

Rudolf Messner Umwelttechnik AG

No Water, no Production! Expert Round Table on Water Management in Industry, 27.11.2024





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LinkedIn





RMU - Company Structure

RMU is specialized in the biological processes and aeration technology for municipal and industrial wastewater treatment plants. Present at the market since 1978 and with installations worldwide.

Distribution / Licensing Partner:

- Belgium
- Switzerland
- Denmark
- Australia, New Zealand
- Egypt, Tunisia, Israel
- South Korea, Taiwan

MESSNER Aeration Systems b.v.

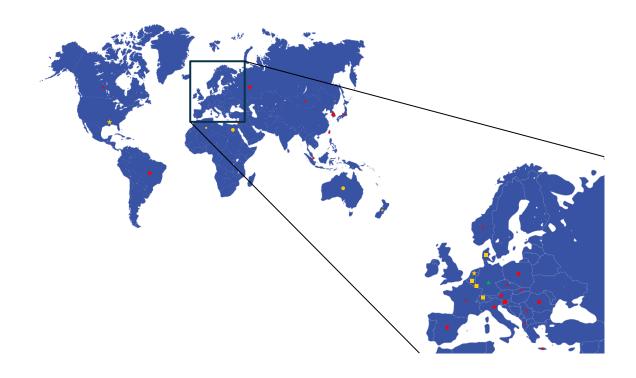
Netherlands

RMU Inc.

- United States
- Canada

Delivery Business in various countries

- Austria, Italy, Spain, ...
- Singapore, ...





RMU - Product Portfolio

MESSNER® Aeration Panel

- Two Sizes: Classic, Compact
- Membrane Types for Different Applications

MESSNER® Control

- Interactive Control System
- Based on PLC Modules

MESSNER® LiftOut

Portable Lifting Frame

MESSNER® ReNew

Exchanged and Refurbishment

MESSNER® DosingUnit

Acid Dosing System for Maintenance



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MESSNER® Aeration Panel

Base plate:

completely made of acid-proof stainless steel (AISI 316)

-> unlimited lifetime

Membrane:

long-term stable, permanently elastic membrane made of TPU without plasticizers or other additives

-> expected lifetime up to 20 years

Perforation:

unique RMU perforation process to achieve an optimum bubble size of 2 - 3 mm

-> highest oxygen transfer efficiency

Assembly :

Fixed installation on the bottom of the basin, thus maximum injection depth and optimum oxygen utilization without sedimentation of activated sludge



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Reference plant: WWTP Aachen Soers

Location: Aachen, Germany

(municipal + partially industrial)

• Load: 3.000 l/s

458.300 PE

Capacity: 6 Lines,

74.110 m³ aeration volume

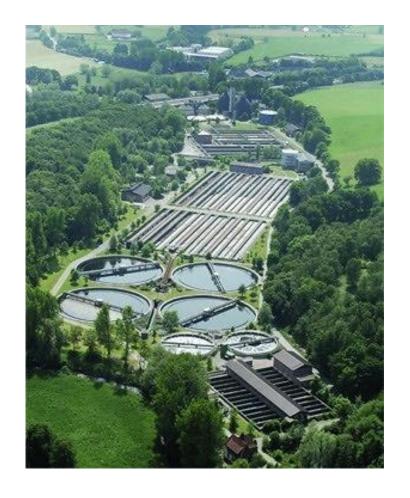
Aeration: 984 MAP Classic

17 Aerzen Delta Hybrid

Result: Energy savings of more than 50% in the

biological tank

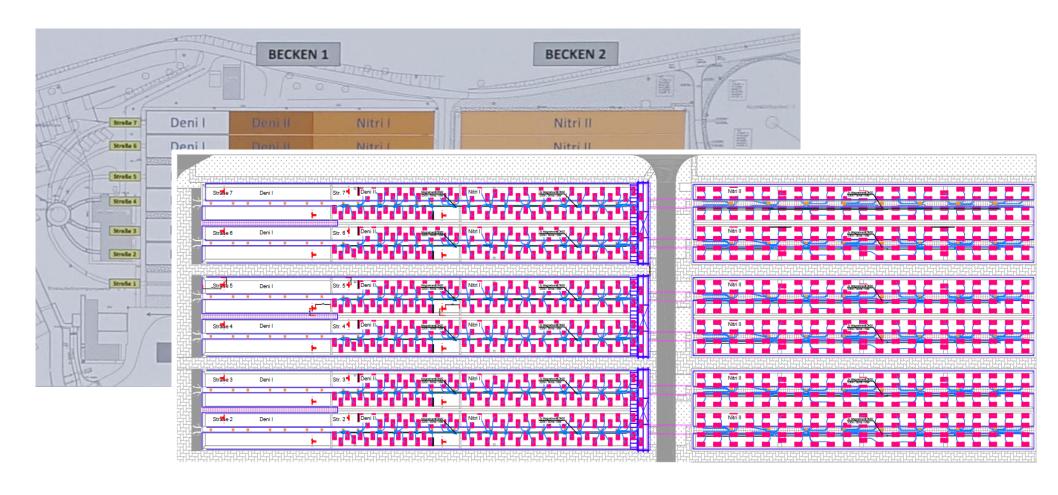
(includes blowers and flow boosters)







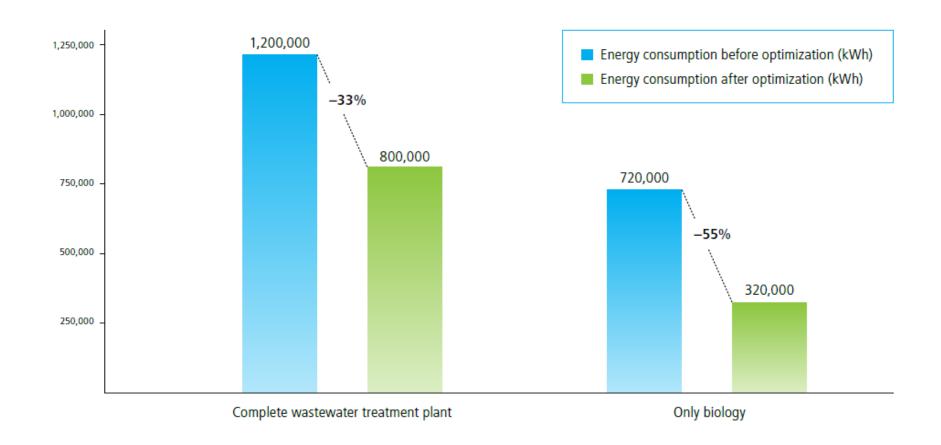














Advantages of the MESSNER® Aeration Panel

- Highest oxygen input and efficiency
- lowest power and CO₂ consumption
- TPU special membrane and perforation
- 316 stainless steel base material
- Service life expectancy approx. 20 years
- High operational reliability and stability
- Refurbishment possibilities after lifetime
- Very low maintenance (automated)
- Various applications (municipal and industrial)
- More than 40 years on the market with installations worldwide

