

POLAR GPS

Air ionization



Fresh Air without Odors and Germs

- Air ionization break down pollutants and gases into harmless compounds
- 30000 operating hours
- Low maintenance

Air ionization for clean and fresh air free of harmful compounds

Process

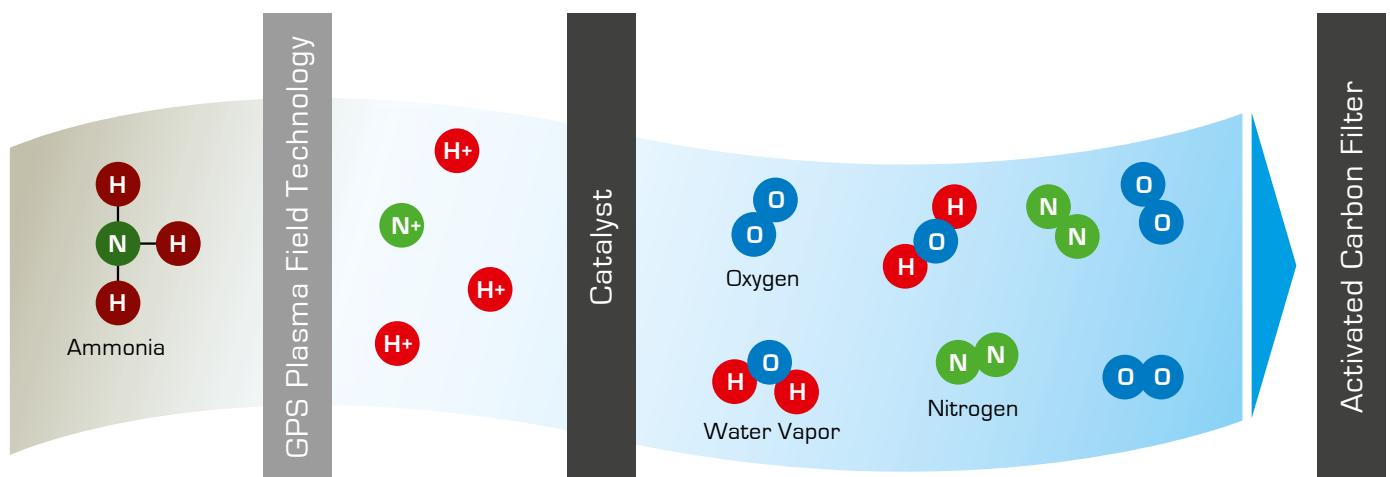
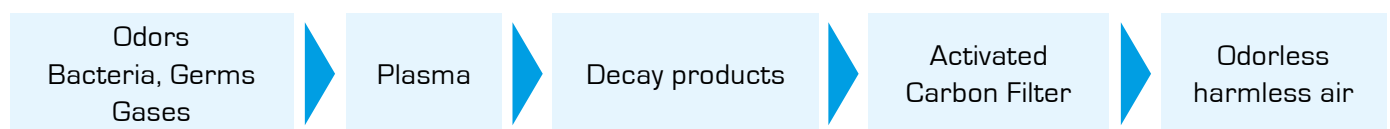
In the ionization process, odorants are oxidized and spores and bacteria are eliminated. This results in decay products which, thanks to their charge, bind to larger clusters. The enrichment of air with negative ions promotes our well-being.

The complete procedure

The complete air purification process allows the processes to run more stable and with a buffer effect due to downstream catalyst surfaces. An activated carbon filter is used as the final stage. This absorbs the harmful gases. The upstream ionization of the air regenerates the activated carbon filter so that its service life is higher.

Applications

- Treatment of circulating air and thus reduction of fresh air, energy saving (hotels)
- Treatment of contaminated outdoor air, odor elimination (airport, animal stables)
- Treatment of exhaust air in contaminated rooms



Effectiveness and related procedures

- The effectiveness of air ionization has been demonstrated in numerous installations at airports (exhaust fumes) and in hotels.
- UV treatment as a solution is highly recommended for the decomposition of long fat molecules (exhaust air gastronomy) and the hygienisation of wet components in the air conditioning system.
- The absorption of gases and decay products is most reliably solved with an activated carbon filter.



Summary of bipolar air treatment

Special procedures have proven themselves for special tasks. On this experience, plants are effectively equipped. In other tasks the decay products are not known or objective measurements are missing. The classic activated carbon filter is used in addition to the bipolar air treatment for the deposition of harmful decomposition products.

The air filtration in the field of gases and molecules and the energizing of the air for an increased well-being is a challenge in the objective, the measurement and the standardization.

GPS I-Bar

The emission of the ions is made via needles, it achieves a high ion emission density (plasma). In comparison, the classical ionization via the corona discharge in tubes is strongly ozone-producing and must be regulated accordingly to the ozone content.

Operation

The GPS I-Bar installation is operated parallel to the air conditioning system. Monitoring of the function is indicated by the control unit with an operating contact. The service life of "needle-point" technology is shifted to 30 000 operating hours.

Maintenance

The ionization modules can be wiped with a damp cloth and normal cleaning agent, the critical elements are packed in glass.

The cleaning of the emission needles is recommended in a cycle of six months. Depending on the application, this cycle may vary from 1 month to 1 year. Apart from cleaning, the installation is maintenance-free.

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Mountair AG
Lufttechnischer Apparatebau
Sonnenwiesenstrasse 14
8280 Kreuzlingen

T +41 71 686 64 64
F +41 71 686 64 76

Mountair AG, Basel
Florenzstrasse 9
4142 Münchenstein

T +41 61 841 09 74
F +41 61 841 09 75

info@mountair.com
www.mountair.com

