


Leaders in Zero Liquid Discharge



 German Engineering



**H2O. Effective and Reliable Process Solutions.  
For a future free of wastewater.**



“Our mission is the sustainable processing of industrial wastewater for a wastewater free future. Our state of the art technology and excellent VACUDEST® vacuum distillation systems guarantee a reliable investment and long term viability for our customers.” Matthias Fickenscher, Managing Partner of H2O GmbH.

## Sustainable processing of industrial wastewater. A reliable investment for a better future.

Water is one of the most valuable resources. To protect it and to feasibly recycle it is what drives us. Therefore we develop sustainable solutions for the processing of your wastewater in industrial enterprises.

The worldwide fresh water resources are becoming increasingly scarce, yet pollution in open waters continues to advance. In many industrial sectors wastewater is produced, creating a critical problem for our environment. Since our foundation in 1999 we are driven by our vision of a future free of wastewater. Using our state-of-the-art technology we want to lastingly contribute to a zero liquid discharge industrial production, in order to enable future generations to live in a clean and healthy environment.

Today H2O, an owner managed company, belongs to the most experienced experts worldwide for the sustainable processing of industrial wastewater. As pioneers in the industrial application of vacuum distillation we succeeded in making this wastewater reusable. The brand VACUDEST® offers efficient, environmentally friendly and fresh-water-saving vacuum distillation systems, allowing zero liquid discharge industrial production. A reliable investment in a future free of wastewater.

### **A reliable investment in a better future:**

- Zero liquid discharge production
- Energy saving
- Cost reducing



We manufacture our VACUDEST® vacuum distillation systems following highest quality standards at our headquarters based in Steinen in the southern part of the Black Forest. "German Engineering" stands for highest quality and reliable solutions, providing systems you can rely on any time.



In a first step we analyze your industrial wastewater. Based on the results we develop the best solution for your individual requirements.



An interdisciplinary expert team continuously works to develop innovative solutions for a zero liquid discharge industrial production.

## System solutions for zero liquid discharge. State of the art technology from the pioneer.

- Thinking beyond:**
- Higher performance
  - Higher reliability
  - Higher efficiency

Innovative capacity and pioneering spirit are firmly anchored in our philosophy. Evidence of this is our progressive application center for zero liquid discharge production. An interdisciplinary expert team continuously works on developing future oriented solutions to improve quality of purified industrial wastewater and to recover valuable materials from the evaporation residue. Our innovation planning is strictly based on our vision of a future free of wastewater.

Thanks to our innovation oriented philosophy we were able to introduce several technologies in recent years, setting benchmarks in the market. Testimony to our consequences in that are more than a dozen property rights owned by us. Awards like the “International Best Factory Award” or the nomination for the environmental award of Baden-Württemberg as well as more than 1,350 effectively working VACUDEST® systems worldwide are proof for our resolute commitment to build the best, most economical and most ecological vacuum distillation systems on the globe.



Our VACUDEST® modular system is based on more than 3.5 million standardized functional groups and technological applications. This allows us to create a system fulfilling your individual requirements.

#### **Flexible and customized system solutions**

Due to our cost reducing variant management, our system solutions are strictly oriented to our customers' requirements. Based on standardized functional groups and technological applications, our VACUDEST® modular system allows us to flexibly create a system fulfilling your individual requirements. Using 3.5 million variants we can engineer your VACUDEST® vacuum distillation system, quickly, reliably and effectively.

#### **Integrated single source solutions**

Our services include the complete value chain: From wastewater analysis in our application center for zero liquid discharge production, to process development up to turnkey supply and startup of your VACUDEST® vacuum distillation system on site.

#### **Service solutions close to our customers**

Our aim is to comprehensively relieve you of burdens. Based on our Europe-wide service network, we provide reliable full service in your vicinity, starting with the project planning and pilot trials up to installation and practical training. Regular scheduled maintenance, modern e-service for quick support, and worldwide spare parts logistics including long-lasting supply guarantee complete our highly efficient service for you.

#### **Value added system solutions**

Our individual system engineering and our integrated services leads to solutions with added value: Higher cost efficiency, higher process reliability, higher sustainability and more time to concentrate on your core business.

## Energy and cost saving. Based on effective processes and systems.

### All-round efficiency:

- Energy saving
- Optimize processes
- Cut production cost

In the processing of industrial wastewater efficiency takes priority. After all we not only want the environment to profit from our efficient processes and systems, but ultimately your company.

Saving energy is one of the most important tasks to get control of environmental problems. It helps you to cut cost and reduce carbon footprint. That's why we have been consistently relying on direct vapor recompression for more than 30 years.

Thereby our VACUDEST® vacuum distillation systems reduce energy consumption by 95 % compared to atmospheric vaporization.

The individual components of our VACUDEST® vacuum distillation systems are perfect coordinated. Not the sum of individual components but their perfect interaction results in extraordinary low energy consumption. Therefore larger systems can save several million Euros within ten years.





An efficient control system is a precondition for optimal system availability. Our convenient Vacutouch machine control system allows easy and reliable 24 hour control and supervision of our VACUDEST® vacuum distillation systems.

**Excellent systems. High efficiency.**

Our VACUDEST® vacuum distillation systems not only deliver energy efficiency, but also high system efficiency. This results in low amounts of evaporation residues because of the self-cleaning heat exchanger and low maintenance cost due to the service-friendly construction. This reduces cost and improves system availability.

**Intelligent processes. High level of comfort.**

VACUDEST® vacuum distillation systems allow fully automatic 24 h system operation controlled by the state of the art Vacutouch machine control system. It also allows reliable remote access and supervision of the complete system using your company network or the internet. Updates and data download is easily possible via modem or company network.

Our modular VACUDEST® vacuum distillation systems are available for capacities from 0,05 to 7,9 million gallons per year. They stand for efficient processes in the sustainable processing of heavily polluted and oily industrial wastewater.



## Rely on “German Engineering”. Create true benefits through highest quality.

### Play it safe:

- Top quality
- Process reliability
- Service guarantee
- Safe investment

The production process of our VACUDEST® vacuum distillation systems is focused on highest quality. This will make sure that you can trust in the reliability of our systems. The driving force for our excellence is our well educated and highly motivated staff. Based on a high degree of engineering competence, we manufacture our systems exclusively in our headquarters located in Steinen in the southwest corner of Germany. Top quality based on “German Engineering” provides confidence that our systems enable a viable, effective and ecological zero liquid discharge production.

We continuously improve our high quality vacuum distillation systems. We have made it our obligation to create genuine benefits through innovation: Self-cleaning heat exchangers, low maintenance systems and a reliable machine control system guarantee reliable processes. As a result, you receive a crystal clear distillate which meets the highest standards.

The top quality, efficient and environment friendly VACUDEST® vacuum distillation systems are the right choice, anywhere and anytime.



Our e-service allows real time troubleshooting, updates and process optimization through the internet.



Our mobile service team maintains and repairs your VACUDEST®, on site, fast and flexible. This allows your system to work reliably round the clock.





The driving force for our excellence is our well educated and highly motivated staff. Based on our principle "Encourage, challenge and grow together", our employees are fully and actively integrated in the continuous optimization of our operational structures and procedures.

We place very high value in trust and partnership. Thus we created a service network close to our customers, which is developed further and internationalized steadily. Our service team works continuously to offer you excellent service around on the globe. We support you entirely through the engineering and implementation of you project. We train your operators and maintenance staff already during installation and startup of the systems. In addition we offer advanced training in our headquarter or your premises.

And thereafter we do not leave you on your own. The product file of your VACUDEST® vacuum distillation system combined with our well organized spare parts stock allows us to deliver the spare parts quickly and matching exactly to your unit. Our unique exchange service guarantees reliable system availability. This is also ensured by our mobile service engineers. In addition we offer real-time e-service for efficient trouble shooting, program updates or process optimizations.

## Invest in added value and environmental protection. Based on economical and sustainable solutions.

### A profitable investment that pays for itself:

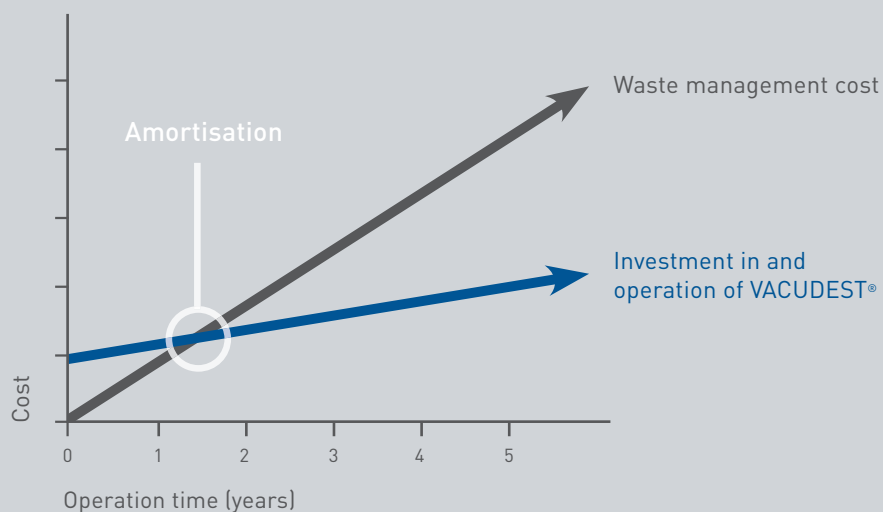
- Reduce operation cost
- Cost efficient waste management
- Secure profitability

For the reliable and effective treatment of industrial wastewater a profitable and sustainable process is required. Using our innovative VACUDEST® vacuum distillation systems, you can reduce your waste management cost up to 95 %. Due to low running cost and minimal operating efforts, considerable savings are possible. Also compared to other treatment methods evaporation with VACUDEST® vacuum distillation systems offer the lowest operation cost.

Our VACUDEST® vacuum distillation systems are an economic alternative to any other treatment method and disposal of industrial wastewater with specialized waste management companies. They are proven in many different industrial sectors and applications, and they contribute to the protection of our valuable fresh water resources. Lowest operation cost, high energy efficiency and reliable system availability ensure a fast return on investment.

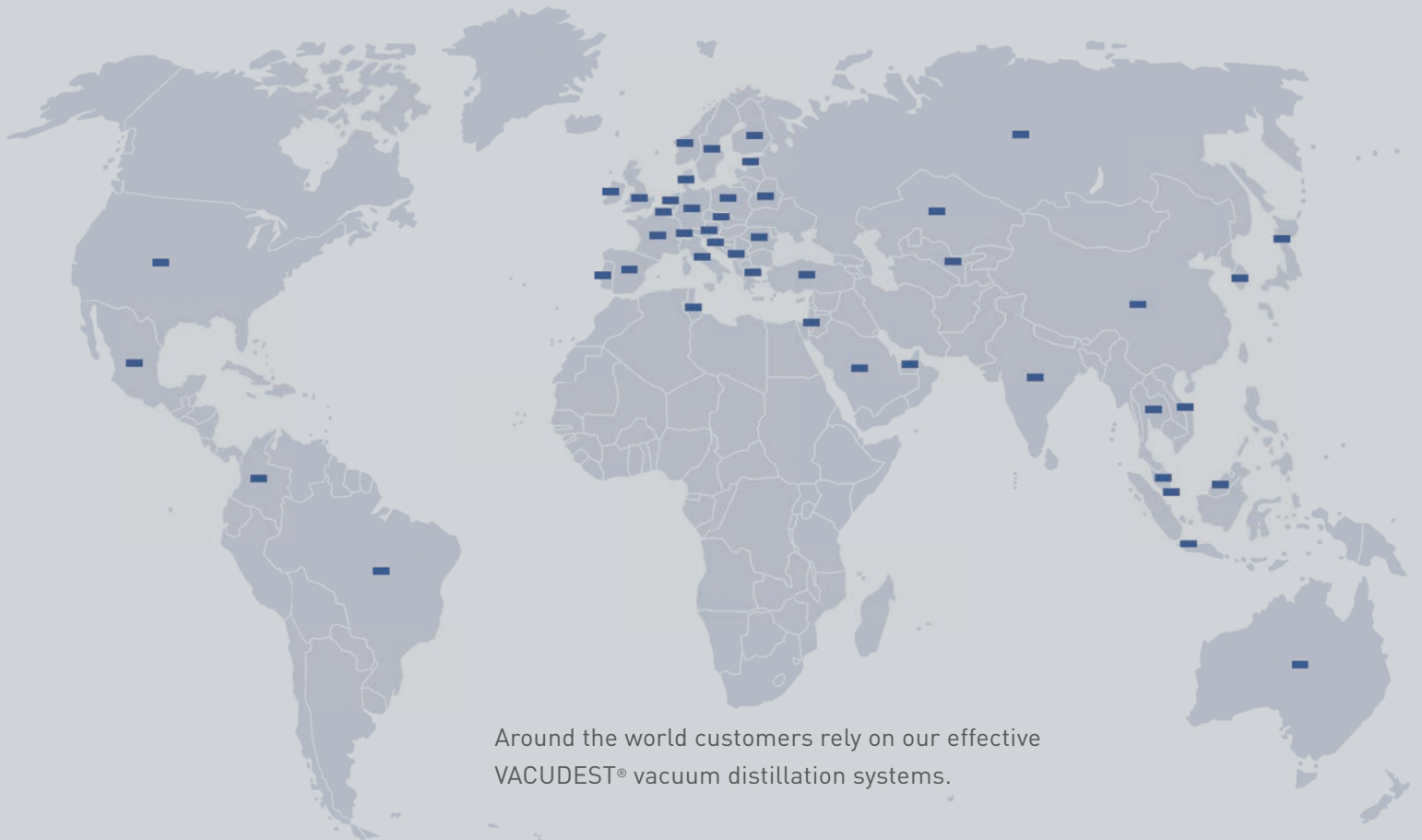
### Your investment in a future free of wastewater pays for itself within a short time:

Invest in the future of your company and our environment: Trust in a VACUDEST® vacuum distillation system. Big savings in energy consumption, operation cost and especially waste management cost ensure a fast return on investment. In the long run your company will profit from a high economic return and our environment from a zero liquid discharge production.





More than 1,350 VACUDEST® vacuum distillation systems worldwide, international subsidiaries, a high level of regular customers and exceptional growth are convincing reasons to talk to us. We are looking forward to being contacted by you under +49 7627 9239-0 or [info@h2o-de.com](mailto:info@h2o-de.com).



Around the world customers rely on our effective VACUDEST® vacuum distillation systems.

