



AQUA
CONSULT

manufacturer of AEROSTRIP®



introducing
ourselves

Company Profile

AQUACONSULT – Manufacturer of the AEROSTRIP® fine bubble diffuser

“Protecting and conserving our environment through efficient aeration technology”



Managing Director
Norbert MIGSICH

LIVE THE VISION – ON THE WAY TO CLIMATE-FRIENDLY WATER MANAGEMENT

During the last decades we all have become accustomed to an unlimited supply of raw materials and energy. A majority of economic decisions are based on low capital expenditures – without regard to the dwindling resources or the environment.

We must act now, in order to deliver a valuable heritage to the future generations.

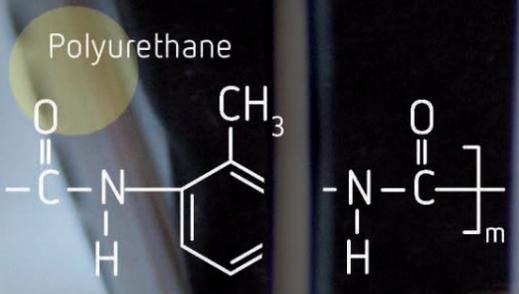
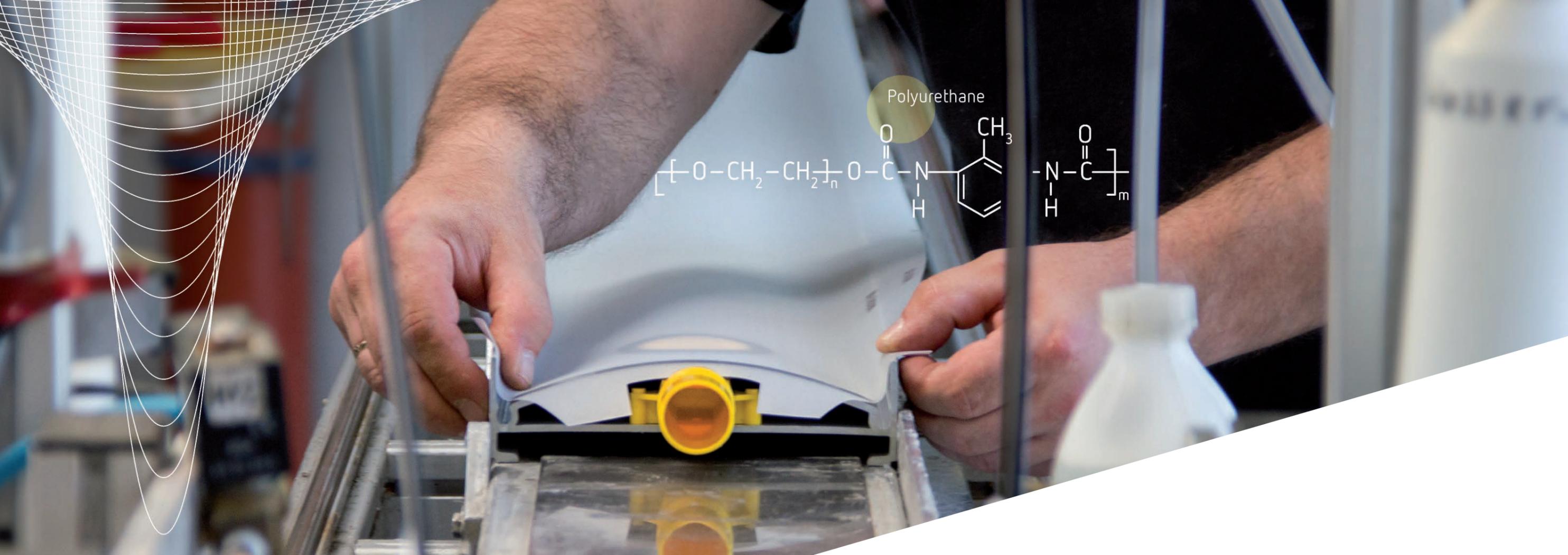
AQUACONSULT is a company with many visions: we are developing and manufacturing high quality products, which represent a real alternative to current low-cost investment strategy for our customers and partners.

Through the use of our efficient products, we are also guaranteeing low energy consumption over a period of many years. We are already making a significant global contribution by lowering CO₂ emissions and the associated carbon footprint.

A sustainable solution takes into account the sum of all expenditures over the lifetime of the plant. Consideration of the lifespan, maintenance costs, energy consumption and recyclability of products should be a must today. The initial capital expenditure is usually only a small part of the life-cycle or total cost of ownership.

We are focusing our resources on providing highly efficient products in core areas of sewage and waste water technology. We are constantly working to improve these products and processes and to ensure a consistent high quality standard. We have long term cooperations with our global partners, working towards reciprocal benefits and with mutual trust. The staff and partners of AQUACONSULT are determined to enthusiastically continue their professional approach in satisfying customers on every continent with new solutions that combine ecological and economic goals. We will continue growing together on the global market.

Thank you for the confidence placed in us.



Made in Austria

Proudly Made in Austria – guaranteeing the best possible performance and quality, while combining daring creativity with respect for all the laws of physics and chemistry.

QUALITY MADE IN AUSTRIA.

AQUACONSULT is a name associated with the most efficient aeration technology in wastewater treatment worldwide.

The success story began in 1986 with the exhaustive research work of the newly formed AQUACONSULT Anlagenbau GmbH. The development of a diffuser featuring a perforated elastic-membrane made of 100% polyurethane was our revolution in the industry at that time.

This pioneering activity eventually launched the advanced strip-shaped diffuser – AEROSTRIP® – in 1995, a milestone in aeration technology.

The Austrian manufacturing facility lies south of Vienna, in the city of Traiskirchen, and serves as Headquarters for AQUACONSULT.

High quality manufacturing is assured through a strong and highly-experienced team, as well as a quality control program unmatched in the industry.

Rigorous testing is performed on each AeroStrip diffuser in our factory, to ensure the highest possible performance.

AQUACONSULT is a subsidiary of SANKI Engineering Ltd which is based in Tokyo, Japan.

Each AEROSTRIP® diffuser manufactured by AQUACONSULT must pass a complex quality inspection process, and each diffuser receives its own unique serial number. This guarantees the highest confidence and traceability of individual diffuser properties for the end-user.

The engineers at AQUACONSULT are able to test oxygen transfer rates for different designs and configurations in their own test-facility (equipped with a 4.5 m x 6.5 m tank, blowers and a laboratory for chemical analysis and data interpretation). This allows the end user to receive certified oxygen transfer efficiency guarantees for specific designs that are the best in the industry.

BEST EFFICIENCY THROUGH EXTENDED RESEARCH AND CONSTANT DEVELOPMENT.

Energy efficiency and longevity of aeration technologies are two of the most important challenges in wastewater treatment today. While many aeration systems are available, they vary widely in their power usage and lifespan when operating in wastewater treatment plants.

It is generally accepted that the most efficient aeration systems are those employing fine bubbles: small and slowly ascending air bubbles offer the highest interfacial surface for oxygen transfer and offer an enormous energy-saving potential.

The secret lies in the membrane properties, perforation technology, and the design of the overall aeration system.

Intensive research activities in the areas of bubble size, oxygen-transfer rates, and oxygen-transfer efficiency are a daily routine at AQUACONSULT.

The R&D Engineers are constantly improving perforation technique and are developing proprietary high productivity machines and testing facilities. Materials testing, spectrometry, and resistance to aggressive conditions are just a few key aspects of our internal research activities.

Analysis on the influence of different substances contained in wastewater, on the pressure drop and bubble pattern, are part of this same intensive research.

LONG LASTING ENGINEERING

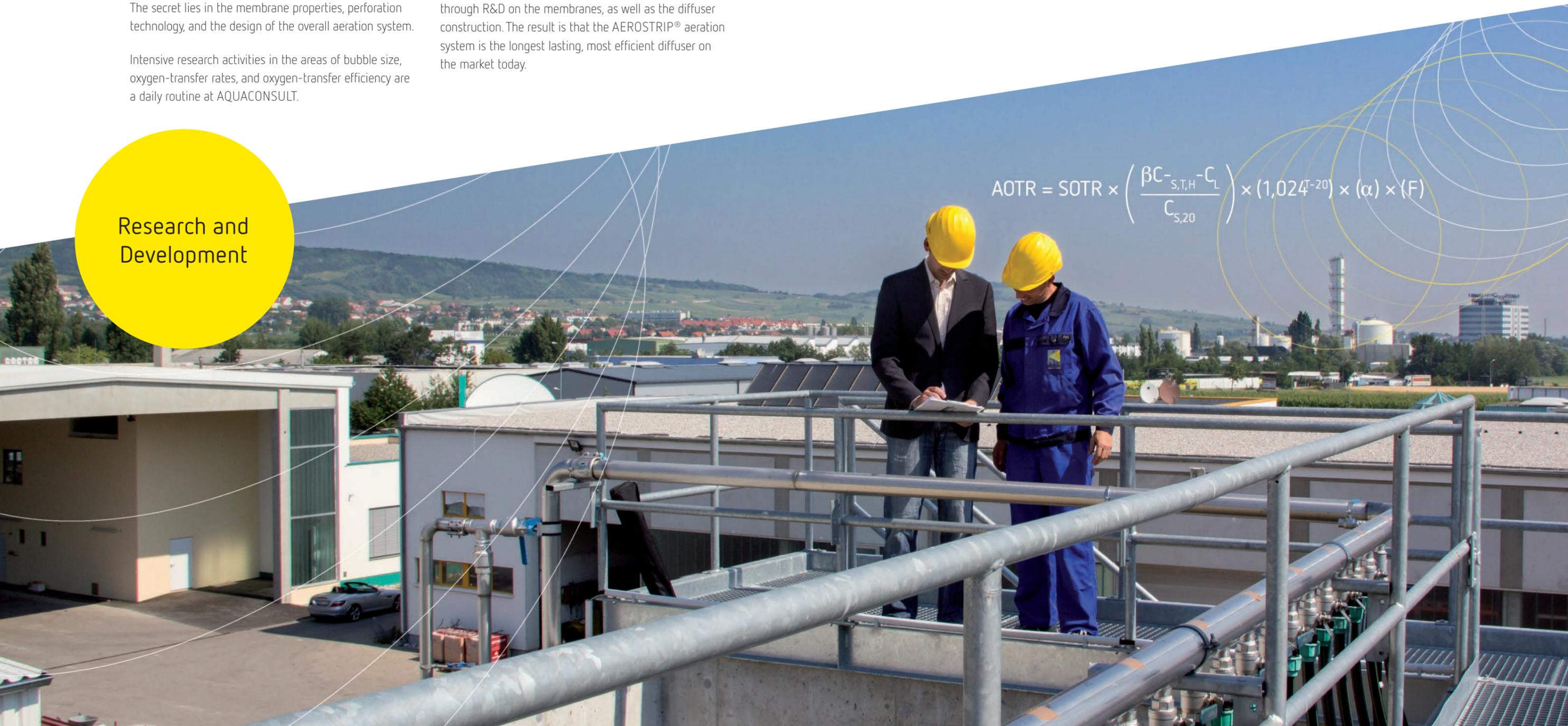
AQUACONSULT offers the end user a scientific advantage through R&D on the membranes, as well as the diffuser construction. The result is that the AEROSTRIP® aeration system is the longest lasting, most efficient diffuser on the market today.

Research and Development

– MICHAEL K. STENSTROM, PH.D., P.E.
Distinguished Professor in the Civil and Environmental Engineering Department of UCLA
(University of California, Los Angeles, USA)

“For conventional short sludge retention time treatment plants (SRT 1 to 6 days), this [12-year old AEROSTRIP®] system performed better than all previously tested fine pore diffuser systems installed; and even better than most news ones.”

$$AOTR = SOTR \times \left(\frac{\beta C_{s,T,H} - C_L}{C_{s,20}} \right) \times (1,024^{T-20}) \times (\alpha) \times (F)$$



ACCURACY, QUALITY AND LONGEVITY.

Accuracy and quality are core values in the house of AQUACONSULT. This not only applies to our high performing membranes, but also to the final AEROSTRIP® diffusers which must pass intensive tests prior to shipment. This includes the final pattern and functionality test for every single diffuser in clean water.

At AQUACONSULT, developing, manufacturing and sales are DIN EN ISO 9001:2008 certified. In addition, the products of AQUACONSULT are certified by the GWT - Gütegemeinschaft Wassertechnik für Österreich (an Austrian association) founded in 1976 with the aim to promote high quality products in the field of water treatment.

THE GUIDING LINE OF AQUACONSULT:

"The art is not in how to build one diffuser perfectly; the secret lies in how to make thousands of diffusers with the same extraordinary properties that provide years of long-term performance."

By employing micrometric precision of the highest accuracy, providing exceptional quality, and delivering the longest proven lifespan, AQUACONSULT has become one of the major innovation leaders in the aeration industry over the last three decades.

„Wir haben uns wegen der überdurchschnittlich hohen Effizienz und Lebensdauer sowie des geringen Wartungsaufwands für dieses Belüftungssystem entschieden.“

"We have selected this aeration system due its above-average high efficiency and long lifespan, as well as its low maintenance."

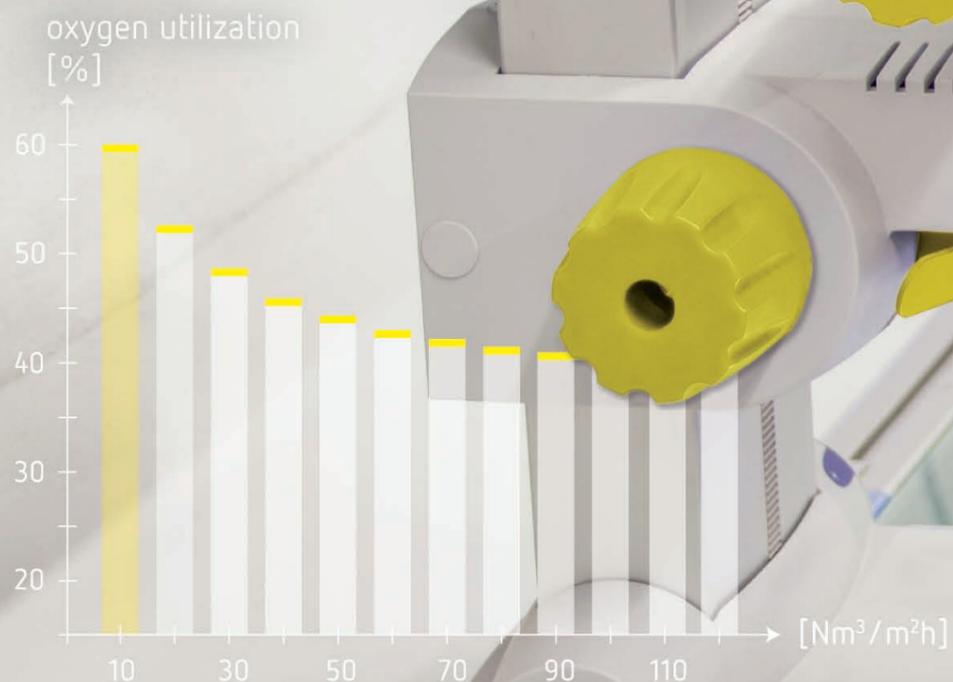
– FRIEDRICH MENACHER

head of department of wastewater treatment branch of Landau-Mörlheim, Germany

EFFICIENCY

The longevity of AEROSTRIP® is internally tested under the most severe imaginable conditions. Recent studies are documenting how the products of AQUACONSULT behave better on site, and prove higher efficiency compared with new diffusers employing EPDM membranes.

Quality and Longevity





more than **30** distribution partners
in over **50** countries

Internationality

INTERNATIONAL SALES NETWORK

You may find the detailed list of distribution agents on our website.

About company: www.aquaconsult.at
About AEROSTRIP®: www.aerostrip.at

BEST NETWORK, WORLDWIDE.

AEROSTRIP® fine-bubble diffusers made by AQUACONSULT are successfully used worldwide in more than one thousand industrial and municipal reference plants.

In Europe, the distribution agents are spread in most of the countries. Additional distribution partners have been appointed in North America, Africa, Asia and Australia.

The agents of AQUACONSULT are fully trained and employ complete engineering know-how, on top of their own previous experience in the field of wastewater treatment.

With the constant development of the sales network, in addition to the advantage created by the superior efficiency of our state-of-the-art diffusers, we are providing the best aeration systems in the world today.



VISIT US AT
www.aquaconsult.at

Contact.

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