BAIKLIM CHEMICAL



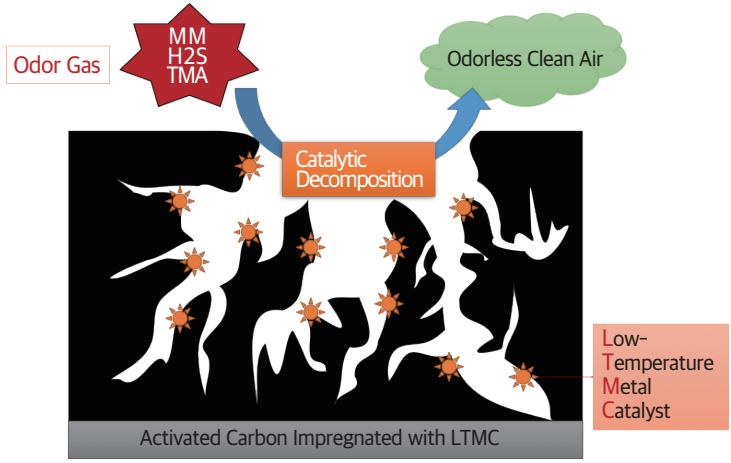
■ Company name: Baiklim Chemical Co., LTD.
■ Location 33, Gimhae-daero 2636beon-gil, Gimhae-si, Gyeongsangnam-do, 50936, Rep. of KOREA

■ Business areas
▷ Activated carbon filters for refrigerator, air cleaner, air conditioner.
▷ Functional filters for air conditioning system.
▷ Performance evaluation of filters.

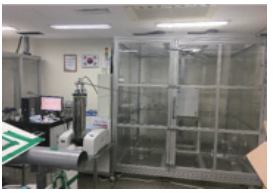
■ Main Products
▷ Deodorizing filters: 3D Block filter. Corrugate filter, Honeycomb filter
▷ Functional filters: Anti-bacterial filter, Anti-allergic filter, Photo-catalytic filter.
▷ Mini rechargeable air-freshener "AIRSPA"

■ Partners and suppliers.
▷ Kuraray Chemical(Japan)
▷ LG Electronics(Korea)
▷ 3AC(Korea)

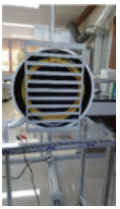
■ Brief introduction
▷ Baiklim Chemical, in collaboration with Kuraray Chemical of Japan, Produces activated carbon block filters impregnated with a Low Temperature Metal Catalyst(LTMC) for air conditioning system.
▷ The low-temperature metal catalyst(LTMC) effectively decomposes and removes odorous gases such as Methylmercaptan(MM), Hydrogen sulfide(H2S) and Trimethylamine(TMA)

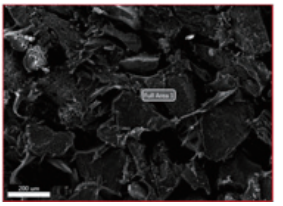


BAIKLIM CHEMICAL RESEARCH CENTER

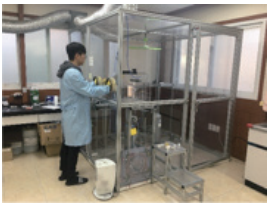



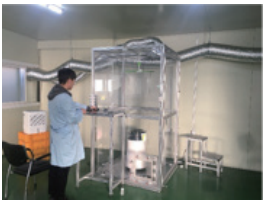
■ Various air filter for indoor air quality improvement
▷ Development of new materials and technological innovation
▷ Collaborative development of industry, academy and research (Ulsan University, Pusan National University, Busan Techno park)





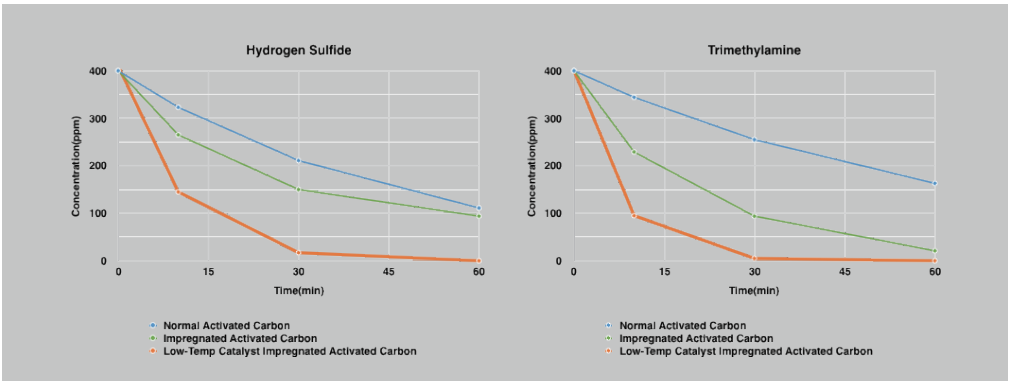
■ Catalytic material with excellent efficiency
▷ UV photo catalytic materials
▷ Visible photo catalytic materials
▷ Low Temperature Metal catalytic materials



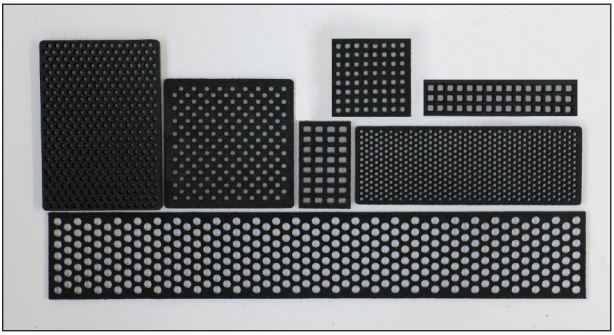


■ Air purifier performance evaluation
▷ Korea Clean Air performance test
▷ China GB/T CADR and CCM test

FILTER PERFORMANCE CHAMBER TEST



3D 블록 활성탄 필터 (3D Block Activated Carbon)



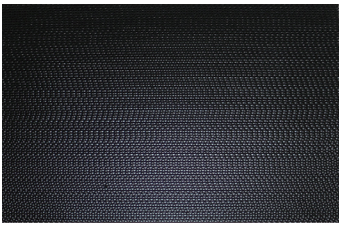
- 활성탄 분말(30~80mesh)을 바인더와 혼합하여 다양한 형상으로 가공 가능
- 저온금속촉매(Cu)가 담지된 활성탄 분말 사용으로 흡착 속도가 매우 빠르고 탈취 성능이 오래 지속됨
- 수분에 강한 바인더 적용으로 냉장고, 김치냉장고, 가습기 등에 적용이 용이함
- 저온금속촉매(Cu)를 담지하여 항균기능성을 가짐
  (한국화학융합시험연구원 TBP-000056, 대장균, 황색포도상구균 99.9%제거)
- 고객의 요구 사항에 최적화된 형태의 가공 가능(크기, 인치당 셀 개수, 대상 가스 등)
- 용도 : 냉장고용 탈취필터, 자동차용 탈취필터, 기타 각종탈취 시스템

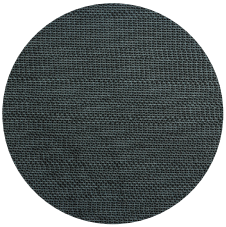
AIRSPA (mini rechargeable air freshener)



- 에어스파는 냉장고 탈취 전용 기기 입니다
- 에어스파는 김치냄새, 생선냄새, 등 주방음식 냄새 탈취에 탁월합니다
- 에어스파는 화장실, 신발장, 옷장 등의 탈취 겸용으로도 사용 가능합니다
- 에어스파는 대장균, 포도상구균, 폐렴균을 완벽하게 제거합니다
- 에어스파의 탈취필터는 일본 ㈜쿠라레에서 개발한 야자각 활성탄을 이용,
- 발명특허(1995년)를 취득한 세계최고의 흡착식 분해 탈취필터 입니다

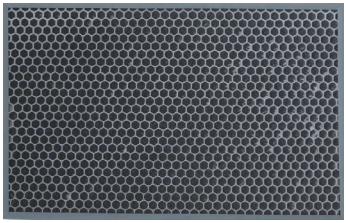
콜게이트 활성탄 필터 (Corrugate Filter)

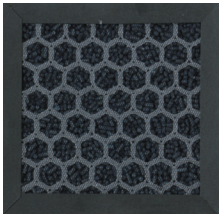




- 콜게이트 형태의 종이 또는 부직포 필터 여재에 활성탄 등과 같은 흡착제를 코팅 처리한 탈취필터
- 압력손실 측면에서 기존 필터 대비 유리하여 풍량 확보(환기율 상승)에 유리함
- 다양한 기능성 첨착을 통하여 일반 활성탄으로 제거가 어려운 알데히드계열의 가스나 암모니아 계열의 가스 제거에 유리함
- 저온분해 촉매 또는 광촉매 첨착을 통한 가스상 오염물질의 효과적인 분해제거가 가능하며 제거효율 및 사용수명이 향상됨
- 고객의 요구 사항에 최적화된 형태의 가공 가능(모양, 크기, 인치당 셀수, 대상 가스 등)
- 용도 : 공기청정기, 에어컨, 기타 공조시스템

허니컴 활성탄 필터 (Honeycomb Core Filter)

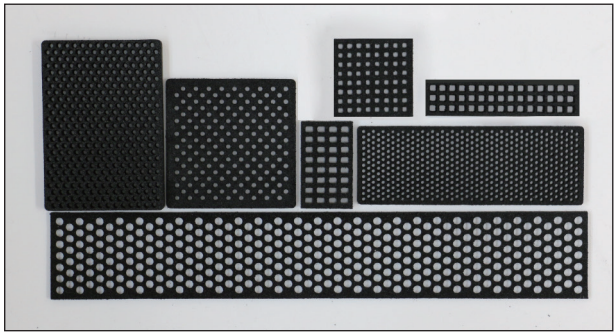




- PP 허니컴 코어에 조립활성탄이 충진된 형태
- 직경 2~4 mm의 원통형 형상을 가진 일반 조립활성탄 또는 첨착 조립활성탄을 사용함
- 한종류 또는 두종류 이상의 첨착활성탄 조합이 가능하여 복합가스 제거에 유리함
- 충진되는 활성탄의 양을 조절하여 압력손실과 성능의 균형 조절이 가능함
- 고객의 요구 사항에 최적화된 형태의 가공 가능(크기, 인치당 셀수, 대상 가스 등)
- 용도 : 공기청정기, 에어컨, 기타 공조시스템

BAIKLIM CHEMICAL

3D Block Activated Carbon Filter



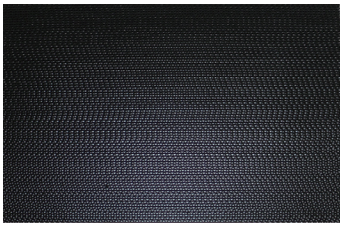
- Various shape filters can be produced by mixing activated carbon powder with binder.
- Using activated carbon powder impregnated with Low-Temperature Metal Catalyst(LTMC), the adsorption rate is very fast and the deodorization performance has very long-life time.
- Easily applicable to refrigerator, kimchi/specialty food refrigerator, dehumidifier by applying strong binder to water.
- Activated carbon filter with Low-Temperature Metal Catalyst has antibacterial function (99.9% removal of E. coli and Staphylococcus aureus according to Korea Testing & Research Institute: TBP-000056)
- Supply of filters optimized for customer requirements(size, number of cells per inch, target gas, etc.)
- Applications: deodorizing filter for refrigerator, automobile, various HVAC systems.

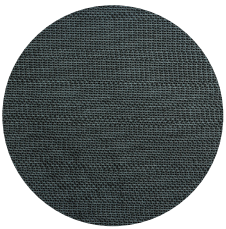
AIRSPA (mini rechargeable air freshener)



- AIRSPA is mini rechargeable air cleaner designed to remove refrigerator odors.
- AIRSPA is excellent for deodorizing kitchen food odors such as kimchi and fish smell.
- AIRSPA can also be used as a deodorant for bathroom, shoe rack, and closet.
- AIRSPA completely removes E. coli, Staphylococcus aureus and Streptococcus pneumoniae.
- The world's best adsorption / decomposition deodorization filter(invention patent 1995) of the AIRSPA uses the coconut shell activated carbon of Kuraray in Japan

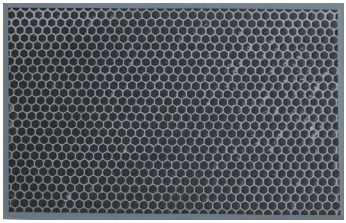
Corrugate Filter

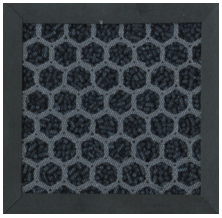




- A deodorizing filter which is coated with an adsorbent such as activated carbon, zeolite, silica on corrugated paper or non-woven fabric filter media.
- In an aspect of pressure drop, corrugate activated carbon filter has advantages(increasing ventilation rate) over existing filter types.
- Corrugate activated carbon filter is advantageous to removal of aldehyde or ammonia gases through impregnation with various materials.
- Through the impregnation of low-temperature metal catalyst or photo catalyst, effective adsorption / decomposition of gaseous pollutants is possible, and removal efficiency and service life-time are improved.
- Supply of filters optimized for customer requirements(size, number of cells per inch, target gas, etc.)
- Applications: Air purifier, air conditioner and other HVAC system.

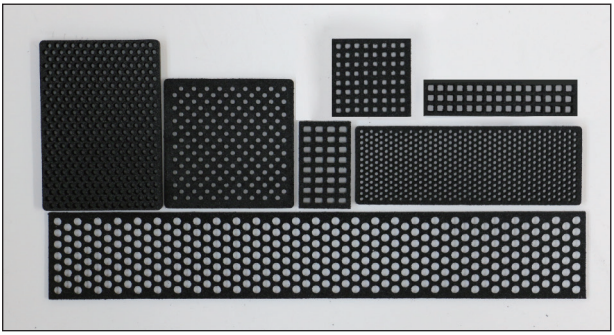
Honeycomb Core Filter





- Filter with a Polypropylene honeycomb-core filled with pelletized activated carbon.
- Regular of impregnated activated carbon in a cylindrical pellet shape with a diameter of 2 ~ 4 mm.
- Can be provided as a single type or combined with more than two types of impregnated activated carbon for removal of mixed gases.
- It is possible to adjust the balance of pressure drop and performance by controlling the amount of activated carbon to be filled.
- Supply of filters optimized for customer requirements(size, number of cells per inch, target gas, etc.)
- Applications: Air purifier, air conditioner and other HVAC system.

3D 块式活性碳过滤器



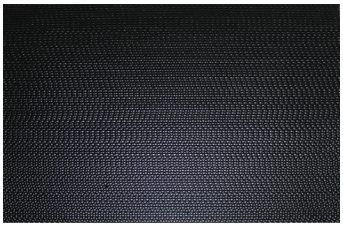
- 通过用粘合剂将粉状活性炭（30－80 目）结合，可制成各种形状的过滤器
- 凭借结合粉状活性炭使用的低温金属催化剂（铜），即时去除异味并延长过滤器使用寿命
- 过滤器的高防水性使其适合用作诸如冰柜、韩式泡菜冰箱和除湿器的产品中
- 低温金属催化剂（铜）也具备抗菌特性（根据韩国测试和研究机构 TBP-000056，可去除 99.9% 的大肠杆菌和金黄色葡萄球菌）
- 优化了设计灵活性以符合客户的要求（尺寸、每英寸单元数、目标气体等）
- 应用：冰柜和冰箱除臭剂过滤器、汽车除臭剂空气过滤器以及其他各种除臭剂系统

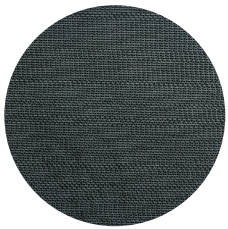
AIRSPA（微型可充电空气清新器）



- AIRSPA 是一种异味去除装置，专门设计用于去除冰箱异味
- AIRSPA 在去除来自诸如鱼类的食物的强烈气味时特别有效
- AIRSPA 是去除浴室、鞋架和壁橱中异味的理想选择
- AIRSPA 可去除大肠杆菌、金黄色葡萄球菌以及肺炎球菌，效果接近 100%
- AIRSPA 使用世界顶级品质的可更换异味吸收器的过滤器，注入了椰子壳活性炭（日本制造商 Kuraray 1995 年专利产品）

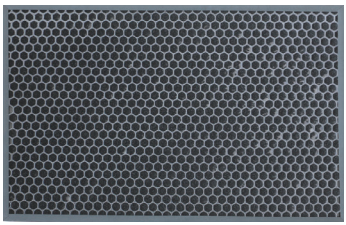
起皱纸过滤器

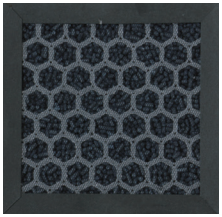




- 起皱纸制成的气味过滤器或涂覆了吸收剂（包括活性炭）的非织造型过滤器
- 在保持压力上表现出色，与传统过滤器相比可实现更好的空气流动和通风
- 各种注入的炭选件可将常规活性炭难以去除的醛或氨类气体清除干净
- 活性炭用作低温还原催化剂或光催化剂，通过提升效率和寿命实现有效的气体净化
- 优化了设计灵活性以符合客户的要求（形状、尺寸、每英寸单元数、目标气体等）
- 应用：空气净化器、空气调节器以及其他 HVAC 系统

蜂窝芯过滤器





- 起皱纸制成的气味过滤器或涂覆了吸收剂（包括活性炭）的非织造型过滤器
- 在保持压力上表现出色，与传统过滤器相比可实现更好的空气流动和通风
- 各种注入的炭选件可将常规活性炭难以去除的醛或氨类气体清除干净
- 活性炭用作低温还原催化剂或光催化剂，通过提升效率和寿命实现有效的气体净化
- 优化了设计灵活性以符合客户的要求（形状、尺寸、每英寸单元数、目标气体等）
- 应用：空气净化器、空气调节器以及其他 HVAC 系统