

# GAS & AIR PURIFICATION

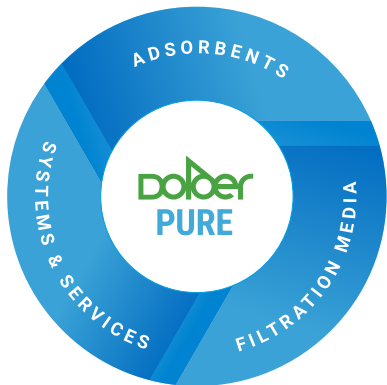
**Customized filtration and purification solutions, addressing  
regulatory and safety needs across various industries**

# GAS & AIR PURIFICATION

www.dolder.com/pure

## FOR OUR GENERATION AND FOR THE FOLLOWING ONES

DOLDER® PURE is a specialized division of the Dolder Group, focused on innovative, high-performance purification and filtration solutions. We offer a comprehensive portfolio across four key areas:



PURE MATERIALS

PURE SYSTEMS

PURE SERVICES

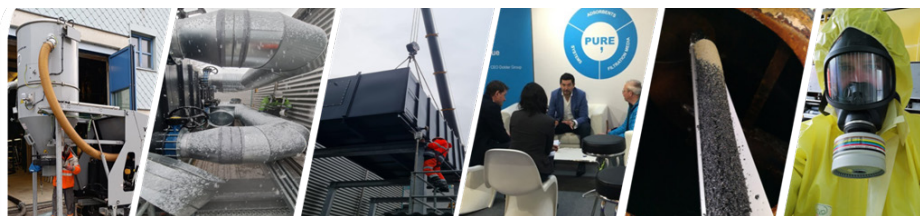
PURE ANALYTICS



### PURE MATERIALS: A WIDE RANGE OF HIGH-QUALITY FILTRATION MEDIA

Our advanced filtration solutions are engineered to effectively eliminate a wide range of gas and air contaminants. The following table provides an overview of our filtration media.

|   | PRODUCTS   | APPLICATIONS  |
|---|--|---|
| MECHANICAL / PHYSICAL SEPARATION                    | Demister, structured or random packing   | Removal of mist and condensates, dust, smoke, pollen, particles - not gases.  |
|   | Fibrous media, HEPA/ULPA filter  |   |
| ABSORPTION<br>CHEMISORPTION<br>CATALYTIC SEPARATION | Activated carbon in various forms:<br>Granular (GAC), powdered (PAC), pelletized, fibrous (woven/non-woven), foam, honeycomb | Odor control:<br>Removal of H <sub>2</sub> S, mercaptans, ammonia and organic odour emissions                                   |
|   | Potassium & sodium permanganate impregnated media  | VOC (Volatile Organic Compounds):<br>Removal- toluene, xylene, acetone, alcohols, etc.  |
|   | Molecular sieves:<br>Zeolite, activated alumina, silica gel, carbon molecular sieve  | Acid gas & corrosive gas removal:<br>HCl, HF, HBr, Cl <sub>2</sub> , NO <sub>x</sub> , SO <sub>x</sub> , CO <sub>x</sub> , etc. |
|   | Ceramic composite materials  | Biogas & landfill gas upgrading   |
|   | Metal organic framework (MOF) and advanced catalysts   | Heavy metals removal  |
|   |  | Moisture  |
|   |  | Specialty gas separation:<br>Nitrogen, CO <sub>2</sub>  |



PURE

## PURE SYSTEMS: PURCHASE AND RENTAL OPTIONS FOR FILTER VESSELS

Whether for short-term remediation or permanent installations, our systems are delivered and supported by expert service, media management, and sustainability-focused reactivation programs.

### READY TO CONNECT GAS ADSORBER

Gas adsorber series is designed to purify gas and air streams as standalone or a polishing step. They target pollutants that are in gaseous form - not dust or particles.

#### MATERIALS

Carbon steel, stainless steel, plastic particles.

#### SIZES

Various sizes from 0.2 to 30 m<sup>3</sup>.

#### SUPPORT FOR CUSTOMIZATION

Size, capacity, connection type, flow rate, operating pressure, coating – as per your application.

#### APPLICATIONS

- Odour control
- VOC removal
- Corrosion control
- Biogas & landfill gas
- Industrial emissions control



### COMPLETE AIR PURIFICATION SYSTEM

This equipment line is a completely engineered air purification system that combines pre-filtration, gas filtration, final filtration, with integrated fans/blowers.

#### MATERIALS

Aluminium; stainless steel, plastic (depending on model and corrosion resistance needs).

#### SIZES

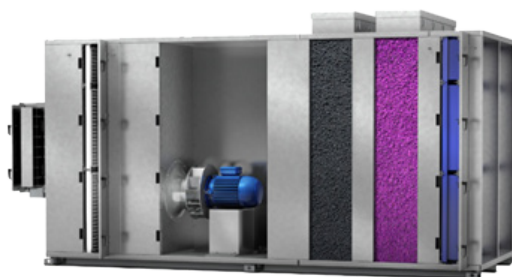
A full range of sizes .

#### SUPPORT FOR CUSTOMIZATION

Size, capacity, inlet/outlet connection type, flow rate, fan/blower type-static pressure, and energy efficiency, accessories, online monitoring – as per your application.

#### APPLICATIONS

- Odour control
- Corrosion control
- Toxic gas removals



### BIO ADSORBERS

Bio adsorber series (bio-trickling filters) are a sustainable, cost-effective solution for treating bio-degradable gaseous impurities, with integrated fans/blowers and chemical-free design.

#### MATERIALS

Casing vessel and biofilm support materials made of plastic.

#### SUPPORT FOR CUSTOMIZATION

Airflow, nutrient dosing, recirculation system, and footprint - as per your application .

#### APPLICATIONS

- Municipal & industrial wastewater treatment plants
- Composting facilities
- Food processing
- Chemical & petrochemical industries
- Landfills & biogas plants

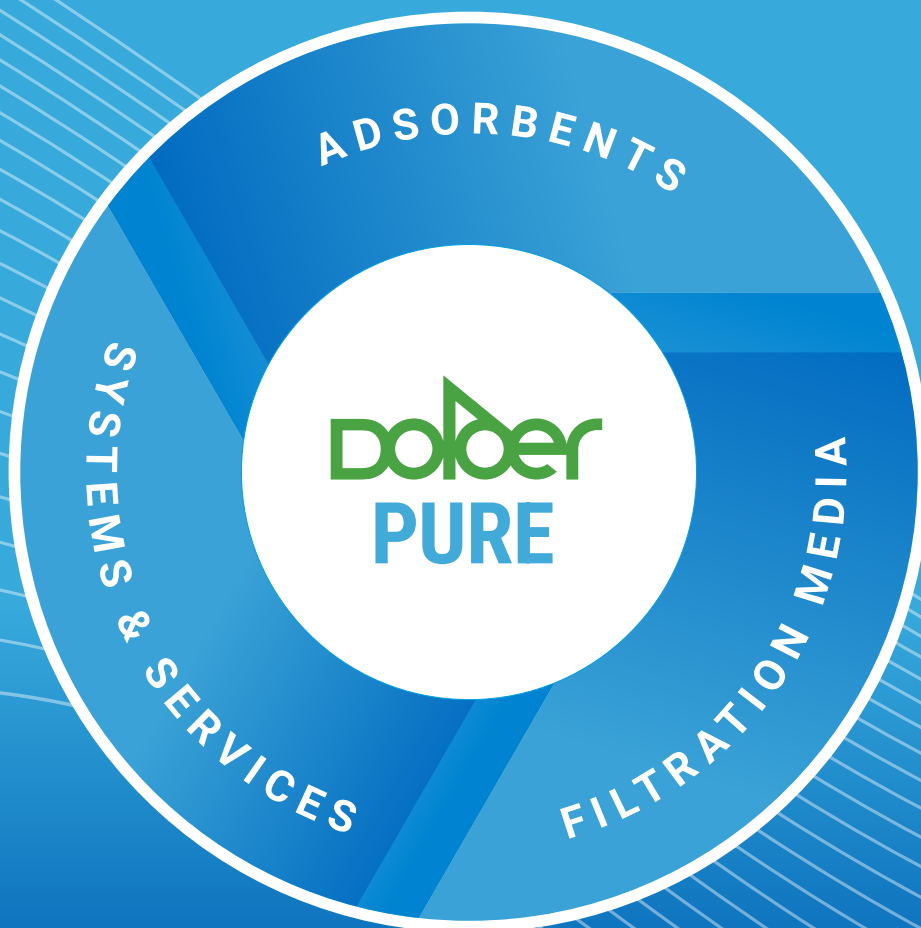


## PURE SERVICES: COMPREHENSIVE SUPPORT AND MAINTENANCE SOLUTIONS

- Media exchange (hazardous, ATEX etc...)
- Adsorber exchange (plug & play system)
- Remediation
- Media recycling/reactivation
- Hazardous transport (UN)
- Transport pallets, silo, container
- Reactor cleaning (up to 2500bar)
- Packaging, repackaging
- System commissioning
- Customized services
- Training
- Maintenance

## PURE ANALYTICS: EXPERT TESTING AND MONITORING FOR ASSURED PURITY

Upon request, DOLDER® PURE offers testing and analysis services to assess the remaining service life of filters—primarily those containing activated carbon, as well as other filtration media from our portfolio – providing a clear evaluation of the filter media's current condition and capacity.



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