AmericanAirFilter®

Air Filtration Products and Capabilities

Commercial and Industrial

Advanced Solutions for the Removal of Airborne Particulate and Gaseous Contaminants

Better Air is Our Business® AAF® INTERNATIONAL

AmericanAirFilter®

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 International 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 International 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.

AAF corporate headquarters, Louisville, Kentucky.

A Proud History

AAF International 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 88 years in business, nothing has distracted us from our mission – *Bringing Clean Air To The World!®*

AAF Sales Meeting 1936.

From its world headquarters in Louisville, Kentucky, AAF maintains operations in 22 countries and more than 2,600 employees worldwide. AAF is supported in its international ventures through the resources of its parent company OYL Industries Berhad, based in Malaysia. OYL, in turn, is owned by 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.

Original American Air Filter Company.

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

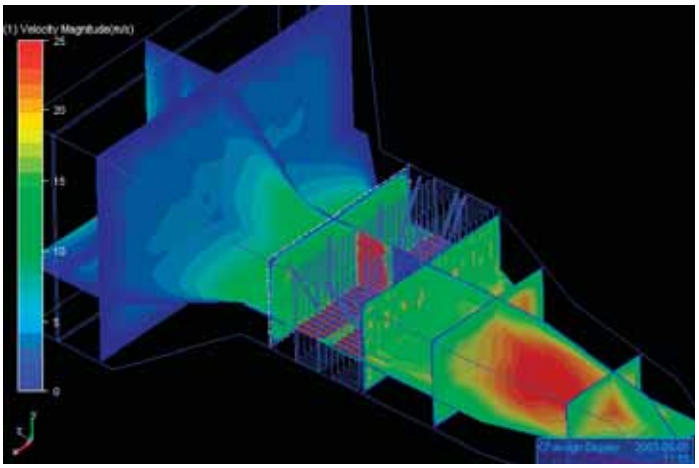
AAF is committed to environmental responsibility. Our self-established goal is to protect the environment by reducing our carbon footprint through minimizing our use of natural resources and choosing sustainable solutions and materials whenever possible. We have implemented multiple initiatives to standards 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 new 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.

Advanced testing ensures that AAF filter products meet rated performance standards.

Air Filtration for World Markets

Around the globe, AAF and AmericanAirFilter brand filters are meeting the need for clean air in industrial plants, hospitals, schools, airports, museums, commercial buildings, hotels, and shopping malls. Our residential air filter products are sold by major retailers and home centers.

From inexpensive disposable panel filters to high-efficiency, extended surface filters with antimicrobial and gas-phase filtration, we market the widest range of air filtration products available. We've developed and introduced most of the filter designs used throughout the industry, including mini-pleats, extended surface bag filters, and the industry-leading PerfectPleat®.

We have also focused our resources on meeting the specialized clean air requirements for specific industries. For example, in the semiconductor industry, AAF pioneered many of the techniques and products used to clean air in cleanroom operations and processes. We understand the critical nature of contamination-controlled environments. Our engineers are active in standardization committees worldwide and have played an active role in establishing new standards for cleanroom applications. We provide the full range of cleanroom air filtration products and systems, including HEPA filters, ducted ceiling modules, lighting fixtures, and framing.

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. On our team are filtration specialists with years of experience in analyzing and developing filtration products. They are available for consultation when problems arise, or at any time their expertise and advice are needed. The AAF Air Filtration team is always there to help identify the best conditions for the operation and maintenance of your office, building, or process.

AAF IAQ Professionals will conduct a review of your air handling system, assess the condition of your filters, and make recommendations to improve performance and reduce cost. We can help you develop specifications based on filter performance to ensure proper filtration maintenance.

Factory-Direct Purchasing

When you purchase air filters from us, you are dealing with a single source who is responsible for the delivery and quality of air filters we have designed and manufactured. You make only one phone call when you have issues related to air filtration. You can purchase in any manner you choose; through your sales representative, on the telephone, by fax, using EDI, or via the Internet – you name it. Use a credit card, purchase order, cash, or set up an AAF account through our credit department.

When it comes to delivery, you also have several choices. We offer auto-replenishment, express delivery, and our standard delivery lead-times. Your orders are processed through the AAF SuperCenter assigned specifically to you and your geographic region. AAF SuperCenters manufacture all our core basic and medium efficiency products, so that you can be assured fast delivery on standard-sized filters. Additionally, each AAF SuperCenter inventories high-efficiency and non-standard products based on its customers' demands. Our goal is to service your air filtration needs in the most efficient and cost-effective manner.

IAQ Professionals

AAF offers the largest direct sales force in the industry. AAF IAQ Professionals have completed a structured education program designed to make them experts in air filtration. In addition, AAF provides continuing education to maintain its IAQ Professionals as the best and most knowledgeable in the industry. Most important to you, these IAQ Professionals are willing to share their knowledge. They are available to conduct seminars and classes on any aspect of air filtration as it relates to your business. **Contact your local AAF Representative and start with a seminar on Indoor Air Quality. This will give you information you need to know when dealing with this important and potentially volatile issue.**

Strategic Accounts Teams

AAF has an established team approach for managing strategic customer accounts. Each team is equipped to provide the knowledge, technical expertise and customer support that strategic accounts require. Here is a list of account types that are handled through our Strategic Accounts Groups:

- National Accounts
- OEMs
- High Purity/Clean Environments (new fabrication)
- Transportation

Our Strategic Accounts experts will provide the clean air solutions required to maintain and grow your business. For additional information on our Strategic Accounts program, call us or ask your local AAF direct sales representative for more information.

Wholesale Account Team

From product offering to packaging and delivery, wholesale customers have requirements that are unique to their business. AAF services its wholesale business partners with a dedicated team of experts who understand the business

This team is ready to serve. They know AAF products and can supply the logistical and technical support that will assist in making the air filtration part of your business successful. If you are a wholesale supplier, call us today for more information about AAF products.

Extended Surface Supported Pleat Filters

PerfectPleat®

PerfectPleat® ULTRA - True innovation in the extended surface, pleated panel filter. Covered under one or more of the following patents: US 6398839 B2; US 6254653 B1; US 6159318; US 6165242; US 6387140 B1. 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.

PerfectPleat ULTRA has 15 pleats per lineal foot. Incorporates antimicrobial. Available in 1", 2," and 4" models. Classified MERV 8.

Brochure AFP-1-203

PerfectPleat® HC M8 - Same construction as PerfectPleat ULTRA. Does not incorporate antimicrobial. Available in 1", 2," and 4" models. Classified MERV 8.

Brochure AFP-1-200

PerfectPleat® - Same construction as PerfectPleat HC M8. Made with approximately 25% less media than PerfectPleat HC M8. Available in 1", 2," and 4" models. Classified 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. Available in 1" thickness. Classified MERV 6.

Brochure AFP-1-241

PerfectPleat® ULTRA *PerfectPleat® HC M8* *PerfectPleat®*

PerfectPleat®, HC M8, and ULTRA models available in 1", 2", and 4".

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. Classified 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. 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. VariCels 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. UL Class 1.
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. UL Class 2.
Brochure AFP-1-237

VariCel® M-Pak

VariCel® II

VariCel®

VariCel® II MH

✤ **VariCel® II M & MH -** The same microglass paper media, mini-pleat arrangement, and efficiencies of the VariCel II. The VariCel II MH includes our unique interlocked cell sides and header. The VariCel II M 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. UL Class 2.
Brochure AFP-1-239

AAF GREEN

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

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

Extended Surface Supported Pleat Filters *(continued)*

VariCel®

✤ **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. Rated UL Class 2.
Brochure AFP-1-105

✤ **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. UL Class 2.
Brochure AFP-1-258

✤ **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

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

VariCel® RF

VariCel® VXL, BioCel™ VXL

VariCel® V

BioCel™

✤ **BioCel™ M-Pak -** 6"-deep filter with the same media area and performance as the 12"-deep BioCel. Space-saving design; reduces freight, storage, and handling costs. Sturdy high-impact polystyrene cell sides enclose a fixed media pack. Fully incinerable. MERV 16 efficiency.
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. Ultra-fine glass fiber media.
Brochure AFP-1-116

✤ **BioCel™ VXL -** 8-panel high efficiency filter. Excellent performance in difficult operating conditions. Lightweight and easy to install. Fully incinerable. MERV 16 efficiency. Available with antimicrobial.
Brochure AFP-1-118

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 (90-95%*), MERV 14 (80-85%*), MERV 11 (60-65%*), and MERV 8 (40-45%*). Rated UL Class 1 and Class 2.

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 (90-95%)* and MERV 13 (80-85%). *Rated UL Class 2.

Brochure AFP-1-120

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

**ASHRAE Test Standard 52.1*

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 - Replacements 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 Company*

Brochure AFP-1-119

High Efficiency Particulate Air (HEPA) 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 AstroCel filter is individually tested before shipment to assure it meets rated efficiency and resistance. AAF HEPA 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.

AstroCel® I

✤ **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 AstroCel I. 99.97% and 99.99% efficiencies.

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

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

AstroCel® II and MEGAcel™

✤ **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 0.52 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

✤ **MEGAcel™ -** PTFE membrane filters designed to meet the most stringent cleanroom filtration requirements for fab's, modular, mini, and micro environments.

Brochure AFP-1-402

AstroCel® II LPD Series HEPA and ULPA filters.

✤ **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.

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 mini-pleat media pack. The entire module is hermetically sealed at the factory to eliminate leak paths. Extruded aluminum housing.

Brochure AFP-1-475

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

PharmaGel™ and PharmaGel™ LCE

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

Brochure AFP-1-408

Brochure AFP-1-409

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.

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 - 1/2", 1", and 2" thicknesses. Fiberglass media.

Brochure AFP-1-141

Industrial Panel Filter (2 side metal).

HeavyDuty™

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

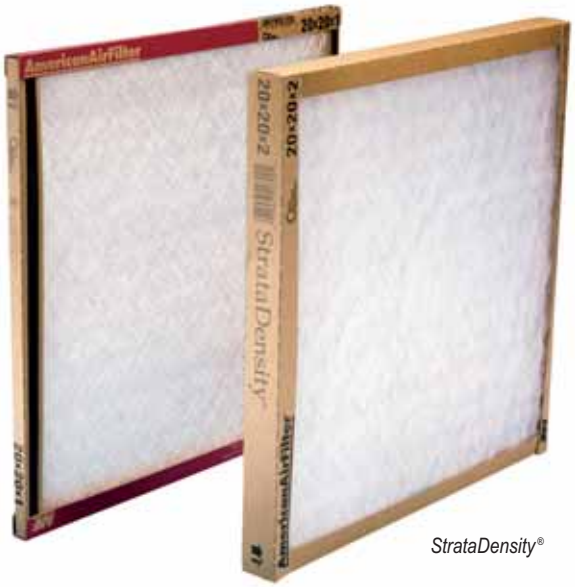
Brochure AFP-1-245

HeavyDuty™

StrataDensity®

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

Brochure AFP-1-234



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. Will not discharge – does not rely on charged media to temporarily boost performance. Moisture resistant, polyester media with drytack adhesive for improved efficiency. Available in links. Gold (4-ply), Blue (3-ply), Green (2-ply). All models available with antimicrobial.

Brochure AFP-1-152

AmerSeal®

Filter Media and Frames

* FrontLine® Fiberglass Media and ** PolyKlean™ Synthetic Media

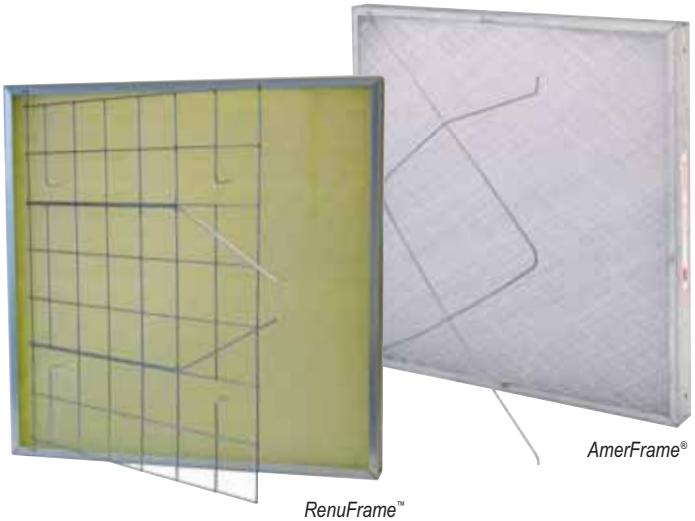
Select from a wide range of synthetic and fiberglass media designed for light to extra heavy dust loading conditions. Color-coded by performance level. FrontLine and PolyKlean media are available in pre-cut pads and rolls, 1/2", 1" and 2" thicknesses. PolyKlean Gold is manufactured with antimicrobial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

**Brochure AFP-1-228, **Brochure 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



AmerFrame®

RenuFrame™

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® renewable media air filters.

Roll-O-Mat®

Roll-O-Mat® Gold - Offers a combination of higher arrestance and dust holding capacity unequaled 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, 1/2" and 1" thick. 70-75% arrestance.

Roll-O-Mat® Red - For higher temperature applications up to 300°F. UL class 1. 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

AG-28 fiberglass paint arrestor pads.

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 1-1/2" 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.

Innovations

AAF has assumed an industry leading position with the development of its innovative SAAF 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. The SAAF product line features these patent-pending solutions:

- Energy-efficient chemical media cassettes that fit our newly designed Side and Front Access Housings. These cassettes also fit in most legacy units. The housings are designed for quiet operation and durability.
- Complete media line - adsorbents, oxidants, and blends configured by and produced under the supervision of our world-class global research and development teams.
- ISA Standard S71.04: Environmental Conditions for Process Measurement and Control Systems: Airborne Contaminants and on-site testing to determine the exact nature of the contaminants and their relative concentrations.
- Comprehensive, industry-leading software, SAAF Tech Tools, analyzes applications, develops solutions, configures equipment and media, and delivers a complete technical proposal.

No other company offers this combination of experience, expertise, innovation, and capability to combat airborne contaminants, particulate and/or gaseous, and deliver the clean air you require.

Brochure GPF-1-100

SAAF™ Airborne Molecular Contaminant (AMC) Chemical Media and Catalysts

SAAF AMC Removal Media and Catalysts

SAAF AMC chemical media and catalysts provide high-efficiency filtration for effective removal of AMCs encountered in airstreams. Media easily incorporated into airflow by using specific pressure drop-friendly delivery mechanisms. Wide range of media for different target gases. Media can be analyzed for precise remaining life analysis calculations. Powerful enough for high capacity industrial applications, yet suitable in mission critical applications. Easy disposal.

Brochure GPF-1-103

SAAF™ Technical Services

The SAAF Technical Services Group has the instrumentation and training to perform comprehensive evaluations and environmental assessments. All tests are carried out and correlated to applicable industry standards. Evaluations include: particulate contamination assessments with recommendations and product solutions; gaseous contaminant assessments, recommendations, and product solutions; humidity assessments, recommendations, and product solutions; product life cycle assessments and recommendations; room integrity verification, sealing checks, and HVAC circuit checks.

SAAF™ Delivery Systems for Airborne Molecular Containment (AMC) Chemical Media and Catalysts

SAAF chemical media delivery mechanisms include SAAF deep beds, cassettes, cartridges, multiple-panel V-banks, pleated filters, and mini-pleat, high-efficiency gas removal filters. AMC delivery mechanisms can be easily incorporated into existing HVAC systems. Energy efficient, fail-safe delivery mechanisms hold SAAF AMC chemical media.

SAAF Cassettes, Cartridges, and Replacement Panels

SAAF cassettes, cartridges, and replacement panels are available across a complete range of pressure drop and removal efficiencies. Built to high tolerances, SAAF cassettes reduce “dirty-air” bypass because of better sealing within filtration systems. Easy replacement for existing panel-type filters common in HVAC systems. Provide enhanced technology for retrofit upgrades. Patented filtration technologies extend life of SAAF replacements.

The new SAAF cassettes (patent pending) are made from High Impact Polystyrene and employ unique design features to ensure maximum media utilization.
Brochures GPF-1-108, GPF-1-109, and GPF-1-111

SAAF Pleated Panel and Extended Surface Filters
AAF makes a variety of pleated and extended surface filters incorporating adsorbents for odor control.


VariSorb™ XL

VariSorb™ XL delivery system consists of mini-pleat filter elements in high impact polystyrene (HIPS) cell sides for assembly in front, rear, or side-access track systems. The granular microstructure of the media packs ensures a much higher media area to weight ratio resulting in a high spontaneity of reaction. This makes the VariSorb XL very effective at removing medium and low concentrations of gas-phase contamination.

AmerSorb™ P - Filters are manufactured with a self-supporting activated carbon textile media, which is pleated and retained in a two-piece beverage board die cut. Available in 1", 2", and 4" thicknesses. Suitable for commercial and light industrial odor control applications.


AmerSorb™ P

Other products not shown are AmerSorb™ BP; AmAir®/C, AmAir®/CPlus, AmAir®/CP, AmAir®/Oxi; VariCel® RF/C, VariCel® RF/CPlus, and VariSorb™ HC.
Brochures GPF-1-123, GPF-1-247, GPF-1-122, and GPF-1-126

SAAF™ Front Access Housings

Easy to retrofit and incorporate within existing AHUs. Sturdy construction. Built to high tolerances, thereby reducing bypass due to better sealing within the filtration system. House refillable panels and cassette inserts. Patented filtration technologies extend life of SAAF replacements.
Brochure GPF-1-115


SAAF Front Access Housings

SAAF™ Air Purification Systems, Side Access Housings, and High Capacity PORTA-Scrubbers


SAAF Air Purification System

SAAF™ Air Purification Systems - Stand-alone, multi-stage systems designed to remove particulate and gaseous contaminants from confined spaces, while reducing the amount of outside air needed to dilute contaminants. Available as Recirculation Unit (SAAF:RU) and Pressurization and Recirculation Unit (SAAF:PRU). These systems are suitable for in-room use or sheltered outdoor installations.
Brochure GPF-1-107

SAAF™ Side Access Housing (SAAF:SAH) - 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. Housings offer the advantages of a conventional side access housing and maximum flexibility in the selection of chemical media and gas phase filter elements to remove contaminants from the air.
Brochure GPF-1-106


SAAF Side Access Housing

SAAF™ High Capacity PORTA-Scrubbers (SAAF:HCPS) - Extremely low maintenance and quick solution for scrubbing high concentrations of odorous gases from low to moderate airflows. The PORTA-Scrubber is a quick portable solution for a variety of applications, e.g., sewage treatment plants and odor scrubbing in commercial kitchens or laboratory exhausts.
Brochure GPF-1-120


SAAF High Capacity PORTA-Scrubber

AmericanAirFilter®

Air Filtration Products and Capabilities

Nuclear-Grade Filtration

AstroCel® III

Designed for 2000 CFM at 1.2 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: 90-95%, 80-85%, and 60-65%. Galvanized steel cell sides. Single or double header models. UL Class 1. 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 SuperCenters

Dallas, 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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