



LEADING IN PRODUCTION EFFICIENCY

INDUSTRIAL AIR POLLUTION CONTROL IN COMBINATION WITH POWER GENERATION AND TRANSFORMATION





BRIGHT PROSPECTS FOR A HEALTHY ATMOSPHERE

Dürr is a mechanical and plant engineering group that holds leading position in the world market in numerous areas of operation. The Dürr Group operates in five business divisions in the market.

The Business Division: Clean Technology Systems, is focused on processes to improve energy- and emission destruction efficiency.

Dürr's environmental technologies are the basis for ecological and economic pollution control in a multitude of industrial sectors – and have been for over 40 years.

For years, we have been developing products to optimize your system's energy consumption, while reducing operating costs.

The potential from the use of untapped energy sources is immense. Energy efficiency means making meaningful use of existing waste heat and applying it more effectively. Dürr offers a variety of innovative energy efficiency technologies that seamlessly complement each other. Our products use excess process heat, waste heat, as well as conventional and alternative fuels to transform energy or to convert it into electricity.

Clean Technology Systems – Your advantages

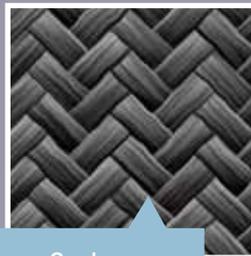
- » Wide Range of Products
- » Worldwide Number One
- » More than 4.000 Plants Installed
- » Industry Specific Consulting
- » Lifetime Service
- » On-site Support and Service Worldwide

... FOR ALL INDUSTRIES

The development of optimal products and solutions results from numerous projects with various producers and industrial sectors:



Automotive



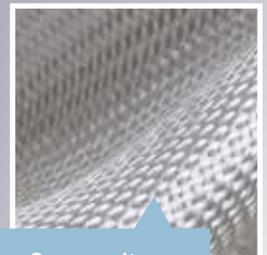
Carbon



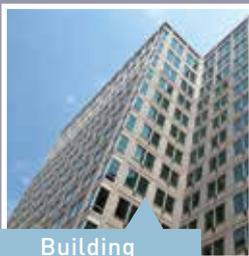
Pharmaceuticals



Semiconductors



Composites



Building Materials



Printing / Coating



Wood



Geothermal



Waste Treatment / Recycling



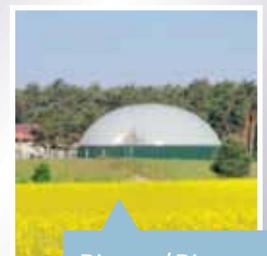
Food Industry



Chemicals



Local Authority



Biogas / Biomass

YOUR PARTNER IN ALL INDUSTRIAL SECTORS

Products

» Energy Efficiency

- » Micro Gas Turbine (Compact Power System)
- » Organic Rankine Cycle (ORC)

» Exhaust Air Purification

- » Thermal Oxidation
- » Catalytic Systems
- » Adsorption
- » Absorption

CATALYTIC SYSTEMS

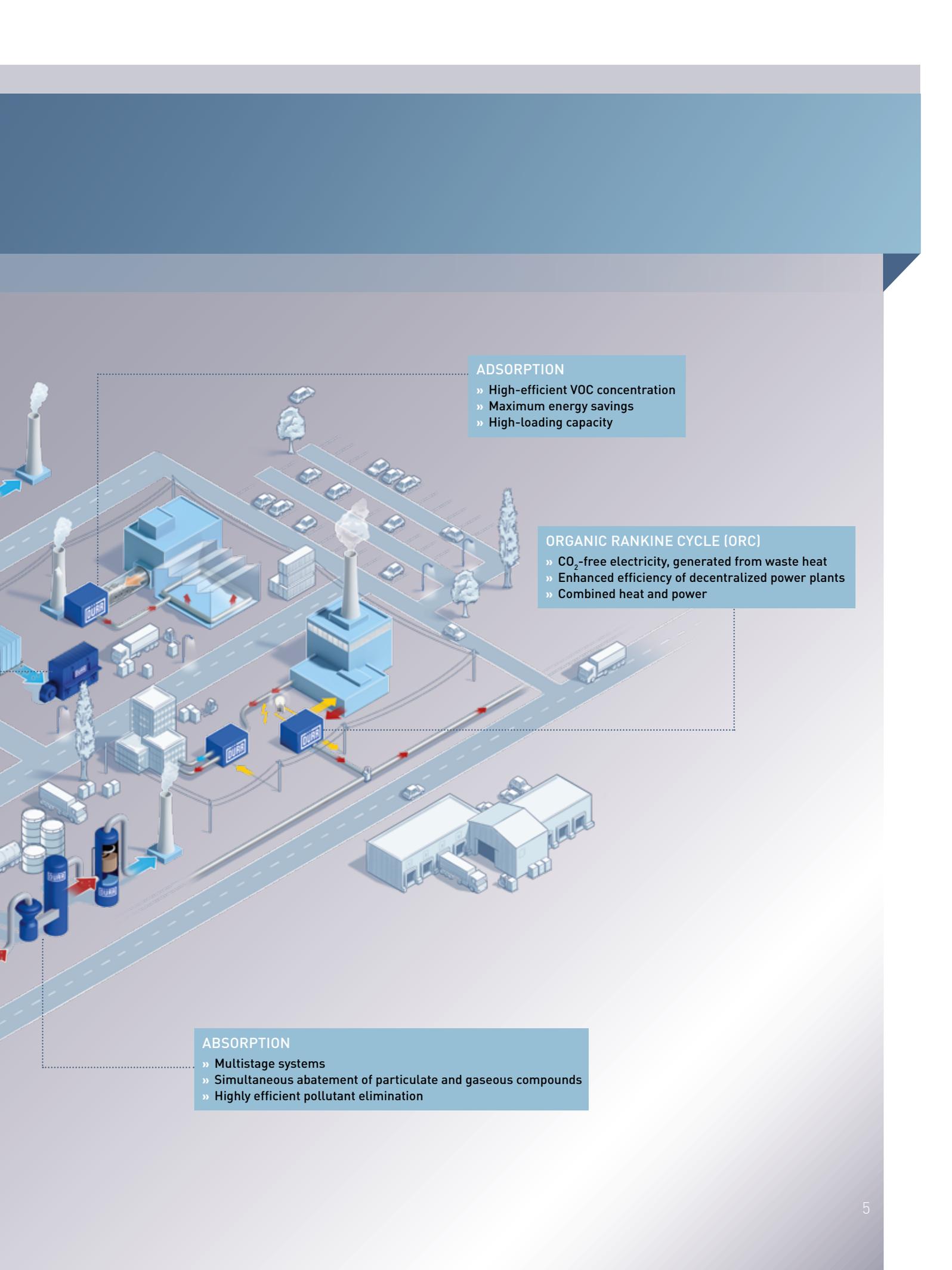
- » High-efficient reduction of nitrogen oxide
- » Low-pressure and high-pressure oxidation
- » Smart process combinations

THERMAL OXIDATION

- » Wide range of applications
- » Low operation costs
- » Individual heat recovery

COMPACT POWER SYSTEM (CPS)

- » Reliable gas turbine technology
- » Generates electrical power
- » Heat supply



ADSORPTION

- » High-efficient VOC concentration
- » Maximum energy savings
- » High-loading capacity

ORGANIC RANKINE CYCLE (ORC)

- » CO₂-free electricity, generated from waste heat
- » Enhanced efficiency of decentralized power plants
- » Combined heat and power

ABSORPTION

- » Multistage systems
- » Simultaneous abatement of particulate and gaseous compounds
- » Highly efficient pollutant elimination

AS SERVICE SPECIALISTS, WE WORK TIRELESSLY FOR YOUR SUCCESS

- » Life-Cycle-Management
- » 24/7 Service
- » Modernization
- » Revamps
- » Worldwide Presence



1 PROCESS AIR

- » Site parameter survey

2 VOC CONCENTRATOR

- » System life expectancy analysis

3 PROCESS CONTROL TECHNOLOGY

- » Controller and parameter optimization
- » Process optimization
- » Reporting of data

4 EXHAUST AIR PURIFICATION SYSTEM

- » Technical revision combustion chamber
- » Evaluation of ceramic heat exchange beds
- » Burner safety inspection according DVGW
- » Burner operation optimization
- » Safety test

5 HEAT RECOVERY

- » Energy consulting

6 SCRUBBER

- » Improvement in efficiency

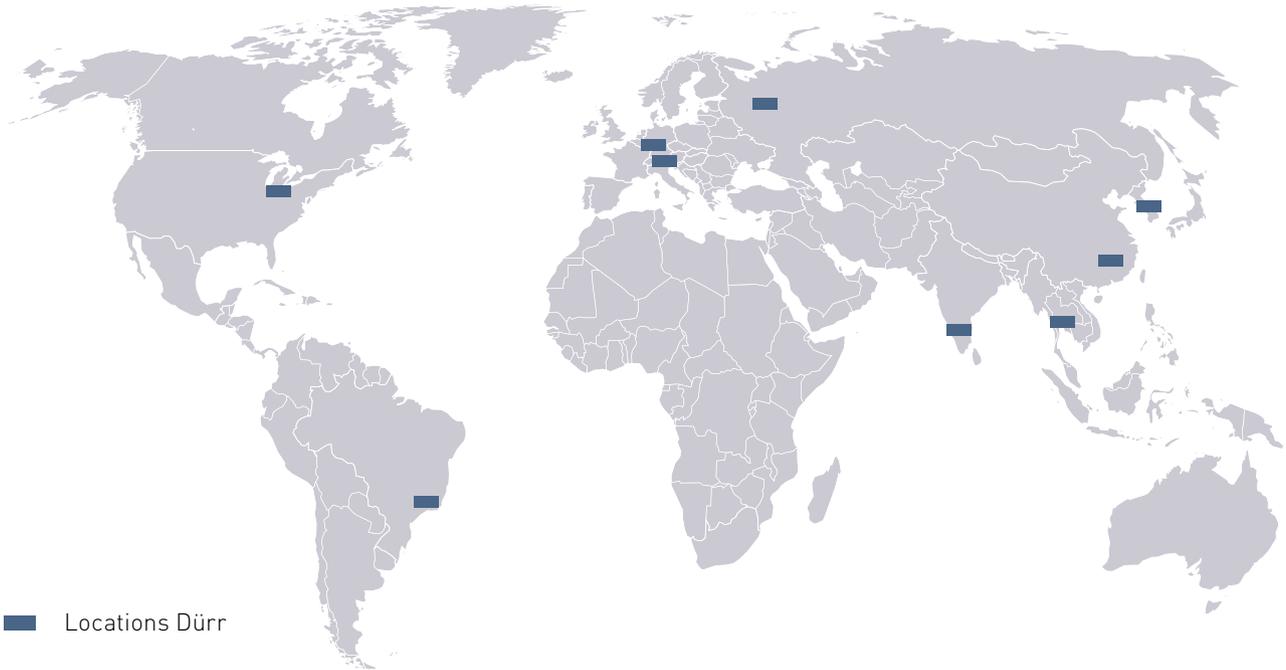
7 FAN

- » Fan run and vibration test

8 PURE GAS

- » Pure gas analysis

WORLDWIDE REFERENCES



■ Locations Dürr

Our locations at a glance

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LEADING IN PRODUCTION EFFICIENCY

Dürr – Leading in Production Efficiency

Five divisions, one goal: maximum production efficiency for our customers

- » **Paint and Final Assembly Systems:** paint shops and final assembly systems for the automotive industry
- » **Application Technology:** robot technologies for the automatic application of paint as well as sealants and adhesives
- » **Clean Technology Systems:** exhaust-air purification systems and energy-efficiency technology
- » **Measuring and Process Systems:** balancing systems as well as assembly, testing and filling technology
- » **Woodworking Machinery and Systems:** machinery and systems for the woodworking industry



Subject to change. The information in this brochure contains only general descriptions or performance characteristics which may vary in actual cases. The requested performance parameters shall be binding only if they are explicitly agreed within the sales contract. © Dürr 2018