

100% Chemical-free Water Treatment:

Reference Applications in
Agriculture

www.NECON.de

100% Chemical-free Water Treatment...



...in Poultry Keeping



...in Gardening &
Orchid Cultivation

100% Chemical-free Water Treatment...



...in Fruit-growing –
Positive results include
prevention of fireblight



... in Wine-growing – Successes
against *Plasmopara viticola*,
Botryotinia und other fungi

You too can benefit from...

- ✓ Plant fortification and disinfection of germs by copper-silver ions
- ✓ Improved root growth, for more robust, healthy plants
- ✓ Efficient against fungi, bacteria, viruses and germs
- ✓ Overhead sprinkling without legionellae hazard
- ✓ Germ-free and soft sprinkling water
- ✓ Deposit effect throughout water circulation system

And if this is not enough...



You can also benefit from...

- ✓ **Reduction down to entire abandonment of fungicides**
- ✓ **Thus cost saving and environmentally friendly**
- ✓ **Minimal maintenance and straightforward handling**
- ✓ **Modest running expenses and lifecycle cost**
- ✓ **30 years global application in varying waters**
- ✓ **Efficiency proven by Geisenheim Research Center, Germany**

Functional principle



LONG-LASTING RESIDUAL EFFECT



Efficiency proven by [Geisenheim Research Center](#), Germany

http://www.campus-geisenheim.de/index.php?id=610&L=1



Forschungsanstalt Geisenheim

NEWS CONTACT SEARCH

Research Center
Research
Doktorandenkolleg
Team

Institutes & Sections
Viticulture / Grapevine Breeding /
Wine Technology
Enology
Horticulture
Biology
Botany
Soil Science and Plant Nutrition
Phytomedicine
Main Research Focus and Areas
of Activity



Sie befinden sich hier: Geisenheim Research Center :: Institutes & Sections :: Biology :: Phytomedicine

Section of Phytomedicine

Research and Teaching of Pests and Diseases on Grapevine and Horticultural Crop Plants

- Optimisation of the rhizosphere and phyllosphere microflora
- Development of environmentally friendly plant protection measures
- Forecast of disease and pest outbreak
- Disease management and risk minimisation of closed growing systems

Sample Reports:

 **Prevention of Xanthomonas (in German)**

 **Prevention of Erwinia amylovora (in German)**



Automatic spraying system for vineyards and plantations

Orchid cultivation farm Bock in Bremen



No more loss of revenue, by prevention of water-carried fungi

Orchid cultivation farm Bock in Bremen

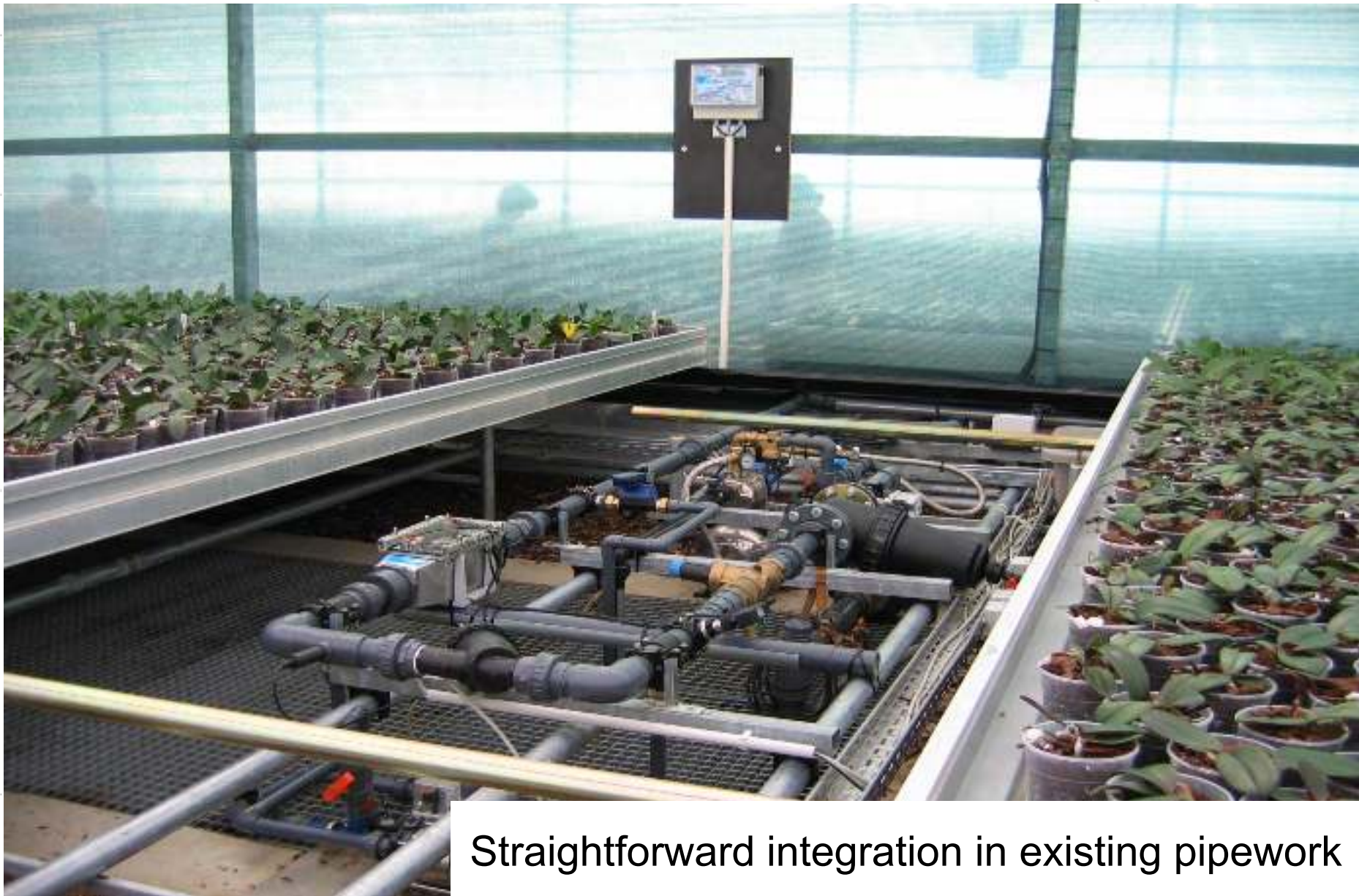


Horticultural farm – Seidl GbR



Overhead sprinkling involving high air humidity
without legionellae inhalation hazard

Horticultural farm – Seidl GbR



Straightforward integration in existing pipework

Horticultural farm – Seidl GbR

gartenbau
Seidl GbR

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Betrieb Rain:
Neuhofweg 17
86641 Rain/Lech
Telefon 09090/9229653
Telefax 09090/9229656

Inhaber: Josef und Josef jun. Seidl · 85104 Pförring · Geisgries 15

Fa. Inutec Wasseraufbereitung
Rohrweg 3

79271 St. Peter

Rain / Lech, 01.08.08

Gießwasserdesinfektion

Sehr geehrter Hr. Löffler,

gerne bestätigen wir, dass wir seit Sommer 2007 unser Gießwasser für die Phalaenopsiskultur vorbeugend mit Ihrer Desinfektionsanlage auf Basis von Cu- und Ag-Ionen behandeln.

Seither treten praktisch keine Neuinfektionen mit Fusarium sp., Erwinia sp. und Pseudomonas sp. mehr im Bestand auf. Bestehende Infektionen breiten sich nicht weiter aus und haben keine wirtschaftliche Bedeutung mehr.

Wir fahren die Anlage bei einer Cu-Konzentration von 1,5 – 3 mg / l

m.f.G



(Arno Mayr, Fa. Seidl GbR)

Re: Disinfection of Irrigation Water

To whom it may concern:

We are pleased to confirm that starting summer 2007 we treat the irrigation water for our Phalaenopsis crop with the disinfection system producing copper and silver ions as a preventive measure.

Since that time virtually no new infections of Fusarium sp., Erwinia sp. and Pseudomonas sp. have occurred on that crop. Already existing infections do not spread and have no commercial relevance.

We have set the system to produce a copper concentration of 1.5 - 3.0 mg/liter

BR,

(Arno Mayr [master in horticulture] Seidl GbR)

Reference letter by satisfied orchid grower



ubs Consulting | Dr. Klaus G. Scholten | Hauptstr. 26 | D-79312 Emmendingen

Necon GmbH
Mr. Dr. Klaus Gebhardt
General Manager
Elzstr. 26
D-79312 Emmendingen

Dr. Schol/AS
October 30th, 2010

Water Treatment System NeconX

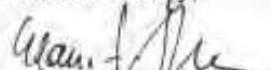
Dear Dr. Gebhardt,

Dated January 05, 2010 we got a Water Treatment System NeconX.2 A2000.2 for the disinfection of our irrigation water.

We are pleased to confirm that starting spring 2010 we treat the irrigation water for our garden cultivation on regular basis. Until now the unit does work to our full satisfaction with high efficiency and reliability. More than 40.000 liters of water have been treated by using the initial electrode.

In the area of "roses" we had about 10 sprinkle-sessions using copper-silver ions as a preventive measure. Over the whole growing period virtually no infections of *sphaerotheca pannosa var. rosae*, *actinonema rosae* and *botrytis cinerea* have occurred. We even could not detect any leaf-louses. The growing was rather powerful. The bud and blossoms as well as the leaves were of high quality and resistance. The green of the garden was irrigated many times during the hot season (June/ July 2010). The lawn grew up more intensively and did lose parts of its moss.

Yours sincerely,


Dr. Klaus G. Scholten

...using copper-silver ions as a preventive measure... virtually no infections of *sphaerotheca pannosa var. rosae*, *actinonema rosae* and *botrytis cinerea* have occurred. We even could not detect any leaf-louses.

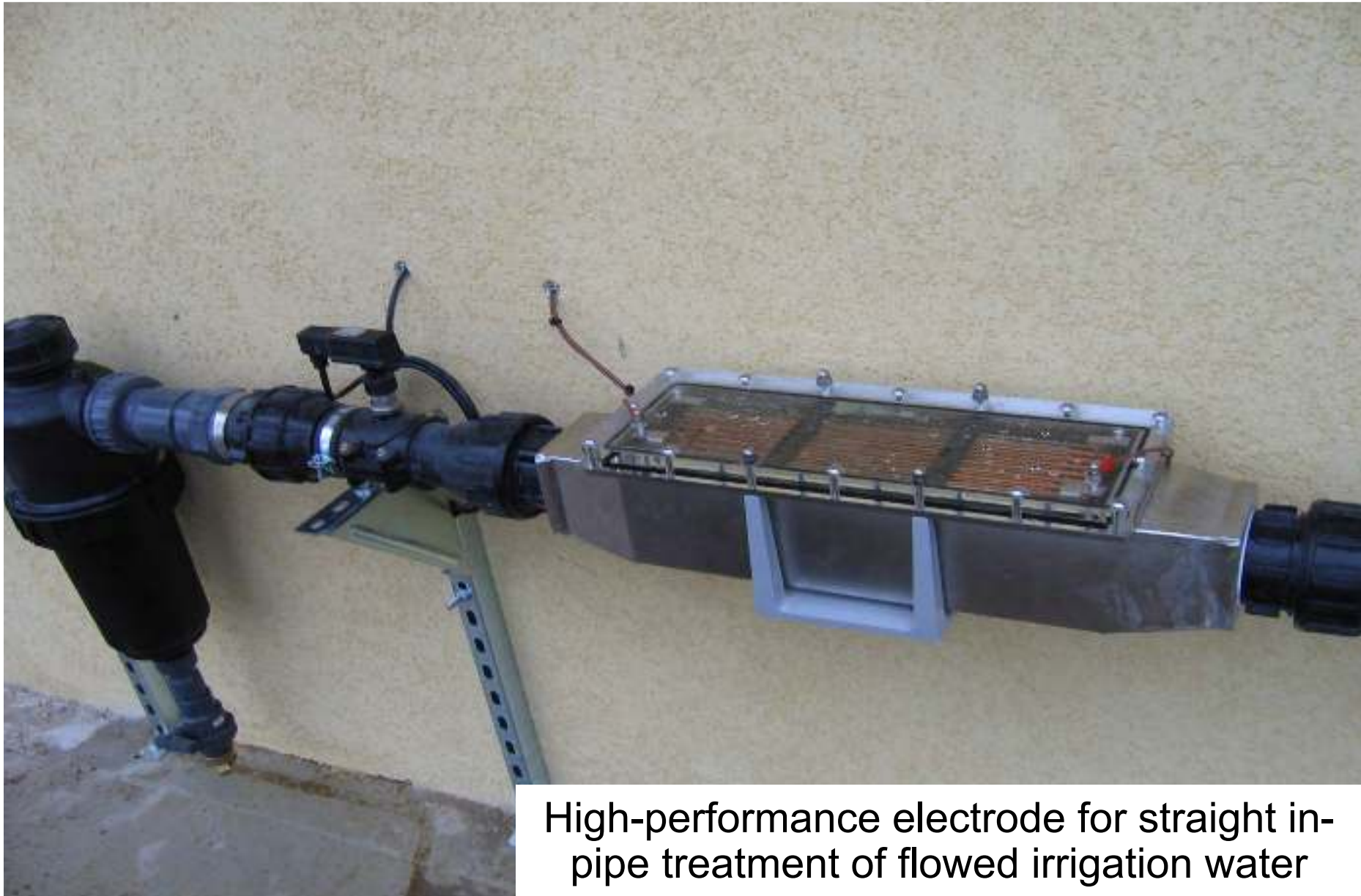
Reference letter by a satisfied rose-gardener

Plant- and fruit-growing farm – Steiner



Healthy and robust plants due to sprinkling
with water treated by copper-silver ions

Plant- and fruit-growing farm – Steiner



High-performance electrode for straight in-pipe treatment of flowed irrigation water

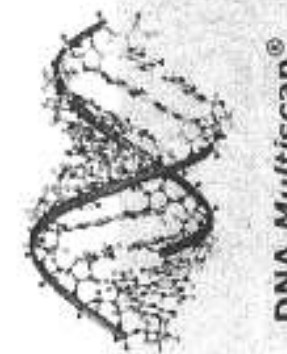
Plant- and fruit-growing farm – Steiner

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K.v.K. nr. 27226202
Email: info@denhaan.nl



Baurnschule Steiner
DUITSLAND



Datum : 19-07-2007
Aanvraag : DNA Multiscan®
Kundenummer : 40192
Identifikatie : I0707192008
Kenmerk : I WASSER

Sehr geehrter Herr,

Anbei schicke wir Sie der Resultaten von dem DNA Multiscan®

Pilz	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Klasseneinteilung	Beratung:																																																						
0 Nicht detektiert	In dieser Probe I haben wir keine Signale detektiert von pathogenen Pilzen.																																																						
1 Anfangende Infektion	Mit freundliche Grüßen,																																																						
2 Leichte Infektion	Ir. M. van der Meer																																																						
3 Maßige Infektion																																																							
4 Infiziert																																																							
5 Schwer Infiziert																																																							
6 Sehr schwer Infiziert																																																							

DNA analysis of Cu-Ag-treated irrigation water – not a single trace of any of the 54 tested germs (all “0”)

Plant- and fruit-growing farm – Steiner

Wasser – Desinfektion mit Kupfer und Silber

100 % chemikalienfrei: Eine neue Errungenschaft in der Baumschule ist die Anlage zur Wasserdesinfektion, die auf Kupfer- und Silberionen basiert. Der größte Vorteil der Kupfer- und Silberionen ist, dass sie im Wasser bleiben und weiteren Schutz bieten, indem sie das Wasser auf lange Sicht ohne Giftstoffe reinigen, so Steiner. Das System ist leicht zu bedienen und braucht minimale Wartung. Die Kupfer- und Silberionen haben bewiesenermaßen die Erreger Kryptosporidium, E-Choli, Choliforme und Pseudomonaden, Legionellen und viele weitere Arten von Bakterien und Viren abgetötet, so der Hersteller. Diese Art Wasserdesinfektion lässt sich praktisch auch überall dort anwenden, wo es gilt, nachhaltig Bakterien, Viren und Algen zu vernichten. Das System findet auch Einsatz in vielen Schwimmbädern.

• Sabine Müller, Braunschweig



Neue Wege in der Wasserdesinfektion, hier die Silber und Kupferplatten.

Water - Disinfection with Copper and Silver

100% chemical-free: One of the latest acquisitions at the arboretum is a system for water disinfection that works based on copper and silver ions. The biggest advantage of copper and silver ions is that they remain in the water providing continuous protection by keeping the water clean for a long time without toxic aids, says Steiner. The system is easy to handle and needs only minimal maintenance. Copper and silver ions have demonstrably killed Crypto-sporidium, E. coli, coliforms, pseudomonas and legionellae as well as many other species of bacteria and germs, according to the manufacturer. This type of water disinfection can be applied wherever rigorous elimination of bacteria, viruses, and algae is required. The system is also widely used in swimming pools.

Article in trade journal „Deutsche Baumschule“ (‘German Arboretum’) reporting on benefits when disinfecting irrigation water with copper-silver ions (full version [see PDF](#), in German)



Scalable high-performance systems can be adjusted to any water volumes



Even large-scale growers with rigorous result monitoring take advantage of ionization

Chicken farm – Biolandhof Breitsameter



Measurably improved animal health due to lower bacterial contamination in the watering supply

Chicken farm – Biolandhof Breitsameter



This system provides germ-free water for 12.000 laying hens – as well as for the farmer's household

NECON GmbH

A company combining expertise with responsibility

Founded in 1981 by Dr.-Ing. Klaus Gebhardt as an engineering company for automation technology and metal design, NECON GmbH is today a leading supplier worldwide in the area of chemical-free water disinfection and innovative swimming pool equipment.

Dedicated to providing a safe, ecofriendly and cost-effective alternative to chemical water treatment, NECON GmbH has conducted intensive research for many years, in cooperation with renowned scientists and laboratories.

With the "NECON System", a centuries-old principle of electrophysical water treatment has been finally redefined, engineered to production-maturity and patented. NECON GmbH offers both private and public clients a broad range of products for numerous applications, including whirlpools and swimming pools, cooling water systems, plant fortification and farm animals liquid feeding systems, as well as treatment of water in cisterns and other storage tanks for fresh water, e.g. in mobile homes and on boats and ships.



Dr. Klaus Gebhardt
Managing Director NECON GmbH



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