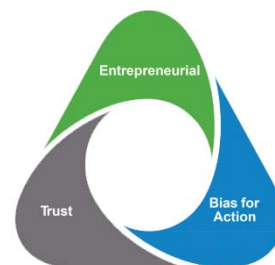


# MAKING THE WORLD SAFER, HEALTHIER, AND MORE PRODUCTIVE



TOGETHER WE'RE HELPING PROTECT WHAT MATTERS MOST



UAF is helping protect what matters most, from keeping babies safe by the filtration of high end medical electronics, to the thermal management of advanced telecom systems.

The demand for electronics is increasing, and the global electronics environment is more challenging than ever. Universal Air Filter's diverse line of NEBS-certified and UL-classified air filters offers the support your unique electronics design project requires. Whether you need a filter for electronics, telco, broadband, medical or general industrial needs, your equipment is protected from the harshest environments.

We deliver targeted advanced filtration solutions, services and technologies to help optimize your operations, and we share an unwavering commitment to helping you reach your goals.

We are guided by culture:

### Entrepreneurial:

We have an owner's mindset to embrace critical questioning, innovation, service and continuous improvement. We are creative and unwilling to accept that there is not a better way. We are constantly questioning. We have a passion and perseverance for our long-term goals. We are self-reliant, optimistic and believe we will be successful. We have a healthy paranoia that leads to continuous innovation and improvement.

### Bias for Action:

Our people are why we are successful. We enable our people to own their actions. We control outcomes through our actions. We are bold and ambitious. We are not victims of things which we cannot control. We act with imperfect information, confident in our ability to course correct as necessary. We will bring out the best in ourselves and those around us. We embrace change and see it as an opportunity to improve.

### Trust:

One Team One Mission - We work together to win. We say what we do and we do what we say. We meet all our commitments.

### Making a difference – and doing it all with safety in mind.

Our focus on custom air filters and EMI shielding products used to cool and protect commercial equipment and electronics enclosures and related services gives us a unique perspective and understanding of how to partner with you to help predict, diagnose and prevent problems before they become an issue. Our industry experts share an unwavering commitment to work with you to meet your filtration and business goals.

We are where you need us, when you need us. We enable and enhance your productivity, while reducing operating costs, in every part of the electronics thermal management value chain from prototype design through after-market replacements to include reverse engineering to correct thermal management challenges.

WE PROVIDE:

3D CAD tool available on our website to help design your filter. You can submit CAD drawings for a free prototype based on your specifications

\*An extensive portfolio of industry-leading products and application technologies meeting industry certifications such as NEBS, UL 60950, UL900,CE(EN60950), UL94 HF-1 and ETSI

\*Custom framed filter assemblies with tailored media configurations to meet unique design needs. You don't need to design your equipment around the filter.

• A singular, undistracted focus on providing effective solutions across the life cycle of filters

\*Low pressure drop and high dust loading configurations

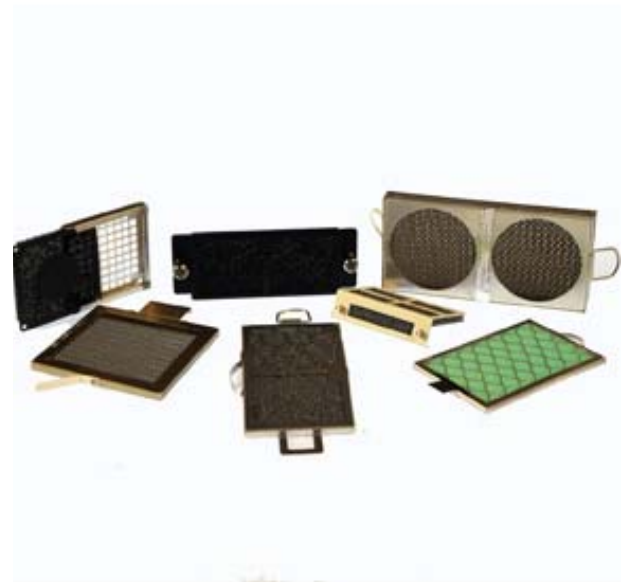
\*Fire retardant filter media in cleanable open cell or disposable non-woven polyester.

\*EMI shielding requirements are met with aluminum honeycomb, available as Dual EMI air filters or EMI vent panels

• Expertise and resourcefulness to help you address documentation of filter performance to various specifications

• An unparalleled global reach, providing exceptional, personally delivered service

• Uncompromising commitment to health, safety and the environment in everything we do





# EVERYWHERE IT MATTERS

Keeping the world safer, healthier and more productive

## NETWORK OPERATIONS CENTER

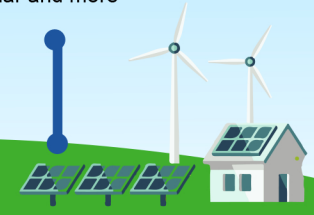
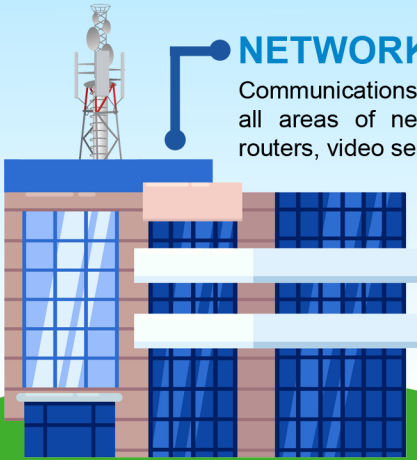
Communications OEM industry leader and serves all areas of network infrastructure - switches, routers, video servers and more

## INTERACTIVE DISPLAY

Outdoor protection of interactive displays and kiosks protect critical equipment from rain, dust, dirt, salt fog and more

## POWER GENERATION

Rugged, durable protection for for all types of clean energy applications including wind turbines, PV inverters, solar and more



## MILITARY

Air filter for mission critical applications - Secure Communications, Vehicle Based Systems and more

## SECURITY

Security robots deployed to patrol indoor malls, parking lots, stadiums, high-crime areas and more.

## HOTELS

Room unit and standard HVAC air filters help hotels meet changing state standards



## TRANSPORTATION

Filters can help alleviate maintenance costs and down-time to keep everything functioning properly. We focus on issues associated with exposure to the elements.



## EV CHARGING

OEM air filter designer for major consumer and commercial manufacturers of electric vehicles and charging equipment.



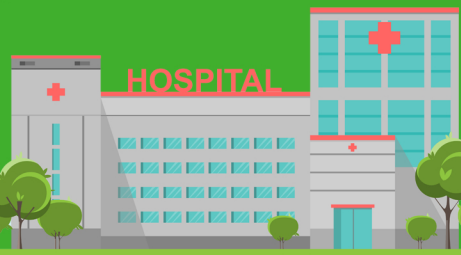
## INDUSTRIAL

Air filtration and equipment protection for generators, electrical switchgear, auxiliary power units - Renewable Energy Equipment



## HOSPITALS

Custom products for medical device applications : MRI , CT Scan, lab equipment, sterilization, and laser surgery.



## EVERYWHERE IT MATTERS

From telecommunications central offices to the operating room, Universal Air Filter provides custom filter solutions and on-site services. We have the most comprehensive, optimized and technically advanced global specialty filters portfolio in the industry. We predict, diagnose, circumvent and solve complex challenges in every part of the electronics value chain.

Our electronics applications improve thermal management, extend equipment life and decrease operating costs such as electrical consumption.

### Telecom Equipment

Universal Air Filter is the communications industry leader and serves all areas of network infrastructure

- Switches & routers
- Carrier Ethernet
- Wireless Network Infrastructure
- Video Servers
- Transmission
- NEBS and ETSI compliant equipment
- Optical Networks
- VoIP
- Access Gear
- Indoor / Outdoor cabinets

### Medical:

Universal Air Filter specializes in custom products for medical device applications:

- Blood analyzers
- Laboratory animal cages
- Lab equipment
- Sterilizers / Autoclaves
- Imaging Equipment
- Robotic surgical Instruments
- Clean rooms
- Life Science analyzers
- Lasers
- Pharmacy dispensing systems

### Power Generation:

Universal Air Filter is the power-gen industry leader with rugged products for all types of clean energy applications

- UPS
- Telecom Power Supplies
- PV Inverters
- Extended Range Electric Vehicles
- Fuel Cells
- Generators
- Wind Turbines
- Electrical Switchgear
- Auxiliary Power Units
- Renewable Energy Equipment

## Military:

Universal Air Filter specializes in Military air filters for mission critical applications

- Secure Communications Networks
- Shipboard Systems
- Test Equipment
- Surveillance / Reconnaissance
- Command Consoles
- Satellite Communications
- Vehicle Based Systems
- Electro Countermeasures
- Avionics
- Ruggedized Enclosures
- Rackmount Servers

UAF supports full compliance with stringent military electronics standards

- MIS 20189E
- MIL-STD-285
- MIL-STD-461
- MIL-STD-810
- NEBS
- MIL-S-901
- MIL-STD-167
- FIPS 140-1
- FAR 25.853 / 25.855
- DIN 53438
- UL



## Broadband / Cable TV

Universal Air Filter is the communications industry leader and serves all areas of network infrastructure:

- Switches and Routers
- Video Encoders
- Transmission
- Optical Networks
- VoIP Systems
- Head End Equipment
- Video Servers
- NEBS Compliant Equipment
- Access Gear
- Indoor/Outdoor Cabinets

## Industrial

Universal Air Filter is the power-gen industry leader with rugged products for all types of clean energy applications:

- UPS
- PV Inverters
- Fuel Cells
- Wind Turbines
- Auxiliary Power Units
- Telecom Power Supplies
- Extended Range Electric Vehicles
- Generators
- Electrical Switchgear
- Renewable Energy Equipment





### Wind Turbines:

Wind turbines are deployed in the harshest environments so the electronic and control equipment that support wind turbines must be able to operate efficiently and reliably under extreme conditions. Blowing sand and dust, rain, and salt fog are major concerns for wind turbine equipment as these contaminants can cause electronics failure and production power loss. Wind turbine air filters are critical to ensure that harmful contaminants are removed from cooling intake air to ensure reliable operation.

### 3D Printing:

UAF specializes in custom filtration requirements for these 3D Printing Applications:

Continuous Liquid Interface Production (CLIP), Stereolithography (SLA), Digital Light Processing (DLP), Fusion deposition modeling (FDM), Selective laser melting (SLM), and Electronic Beam Melting (EBM)



## CUSTOMIZED AIR FILTRATION FOR REAL WORLD ENVIRONMENTS

### Our Technology Tab

UAF is a custom designer of framed air filter assemblies for electronics, communications, medical and industrial equipment. Our cutting-edge technologies and innovative programs, combined with the experience and foresight of the industry's top scientists and researchers, are transforming filtration for the electronics industry.

In addition to our world-class scientists and engineers, we fully leverage Filtration Group's global research, development and engineering resources as well as a multitude of industry partnerships. But our real point of differentiation is our ability to collaborate with you to solve

complex challenges. Electronics enclosures are getting smaller and we have the expertise to develop filtration solutions for your unique requirements. Because we work in close partnership with our customers, we have extraordinary insight into the challenges you face. We use this in-depth understanding to solve problems and find opportunities.

Our people have made discoveries that have enhanced our customers' electronic cooling applications ensuring that specifications are met in the time frame you need it every time. We pride ourselves on quick prototypes delivered in 5 days. On Spec, On Time Every Time. Customers with a global reach have distinct local needs. We have distribution channels that ensure quick and cost-effective delivery of our technology and expertise where and when you need them.

**High Efficiency Filters:** Pleated high efficiency air filters for HVAC and industrial / commercial enclosure applications requiring MERV 11-15 dust efficiency and low airflow resistance.

**Quadrafoam air filters** offer high dust arrestance & low resistance when installed in electronics, computer, telecom, datacom, medical and general-purpose equipment.

**Dual EMI Air Filters** The new Dual EMI Honeycomb filter provides superior shielding against electromagnetic interference and is specially designed for electronics, telecom and datacom.

**Window Pane Air Filters:** window pane air filters are the ideal solution to meet the low profile and edge-to-edge filter needs of communication electronics applications.





## SCIENTISTS ENGINEERS INNOVATORS

### Our People Tab

Our people don't stop until they solve a challenge. Our fanatical focus on our customers is supported by an unrelenting resolve to succeed. The Universal Air Filter team are fueled by the perpetual energy gained from innovating and solving challenges. Our focus on electronics applications is the power behind our solutions. Because of Filtration Group's extensive presence globally, we have a deep expertise that we leverage across the entire value chain.

We can help you manage the increasing complexity of your operations around the globe – helping to make the world safer, healthier and more productive .



## WORKING TOWARD A SAFER HEALTHIER MORE PRODUCTIVE WORLD

### Filtration Group and Universal Air Filter - Who We Are

Universal Air Filter, established in 1959 and headquartered in Sauget, IL operates within the Filtration Group. Filtration Group is a globally recognized brand, serving many of the world's best-known companies. Our advanced filtration solutions have been specifically designed to meet the needs of a wide variety of industries like telecommunications, computer networking, life sciences, automotive, foodservice, industrial, power generation and robotics. Filtration Group products and services help to keep their environments clean and safe, healthy, and operating efficiently.

With revenues of \$1.5 billion, Filtration Group is consistently recognized as the fastest growing and one of the largest filtration businesses in the world. With over 6500 employees, the Company serves its customers from a global footprint of 105 facilities in 25 countries.

We've worked behind the scenes to help keep the world connected, prevent the spread of infection and protect vital resources. And today we're doing more than ever before.

### What We Do

Because we work in close partnership with our customers, we have extraordinary insight into the challenges they face.

UAF designs and manufactures custom air filters and EMI shielding products used to protect commercial equipment and electronics enclosures. With exceptional design and application knowledge and the latest technology, UAF is a valuable partner for global OEMs serving all types of electronics and industrial machinery end markets. We understand what it takes to satisfy the electronics cooling requirements of increasingly powerful and complex equipment and focus on solving problems and finding opportunities.

Engineering design support and quick-turn, free custom prototypes are provided to engineer prospects and customers operating under ambitious product development cycles. UAF filters are engineered to address the challenges of thermal management, dust contamination, airflow control, fire safety, EMI shielding, and size limitations in crowded electronic enclosures. Products also satisfy the most stringent end market certification standards and performance criteria

We help our customers do more with less through a tailored and personal approach. Because when our customers succeed, we succeed.

### Why It Matters

As a trusted partner for businesses in more than 1 million locations, we provide consistent, world-class service across the globe. We meet the challenges of an evolving world with expertise and innovation.

# TOGETHER, WE'RE MAKING THE WORLD SAFER, HEALTHIER, AND MORE PRODUCTIVE

Introducing Universal Air Filter, a Filtration Group company. The strength and innovations of UAF and Filtration Group flow together to bring you more service, more technologies and more solutions. Because together, we have more ways to help make the world Safer, Healthier and More Productive. We are taking electronics further. Visit [UAF.com](http://UAF.com) to learn more.

## Filtration group Worldwide Headquarters

600 22nd St

Suite 300

Oak brook, IL 60523

Telephone: +1-630-968-1730

