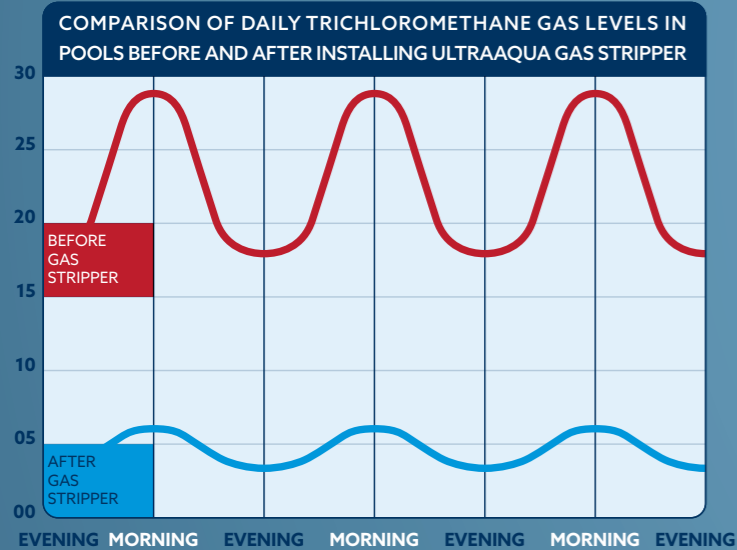
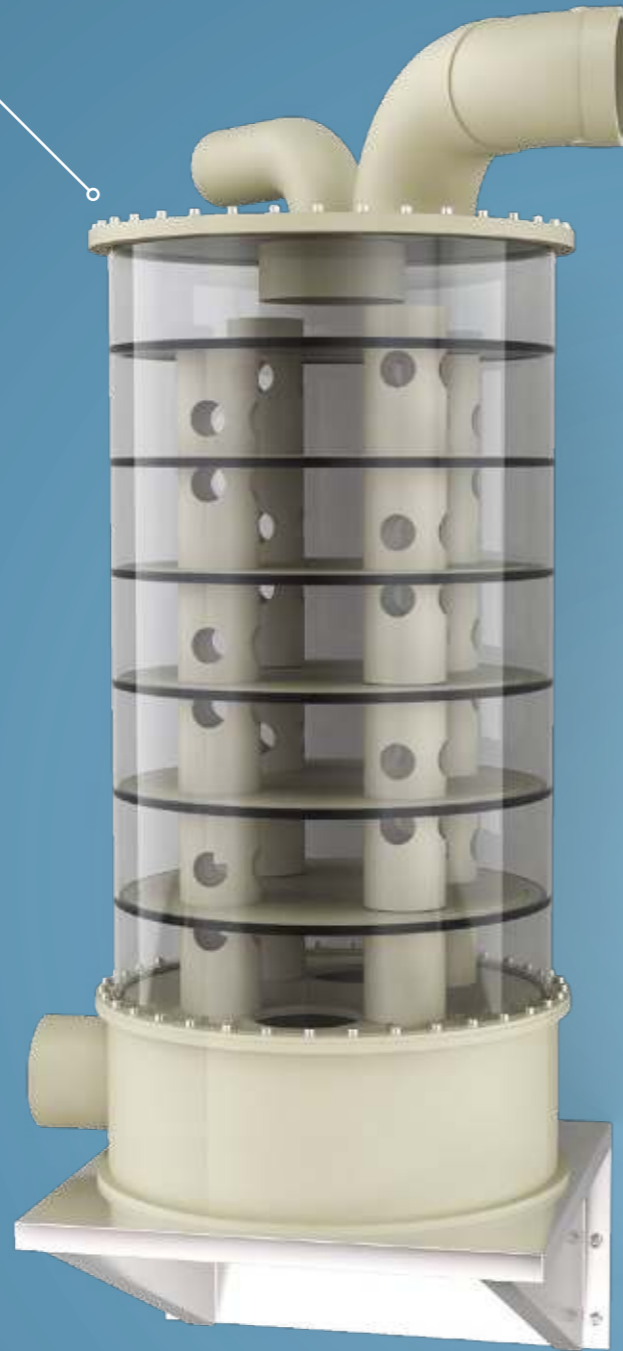


REDUCING GASEOUS CHLORAMINES AND TRIHALOMETHANES

ALSO AVAILABLE IN GRAVITATIONAL VERSION FOR EASY MOUNTING AND IMPLEMENTATION IN TECHNICAL ROOMS ALLOWING GRAVITY RETURN

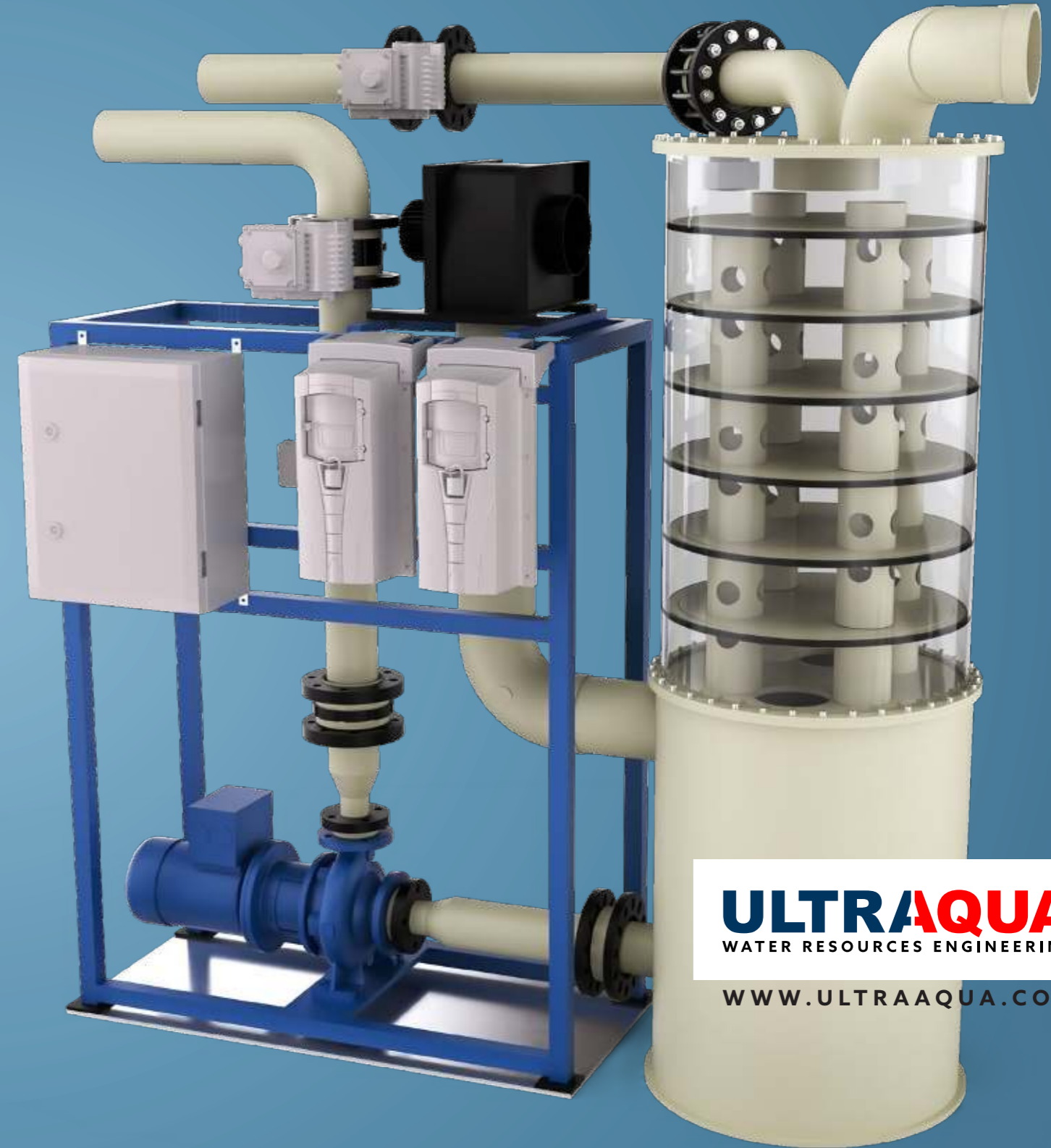
OPTIMAL CONTROL OF THMS AND GASEOUS CHLORAMINES IN POOLS

The variation of Gaseous THMs and chloramines over one day typically follows a pattern where the concentration drops from opening time to closing time of the pool due to venting caused by bathing activity. It rises again during the night to a maximum concentration just before opening. Based on bather load, system data and installed water treatment technology the ULTRAAQUA science department can predict the concentration dynamics of DOC and THM in each pool



GAS STRIPPER

FOR VOLATILE DISENFECTION BYPRODUCT REDUCTION



ULTRAAQUA
WATER RESOURCES ENGINEERING

WWW.ULTRAAQUA.COM

GENERAL SPECIFICATIONS

MODEL	TYPE	HP	FLOW	AIR OUT	WATER IN	WATER OUT	WITH	LENGTH	HEIGHT	WEIGHT
UAQ1	GAS Stripper Gravitation*1	1,5 kW	10-30 m³/h	Ø160	Ø160	Ø160	800 mm	1000 mm	2300 mm	100 kg
UAQ2	GAS Stripper Pressure*2	1,5 kW	10-30 m³/h	Ø160	Ø160	Ø160	1000 mm	1800 mm	2300 mm	180 kg
UAQ1 Stand	Shelf for gravitaion Stripper	-	-	-	-	-	900 mm	900 mm	-	-

*1 If levels in technical room allows for gravity return to balance tank or pool the gravitational version is simple in design and operation

*2 For basement installation a pressure system offers pressurized return to pool

THE WORKINGS OF AN ULTRAAQUA GAS STRIPPER

Intake water from pools with high levels of THM and Trichloramine is pumped into the Gas Stripper

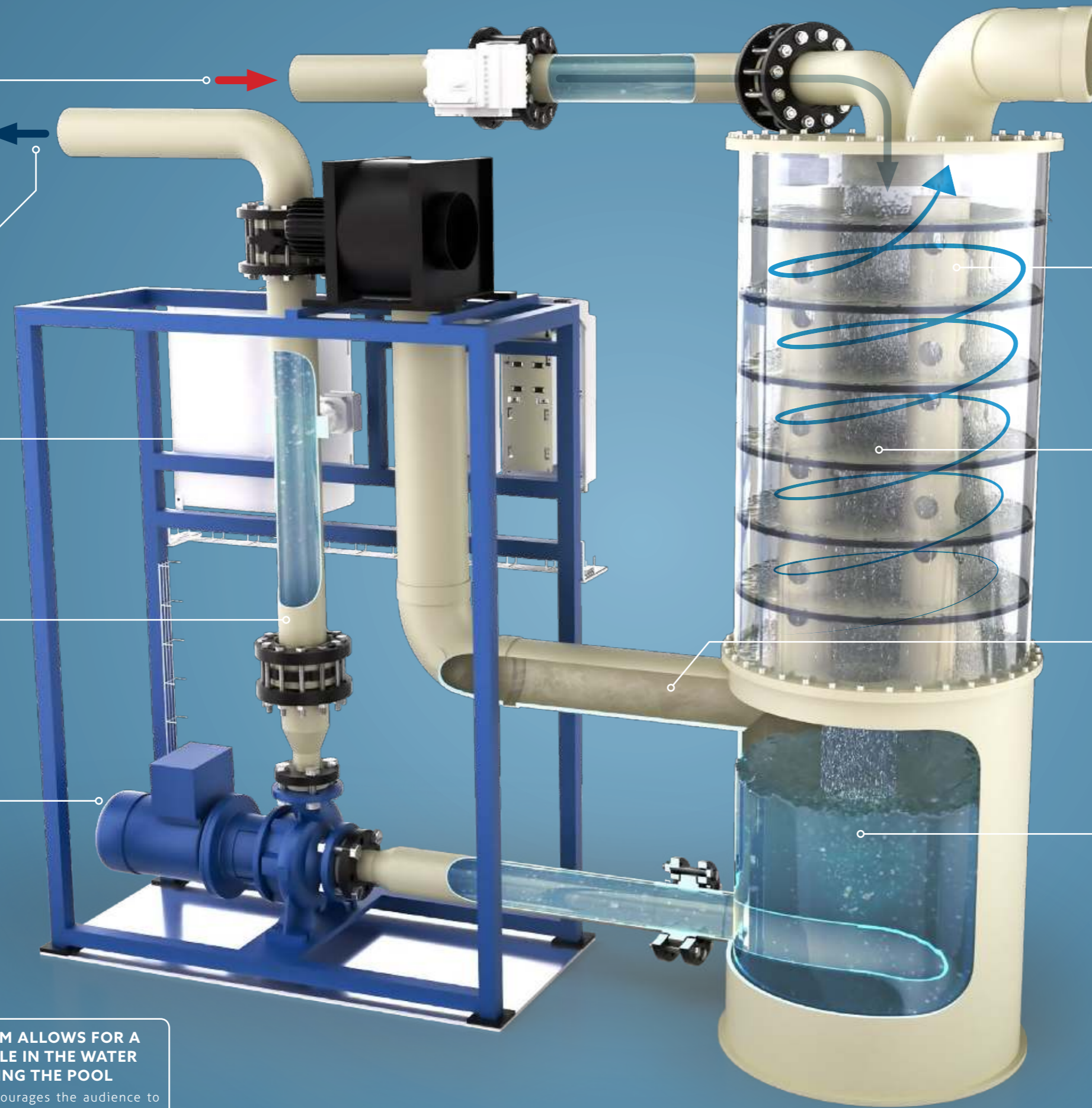
Treated Water with almost no THM and Trichloramine is returned to pools

Reliable & easy controls ensures smooth system operation

Non return valve for extra security against return flow

Sturdy chlorine resistant pumping construction constantly adapts and optimizes system waterlevels

EFFECTIVE REMOVAL OF THM ALLOWS FOR A GREATER NUMBER OF PEOPLE IN THE WATER AND THE AREA SURROUNDING THE POOL
Less exposure to THM & NCl_3 encourages the audience to spend more time and visit the water facility more often



Trihalomethanes (THM), Trichloramine (NCl_3) and other gaseous chlorine byproducts exits the system with ventilation air

The CFD hydraulically optimized design creates a vortex airflow to maximize air and water contact



Gas stripping technology basically consists of a column of perforated plates. It works according to the same principles as a heat exchanger

Air is blown into the bottom of the column ensuring efficient exchange of Gas from water to air

Sensors constantly monitors water levels to ensure optimal system efficiency

A GAS STRIPPER REDUCES THE AMOUNT OF THM AND TRICHLORAMINE (NCl_3) IN POOL WATER AND INCREASES THE COMFORT OF THE RECREATIONAL EXPERIENCE
By eliminating much of the chlorinated by-products, the **ULTRAAQUA GAS-Stripper** minimizes the risk of respiratory discomfort for bathers. In addition water and ventilation air exchange can be reduced thereby also reducing the amount of energy required to operate the entire recreational facility