Be in the Clear on Exhaust Air since 1965

EXHAUST AIR PURIFICATION
for the Chemical Industry
As from 2021, stricter legislation will apply with regard to permissible emission limits. The basis for this is the WGC-BREF (Common Waste Gas Treatment in the Chemical Sector - Best Available Technique Reference Document), which defines the best state-of-the-art exhaust air purification for chemical plants.

The implementation of the European legislation is set for a limited period of time (4 years). The pressure to act on the companies concerned is growing.

We are in a position to offer the best available technology from our wide range of products and provide turnkey solutions for a variety of tasks.

Climate Protection Cannot Be Delayed!

Emissions Concerned

TVOC DUST NOx SOx HCl NH3 etc.

“Almost all chemical plants in need of permit in Germany and Europe fall under the WGC-BREF and will have to comply with future emission limits.”

Verband der Chemischen Industrie e.V. (Association of the Chemical Industry)
Your Specialist for Exhaust Air Cleaning and Heat Recovery

With over 50 years of experience in the field of exhaust air purification technology and more than 800 implemented plants, we have numerous references in various industries.

We guarantee reliable operating systems, which fulfil the official requirements at any time - tailor-made and turnkey. Our customers benefit from many years of experience and proven process engineering - from biological and chemical up to thermal exhaust air treatment. Our plant concepts represent economical and efficient solutions with low investment and operating costs to comply with the clean gas values required by law.

Best Available Technology – Our Contribution against Emissions and for Our Environment

The Decision Matrix

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Biological Exhaust Air Cleaning</th>
<th>Regenerative Thermal Exhaust Air Cleaning</th>
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<tbody>
<tr>
<td>Exhaust Air Characteristics</td>
<td>TVOC biodegradable small to medium TVOC-concentration</td>
<td>TVOC thermally degradable high TVOC-concentration</td>
</tr>
<tr>
<td>Separation Efficiency</td>
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</tr>
<tr>
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<td>low</td>
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Reduction of biodegradable compounds, such as:

- TVOC,
- aldehydes,
- phenols,
- organic acids,
- aerosols,
- odours

Suitable for hot exhaust air and for reduction of:

- solid particles (coarse or fine)
- sticky, agglomerating dust

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1 BIOCAT-Scrubber
WITH CYCLE WATER TREATMENT

2 BIOCAT-Filter
MODULAR DESIGN

Reduction of biodegradable compounds, such as: TVOC, aldehydes, phenols, organic acids, aerosols, odours

3 DUST Filter
DRY OR ELECTROSTATIC

4 DLP-Scrubber
LOW-PRESSURE SCRUBBER FOR DUST SEPARATION

5 AGGLO-(Control)-Scrubber
HIGH-PRESSURE SCRUBBER FOR DUST SEPARATION
(without illustration)

Suitable for hot exhaust air and for reduction of: solid particles (coarse or fine) and sticky, agglomerating dust
6 RTO
REGENERATIVE THERMAL OXIDATION
in cooperation with our affiliated company Airprotech S.r.l.
The treatment of corrosive exhaust air requires the use of high-quality materials. Reduction of pollutants, such as: solvents, methane, BTXE, odours

7 CS-Scrubber
MATERIAL: HIGH-GRADE STAINLESS STEEL
Reduction of inorganic compounds and exhaust air components, such as: ammonia, acids (e.g. H2S) or halogens (e.g. HCl, HF)

8 CS-Scrubber
MATERIAL: PLASTICS

9 Chemical Scrubber and Biofilter
The combination of different exhaust air purification systems (e.g. biological/chemical or biological/physical) is suitable for complex tasks, where different emissions have to be reduced at the same time. Analogue reduction of: TVOC, pollutants, odours, dust
Tailor-made Solutions from a Single Source