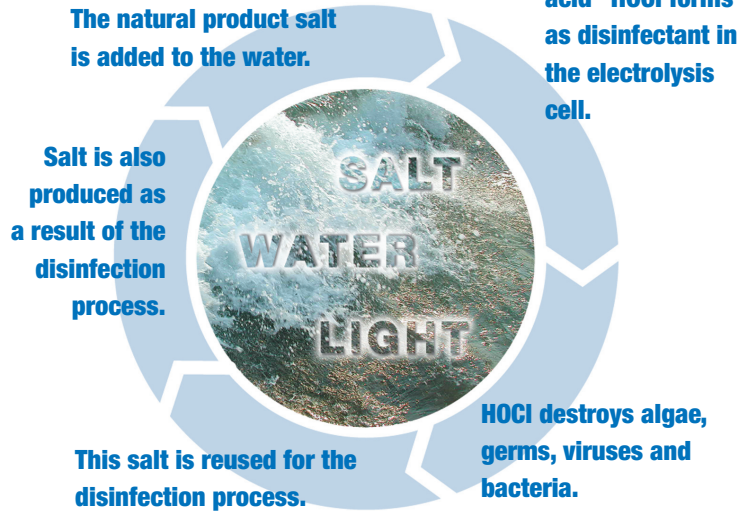


## Principles of operation

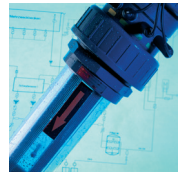


The principle is as follows:

1. The natural product salt (NaCl) is added to the pool water once. Salt concentration from 0.2% upwards, depending on design. The salt dissolves in the water to 40% Na<sup>+</sup> (sodium ions) and 60% Cl<sup>-</sup> (chloride ions).
2. In the electrolysis cell, the electrochemical reaction produces „hypochlorous acid“ (HOCl) as the end-product. The liberated hydrogen is dissipated via the entire surface without causing any danger.
3. HOCl destroys organic substances by oxidation (germs, viruses, algae, bacteria).
4. New salt (NaCl) and water (H<sub>2</sub>O) are produced from the residues (NaOH and HCl). The salt is re-used for the electrolytic process.
5. The entire process is based on demand and unfolds „just in time“. It is controlled by highly precise Lutz-Jesco measurement and control technology, without storage of any chlorine supplies whatsoever.

## The right dose of wellbeing

**Salt - the singular element of the seas  
A feeling of wellbeing on your skin**



## The right dose of wellbeing

### A feeling of wellbeing on your skin

Sparkling, refreshing and healthy:

due to the high concentration of minerals and trace elements in the sea water, a bath in the sea is vitalizing, soothing and relaxing. The stress and hectic pace of everyday life is immediately relieved. That is a quality of life and a joy of living that you can enjoy every single day with the **SALT WATER LIGHT®**.

Mildly enriched with salt, water has a positive effect on irritated or sensitive skin. Your skin does not dry out. This sympathetic effect of the water is particularly appreciated by children as well as by everyone requiring therapy.

As a bath in the sea, the water has a skin softening and tissue strengthening effect. After bathing, the salt particles are gently massaged into the skin by towel drying, thus improving the blood circulation and making your skin feel as soft as velvet. In addition, the salt vapour directly above the surface of the pool water has a positive effect on the respiratory organs.

### The essential difference

The disinfection of swimming pool water is a process that is mandatory for all public pools. The task of disinfection is the prevention of diseases that can be spread by the pool water.

The Technopool process allows for swimming in light salty water. The essential difference in relation to chlorination using commercial chlorine products or on-site generated chlorine bleach is that salt is used to disinfect the pool water.

The Salt may be provided in a variety of forms: as sea salt, rock salt, brine, etc. A low salt content of just 0.2% for producing hypochlorous acid is sufficient to reliably disinfect pool water using the Technopool process. As comparison: The Baltic Sea has a salt content of 1.5%, the Mediterranean Sea has one of 4% and the Dead Sea has a salt content of 26%.

This optimized swimming pool water is called **SALT WATER LIGHT®**. The aim is not to strive for the highest possible concentration of salt in the pool water as it is done at sea water pools and/or brine spas, but to adjust the salt content to a concentration optimal for human beings.

### Ahead of its time

The **SALT WATER LIGHT® process** developed by **Technopool** minimizes the risks and sets standards for the future. In October 2002, Technopool and the Lünen Pool Association were awarded the **5th German Hazard Protection Prize 2002** by the Federal Ministry for Labour and Social Affairs for the development and introduction of this innovative process without any hazardous substances what-soever.

### Advantages for the user

- Soft pool water that is gentle on the skin
- Soothing, revitalizing and relaxing
- Pleasant feeling of swimming in slightly salty water
- Less irritation of the mucosa

### Advantages of the process

- No typical chlorine smell in the swimming pool
- High disinfectant capacity
- German Hazard Protection Prize 2002

### Advantages for the operator

- Accidents involving chlorine are a thing of the past
- No more containers filled with hazardous substances
- No need for comprehensive safety measures for chemicals
- Easy handling and user-friendliness
- Considerably less maintenance effort
- No moving parts (pumps / injection points)
- Existing plants can be retrofitted with little effort
- More cost-efficient than conventional systems
- More visitors to municipal pools
- New standards for the environment