

AIRPORT BROCHURE

A FIRST-CLASS EXPERIENCE FOR EMPLOYEES & TRAVELERS

PROTECT YOUR BIGGEST ASSETS—YOUR PASSENGERS
AND EMPLOYEES—FROM HARMFUL GASES AND ODORS.



purafil
Filtration Group®



ARE YOU GIVING EMPLOYEES & TRAVELERS A FIRST-CLASS ENVIRONMENT?



IS JET FUEL EXHAUST EXHAUSTING YOUR EQUIPMENT?

Airports rely on technology to ensure smooth operations. Whether it's critical equipment used by air traffic controllers or computers in terminals, airports can't afford for it to fail. But how do you protect your equipment from failure when jet fuel exhaust is letting off sulfur (SOX), benzene (C₆H₆) and other gases that are damaging your sensitive equipment? Utilize a gas phase filtration system that captures and transforms corrosive gases into harmless substances.

By filtering out gaseous contaminants, Purafil's solutions safeguard your critical equipment from corrosion and eventual failure (saving you on repairs), so you can focus on operations. This also has the added bonus of removing odors. No more funky smells, no more corrosion!

Purafil Solution: Drop-In Gas Phase Filters, Canisters, Purafil Modules, Corrosion Monitoring

BREATHING NEW LIFE INTO AIRPORTS

Airports are our gateways to new adventures, sights unseen and original experiences, so it's no surprise that they're constantly facing indoor air quality (IAQ) issues. Whether it's exhaust from jet fuel, nearby transportation, deicing chemicals or the thousands of people inside the airport, it's critical to maintain a healthy IAQ.

Not only does this pollution cause us to breathe unhealthy air, it can also let off an unpleasant smell. The solution? A gas phase filtration system. Purafil's filters reduce the need for outdoor air by effectively filtering, cleaning and recirculating indoor air. Bring in less polluted air while cleaning the existing air to give both travelers and employees a more enjoyable, healthy airport experience...free from odors.

Purafil Solution: Drop-In Gas Phase Filters, Canisters, Purafil Modules, Purafil Side Access (PSA)

REDUCED OUTDOOR AIR, REDUCED ENERGY BILL?

While airports are great layover spots to our final destinations, they're not so great in terms of pollution and IAQ. To provide employees and travelers with fresh, healthy air, airports must either bring in cleaned outdoor air or recirculate and filter indoor air. Without the proper filtration system, this can get costly rather quickly.

So, how do you keep energy costs down but still give employees and travelers clean air to breathe? By reducing the amount of outdoor air needed and installing an effective filtration system. Purafil filters get rid of gaseous contaminants, clean the already cooled terminal air, and recirculate it so you don't have to spend money cooling the outdoor air. Reduces your need for outdoor air and save *big*!

Purafil Solution: Drop-In Gas Phase Filters, Canisters, Purafil Modules, Purafil Side Access (PSA)

FIRST-CLASS FLIGHT TOWER



FAA TOWER TACKLES ODOR

As the busiest airport in the world, it's important to be proactive in protecting not only your employees and critical equipment, but your passengers as well. A large airport in the southeast was aware of the high level of pollution from jet fumes and vehicle exhaust as well as deicing glycol odors and the impact it could have on its new FAA control tower. To prevent these issues from becoming a major health hazard, they installed Purafil gas phase filtration systems.

Jet fuel exhaust contains high levels of sulfur and other contaminants that let off an unpleasant odor. This makes for an unhealthy work environment for employees and can also lead to the corrosion of critical equipment used by air traffic controllers.

The FAA installed easy access tracking into 10 of their air handling units to utilize Purafil Select CP Blend media modules. The media filters out these gases using a process known as chemisorption, which converts corrosive and odorous gases into harmless salts. We also suggested reducing the amount of outdoor air and instead cleaning and recirculating the indoor air.

This helped improve the environmental air integrity as well as lowering energy costs. As a result of these efforts, the airport remains a happy and loyal Purafil customer.

Purafil, Inc. is the leading manufacturer of filtration media and scrubbers that provide a safe and comfortable environment. Our products and solutions identify and remove harmful and unpleasant particles, gases, odors, bacteria and viruses from the environment. The results are increased comfort levels, reduced energy costs, and confidence that your airport or control tower will provide the ideal employee and traveler experience.

PURAFIL'S MEDIA ADVANTAGE

PURAFIL ENGINEERED MEDIA

Purafil offers a broad selection of dry-chemical pellets called media, which are the core of our air purification solutions. We manufacture a wide variety of media to remove specific pollutants from an array of sources. Our patented media formulations are manufactured using special chemicals that react with damaging gases and remove them from the air stream. Contaminant gases are chemically transformed into harmless solids that remain trapped inside the media. This process is known as chemisorption.



Our media provides a longer service life compared to competitor products, and we offer customized media blends to target the unique gases found in our most common applications. In most cases, we recommend Purafil® Airport Blend media because it removes the widest variety of odors and gases such as VOCs, hydrogen sulfide, sulfur dioxide, oxides of nitrogen, acetic acid and formaldehyde. This unique formulation is available in Purafil equipment or our patented filters.

1) Select Your Media

Work with your Purafil representative to select the appropriate chemical media customized for your specific application.

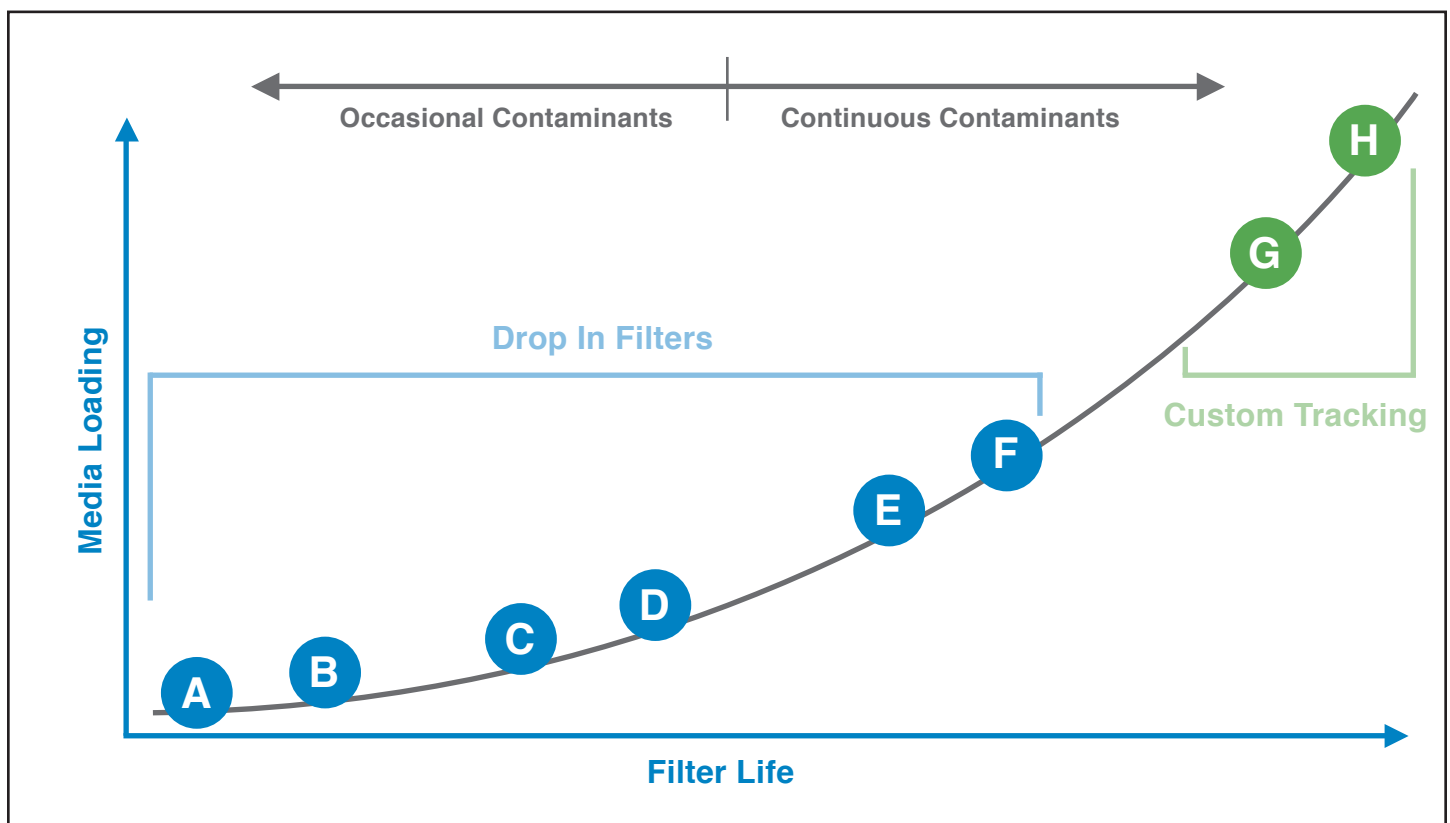
2) Select Your Loading

Select the media loading that will provide sufficient contaminant removal efficiency and filter life to fit your needs.

3) Select your Delivery System

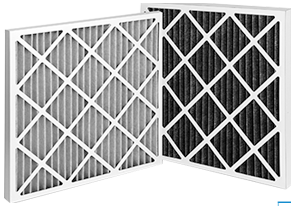
Now that you have selected the media and loading needed, you can choose your preferred delivery system. Purafil offers drop in replacement filters, pleated combination particulate and gas phase filters, and bulk filled options for high contamination levels.

Filter Performance Chart



ADVANCED FILTERS FOR EVERY NEED

Purafilter Odor Pleat

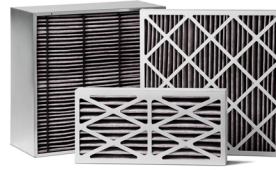


Excellent entry level gas phase filter for intermittent applications. Low Pressure drop keeps operating expenses down. Get Purafilter Odor Pleat Plus for 50% more media loading.

A

Media Loading up to	0.5 lbs	0.23 kg
Pressure Drop 1"	N/A	N/A
Pressure Drop 2"	0.36 iwg	89.7 pa
Pressure Drop 4"	0.21 iwg	52.3 pa

Purafilter



Combination chemical and particulate filter that integrates Purafil® patented dry-scrubbing media. Easily replace current particulate filter and upgrade the air quality for your tenants.

B

Media Loading up to	12 lbs	5.44 kg
Pressure Drop 2"	0.51 iwg	127 pa
Pressure Drop 4"	0.43 iwg	107.1 pa
Pressure Drop 12"	0.47 iwg	117.1 pa

Purafilter HE

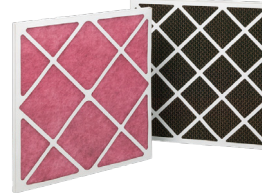


Combination chemical and particulate filter that integrates Purafil® enhanced carbon-loaded nonwoven media using 100% synthetic fibers. Available in four specially blended combinations to address common air quality issues.

C

Media Loading up to	15 lbs	6.8 kg
Pressure Drop 2"	0.62 iwg	154.4 pa
Pressure Drop 4"	0.46 iwg	114.6 pa
Pressure Drop 12"	0.36 iwg	89.7 pa

Purafilter Honeycomb

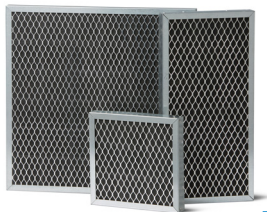


Utilizes Purafil's Puracarb engineered media suspended in honeycomb for effective gas phase filtration. Available with or without a pre-filter option. Excellent gas phase filter for recirculated air applications.

D

Media Loading up to	4.3 lbs	1.95 kg
Pressure Drop 1"	0.49 iwg	121.9 pa
Pressure Drop 2"	1.32 iwg	323.5 pa

PuraGrid Filters



A revolutionary filter designed to supply large amounts of chemical filtration with minimal pressure drop. Available in Puracarb IAQ and Puracarb AM (Ammonia).

E

Media Loading up to	21 lbs	9.53 kg
Pressure Drop 2"	0.29 iwg	72.2 pa
Pressure Drop 4"	0.58 iwg	144.5 pa

Purafilter V-Bank



The Purafilter V-Bank uses a high-impact plastic frame with a built-in header for strong, lightweight housing. Ideal for use in odor control where higher levels of contaminants would overwhelm the particulate filter.

F

Media Loading up to	28 lbs	12.7 kg
Pressure Drop: PCB	0.51 iwg	127 pa
Pressure Drop: CLR	0.36 iwg	89.7 pa
Pressure Drop: Blend	0.36 iwg	89.7 pa

Purafil Canisters



For high concentrations of gaseous contaminants. Available in galvanized steel, stainless steel and high-impact plastic housing. Designed to fit existing holding frames or built into Purafil's custom equipment.

G

Media Loading up to	90 lbs	40.82 kg
Pressure Drop 9"	1.75 iwg	435 pa
Pressure Drop 18"	0.42 iwg	105 pa
Pressure Drop 24"	0.18 iwg	45 pa

Purafil Modules



Available in high-impact plastic or galvanized steel, the specialty construction is adhesive free with highly aerodynamic airfoil screens to increase contact time while reducing pressure drop. Sampling ports allow you to test media life before replacing.

H

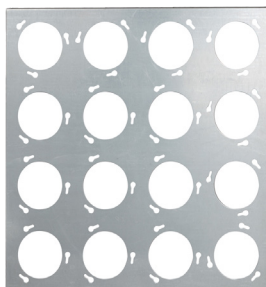
Media Loading up to	200 lbs	90.72 kg
Pressure Drop CK	0.6 iwg	149.5 pa
Pressure Drop PK12	0.6 iwg	149.5 pa
Pressure Drop PK18	0.49 iwg	102.1 pa

PURAFIL CUSTOM EQUIPMENT



FRONT ACCESS SYSTEM (FAS)

Modular frames are individually tracked for Purafil media modules. The FAS is specified in retrofit applications or custom air handling units. Airflows up to 2,000 CFM.



Canister Holding Frames

Holding frames are made out of galvanized steel and can be retrofitted into the current HVAC system or installed into customized Purafil equipment.



PURAFIL® SIDE ACCESS SYSTEM (PSA)

The PSA is designed for both particulate and gaseous contaminant control and works in conjunction with the facility's air handling system. Airflows of 250 - 50,000 CFM.

AIR QUALITY ASSESSMENT

Corrosive gas concentrations are invisible to the human eye and are commonly measured in parts per billion (ppb). Measuring the effects of corrosion requires reactivity monitoring (real-time or passive) as prescribed by ISA, ASHRAE, and iNEMI. We assess your environment to determine the types and levels of corrosive gases in your data centers, server rooms, switches, I/O devices, power distribution and UPS rooms. Strict criteria were developed by the International Society of Automation (ISA) to protect sensitive electronics from damage caused by corrosive gases. The ISA Standard 71.04-2013 has become the accepted guide for warranties of electronic equipment.



Purafil provides specially prepared Corrosion Classification Coupons (CCC's) for critical operating environments. The rate of corrosion buildup, measured in angstroms, on the coupon is indicative of the environment's severity level – G1, G2, G3, or GX. Purafil performs this service as a diagnostic tool to determine the types and levels of contaminants in various areas of your facility. We also offer the OnGuard Smart, which provides real-time updates on temperature, humidity and the reactivity of contaminants in the air, so you can be proactive in media replacements and maintain quality air.

ISA STANDARD 71.04-2013			
CLASS	COPPER REACTIVITY LEVEL (IN ANGSTROMS)*	SILVER REACTIVITY LEVEL (IN ANGSTROMS)*	AIR QUALITY CLASSIFICATIONS
G1	< 300	< 200	MILD <i>Corrosion is not a factor</i>
G2	< 1,000	< 1,000	MODERATE <i>Corrosion is measurable</i>
G3	< 2,000	< 2,000	HARSH <i>High probability that corrosion attacks will occur</i>
GX	> 2,000	> 2,000	SEVERE <i>Electronic equipment is not expected to survive</i>

*Normalized to a 30-day exposure. 1 angstrom = one hundred-millionth of a centimeter, or 10^{-10} meter.