MARKET SEGMENT BROCHURE: AIRPORTS

A FIRST-CLASS EXPERIENCE FOR EMPLOYEES & TRAVELERS

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



PUICATION Filtration Group®

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



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 heavier outdoor odors like jet exhaust and deicing chemicals or lighter nuisance odors from bathrooms and food courts, it's critical to maintain a healthy IAQ.

Poor IAQ causes us to breathe unhealthy air and lessens the guests' experience. Purafil's drop-in filter line is perfect for the lighter odors and contaminants while the Jet & Diesel Exhaust blend works well at eliminating the smells and contaminants from jet and vehicles exhaust.

Purafil Solution: Purafil Purafilter, PuraGrid, Select CP Blend Media

IS JET FUEL EXHAUST CORRODING 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 dioxide (SO_x) , nitrogen oxides (NO_x) 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 heavier, consistent odors and contaminants. No more funky smells, no more corrosion!

Purafil Solution: Select CP Blend Media, Purafilter, PuraGrid, Purafil Modules

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, 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



WHEN ONE-SIZE-FITS ALL JUST DOESN'T WORK

Are you ready for a custom solution that thoroughly eliminates the gases that activated carbon leaves behind? A onesize-fits-all solution won't cut it, which is why Purafil specially engineered custom blends designed to address the unique problems you face while *permanently* removing gases—even the ones carbon can't remove. This is done through chemisorption, a process that chemically transforms gases into harmless solids that remain trapped inside the media.

Problem Gases In The Air Stream



Problem Gases In The Air Stream



Activated Carbon



Purafil Custom Media



Gases Carbon Fails to Eliminate:



Purafil Peace of Mind

SELECT CP BLEND MEDIA:

Eliminates corrosion-causing pollution, smoking odors, jet exhaust, and the health impacts it brings so travelers and staff can enjoy clean, odorless air. The World Health Organization (WHO) shows that exposure to nitrogen oxides can cause irritation of the eyes, skin and respiratory system, headaches, difficulty breathing and asthma. This blend removes common exhaust gases including H_2S , NO_2 , SO_2 , HC, VOCs, O_3 , Cl and CH_2O .



PURACARB AM MEDIA:

Removes common bathroom odors-including urine and ammonia, so you can give travelers a five-star experience. The Center for Disease Control and Prevention cites coughing, eye irritation, burns on the throat, skin, eyes and lungs and even lung disease as common symptoms of ammonia exposure.



ADVANCED FILTERS FOR EVERY NEED

MERV8 With PuraWard

Upgrade your HVAC filtration without increased pressure drop, airflow reduction or increased energy costs. Using a microtechnology containing an EPA registered antimicrobial additive, the PuraWard filter is protected from many viruses, bacteria, and mold using copper and silver[†].

PK-18 Modules

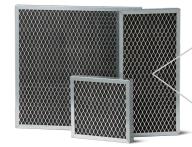
Purafil modules will help you save energy, money and time while improving indoor air quality. The specialty design features a durable, adhesive-free construction with highly aerodynamic airfoil screens, easy access sampling ports and the patented Posi-Track[™] Purafil technology. Purafil's modules can be inserted into existing module or cassette based equipment. Purafil's professional team of scientists and engineers have created an aerodynamic airfoil screen design. This enhancement provides a lower pressure drop and increased energy savings.

The AOC Purafilter®

Combination chemical and particulate filter designed to replace existing particulate filters in retrofit or rework applications. The Purafilter contains Purafil SP Blend media and is useful in applications where space limitations exist. Purafil engineers are the first to successfully incorporate sodium permanganate media in a bicomponent fiber matrix, which does not require the use of adhesives so the media is fully available for reaction with gaseous chemical contaminants. Purafil's patented media formulation is evenly distributed throughout the filter structure to assure the highest filtration efficiency

PuraGRID[™] Filter with GridBLOK[™] Technology

Made of extruded monolithic block consisting of a large number of small parallel cells or channels. The GridBLOK™ is composed of essentially 100% adsorbent materials allowing the entire composite structure to function as a gas filter within the PuraGRID Filter. This filter features no bypass, low pressure drop and turbulent air flow with full utilization of the media. PuraGRID filters can be used inside Purafil's custom engineered equipment or installed into existing air handling systems. Purafil manufactures multiple GridBLOK formulations designed to eliminate common indoor pollutants.



GridBLOK Media



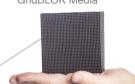
Magnified view of the GridBLOK structure













16X Magnified

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 per 24" frame



PuraShield 500

A compact HEPA recirculation unit with a sound level less than 60dB, making it exceptionally quiet. It has a sleek design that fits in anywhere and casters for easy portability. Airflows up to 250 CFM



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 (CCCs) 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 Corrosion is not a factor
G2	< 1,000	< 1,000	MODERATE Corrosion is measurable
G3	< 2,000	< 2,000	HARSH High probability that corrosion attacks will occur
GX	> 2,000	> 2,000	SEVERE Electronic equipment is not expected to survive

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

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