fiberglass scrim retainer is bonded to the air-leaving side. Wide range of sizes: ½", 1", and 2" thicknesses. Fiberglass media.

Brochure AFP-1-245

StrataDensity®

Standard, commercial grade panel filters. Designed for light to medium dust loading conditions. Available in a wide range of sizes: ½", 1", and 2" thicknesses. Fiberglass media.

Brochure AFP-1-234

Industrial Panel Filter

Industrial-grade, disposable panel filter. One-piece, high integrity, U-channel frame, with double-sided expanded metal retainer. Wide range of sizes - ½", 1", and 2" thicknesses. Fiberglass media.

Brochure AFP-1-141



Industrial Panel Filter (2 side metal)

HeavyDuty™

StrataDensity®

Panel Filters - Internal Wire Frame

AmerSeal®

Self-sealing design prevents dirty air bypass; permits fast installation; requires no clips, latches, or other holding devices. Moisture resistant, polyester media with drytack adhesive for improved efficiency. Available in links. Gold (4-ply), Blue (3-ply), Green (2-ply). All models are available with antimicrobial.

Brochure AFP-1-152



AmerSeal®

Filter Media and Frames

FrontLine™ Fiberglass Media and PolyKlean™ Synthetic Media

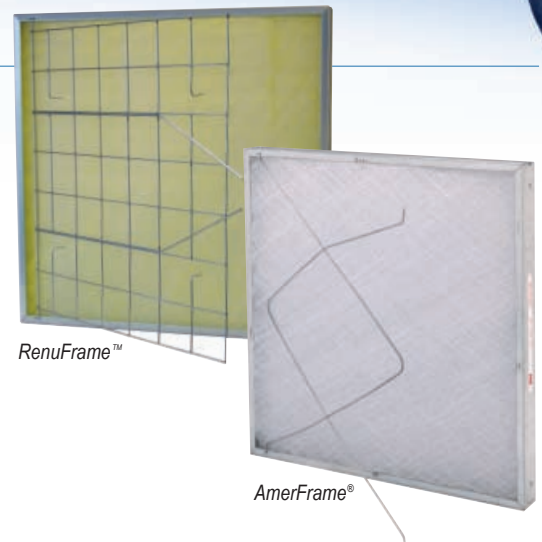
Select from a wide range of synthetic and fiberglass media designed for light to extra heavy dust loading conditions. Color-coded by performance level. FrontLine and PolyKlean media are available in pre-cut pads and rolls, ½", 1" and 2" thicknesses. PolyKlean Gold is manufactured with antimicrobial and is available in 1" and 2" thicknesses.

Brochures AFP-1-228 and AFP-1-264

AmerFrame® and RenuFrame™

Permanent metal frames hold pre-cut media pads. AmerFrame available in 1" and 2" thicknesses; RenuFrame available in 2" only.

Brochure AFP-1-113



Automatic Roll Filter Media

Used in automatic renewable-media air filters. Roll-O-Mat® media are available on cores, to fit all other manufacturers' equipment.

AAF is the only filter manufacturer producing fiberglass media used in these units.

Brochure AFP-1-112

Roll-O-Mat®

Roll-O-Mat® Gold - Offers a combination of higher arrestance and dust holding capacity unequalled by any other brand. Top-of-the-line performance provides best customer value - cleaner air, longer roll life, lower operating cost. Fiber glass media, 2" thick. 80-85% arrestance.

Roll-O-Mat® Blue - A top quality media surpassed in overall value only by Roll-O-Mat Gold. Fiberglass media, 1" and 2" thick. 70-80% arrestance.

Roll-O-Mat® Green - For applications where a synthetic media is preferred. Polyester media, ½" and 1" thick. 70-75% arrestance.



Roll-O-Mat® renewable media air filters

Roll-O-Mat® Red - For higher temperature applications up to 300°F. Fiberglass media, 2" thick, dry (no adhesive). 60-65% arrestance.

Specialty Filter Products

Coatings Collection Media

Designed to remove overspray solids in paint booths. Effective on many types of coatings: lacquers; air dried or cured primers and enamels; acrylic or latex water base emulsions; epoxies and vinyl coatings.

AG-28

Fiberglass media, 2" thick. Available in pre-cut pads and bulk rolls.

Brochure AFP-1-106

SureStop™

SureStop™ Type P-SCS - Expanded paper with a layer of polyester on the air leaving side.

SureStop™ Types P-SC and P-HC - Expanded paper media, 1" and 1½" thick. Available in pre-cut pads and bulk rolls.

Brochure AFP-1-204

Diffusion Media

SureFlow® Supreme

Diffusion media is used as the final filter in the supply air system of low velocity paint spray booths. It forms a final protective barrier against particulate entering the booth and also serves as an air diffusion baffle. The media is made of dense, tightly bonded, polyester fibers with a close knit scrim backing. Also available as a ring panel style filter.

Brochure AFP-1-271

EPA 319

AAF manufactures filters that meet the requirements of EPA Test Methods 319. Contact your representative for more information.

Gas-Phase Filtration



Innovative Product Line

AAF has assumed an industry leading position with the development of its innovative SAAF (pronounced "SAFE") product line designed to reduce or eliminate harmful gaseous contaminants. In combination with our expertise in airborne particulate filtration, SAAF products allow us to develop unique and effective total filtration solutions to protect people, processes, and equipment.

SAAF™ Pleated Panel and Extended Surface Filters

AAF makes a variety of pleated and extended surface filters incorporating adsorbents for odor control.

AmAir®/C, AmAir®/C+SAAFoxi™, AmAir®/CP, and AmAir®/SAAFoxi™

Disposable carbon filters with SAAFWeb™ technology designed to provide odor and particulate control where light to moderate odor conditions exist. Available in pleats, panels, and pads. AmAir/C filters are an economical, quick fix solution to many odor problems. Available in 1", 2", and 4" depths. MERV 7 for pleated filters only.

Brochure GPF-1-118

VariCel® RF/C and RF/C+SAAFoxi™

Extended-surface, rigid air filters provide high efficiency removal of medium and low concentrations of gas-phase pollution, odors, and particulates. Constructed with galvanized steel cell sides and plastic pleat spacers on the air-entering and air-leaving sides, these filters withstand the most demanding applications. The pleat spacers ensure that both the effectiveness and service life are maximized. Available in single-header and no-header models. MERV 8.

Brochure GPF-1-122



AmAir®/C, AmAir®/C+SAAFoxi™, AmAir®/CP, and AmAir®/SAAFoxi™

Filters not shown:

AmerSorb® BP VariSorb™ HC VariSorb™ XL
Brochure GPF-1-123 Brochure GPF-1-126 Brochure GPF-1-121

SAAF™ Chemical Media and Catalysts

SAAF Chemical Media and Catalysts provide high efficiency filtration for effective removal of gases encountered in commercial and industrial applications. Media are available in SAAFBLENDS, individual SAAF Chemical Media, and gas specific solutions designed to safely deliver superior gas removal effectiveness on a variety of target gases. A variety of AAF energy efficient delivery systems are available to easily incorporate media into airflows. SAAF media and catalysts are designed for easy, cost-effective solutions.

Brochure GPF-1-103



SAAFBlend™ GP



SAAFoxidant™

SAAF™ Cassettes

SAAF V-bank Cassettes are constructed from High Impact Poly Styrene (HIPS) and come pre-filled with SAAF Chemical Media. Unique, patent-pending design ensures maximum media utilization and improves fit and sealing, even when deployed in older cassette holding systems. Computational Fluid Dynamics (CFD) modeling and performance tests confirm the most energy efficient design. The resulting design and construction surpasses any competitor's cassettes in the market, while allowing users a truly better design with value-enhancing features. No glue design eliminates problems from spills, off-gassing, bypass, and leakages.

Brochures GPF-1-108, GPF-1-109, and GPF-1-111



SAAF™ Cassette MD

SAAF™ Cassette CG

SAAF™ Cassette HD

SAAF™ Gas-Phase Equipment

SAAF™ Front Access Housings

SAAF Front Access Housings combine particulate filters and chemical media cassettes to remove both airborne particulate and gaseous contaminants from intake, recirculated, or discharged ventilation air. Stand-alone systems can be easily incorporated into new and existing air handling units; excellent for quick retrofit solutions. Housings can be stacked vertically or horizontally into filter banks for total system flexibility .

Brochure GPF-1-115

SAAF™ Side Access Housings

SAAF Side Access Housings are designed to support chemical media cassettes, prefilters and after-filters, and high efficiency particulate filters in one self-contained unit for the removal of gas contaminants and airborne particulate. Available with an internal fan and in many different combinations and sizes to meet a wide range of applications. Double wall insulated construction to reduce noise and thermal transfer. Easy installation, operation, and maintenance.

Brochure GPF-1-106



SAAF™ Front Access Housings

Equipment not shown:

SAAF™ Air Purification Systems

Brochure GPF-1-107

SAAF™ Machine Intake Filter Systems

Brochure GPF-1-117

SAAF™ Deep Bed Systems

Brochure GPF-1-105

SAAF™ PORTA-Scrubbers

Brochure GPF-1-120



SAAF™ Side Access Housing

SAAF™ Environmental Monitoring

SAAFShield™

AAF SAAFShield Reactivity Monitor Technology allows users to take immediate action to protect expensive electronics and priceless works of art by monitoring corrosion in real time or on a periodic basis to determine equipment or material vulnerability to corrosion. The SAAFShield Detecting Unit works together with the SAAFShield Reading Unit to display and trend corrosion data over time, which allows users to evaluate operational procedures, environmental factors, or other items that occur at specific times for their impact on sensitive materials.

Brochure GPF-1-135, GPF-1-136

Reactivity Monitoring Coupon

Reactivity Monitoring Coupon (RMC) Analysis allows customers to classify their environment according to the ISA S71.04 standard and determine the types of gaseous contaminants present. RMCs determine environment reactivity through exposure in the environment and subsequent lab analysis. This technology is used to investigate the condition of control rooms or other protected environments housing electronic equipment in industrial facilities such as pulp and paper mills, petrochemical refineries, and chemical plants. RMCs are also used to investigate the condition of facilities storing sensitive materials such as museums and archives, data centers, and microelectronic production or storage areas.

Brochure GPF-1-128



SAAFShield™ Detecting Unit with
SAAFShield™ Reading Unit



SAAF™ Reactivity Monitoring Coupons:
Metal and Glass

Air Filtration Products and Capabilities

Nuclear-Grade Filtration

AstroCel® III

Designed for 2000 CFM at 1.3 in. w.g. initial resistance. Available with 304 or 409 stainless steel cell sides. Gasket seal. Fiberglass string separators eliminate the need for aluminum separators. 400 square feet of media. 99.97% efficiency on .3 micron particles. ASME AG-1 and UL 586 qualified. Designed, manufactured, and tested under an audited NQA-1 program.

Brochure NES-1-708

AstroCel® I

Designed for 1500 CFM and below. Many sizes available. Available with 304 or 409 stainless steel and FR plywood. Gasket seal and gel seal models available. Separators are available in corrugated or vinyl coated aluminum. 99.97% efficiency on .3 micron particles. ASME AG-1 and UL 586 qualified. Designed, manufactured, and tested under an audited NQA-1 program.

See website for additional information.

VariCel®

Medium and high efficiency rigid cell side disposable filters for removal of atmospheric dust and particulates from nuclear power plant air stream. High dust holding capacity. Low initial resistance. Three efficiencies: MERV 14, 13 and 11. Galvanized steel cell sides. Single or double header models. Many sizes available. Meets the requirements of ASME N509 and AG-1. Manufactured under an audited NQA-1 program.

See website for additional information.



AstroCel® III

AstroCel® double box flange model and particle board cell side construction

VariCel®

AAF Service and Manufacturing Locations

Corporate Headquarters

Louisville, Kentucky

AAF Full Service Centers

Hutchins, Texas
Doraville, Georgia
Elizabethtown, Pennsylvania
Lebanon, Indiana
Ontario, California

Fiberglass Products Manufacturing

Fayetteville, Arkansas

High-Efficiency and HEPA Products Manufacturing

Columbia, Missouri



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AAF has a policy of continuous product research and improvement and reserves the right to change design and specifications without notice.

ISO Certified Firm