



EXHAUST AIR CLEANING

'Be in the clear about exhaust air'



Wessel
Environmental Technologies

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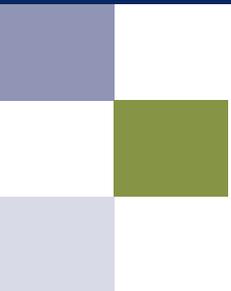
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A competent partner in all aspects of exhaust air cleaning and heat recovery since 1965

Energy-efficient, environmental systems and plants are becoming increasingly important in this age of climate protection. Wessel-Umwelttechnik GmbH supplies commercial plants for exhaust air cleaning and energy recovery. Today we are one of the leading suppliers of technical process plants in the area of environmental technology.

Our priority is the most economic solution for our customers besides the assured compliance with statutory threshold limits. Our extensive product range always enables us to implement a tailor-made facility technology for you.



Biological exhaust air cleaning plant

TECHNOLOGIES

Exhaust Air Cleaning

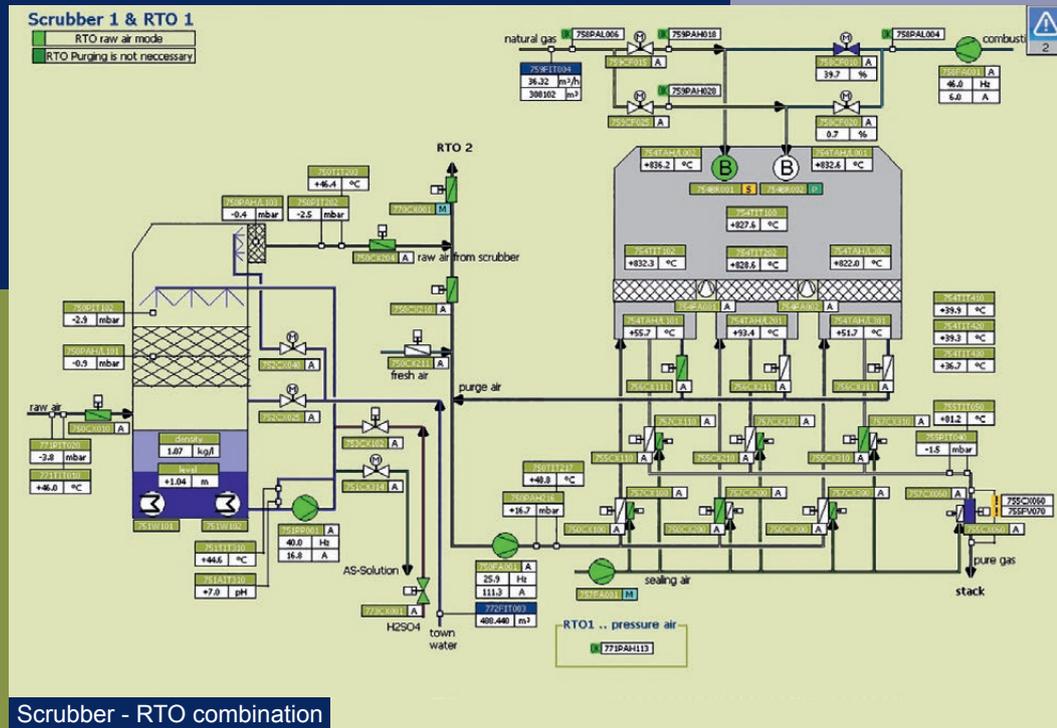
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Individual solutions

As a general rule demand for action in the area of exhaust air cleaning arises from statutory standards for:

- Odorous emissions
- Pollutant emissions
- Dust and aerosol emissions

We are able to select the optimal technology for a variety of tasks from our wide product range with turnkey implementation. At the same time we respond individually to your requests and design a facility customised specifically to your requirements.



Odour

Odours are often a result of a mixture of hundreds of substances. Having supplied more than 200 large-scale plants for odourant extraction for the most varied performance requirements, we possess extensive competence and experience in this area.

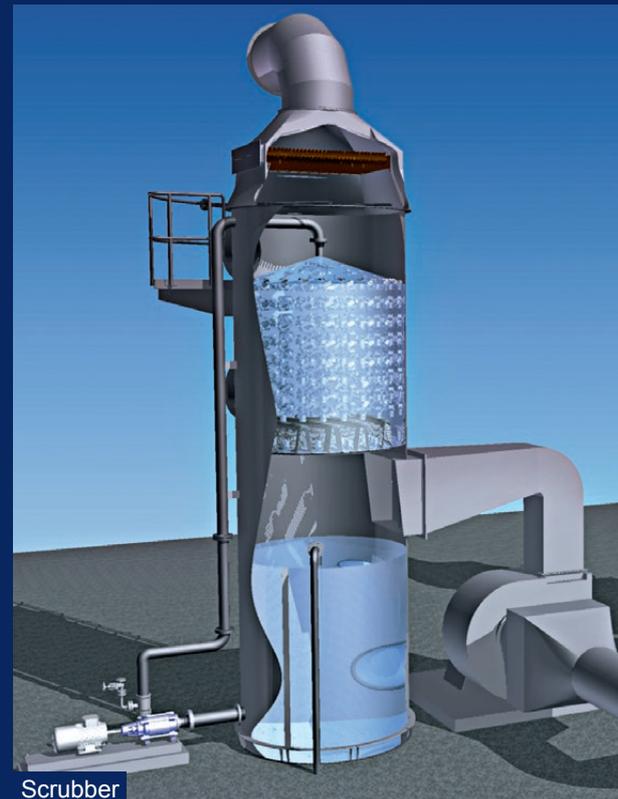
Pollutant

By evaporation or degasification of chemical components during technical processes pollutants escape into the exhaust air.

We always offer the appropriate system for the wide range of pollutant elimination when dealing with inorganic or organic compounds, such as solvents.

Dust

In the design of dust extraction plants we are able to draw on many years of experience with our wide range of reference systems. In our product range we offer dry dust extraction and wet scrubbers, enabling treatment even of damp and hot exhaust air as well as agglomerate dust with our industrial systems.



Scrubber



WERO-WRG (Heat Recovery)

Energy recovery systems

In terms of climate protection and economic viability, specific focus is put on the integration of energy recovery systems in our exhaust air cleaning plants. Heat contained in exhaust air is not released into the atmosphere but utilised, e.g., by means of a heat exchanger for warm water production processes or for the heating of buildings.

Your advantages are:

- Permanent reduction of energy costs for heat generation
- Reduction of operating costs depending on the installation of up to 90 %
- Rapid return of investment
- Considerable reduction of environmental impact

Tailor-made solutions from a single source

Based on our extensive know-how, we plan and design exhaust air cleaning plants - ensuring that our customers are well prepared for the future.

We offer a comprehensive service package - from the selection of suitable exhaust air cleaning techniques to commissioning. Our portfolio includes the entire spectrum of possible process techniques from combustion to biological processing. We develop the optimal solution and support you in all aspects of official authorisation requirements even for the most challenging assembly installation.

Our range of services includes:

- Consultation
- Planning & engineering
- Manufacturing & assembly
- Commissioning
- Research & development
- Measurements & analyses
- Service



RANGE OF SERVICES

Pilot Plants and Laboratory Analyses

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Pilot plants and laboratory analyses guarantee compatible installations

Pilot plants

In many areas of application, e.g. when pollutant composites are in the exhaust air, practical demonstrations with semi-commercial pilot plants on site win over theoretical calculations. The tailor-made design of the commercial plants based on the outcome of pilot testing guarantees you the optimal cost-benefit ratio.

Measurements and laboratory analyses

Our engineers and technicians conduct laboratory analyses and measurements in order to determine technical data.

We therefore provide comprehensive measuring and analysis equipment for testing air and water.



Pilot Plant

Comprehensive service for our customers

Exhaust air cleaning systems need to be regularly and thoroughly serviced and inspected to ensure high system availability and to achieve maximum operational safety.

Wessel-Umwelttechnik has a simple philosophy: Our service has to be just as good as our plants. Proven technologies ensure that your facility constantly runs smoothly and is always available.



SOLUTIONS

Sectors

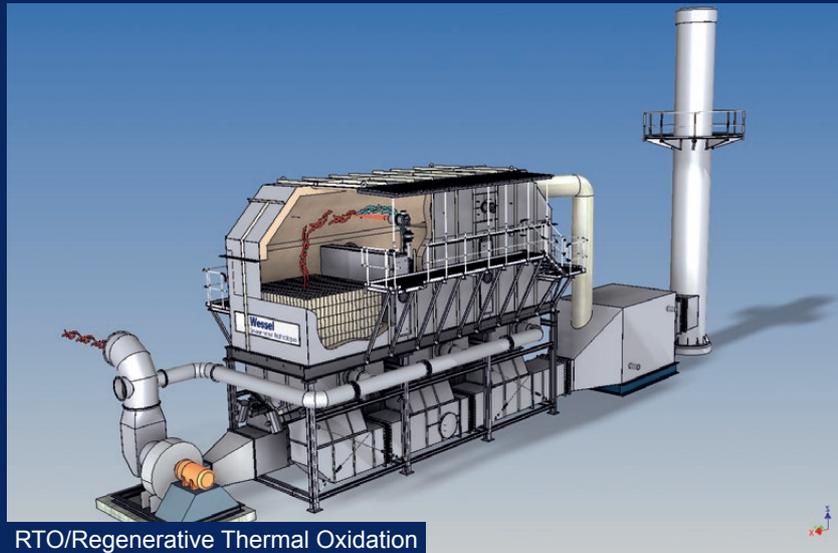
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Wessel-Umwelttechnik – the specialist for a variety of industries

Constant innovation and individual solutions are our distinguishing features. After nearly 50 years of experience in the area of exhaust air technology and supplying more than 700 plants we can draw on numerous references in the most diverse industries.

We supply waste air treatment technology, amongst others, for:

- Automobile Industry and Suppliers
- Coating Industry
- Chemical Industry
- Printing Industry
- Electrical Industry
- Waste Disposal Industry
- Animal Feed Industry
- Foundry Industry
- Rubber Processing Industry
- Semiconductor Industry
- Woodworking and Furniture Industry
- Plastics Processing Industry
- Food and Beverage Industry
- Paper and Pulp Industry
- Pharmaceutical Industry
- Friction Lining Industry
- Textile Industry
- Varnish and Paint Industry



RTO/Regenerative Thermal Oxidation

Latest product range

Our product range comprises the following applications:

Biologic exhaust air cleaning plants:

- BIOCAT-Scrubber
- BIOCAT-Filter
- Biotrickling-Filter

Chemical exhaust air cleaning plants

- CCS-Scrubber

Physical exhaust air cleaning plants

- Agglo-Control-Scrubber
- Venturi-Scrubber
- DLP-Scrubber
- WE-D-Dust Filter (dry dust extractor)
- WE-E-Dust Filter (electrostatic extractor)
- WE-W-Dust Filter (wet scrubber)
- WE-A-Adsorber (activated carbon)
- WE-Z-Adsorber (zeolite)

Thermal exhaust air cleaning plants:

- WECO-RTO
- WECO-KNV
- WECO-KRNV

Energy recovery plants:

- WERO-Heat Recovery
- WERO-LOGIC-Heat Recovery



WECO-RTO

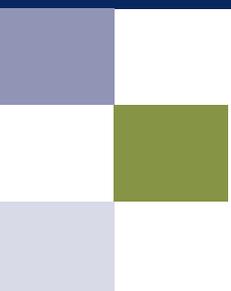


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