

developed in Germany

# Water treatment

- Drinking water
- Building services
- Hotels
- Healthcare
- Food & Beverage
- Manufacturing
- Chemical industry
- Pharmaceutical industry
- Energy production



German Technology for Water and Energy





# contents

- **Hotels / Vacation resorts**  
GTWE solutions assure satisfied customers and help reduce operating and personnel costs.
- **Residential areas / Apartment residences**  
GTWE solutions protect strongly ramified and irregularly used water mains against contamination.
- **Restaurants / Cafeterias / Food and beverage industries**  
GTWE solutions assure the availability of pure and good tasting water for human consumption and for preparing food products.
- **Hospitals / Retirement homes / Physicians**  
GTWE solutions protect human life in highly infectious risk areas.
- **Industrial companies / Laundries / Energy suppliers**  
GTWE solutions provide optimized water for best and energy saving processes.
- **Public water suppliers / Relief organizations**  
GTWE solutions provide large quantities of clean drinking water at low costs.
- **Swimming pools / Recreational centers**  
GTWE solutions allow for recreational activities in clean and healthy environments.
- **Kindergartens / Schools / Universities**  
GTWE solutions provide clean and healthy water for children.

Contamination of untreated water	Effects	GTWE technology	Page
Bacteria Viruses Fungi	<ul style="list-style-type: none"> <li>● Diseases</li> <li>● Smell and taste</li> </ul>	<b>Ultrafiltration</b>	<b>3-5</b>
		<b>Chemical disinfection</b>	<b>7</b>
		<b>UV disinfection</b>	<b>7</b>
Suspended solids	<ul style="list-style-type: none"> <li>● Turbidity</li> <li>● Diseases</li> <li>● Optical impairments</li> </ul>	<b>Ultrafiltration</b>	<b>3-5</b>
Salt content	<ul style="list-style-type: none"> <li>● Incrustations and deposits in pipes and technical systems</li> <li>● Residues on surfaces</li> <li>● High conductivity</li> </ul>	<b>Nanofiltration</b> <b>Reverse osmosis</b>	<b>6</b>
Calcium excess Magnesium excess	<ul style="list-style-type: none"> <li>● Incrustation and wear of pipes, fittings and technical systems</li> <li>● Appearance of white spots on surfaces</li> </ul>	<b>Ion exchange</b>	<b>8</b>
		<b>Hardness stabilization</b>	<b>9</b>
Iron excess Manganese excess	<ul style="list-style-type: none"> <li>● Incrustation and wear of pipes, fittings and technical systems</li> <li>● Appearance of dark spots on surfaces and clothing</li> <li>● Bitter taste</li> </ul>	<b>Oxidation</b>	<b>9</b>
Nitrate load	<ul style="list-style-type: none"> <li>● Diseases</li> </ul>	<b>Ion exchange</b>	<b>9</b>
High chlorine contents	<ul style="list-style-type: none"> <li>● Smell and taste of chlorine</li> <li>● Health hazards</li> </ul>	<b>Activated charcoal filtration</b>	<b>9</b>
Discolorations	<ul style="list-style-type: none"> <li>● Optical impairments</li> </ul>		
Corrosiveness	<ul style="list-style-type: none"> <li>● Corrosion of pipes and systems</li> </ul>	<b>Corrosion protection</b>	<b>9</b>
Heavy metal load (arsenic, mercury, etc.)	<ul style="list-style-type: none"> <li>● Diseases</li> </ul>	<b>Special granulate</b>	<b>9</b>
Phosphate load	<ul style="list-style-type: none"> <li>● Diseases</li> <li>● Strong growth of algae</li> </ul>		

## Drinking water | Central systems

### Small to very high capacities

#### Technical data

- Small and medium systems
  - Flow rate: 150 – 6,000 L/h
  - Membrane area: 2.7 – 120 m<sup>2</sup>
- Large systems
  - Flow rate: > 6,000 L/h
  - An arbitrarily large flow rate may be selected
- Filtration limit: 0.02 microns ~ 100 kDa

#### Cleaning performance

- Bacteria: > 99.999 %
- Viruses: > 99.999 %
- Fungi: 100 %
- Suspended solids and turbidity: 100%

#### Characteristics and options

- Easy installation
- Readily assembled and easy to transport
- Low operating and maintenance costs
- Automatic washing or backwashing
- Possible extension through a modular system
- Energy efficient utilization of the existing water pressure
- Individual planning and dimensioning
- Totally automatic operation (optional)
- Worldwide remote maintenance (optional)
- May be combined with further GTWE components
  - Drinking water tank
  - Activated charcoal filter
  - Chemical disinfection
  - UV disinfection
  - Softening
  - Iron and manganese removal
  - Elimination of heavy metals



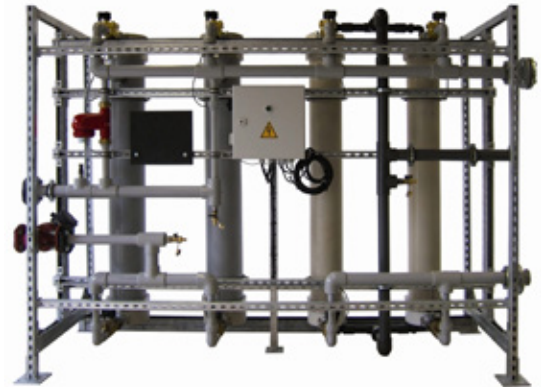
■ Single-module unit  
Membrane area: 5.8 m<sup>2</sup>  
Flow rate: approx. 290 L/h



■ Double-module unit  
Continuous water flow  
Membrane area: 2 x 60 m<sup>2</sup> = 120 m<sup>2</sup>  
Flow rate: approx. 6,000 L/h



■ Large facility for municipal water supply



■ Unit with 4 modules  
Membrane area: 4 x 60 = 240 m<sup>2</sup>  
Flow rate: approx. 12,000 L/h

Area of application	Advantages of GTWE technology
Hotels / Vacation Resorts Dwelling / Apartment residential areas	<ul style="list-style-type: none"> <li>● Clean and healthy water for personnel and guests</li> <li>● Wellness area, swimming pools, whirlpools</li> <li>● Protection of the warm water supply system against legionella</li> </ul>
Restaurants / Cafeterias	<ul style="list-style-type: none"> <li>● Healthy water to be consumed directly</li> <li>● Safe preparation of food products</li> </ul>
Enterprises Industrial enterprises	<ul style="list-style-type: none"> <li>● Healthy personnel and low costs due to illness</li> <li>● Optimum water quality for production processes</li> </ul>
Hospitals / Clinics / Physicians Residential and nursing homes	<ul style="list-style-type: none"> <li>● Protection of personnel and patients</li> <li>● Reduction of costs due to less infections</li> </ul>
Swimming pools	<ul style="list-style-type: none"> <li>● Higher recycling frequency of the purified water</li> <li>● Water with low chlorine content for health conscious guests</li> </ul>
Public suppliers	<ul style="list-style-type: none"> <li>● Public health protection</li> <li>● Clean and healthy water in large quantities</li> <li>● Low operating costs</li> </ul>

## Drinking water | Mobile systems

Based on 20 feet / 40 feet containers

### Technical data

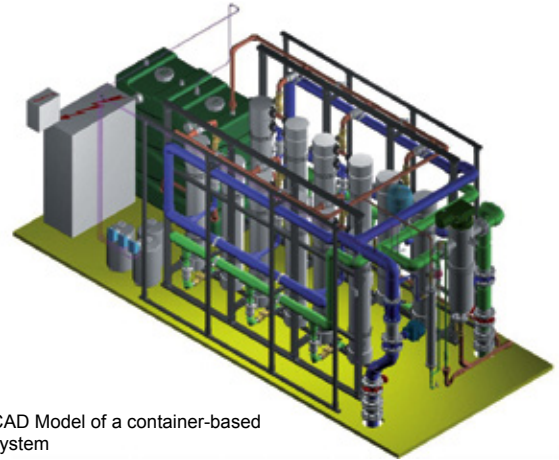
- Flow rate: up to 96,000 L/h (40 foot container)
- Filtration limit: 0.02 microns ~ 100 kDa
- Readily assembled in 20 or 40 foot container

### Cleaning performance

- Bacteria: > 99.999 %
- Viruses: > 99.999 %
- Fungi: 100%
- Suspended solids and turbidity: 100%

### Characteristics and options

- Fast readiness for use
- Possibility for mobile utilization
- Totally automatic operation
- Robust technology
- Protection against weather, vandalism and incorrect utilization
- Worldwide control through remote access (optional)
- Individual composition of container solutions
- Possible integration of further GTWE components within a single container:
  - Drinking water tank
  - Activated charcoal filter
  - Chemical disinfection
  - UV disinfection
  - Softening
  - Iron and manganese removal
  - Elimination of heavy metals



■ CAD Model of a container-based system



■ Fully assembled container-based system



■ Filtration modules in a container-based system

Area of application	Advantages of GTWE technology
Water suppliers / Waterworks	<ul style="list-style-type: none"> <li>● Public health protection</li> <li>● Temporary or permanent solution</li> <li>● No costs for buildings</li> </ul>
Construction sites	<ul style="list-style-type: none"> <li>● Clean water for workers: food, drinking, personal hygiene</li> <li>● Cost reduction through avoidance of infections and spreading of germs</li> </ul>
Relief organizations	<ul style="list-style-type: none"> <li>● Possibility of cleaning highly charged untreated water</li> <li>● Protection against weather, vandalism, theft, etc.</li> <li>● Reduction of high danger of infection in crisis areas</li> <li>● Fast start-up and easy utilization</li> <li>● Low operating costs</li> </ul>

## Drinking water | Point-of-use solutions

### Permanent solutions and easy-change filters

#### Technical data

- Flow rate: 100 - 300 L/h
- Membrane area: 0.25 - 0.75 m<sup>2</sup>
- Filtering limit: 0.02 microns ~ 100 kDa

#### Cleaning performance

- Bacteria: > 99.999 %
- Viruses: > 99.999 %
- Fungi: 100%
- Suspended solids and turbidity: 100%

#### Characteristics and options

- Installation directly at the location where water is used (shower, washstand, etc.)
- Pure and clean water in spite of germ containing pipes
  - Solution for existing and old buildings
  - Sterile medical filters for high risk areas
- High functionality and appealing design
- Robust technology
- Protection against vandalism (optional)
- Automatic flushing without current (optional)



■ Shower head with integrated **easy-change filter**  
Long useful life of the filters:  
up to 180 days



■ Shower panel with integrated ultrafiltration  
**Permanent solution**  
Fully automatic flushing



■ Basic model with integrated ultrafiltration  
**Permanent solution**  
Manual flushing



■ Medical washstand with integrated ultrafiltration  
**Permanent solution**  
Fully automatic flushing



■ Highly sterile medical shower head with integrated **easy-change filter**  
Long useful life of the filters: up to 180 days

Area of application	Advantages of GTWE technology
Hotels / Vacation resorts Residential areas / Apartment residences	<ul style="list-style-type: none"> <li>● Reliable protection in case of already contaminated water pipes and water stagnation due to season</li> <li>● Securing of highly ramified water mains</li> </ul>
Hospitals / Clinics / Physicians Residential and nursing homes	<ul style="list-style-type: none"> <li>● Securing of highly loaded water mains</li> <li>● Observance of the highest hygiene requirements</li> <li>● Special securing of high risk areas</li> </ul>
Swimming pools / Recreational centers Prisons	<ul style="list-style-type: none"> <li>● Protection of highly frequented public showers</li> <li>● Robust and protected against vandalism</li> </ul>
Kindergartens / Schools / Universities	<ul style="list-style-type: none"> <li>● Children's protection</li> <li>● Robust and protected against vandalism</li> </ul>

## Small to very high capacities

### Technical data

- Flow rate: 80 – 50,000 L/h
- Flow rate may be extended according to requirements
- Filtration limit:
  - Nanofiltration: approx. 0.001 microns
  - Reverse osmosis: approx. 0.0001 microns

### Cleaning performance

- Salts
  - Nanofiltration: 80 – 90 %
  - Reverse osmosis: > 95 %
- Bacteria, viruses, fungi, suspended solids, turbidity: 100 %
- Pesticide residues
- Medical residues

### Characteristics and options

- Totally automatic operation
- Permanent filtrate flow through cross-flow filtration
- Individual planning and dimensioning of the units
- Possible extension thanks to modular system
- Worldwide remote maintenance (optional)
- May be combined with further GTWE components
  - Pure water tank
  - Activated charcoal filter
  - Chemical disinfection
  - UV disinfection
  - Softening
  - Iron and manganese removal
  - Elimination of heavy metals



■ Compact reverse osmosis unit  
Flow rate: approx. 130 L/h



■ Vertical unit fully assembled on a rack  
Flow rate: approx. 500 L/h



■ Combination unit with upstream water softening  
Flow rate: approx. 400 L/h



■ Low-pressure unit with upstream antiscalant dosing  
Optimized energy consumption  
Flow rate: approx. 5,000 L/h

Area of application	Advantages of GTWE technology
Industrial enterprises	<ul style="list-style-type: none"> <li>● Increased process and product quality</li> <li>● Excellent rinsing water quality</li> <li>● Improved surface of washed parts</li> </ul>
Food / beverage industries	<ul style="list-style-type: none"> <li>● Constant high product quality</li> <li>● Worldwide the same smell and taste</li> </ul>
Hospitals / Clinics / Physicians Laboratories	<ul style="list-style-type: none"> <li>● Dialysis water and sterile washing water</li> <li>● Extremely pure water for labs</li> </ul>
Hotels / Vacation resorts / Apartment residences Laundries	<ul style="list-style-type: none"> <li>● Optimum water quality for laundries: improved washing results</li> <li>● Energy, water and chemical agent savings</li> <li>● Increased lifetime of facilities and lower maintenance expenditures</li> </ul>
Boiler feedwater Cooling water	<ul style="list-style-type: none"> <li>● Energy and fresh water savings</li> <li>● Increased lifetime of boilers, pipes and facilities</li> <li>● No deposits, lower maintenance expenditures</li> </ul>

## Chemical disinfection

### GTWE Disinfection with chlorine dioxide

#### Technical data

- For flow rates: 1 – 300,000 L/h
- Automatic generation of chlorine dioxide
- Generating performance: 0 – 120 g/h ClO<sub>2</sub>

#### Disinfecting performance

- Bacteria: > 99.99 %
- Viruses: > 99.99 %
- Fungi: > 99.99 %

#### Characteristics

- Readily assembled on an aluminium rack
- Quick and easy installation
- Including dosing pumps and water meters

#### Advantages of disinfection with chlorine dioxide

- Ideal for drinking water
- No smells nor changes of taste
- Fast and strong disinfecting effect
- Sustained disinfecting effect in the whole distribution system (up to 48 hours) and elimination of biofilms
- Cleaning of already contaminated piping system

### GTWE UV-Desinfektion

#### Technical data

- Flow rate: 1,500 – 800,000 L/h
- Radiation intensity: > 400 j/m<sup>2</sup>

#### Disinfecting performance

- Bacteria: > 99.99 %
- Viruses: > 99.99 %
- Fungi: > 99.99 %

#### Characteristics

- Readily assembled
- Quick and easy installation
- Small space requirement

#### Advantages of UV disinfection

- Sure elimination of germs with uniform and clear water flow
- Degradation of chloramines
- High economic efficiency
- No utilization of chemical agents
- Environmentally friendly technology

## Chemical disinfection

### GTWE Disinfection with sodium hypochlorite

#### Technical data

- For flow rates: 1 – 330,000 L/h
- Automatic generation of sodium hypochlorite
- Generating performance: 0 – 200 g/h NaClO

#### Disinfecting performance

- Bacteria: > 99.99 %
- Viruses: > 99.99 %
- Fungi: > 99.99 %

#### Characteristics

- Readily assembled
- Quick and easy installation
- Including dosing pumps and water meters

#### Advantages of disinfection with Sodium hypochlorite

- Ideal for swimming pools, industry and wastewater treatment
- Starting material: cheap common salt tablets
- No transport of liquid chemical agents required
- Sustained disinfecting effect throughout the whole distribution system
- Water conservation



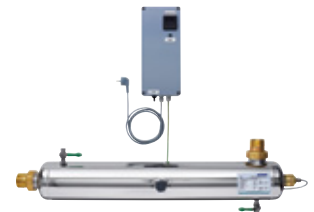
■ Fully automatic generation and dosing system  
Dosing of chlorine dioxide  
Flow volume controlled



■ Fully automatic dosing system  
Dosing of chlorine dioxide  
Flow volume controlled



■ UV disinfection unit  
Drinking water disinfection



■ UV disinfection unit  
Disinfection of industrial process water

## Small to very high capacities

### Technical data

- Flow rate: 10 – 80,000 L/h\*
- Automatic regeneration of the special resin
- 1 to 3 ion exchangers

### Softening performance

- Achievable residual hardness: < 1.5 ppm (mg/L CaCO<sub>3</sub>)
- Required hardness may be obtained through blending

### Characteristics and options

- Readily assembled and easy to transport
- Quick and easy installation
- Possible extension through modular system
- Continuous supply of soft water for double and triple reactor water softeners
- Very low drop of pressure for triple reactor water softeners
- Integrated disinfection (optional)
- Currentless models (optional)

\* The soft water flow rate depends on the hardness of the untreated water and of the required residual hardness.



■ Double reactor water softener for small-scale consumers  
Integrated salt tank  
Continuous soft water supply



■ Single reactor water softener  
External salt tank



■ Double reactor water softener  
External salt tank  
Continuous soft water supply



■ Triple reactor water softener  
Readily assembled on a platform  
Continuous soft water supply

Area of application	Advantages of GTWE technology
Hotels / Vacation resorts Residential areas / Apartment residences Laundries	<ul style="list-style-type: none"> <li>● More pleasant and healthier water for the skin</li> <li>● No troublesome furring in warm water systems</li> <li>● Increased lifetime of technical systems and domestic appliances</li> <li>● Reduced working time for cleaning of bathrooms and swimming pools</li> <li>● Optimal water quality for laundries</li> <li>● Reduced consumption of washing and cleaning products</li> </ul>
Restaurants / Cafeterias	<ul style="list-style-type: none"> <li>● No furring of kitchen appliances</li> <li>● No lime blasts on glasses or cutlery</li> <li>● Improved taste of food and beverages</li> </ul>
Industrial enterprises	<ul style="list-style-type: none"> <li>● Protection of pumps, pipes, machines and facilities</li> <li>● Increased process and product quality</li> <li>● Completely softened water for industrial processes</li> </ul>
Boiler feedwater Cooling water	<ul style="list-style-type: none"> <li>● Energy, chemicals and fresh water savings</li> <li>● Increased lifetime of boilers, pipes and facilities</li> <li>● No deposits</li> </ul>
Hospitals / Clinics / Physicians Retirement and nursing homes Laboratories	<ul style="list-style-type: none"> <li>● More pleasant and healthier water for the skin</li> <li>● More hygienic pipes and fittings thanks to avoided furring</li> <li>● Completely softened water for utilization in labs</li> </ul>



## GTWE Iron and manganese removal

### Technical data

- Unlimited flow rate
- Two technical options:
  - Utilization of strong oxidants
  - Special granulate to achieve oxidation over environmental oxygen

### Cleaning performance

- Elimination of iron ions
- Elimination of manganese ions



■ Iron and manganese removal unit  
Combined solution

## GTWE Nitrate elimination

### Technical data

- Unlimited flow rate
- Ion exchange process
- Automatic regeneration of the special resin

### Cleaning performance

- Removal of nitrate



■ Nitrate elimination unit  
Integrated salt tank

## GTWE Activated charcoal filter

### Technical data

- Unlimited flow rate
- Filtration limit: 5 microns
- Fine pressed active charcoal filling
- Casing material: plastic, stainless steel, GRP

### Cleaning performance

- Elimination of smell and taste (also chlorine)
- Decolorization
- Particle separation through filtering
- Elimination of pesticides and medical products



■ Activated charcoal filters  
Different styles and materials

## GTWE Hardness stabilization and protection against corrosion

### Technical data

- Dosing station controlled over quantities
- Automatic dosing

### Advantages

- Quick and easy installation
- Protection of furring thanks to stabilization of harness
- Highly effective protection against corrosion
- Utilization for prevention and sanitation
- Health safe dosing substances
- Different dosing substances: suitable for water characteristics and pipe material

## GTWE Removal of heavy metals and phosphates

### Technical data

- Long life special absorption granulate
- Possibility of central unit or point-of-use solution

### Advantages

- Easy installation
- Robust technology
- Very low operating and maintenance costs
- Automatic backwashing
- Environmentally friendly technology
- Long service lifetime of filtering granulate (up to 5 years)

### Cleaning performance

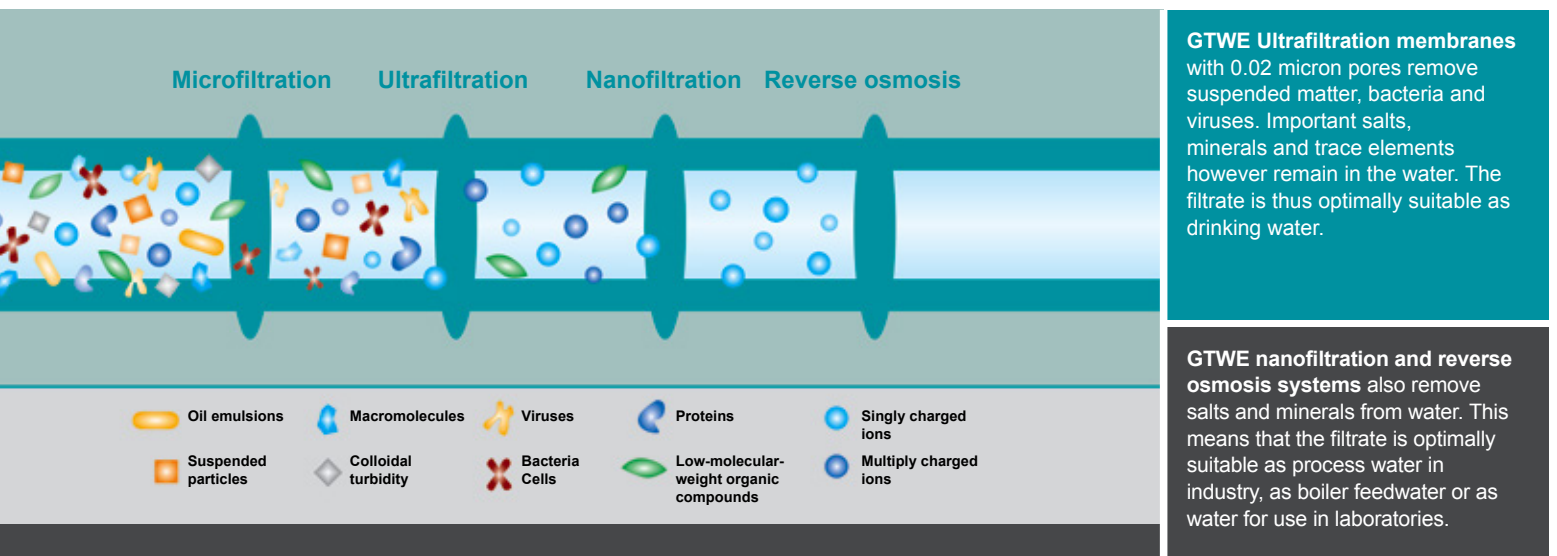
- Heavy metals (arsenic, mercury, etc.)
- Copper
- Zinc
- Phosphates



■ Accessories: Tanks, pumps, fittings, etc.

# Filtration and disinfection

Process	Effect	Advantages
Ultrafiltration	Removal of suspended solids, fungi, parasites, bacteria and viruses	<ul style="list-style-type: none"> <li>• Dirt and disease causing germs are completely eliminated</li> <li>• No occurrence of germ resistances</li> <li>• No use of chemical agents</li> <li>• Long lifetime of the GTWE membrane modules</li> <li>• Low operating and maintenance costs</li> <li>• Environmentally friendly technology</li> </ul>
Nanofiltration Reverse osmosis	Removal of ions, pesticides and medical products	<ul style="list-style-type: none"> <li>• Very pure water for medical and industrial applications</li> <li>• Ideal for beverage and food industries</li> <li>• Improved process quality</li> <li>• Increased lifetime of technical facilities</li> <li>• Energy and fresh water savings</li> <li>• Long lifetime of the GTWE membrane modules</li> <li>• Low operating and maintenance costs</li> <li>• Environmentally friendly technology</li> </ul>
Disinfection with chlorine dioxide	Elimination of disease causing germs	<ul style="list-style-type: none"> <li>• Ideal for drinking water and beverage industries</li> <li>• No smells nor changes of taste</li> <li>• Strong and fast disinfecting effect</li> <li>• Elimination of biofilms</li> <li>• Internationally approved disinfectant</li> <li>• No generation of carcinogen trihalomethanes (THMs)</li> <li>• Sustained disinfecting effect in the whole distribution system (up to 48 hours)</li> </ul>
Disinfection with sodium hypochlorite	Elimination of disease causing germs	<ul style="list-style-type: none"> <li>• Ideal for swimming pools, industry and treatment of wastewater</li> <li>• Starting material: cheap common salt tablets</li> <li>• No transport of liquid chemical agents required</li> <li>• Sustained disinfecting effect throughout the whole distribution system</li> <li>• Water conservation</li> </ul>
Disinfection with UV-radiation	Elimination or deactivation of disease causing germs	<ul style="list-style-type: none"> <li>• Secure elimination of germs with uniform and clear water flow</li> <li>• Installation and operation without problems</li> <li>• High economic efficiency</li> <li>• Photochemical elimination of chloramines</li> <li>• No requirement of chemical agents</li> <li>• Environmentally friendly technology</li> </ul>



# Water softening / Hardness stabilization

## Iron and manganese removal

## Elimination of nitrate / heavy metals / phosphates

## Corrosion protection

Groundwater and spring water frequently contains calcium and magnesium ions in high concentration. This is called "hard" water. Furthermore, it often presents a high concentration of iron and manganese ions. These cause persistent spots and discolorations on surfaces and fittings. Moreover, incrustations, wear and corrosion of pipes, technical facilities, heating systems and domestic appliances are enhanced; this may cause high costs.

Water may present high contents of nitrates, especially in agricultural regions. In the human digestive system, nitrates are converted to nitrites, which are very unhealthy and considered carcinogenic. For this reason, drinking water should not contain more than 50 mg/L of nitrates.

The load of water with heavy metals (arsenic, mercury, etc.) may be caused by contamination due to human activities or due to the regional geology. Independently of their cause, heavy metals are highly noxious. For example, drinking water containing arsenic (limit value according to WHO: 10 µg/L) should imperatively be processed before being consumed.

Whether in industry, in the production of food products, in hotels or for drinking water, a non optimum water quality will cause high costs, unsatisfactory results and frequently health problems.

The following GTWE processes allow us to provide the required water quality for every area.

Process	Effect	Advantages
Softening	Removal of calcium and magnesium ions through ion exchange	<ul style="list-style-type: none"> <li>• More pleasant and healthier water for the skin</li> <li>• Increased lifetime of technical facilities and domestic appliances</li> <li>• Improved process quality for industry</li> <li>• Faster cleaning of showers, baths and swimming pools</li> <li>• No incrustations in water taps or bathroom fittings</li> <li>• Reduction of washing, cleaning and scrubbing product requirements</li> <li>• Utilization as boiler feedwater and cooling water</li> </ul>
Removal of iron and manganese	Removal of iron and manganese ions through oxidation and filtration	<ul style="list-style-type: none"> <li>• Avoiding of dark spots on surfaces and clothing</li> <li>• Avoiding of bitter water taste</li> <li>• Längere Lebensdauer technischer Anlagen</li> <li>• Increased lifetime of technical facilities</li> <li>• Improved process quality for industry</li> <li>• Utilization as boiler feedwater and cooling water</li> </ul>
Elimination of nitrates	Removal of nitrate ions through ion exchange	<ul style="list-style-type: none"> <li>• No conversion to carcinogenic nitrites in the human organism</li> </ul>
Elimination of heavy metals	Removal of arsenic, mercury, etc. through special filtering granulate	<ul style="list-style-type: none"> <li>• No burdening with highly toxic and carcinogenic heavy metals</li> </ul>
Elimination of phosphates	Removal of phosphates through special filtering granulate	<ul style="list-style-type: none"> <li>• No burdening through phosphates</li> <li>• Low growth of algae</li> </ul>
Hardness stabilizing Corrosion protection	Dosing of special additives	<ul style="list-style-type: none"> <li>• Avoids furring of pipes</li> <li>• Increased lifetime of technical facilities and domestic appliances</li> <li>• Generation of a corrosion protective layer</li> <li>• Reliable protection against surface corrosion and pitting</li> </ul>

Area of application	Advantages												
	Reduction of infection risk	More satisfied clients, guests and employees	Low furring of pipes, technical plants and fittings	Corrosion protection in pipes and technical plants	Hygienic pipes and plants	Long useful life of technical plants	Reduction of maintenance and cleaning costs	Saving of detergents and cleaning agents	Energy savings	Saving of chemical agents	Fresh water savings	Higher quality of processes and products	Boiler feedwater treatment Cooling water treatment
Hotels / Vacation resorts	●	●	●	●	●	●	●	●	●	●	●	●	●
Restaurants / Cafeterias	●	●	●	●	●	●	●	●					
Swimming pools / Recreation centers	●	●	●	●	●	●	●	●	●	●	●		●
Apartment complexes	●	●	●	●	●	●	●	●	●				●
Office buildings	●	●	●	●	●	●	●	●	●				●
Laundries	●	●	●	●	●	●	●	●	●	●	●	●	●
Manufacturing industry	●	●	●	●	●	●	●	●	●	●	●	●	●
Chemical / Pharmaceutical industry	●	●	●	●	●	●	●	●	●	●	●	●	●
Semiconductor / Solar industry	●	●	●	●	●	●	●	●	●	●	●	●	●
Food / Beverage industry	●	●	●	●	●	●	●	●	●	●	●	●	●
Hospitals / Doctors / Nursing homes	●	●	●	●	●	●	●	●	●	●			●
Kindergartens / Schools / Universities	●	●	●	●	●	●	●	●	●				●
Energy suppliers	●		●	●	●	●	●		●	●	●	●	●
Water suppliers	●	●	●	●	●	●	●			●			
Mobile water conditioning	●	●			●	●				●			

## The adequate water quality for any task

Water quality and characteristics depend on several fix and variable factors (regional geology, industrial contamination, conditions of the water mains, etc.). It frequently does not fulfill the consumers' specific requirements.

Based on your individual needs and on a water analysis, our experienced team of technicians and engineers will find the adequate solution for your situation. We will accompany you as a competent partner during the planning, realization and maintenance of your water treatment system.

### Headquarters

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