

MARKET SEGMENT BROCHURE: HOSPITALITY

IS YOUR HOTEL EARNING FIVE STARS FOR THE FIFTH SENSE?

CREATE A COMFORTABLE SPACE FOR YOUR GUESTS
BY ELIMINATING ODORS AND POLLUTION, ALL WHILE
REDUCING YOUR ENERGY BILL.



FILTERING FOR FIVE-STAR AIR



ARE YOU TIRED OF REOCCURRING ODOR COMPLAINTS?

Occupancy rates, guest satisfaction and online ratings are all affected by odor complaints. Unpleasant smells can come from anywhere, whether it's local traffic, on-site kitchens, mildew or even remodeling materials. Common particulate filters trap dust, pollen, and other particles, but don't address gases – the true source of odor complaints.

Purafil Solution: Purafil Purafilter, Kitchen Odor & Smoke Blend, Bathroom Odor & Ammonia Blend

IS YOUR AIR AS FRESH AS THE SHEETS?

Controlling airborne pollutants is essential to maintaining a healthy and pleasant environment for all. By maintaining healthy air quality, you can give your guests a whole new level of comfort. Keep your staff and occupants happy and healthy by eliminating VOCs, formaldehyde, NO_x, SO_x and other harmful pollutants.

Indoor Air Quality (IAQ) can be affected by both inside and outside sources. Common outside sources of pollution include incinerators, loading docks and waste disposal units, usually located within a few feet of primary HVAC air intakes. Inside sources of pollution can include cleaning aerosols, guests, office furnishings and printers. Traditional air handling systems are not equipped to address such contaminants, which have a major impact on air quality.

Purafil Solution: Purafil Purafilter, Diesel Exhaust Blend

GO GREEN & SAVE SOME GREEN

Heating and cooling large amounts of outside air can be expensive, requiring large HVAC units and increased energy consumption. Building codes stipulating make-up air for each room can increase these costs. Procedures like ASHRAE Standard 62.1-2018 for IAQ allow for the reclassification of exhaust air from guest rooms which are already cool and dehumidified. We are able to execute these procedures by applying regulatory knowledge and using our unique filtration systems. By decreasing the total amount of outside air required, Purafil is able to reduce energy costs and enable the use of smaller HVAC units.

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

PURAFIL SAVES THE SEASON

RIDDING RESORTS OF RESTAURANT ODORS

A five-star resort and spa on one of Greece's most popular islands had five in-house restaurants, which caused strong odor issues throughout the hotel, including common areas and guest rooms. This was concerning to the travel agency working with the resort, so they requested the issue be remedied before the heavy travel season began in just two months.

The solution needed to be quiet as not to disturb the guests, and customized to fit within the limited space available. We ensured the solution would be less than 40dB for optimal guest satisfaction and comfort. We installed custom kitchen exhaust systems in varying orientations, combining HEPA filters, UV-C, and Purafil Select CP Blend media. We incorporated a silencer to decrease noise generated by the fans.

We were able to deliver the highest level of service, ensuring odors were eliminated within the two-month time frame. The resort maintained their relationship with the travel agency, allowing them to maintain a high occupancy rate in their peak season. The resort remains a loyal and odor-free Purafil customer with happy and comfortable guests.

“They were able to solve our problem on time, so we could avoid having complaints from hotel guests during the high season.” - Resort Maintenance Manager

Purafil, Inc. is the leading manufacturer of filtration media, scrubbers, and monitors 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 hotel, resort, or casino will provide the ideal guest experience.

PURAFIL'S MEDIA ADVANTAGE



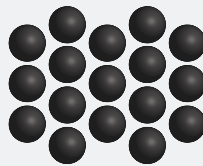
WHEN ONE-SIZE-FITS ALL JUST DOESN'T WORK

Are you ready for a custom solution that thoroughly eliminates the gases that activated carbon leaves behind? A one-size-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



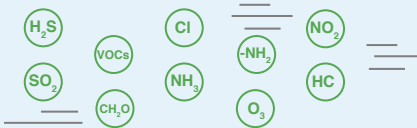
Activated Carbon



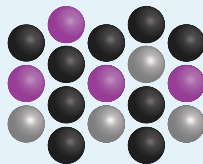
Gases Carbon Fails to Eliminate:



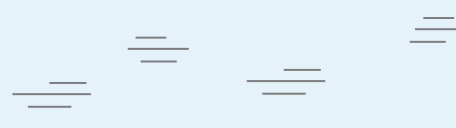
Problem Gases In The Air Stream



Purafil Custom Media



Purafil Peace of Mind



JET & DIESEL EXHAUST BLEND:

Removes exhaust from local traffic and nearby vehicles, providing your guests with a clean, healthy environment. 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 , $VOCs$ and CH_2O .

BATHROOM ODOR & AMMONIA BLEND:

Removes common bathroom odors, including urine, ammonia and chlorine. Give guests a five-star experience with Purafil's custom media. 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. This blend removes bathroom gases including H_2S , NH_3 and $-NH_2$.

OUTDOOR POLLUTION & CORROSION BLEND:

Eliminates cleaning compounds and chlorine odors, so you can maintain a pristine environment for guests. Hydrogen sulfide exposure can result in nausea, headaches, fatigue, coughing, eye and throat irritation and even unconsciousness, according to the US Department of Labor. This blend removes common gases including H_2S , NO_2 , SO_2 , $VOCs$ and O_3 .

KITCHEN ODOR & SMOKE BLEND:

Captures smoke and common kitchen odors, including those resulting from burnt food, cheese, mold and tobacco. The EPA defines the effects of exposure to sulfur oxides as difficulty breathing, respiratory system problems and asthma irritation. It can also cause nose and throat irritation and excessive coughing. Keep restaurant odors where they belong with Purafil's custom media. This blend removes common kitchen gases including H_2S , NO_2 , SO_2 , $VOCs$ and Cl .

ADVANCED FILTERS FOR EVERY NEED

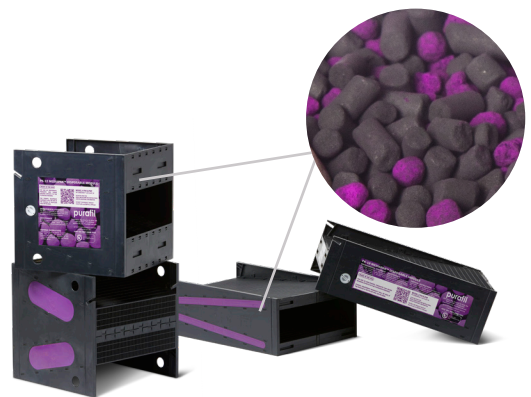
MERV8 With PuraWard

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

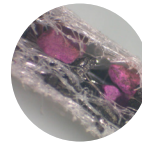
Purafil modules will help you save energy, money and time while improving indoor air quality. The specialty design features a durable, adhesive-free construction with highly aerodynamic airfoil screens, easy access sampling ports and the patented Posi-Track™ Purafil technology. Purafil's modules can 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.



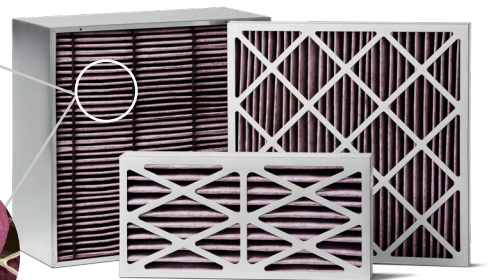
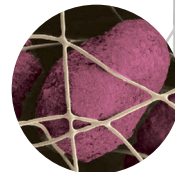
The Purafilter®

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

16X Magnified



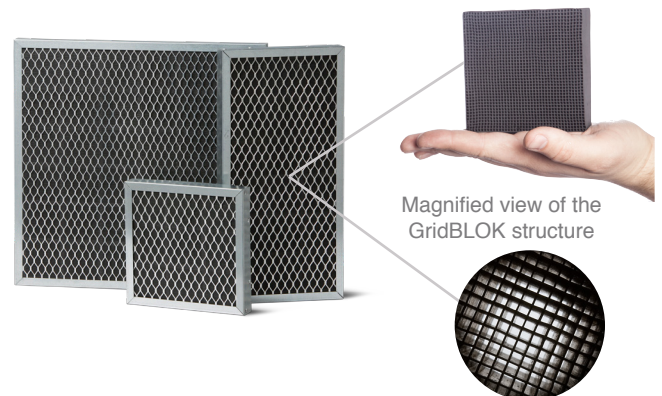
32X Magnified



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



†Filter protected by an EPA-registered antimicrobial additive

HOW AIR FILTRATION IMPACTS LEED CERTIFICATION

HOW PURAFIL HELPS EARN POINTS TOWARDS LEED CERTIFICATION

Environmentally and energy-conscious builders are utilizing LEED (Leadership in Energy and Environmental Design) guidelines to build green structures. This rating system provides a framework for creating efficient, sustainable buildings. LEED certifications are recognized worldwide.

POINTS TOWARDS LEED CERTIFICATION

RATING CATEGORY	POINTS AVAILABLE	SUGGESTED AIR FILTRATION STRATEGY
Energy & Atmosphere Prerequisite: Minimum Energy Performance	Required	Quantify the energy implications of various filter selections
Energy & Atmosphere Credit: Existing Building Commissioning – Analysis	2	Perform a life cycle cost analysis and energy analysis on the HVAC filtration system
Energy & Atmosphere Credit: Existing Building Commissioning – Implementation	2	Choose air filters with lower resistance to air flow (such as PuraGRID and Purafilter) and follow an optimized change-out schedule
Materials & Resources Credit: Purchasing – Ongoing	1	Use extended-life filters (such as PuraGRID and Purafil V-Bank) to reduce changeouts and minimize waste generated while minimizing energy consumption
Indoor Environmental Quality Credit: Indoor Air Quality Management Program	2	Include all air filters in the I-BEAM-based IAQ management program & follow an optimized changeout schedule
Indoor Environmental Quality Credit: Enhanced Indoor Air Quality Strategies	2	Utilize MERV 13 GreenPleat filters for all systems supplying outdoor air to occupied spaces and follow an optimized changeout schedule

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