

Aerzener Maschinenfabrik GmbH



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Company Description:

AERZEN is one of the world's three leading application specialists in the conveyance and compression of gases with energy-efficient and resource-saving products and production processes.

Founded in 1864 and headquartered in Aerzen, the company now has over 50 subsidiaries worldwide.

As the market leader in the field of water treatment and desalination plants, AERZEN has developed forward-looking concepts that support plant manufacturers, engineers and operators of wastewater treatment plants in topics such as technology selection, efficiency improvement, process reliability, data analysis, digitalization, resource conservation, productivity increase and much more.

Products / Service performance:

- Efficient technology mix of screw blower (hybrid), rotary lobe blower and turbo blower for individual load profiles incl. ventilation technology
- AERsmart: Combined control for the distribution of air volumes among the technologies for efficiency values close to the theoretical optimum
- Machine room optimisation: Support in the planning and implementation of room ventilation and sound concepts
- Heat recovery: concepts and technologies for the reuse of thermal energy
- AERprogress: digital services such as energy efficiency optimisation, process monitoring and predictive maintenance
- Service: Individual service offers with excellent logistics and reliable spare parts supply
- Rental machines: International rental service with a large pool of immediately available rental machines of various performance levels, including ventilation systems and transformers.



Reference projects / Partner:

- 1. WWTP Engadine - Switzerland
 - Energy savings of up to 20% - hybrid technology
 - Digital twin; 100% energy self-sufficiency
- 2. WWTP Liebenwalde - Germany
 - Energy savings of up to 62% - Hybrid technology
 - 100 kWp ground-mounted photovoltaic system, sewage sludge humification plant
- 3. WWTP Bangu - Brazil
 - Energy savings of up to 30% - hybrid technology
 - Up to 50 to 70 smaller footprint
- 4. WWTP Oschersleben – Germany
 - Energy savings of up to 30% - Turbo technology and AERsmart
 - Space-saving design in a 20-foot container

Advantages at a glance:

- High energy efficiency and savings potential
- Short payback period
- Good funding opportunities
- Low TCO
- Small footprint
- Low maintenance costs
- No absorbent material
- 100% oil-free ISO
- Low noise levels
- International group of companies with more than 50 subsidiaries
- Worldwide on-site service and service



Wanted business and project partners:

- End customers in wastewater and water treatment:
 - Municipal WWT plants, industrial WWT plants,
 - port operators with storage of bulk materials in silos, food industry,
 - cement industry, chemical industry, industrial plants, breweries
- Plant manufacturers, engineering offices, international operators
- Political representatives
- Experts for funding (banks, consulting, etc.)