



Water Treatment Plants – DWZ250S

Impurities of water can be found in a number of areas. Firstly, in the industrial sector, e. g.

- ▶ Waste water in manufacturing processes, for example of:
 - galvanic or cyanide-containing waste water
 - drilling emulsions
 - waste water from stainless steel pickles
- ▶ Phenols in landfill waste water
- ▶ Legionella in drink water facilities
- ▶ Waste water in swimming pools and other pool systems
- ▶ Waste water from air purification systems
- ▶ Air washer in biogas plants
- ▶ Waste water polluted with radionuclides

But in disaster-stricken locations and in emerging countries water sources are partly also contaminated and can not be used for drinking purposes.

Solution

The mobile and modular designed water treatment plants (e. g. DWZ250S) with different modules for removing solids, organic and inorganic harmful substances are able to work self-sufficient. This enables the worldwide use in different areas – from cleaning of the waste water in the industry and craft industry up to the water treatment crisis zones or in emerging countries. The plant regulates itself autonomously and can be operated by a single person.

The consistent environmental-friendly concept of the plant is reflected by its components.

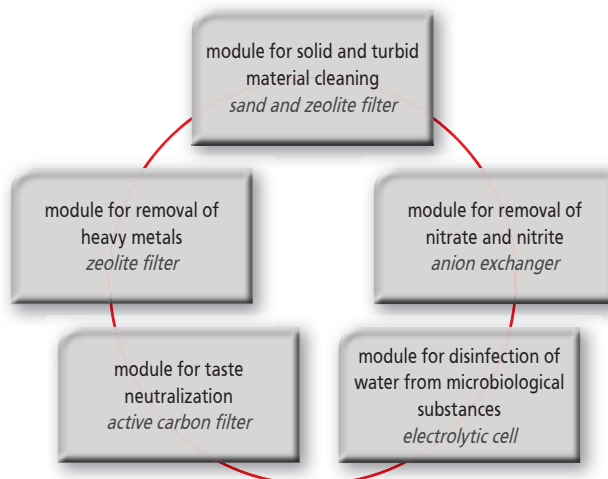
- ▶ A specially created electrolytic cell enables a cleaning process without using any chemical substances.
- ▶ It can be operated by renewable sources or by a power connection.
- ▶ Using renewable material reduces the running costs.



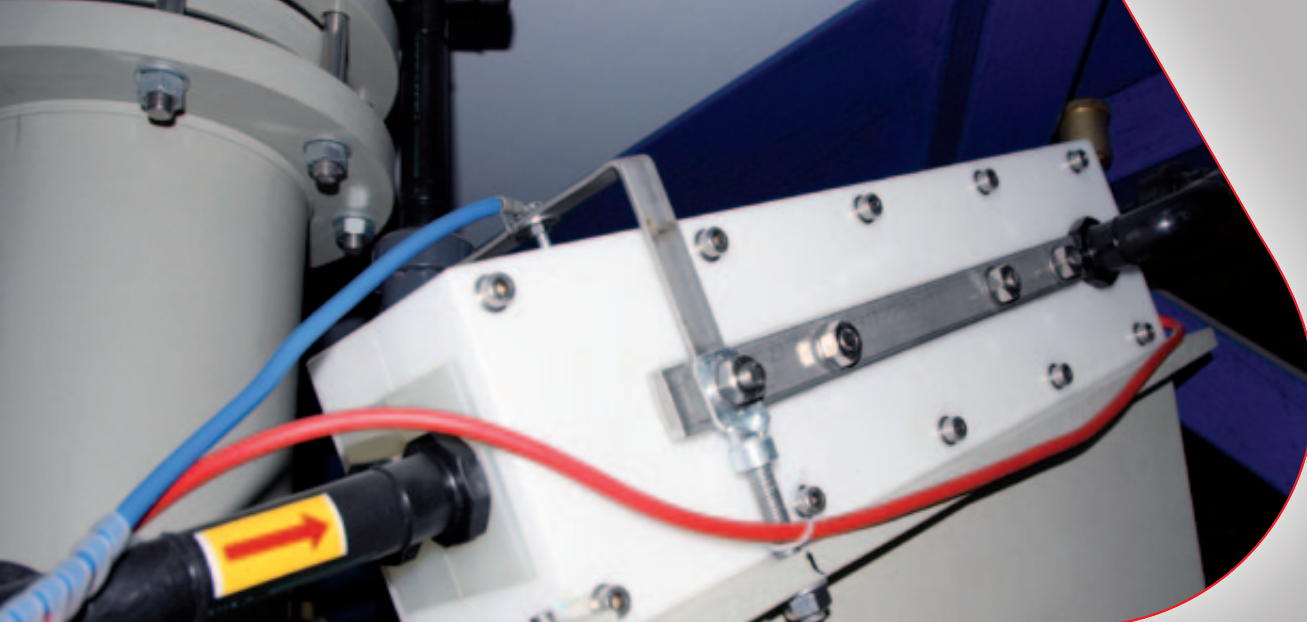
The smaller version of the water treatment plant suits in a handy carrying case. This way it can be used anytime in any places where clean drinking water is needed.

The operating principle

In the DWZ250S are five tanks – a raw water tank, two batch tanks, a water tank for treated water and a tank for the storage of treated water. Depending on the intended use the waste water passes several cleaning steps and modules with the help of an integrated circulation pump:



The Disinfection of water from microbiological substances is performed by a specially-developed electrolytic cell with diamond electrodes. Different versions allow the use in the industrial and private sector.



Advantages

- ▶ Cleaning of waste water up to drinking water quality
- ▶ Removal of numerous organic and inorganic contaminants without chemical additives
- ▶ Operates with solar cells or wind power
- ▶ Saves resources and disposal costs through the treatment of waste water
- ▶ Reduction of expenses through renewable operating materials
- ▶ Protection of the environment and the limited water resources

Kunststofftechnik Weißbach GmbH

For 20 years, the medium-sized family company manufactures customized plastic solutions.

Based on the highly trained professionals as well as the constantly modernized machinery manufacturing could be continuously expanded. Originally specialized in plants and swimming pool applications, the processing of semi-finished plastics to technical parts, vessels and equipment for the manufacturing industry was driven forward.

Today, more than 50 employees produce in Gornau a wide range of components, containers up to complex large-scale systems for machine and plant engineering, medical and environmental technology and the semiconductor industry.

Our own development department is working on innovation and efficiency. This know-how, the internal design office as well as the technically and technologically advanced manufacturing guarantee a comprehensive and high quality service to customers. Also more and more international customers rely from the idea to the finished product „made by KTW“.

▶ Technical Data

Dimensions:	depending on individual demand
Distance of:	emulsions, hydrocarbons (PAHs), colorings, phenols, viruses, bacteria, fungus, hormones, cyanide, acetic acid, legionella
Cleaning Capacity:	up to 1500 l/day (depends on raw water)
Cleaning Tanks:	5 Tanks
Measurement of the Pollution:	through turbidity sensor
Control system:	PLC-Control
Operating:	by 1 Person possible
Energy supply:	by integrated solar modules, by wind power, emergency generator or alternatively by power connection via Input-Socket for 230 V, 50 Hz
Power Input:	2 KW
Protection:	25 A

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