



Be in the Clear on Exhaust Air  
since 1965

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Your Competent Partner in all  
Questions of Exhaust Air Cleaning  
and Heat Recovery  
since 1965

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## Company

Energy-efficient environmental plants and systems become more important in our age of climate protection. Wessel-Umwelttechnik GmbH is one of the internationally leading suppliers of environmental process plants and is a specialist for complex tasks in the various industries.

Our deep knowledge provides us with the possibility to always supply the optimal solution. We construct and develop well-engineered plants with high operational safety, which safely and efficiently keep the desired threshold values. Together with our customers we analyse the initial situation and concretise the objectives. We work out custom-made system solutions for your application. We put special attention on safe process technology at low investment and operational costs. Subsequent to the basic engineering we assist you with governmental approval, installation and commissioning of your plant.



For Our Customers in Focus: Sustainability,  
Efficiency and Reliability

## Technologies

### Industrial Exhaust Air Cleaning

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#### Individual Solutions

The need for action in the area of exhaust air cleaning generally results from legal standards for odour, pollutant, dust and aerosol emissions. We are in the position to choose the best possible technique from our broad range of products for the different tasks and to provide ready-to-use solutions. We are committed to your individual needs, consider the production-specific and site-specific characteristics and develop a plant for your special requirements.

#### Odours

Odours often result from a mixture of hundreds of substances. With more than 200 plants supplied for odorous extraction for the most varied performance requirements, we possess extensive competence and experience in this area.

#### Pollutants

By evaporation or degasification of chemical components during technical processes, pollutants get into the exhaust air. We offer the appropriate system for a wide range of pollutant elimination for inorganic or organic compounds, e.g. solvents, formaldehyde, VOC, VIC, alcohol or ammoniac.

#### Dust

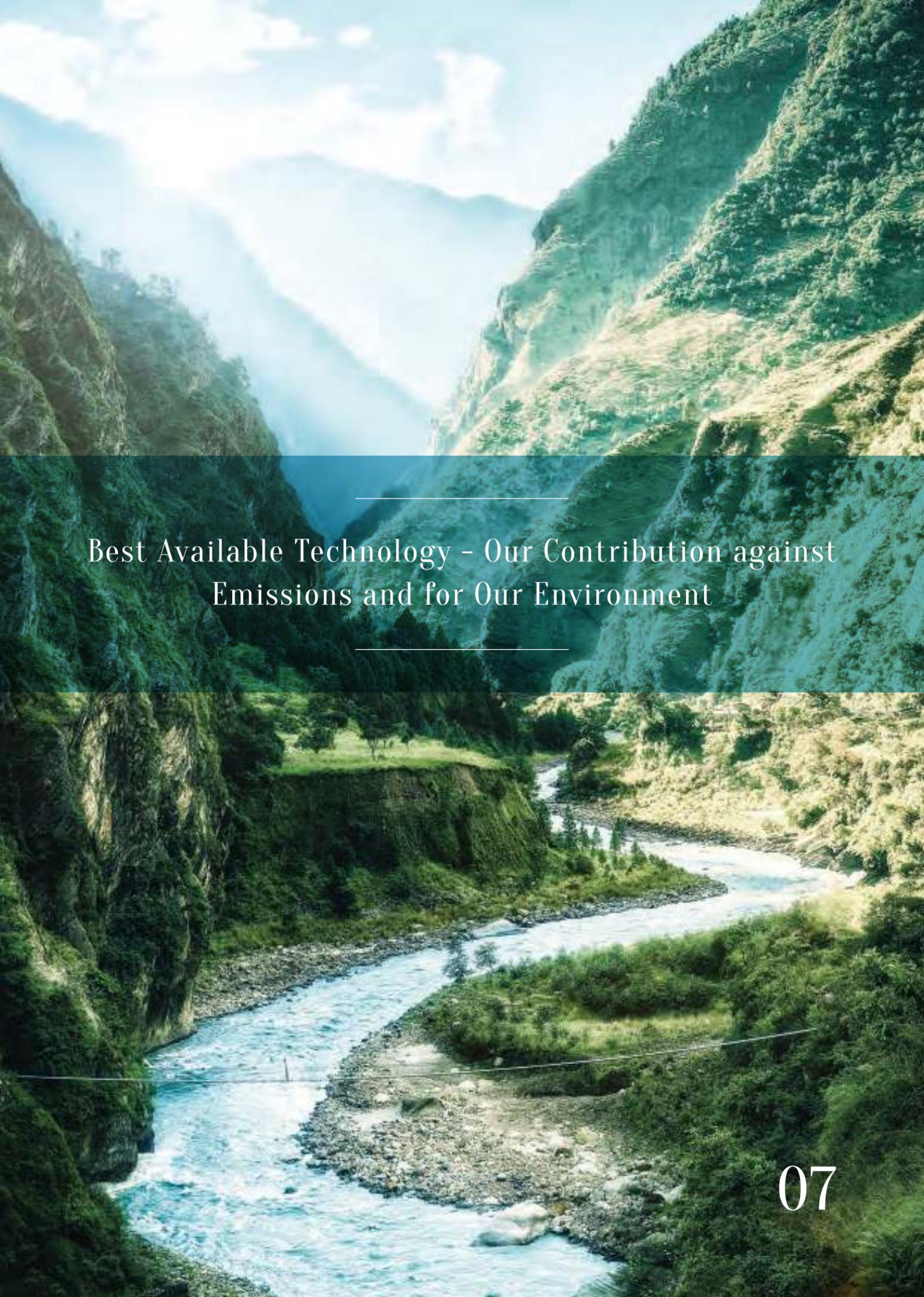
We have gained many years of experience in the design of dust extraction plants and a wide range of reference systems. Beside a large number of different wet precipitator systems also dry dedusting is part of our scope of supply. Wet precipitators, which are free of filter waste, can remove agglomerating, sticky as well as adhesive particles from the (possibly hot) exhaust air.



## Plant Engineering from A to Z

Based on our long-time know-how we plan, project and construct exhaust air cleaning plants in order to have our customers well positioned today and in the future. We offer a comprehensive service package from the selection of appropriate exhaust air cleaning techniques up to plant commissioning. Our portfolio covers the complete spectrum of possible process technologies, from biological and chemical up to thermal exhaust air treatment. Even for the most difficult plant locations we develop the best solution and also support you in all issues of governmental approval – worldwide.





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

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Wessel Heat Recovery –  
High Efficiency, Low Costs,  
Less CO<sub>2</sub>

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## Technologies

### Energy Recovery Systems

Under the aspect of CO<sub>2</sub>-reduction and cost effectiveness we pay special attention to the integration of energy recovery systems in our exhaust air cleaning plants.

Heat contained in the exhaust air is not released into the atmosphere, but used further by means of heat exchange systems, e.g. in the production process for warm water generation or for heating of buildings.



### Your Advantages:

- » Permanent reduction of energy costs
- » Reduction of operational costs, depending on the plant of up to 90 %
- » Rapid return of investment
- » Considerable reduction of environmental impact
- » Energy recovery also possible from polluted exhaust air



# TAKE A BREATH!



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Wessel does not produce breathing air,  
but our plants clean the  
air we breathe.

With 800 active plants  
we achieve clean air  
for approx. 24.000.000 people  
Take a breath – better with us!

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[www.wessel-umwelttechnik.com](http://www.wessel-umwelttechnik.com)

# Tailor-made Solutions from a Single Source



CONSULTATION



PLANNING & ENGINEERING



MANUFACTURING & ASSEMBLY



COMMISSIONING



RESEARCH & DEVELOPMENT



MEASUREMENTS & ANALYSES



Service





## Comprehensive Service for our Customers

For long-term management of high plant availability and maximum operational safety our exhaust air cleaning plants have to be regularly serviced and thoroughly inspected. In order to ensure a long-time and failure-free operation of your plant we offer tailor-made programmes for inspection, maintenance and repairs.

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.

## Pilot Plants and Analyses Guarantee Adequate Plants

### Pilot Plants

In many areas of application trials with semi-industrial pilot plants under real production conditions bring the best design safety. The tailor-made scale-up of the large-scale plant, based on the results of the piloting, guarantees the optimal cost-benefit ratio.

### Measurements and Laboratory Analyses

In order to determine lay-out data, our measuring engineers and technicians execute laboratory analyses and measurements. For this purpose we make a lot of measuring and analyses technology for air and water examination available.

# Wessel-Umwelttechnik - the Specialist for a lot of Industrial Sectors

Constant innovation and individual solutions are our distinguishing features. With more than 50 years of experience in the area of exhaust air cleaning technologies and more than 800 developed plants we possess numerous references in various industries.

## We Supply Exhaust Air Technology for:

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| <ul style="list-style-type: none"><li>» Automotive Industry and Suppliers</li><li>» Coating Industry</li><li>» Chemical Industry</li><li>» Printing Industry</li><li>» Waste Disposal Industry</li><li>» Foundry Industry</li><li>» Rubber-Processing Industry</li><li>» Semiconductor Industry</li></ul> | <ul style="list-style-type: none"><li>» Wood Based Panel and Furniture Industry</li><li>» Plastics Processing Industry</li><li>» Food and Beverage Industry</li><li>» Paper and Pulp Industry</li><li>» Pharmaceutical Industry</li><li>» Friction Lining Industry</li><li>» Textile Industry</li><li>» Varnish and Paint Industry</li></ul> |
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## Our Product Range Comprises the Following Applications:

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| <ul style="list-style-type: none"><li>» Biological Exhaust Air Cleaning</li><li>» Chemical Exhaust Air Cleaning</li><li>» Thermal Exhaust Air Cleaning</li><li>» Dedusting Plants</li></ul> | <ul style="list-style-type: none"><li>» Adsorption Plants</li><li>» Energy Recovery Systems</li><li>» Combined Systems</li><li>» Service, Consultation &amp; Engineering</li></ul> |
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**Wessel-Umwelttechnik** is a member of the Deurotech Group, a partnership of international machinery and plant engineers specialized in the wood-based panel and paper industry. Together with the companies **Vits Technology**, **IFA Technology**, **Airprotech** and **Eisenmann** we offer coordinated process technologies from a single source: impregnation and coating lines, systems for resin production and preparation as well as exhaust air purification and energy recovery.

## Partnership for Efficiency



## Our Partners for Thermal & Catalytic Oxidation as well as Water Purification & Wastewater Treatment

**Airprotech** is specialised in development, manufacturing and supply of turn-key plants for thermal cleaning of polluting emissions, which are based on reliable and modern technologies and on the experiences from different sectors.

Global presence, long-time experience in different areas of application and the high quality of the systems make Airprotech a market leader in cleaning systems for VOC (Volatile Organic Compounds) and VIC (Volatile Inorganic Compounds).

**Eisenmann** has been a reliable and competent partner in the industry for more than 50 years when it comes to the development and design of energy-efficient and resource-saving plants for exhaust air purification, heat recovery and wastewater treatment.

The company also has extensive know-how in complex waste disposal with recycling and is a recognized specialist in the field of ammunition disposal and chemical weapons destruction.

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