

THE WATER REVOLUTION!

A REVOLUTIONARY
WATER CLEANING TECHNOLOGY



HYDRO !INTELLIGENCE
WATER GMBH

A BRIEF INTRODUCTION

SUSTAINABILITY AND ENVIRONMENTAL PROTECTION

The world is in need of water.

And even more today, the world needs technologies to make efficient use of water:

- * Reduction of cleaning agents and detergents
- * Reduction of fresh water consumption
- * Better waste water recycling instead
- * Avoiding chemicals and biocides
- * Eliminate biofilm and biological residues

Hydro Intelligence Systems are a key technology in fulfilling the requirements of water cleaning and therefore water recycling.

Applications are countless - experience the technology in brief and learn about key applications on the following pages.

Presented at



Berlin 22-24 June 2022

THE HI PRINCIPLE HI-PRINCIPLE

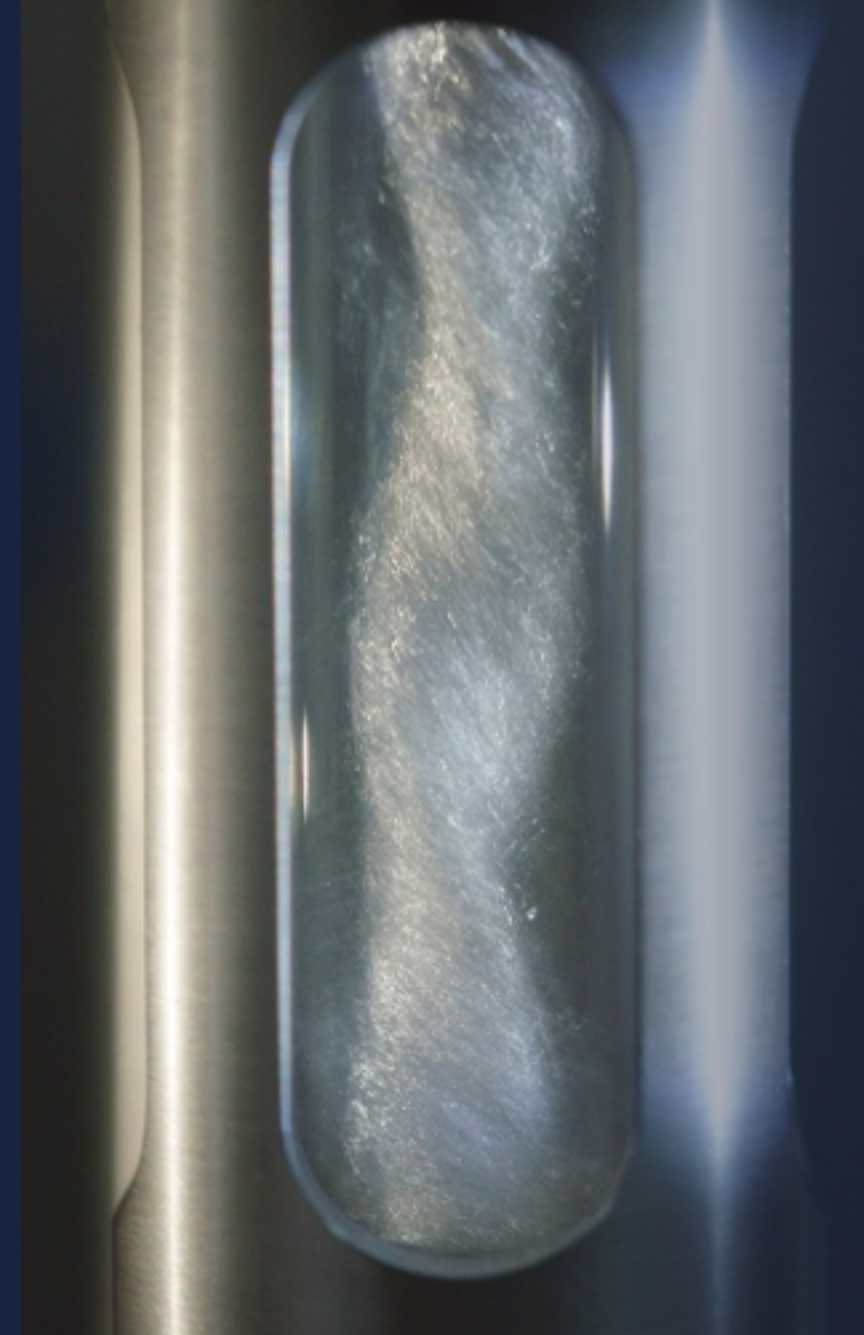
The Hydro Intelligence System is a revolutionary and effective process to clean water based on an imitation of nature., cleaning water without filters or chemical additives.

This patented process - besides destroying germs, viruses and bacteria (e.g. Legionella) provides significantly improved water properties, giving many advantages in different applications.

- Reduction of surface tension by about 40%
- Improvement of the viscosity and increasing flow velocity
- Increasing oxygen and nitrogen content.

The process modifies the water in its molecular structure - bringing along many advantages for further utilization.

It is also possible to absorb ozone as an additional oxidant for better results in highly contaminated water. By adding modules, such as electrolysis e.g., even heavy metals or chemical compounds can be oxidized or recovered. The efficiency of these modules at the same time is significantly improved!



WHAT IS THIS GOOD FOR?

APPLICATION FIELDS

Application drinking water

- * Residential Buildings, High-rise buildings
- * Ships, Trailers
- * River and well water treatment
- * Business Buildings, Hotels, Hospitals, Nursing and Retirement Homes
- * Food Industry
- * Shopping Centers

Advantages:

- *Reduction of infections (Legionella, E. coli bacteria etc.) and general health risks by breaking up 99.9 % of all organic pollution, incl. residue-free oxidation*
- *4 to 5 x Increase of Oxygen and Nitrogen optimizes a water quality*
- *Increase of operational safety (elimination of biofilm)*
- *Reduction of maintenance cost*
- *Extension of appliance life cycles*
- *No chemicals*
- *No chlorine odors*
- *Increase of real estate value*

WHAT IS THIS GOOD FOR?

APPLICATION FIELDS

Application grey water

- * Airports
- * High-rise buildings, Sports Stadiums, Industrial Buildings
- * Shopping Malls
- * Ornamental Ponds, Wells
- * Greenhouses, agricultural applications

Advantages:

- *Reduction of maintenance cost, operational safety without chemicals*
- *Simple system integration*
- *Savings in drinking water consumption*
- *Positive reputation due to eco-friendly use of rain water*
- *Reputation improvement by ecological reduction of cleaning efforts*

Application in separation of different media

- * Oil-containing industrial waste waters
- * Industrial parts washers
- * Water from paintshops

Advantages:

- *Recovery of metal particles and reduction of disposal cost.*

Application waste water

- * Sewage treatment plants, independent of volume flow
- * Community sewage treatment plants
- * Precious Metal Processing, Mining
- * Industrial Waste Water

Advantages:

- *Clean water independent of existing canalisation*
- *Elimination of 95 % of micro plastics!*
- *Improved reduction of hormones and chemical residues*
- *Chemical-free degradation of biological compounds*
- *Better separation of oil/water mixtures*

WHAT IS THIS GOOD FOR?

APPLICATION FIELDS

Application in process water

- * Cooling water cycles
- * Air washing plants
- * Washing devices for industrial parts
- * Process water cycles
- * Cooling towers

Advantages:

- *Higher efficiency in cooling towers*
- *Energy and water savings of up to 30 %*
- *Improvement of operational safety*
- *Lower disposal costs*
- *Compliance with hygienic standards by law.*
- *Higher efficiency in air washing*
- *Staff safety*
- *Reduction of surface tension for finer fogging*
- *Continuous compliance with emission limits and laws*
- *Increase of lifecycles (lyes and baths)*
- *Permanent processing of emulsions (parts washing)*
- *Higher efficiency of the water in the cooling process*
- *Massive cost savings by reducing efforts for fresh water filtration & waste water disposal.*
- *Reduction of odors by lowering bacteria content of cleaning waters.*

Application in agriculture and food industry

- * Irrigation systems
- * Rain water harvesting plants
- * Landscaping
- * Greenhouses

Advantages:

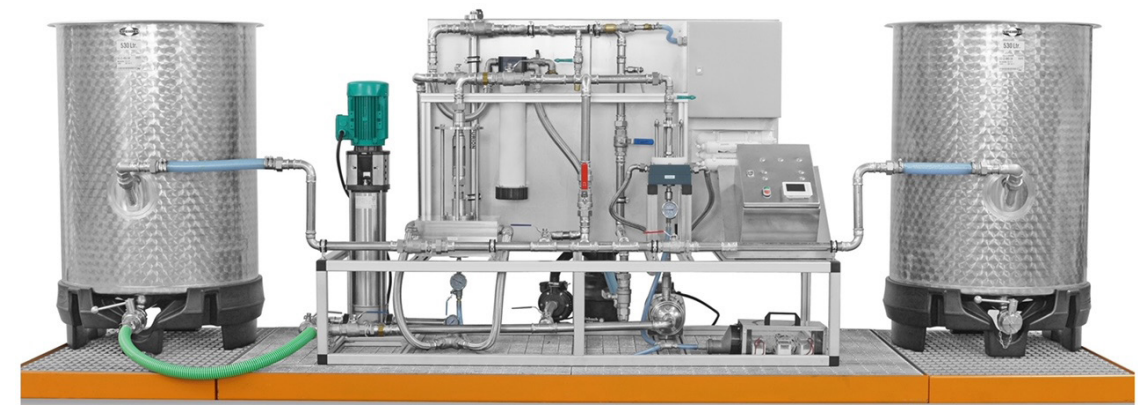
- *Reduction of algae*
- *Avoiding algae growth*
- *Eliminating and avoiding organic pollution*
- *Approx. 20 % Water Savings*
- *Accelerated Plant growth*

THE POTENTIAL

As the areas of application for the HI system are very versatile, the potential of the system is naturally dependent on exterior parameters. For fighting germs and bacteria in drinking water cycles, the hydraulic network of the building is a crucial factor. How well are the pipes networked? How long are the pipes from mains to the points of withdrawal? How contaminated is the drinking water already at the get-go? In the industrial sector the treatment of process water depends on its contamination. Which matter is already in the water? What are the goals regarding the treatment? Is it the goal to improve the effect of surfactant-containing water? Or to even reduce foreign matter before disposing the water?

To provide safety in determining the potential of using HI systems in your application, we accompany you prior to any installation by taking water samples and undertaking proper lab analysis. We offer to have the samples taken by a certified technician. These samples are analyzed for content matter (process water) or germs and pathogens (drinking water) in an approved independent institutional laboratory. Then the samples are being treated for the desired application in a tailor-made HI System appliance - then consequently brought back to the lab for renewed analysis.

We provide you the results in order to have safety in planning your HI water treatment plant. When purchasing an appliance or plant the costs for analysis may be offset against the purchasing price.



TEST RESULTS



Laboratorium für Bakteriologie und Lebensmittelhygiene

Dr. Jürgen Grochowski
staatl. gepr. Lebensmittelchemiker
Sachverständiger nach § 43 LFGB

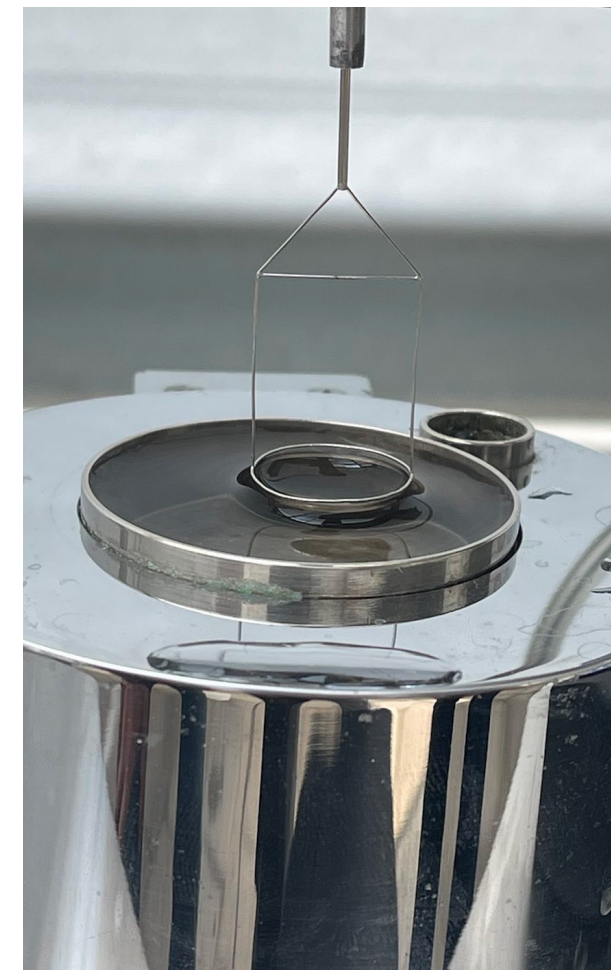
Dr. Günter Jeschke
Fachtutor für Lebensmittelhygiene
Fleischhygiene und Schlachthofwesen

Dr. J. Grochowski Bamberger Str. 7 01187 Dresden



Tests:

Reduction of surface tension, improvement of viscosity, degradation of germs, viruses and bacteria (Legionella, E. Coli, CFU's, etc.), degradation of pesticides, degradation of transformer oils in water etc.



WHO IS ALREADY USING IT?

*INDUSTRY LEADERS AROUND THE WORLD HAVE INSTALLED HYDRO INTELLIGENCE SYSTEMS FOR DIFFERENT - BUT GOOD REASONS
here are just a few...*

Health

- Drinking water treatment in Hotels, nursery homes, hospitals, universities
- Several City administrations in Germany and Europe
- Sports facilities, gyms, public swimming pools

Industry/Waste Water

- Automotive Industry (Germany, France) - cooling water, washer plants, paintshop waste water, process water
- Technology companies - waste water treatment
- Swiss watch manufacturers - cooling water, waste water treatment
- Airports - rain water treatment
- Railway Traffic (Germany) - washing plants - air washers
- Truck Manufacturers (Germany) - machine washing, printing plant water treatment
- Public waste water plants

Plant Growth/Landscaping

- Automotive manufacturer (Germany) - ornamental pond in front of office building
- City administrations and universities (Germany) - public fountain water cleaning
- Zoos, wells, fountains and ponds



SYSTEM SIZES



TECHNISCHE DATEN												
TYP	25	35	50	50	60	90	130	150	210	300	400	500
LEISTUNG [m³ / h]	2,5	3,5	5,0	5	6	9	13	15	21	30	40	50
GEWICHT [kg]	15			150								
MASSE (B x H x T) [cm]	40 x 70 x 21			70 x 110 x 50					AUF ANFRAGE			
WERKSTOFF	KUNSTSTOFF			EDELSTAHL								



PATENTED TECHNOLOGY



HYDRO INTELLIGENCE IS A KEY TO A FUTURE TECHNOLOGY AND OPENS THE DOOR TO CLEAN WATER WORLDWIDE + FOR A BETTER PLANET

**Hydro Intelligence Technology is patented worldwide.
International trade and license development relations are continuously refined.**

Upon interest in this technology, HYDRO INTELLIGENCE WATER GMBH will provide additional information, including more information on the technology, its applications, perspectives and business plan, in an extensive Information Memorandum.

Right now: Let's talk.

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