

Climate improvement through energy saving (increased efficiency), Power-to-X, recycling and CO2 reduction with electrochemical processes through our high-current sources EPS/HC

Electrolysis/Water Treatment



Water cooled up to 10000A and 200kW

1) Electrolysis

Water electrolysis is the decomposition of water into hydrogen and oxygen by means of an electric current. The most important application of our electrolysis is the production of hydrogen (H₂)

"Power-to-X" - with the supply of current (power), a product is produced that binds energy, which can be made available again later on demand or is thus used for added value. The "X" stands for the many possibilities to produce substances within the framework of these electrolysis and catalysis processes.

Electrodialysis, a method for separating dissolved substances or substances of different degrees of dispersion by applying an electrical potential gradient. Electrolysis is based on the principle of dialysis. Electrolysis is mainly used for the production of drinking water by desalination of seawater. With this, an electrical potential is built up with our power sources by applying a DC voltage. As a result, desalinated water can be removed from the cells with the salt water inlet.

On the other hand, **chlorine electrolysis** is suitable for drinking and service water (disinfection).

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2) Economical and chemical-free water treatment

When treating your waste water, you need powerful technology. The high-current sources EPS/HC are used here. Our devices work without the addition of chemicals. This saves both disposal costs and protecting the environment.

"We separate what doesn't belong together"

Our equipment cleans waste water and process water quickly and effectively. For this purpose, impurities such as heavy metals are separated by means of the **electrocoagulation** process. The water thus obtained can be described as unpolluted in many areas.

EPS provides tailor-made solutions for all these areas.



EPS/HC 4000-M up to 2200A and 48kW