

ENVIRON
MENT
_CARE

purify, protect
& preserve

by **BION**

Clean Air for the Future



GAS FILTRATION EXPERTS

With 25 years of experience in developing, manufacturing and marketing Gas Filtration Solutions, BION has gained a solid position in the global market.

By continually investing in new technologies and R&D programmes to improve performance, we strive to deliver innovative air filtration solutions. We are the only company producing pellets in-house using all three methods: impregnation, extrusion and sphere granulation.

Our solutions are customized to solve air quality problems including:

- Corrosion Control
- Odor Control
- Purification of Biogas
- Indoor Air Quality



CORROSION CONTROL

Processes in industries including Pulp and Paper, Petrochemical, WWTP and Geothermal, produce corrosive gases such as H_2S , SO_2 , Cl_2 and O_3 . Small concentrations of these gases can cause failures in electronic equipment causing costly plant downtime and maintainance.

BION offers onsite analysis using coupons or continious monitoring to analyse corrosion gases and levels according to the ISA 71.04-2013 standard. A customized solution is then proposed including equipment, media, air quality monitoring and media lifetime analysis.



ODOR CONTROL



In WWTP, Septic Tanks, Cannabis Plantations, Chemical Industries, Slaughterhouse, Food Processing Industries and others cause toxic and bothersome odors due to Sulphur compounds, Ammonia, Amines, Mercaptans and VOCs can cause disturbing odors.

BION addresses the problem effectively using scrubbers equipped with dry media to absorb and oxidise the gases that are responsible for the contamination.

BIOGAS PURIFICATION

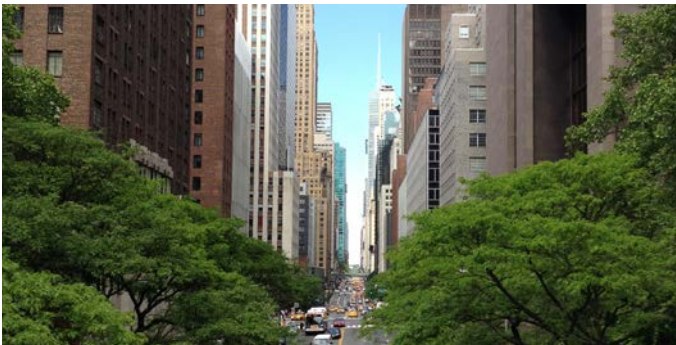
Biogas used in generation of electricity and gas injection to the gas grid first needs to be purified to eliminate traces of contaminants such as Hydrogen Sulphide (H_2S), Siloxanes, VOCs, Mercaptans, etc.

BION has a complete range of solutions high capacity media mix designed to be used in PSA, membranes and absorption technologies to ensure an optimal operating expenditure.





INDOOR AIR QUALITY



Offices, residential buildings, medical facilities, airports, archives, data centers are all pollutants with a mix of gases that range from CO, VOCs, NOX and Formaldehyde as well as Sulphur compounds.

BION analyses and provides specific solutions to effectively absorb contaminants to improve indoor air quality.



CORROSION MONITORING COUPONS

- 30 day corrosion test coupon following ISA 71.04 to analyse real condition.
- Indicates both quantity and types of corrosive gases.
- Upon completion of the test, BION produces a report classifying corrosion level from G1-mild through GX-severe.

SERVICES AND R&D

BION offers a complete range of services to ensure that our customers benefit before, during and after the air filtration installation.



Air Quality Analysis and recommendation which solution is best for you.



In-house test facility to simulate actual application conditions.



Customized calculation of media life expectancy.



State of the art laboratory provides continuous assessment and monitoring.



Design & dimensioning of filtration equipment, customized to your needs.



Reliable logistics and after sales services. Support for used media re-treatment.

CHOOSING THE RIGHT MEDIA

Depending on the contaminants that need to be absorbed, an optimum media combination or blend can be chosen. Our R&D Department analyzes each project and gas to offer the best complete solution.





BION EQUIPMENT



SIDE ACCESS HORIZONTAL UNIT (SAH)

- Tailored active or passive units.
- Fitted with one or multiple passes of PP12 or PP18 modules.
- Available in range from 850 - 67.000 m³/h // 500 - 42,000 SCFM.



POSITIVE PRESSURE / RECIRCULATION UNIT (PPU)

- Designed for control and relay rooms.
- Fitted with PP12 modules as well as pre- and final particle filters.
- Available in range from 500 - 6.800 m³/h // 370 - 4,200 SCFM.



PACKED BED SYSTEM (DBS)

- Tailored active or passive units.
- Bulk filled horizontal media bed.
- Multiple sampling ports for media life analysis.



DS RANGE

- Vertical drum scrubbers with self contained long life blower.
- Can be fitted with any BION media depending on the application.
- Standard sizes range from 100 to 5000 m³/h // 60 - 3100 SCFM, larger sizes upon request.



BION MODULES

- The PP12 and PP18 modules are designed to provide a fast and easy method to replace the filtration media in SAH and PPU units. These single-use filters.
- Can contain any BION filtration media.



4V FILTER RANGE

- 4v filters feature high efficiency and durability. They include particle filter and can be tailored with any BION media or blend to address specific contamination issues.
- The 4v family of filters comes in 3 standard sizes: S, M and L.