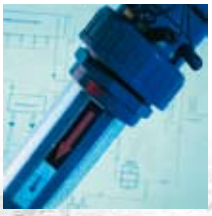
TECHNOPOOL®

The right dose of wellbeing

“SALT WATER LIGHT®” process



SALT | *Use*
WATER | *Disinfect*
LIGHT | *Swim*

The right dose of wellbeing

Give your body and your senses a treat with Technopool

Technopool – a clear decision

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.

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 whatsoever.

Even a small amount of salt is sufficient to disinfect the pool water reliably using the Technopool process.

The range of services includes the conceptual design, production and the sale of systems, equipment and products for disinfecting pool water with the aid of salt water electrolysis. Technopool systems have proven their value for many years in private homes, hotels, therapeutic and exercise pools, as well as municipal and commercial pools, both indoors and outdoors. They are economical, environmentally friendly and easy to operate.

The essential difference

In relation to chlorination using commercial chlorine products or self-made chlorine bleach is that salt is used to disinfect the pool water. This salt can be used in a variety of forms: as sea salt, rock salt, brine, etc. A low salt content of just 0.3% for producing hypochlorous acid is sufficient to reliably disinfect pool water using the Technopool process.

The Technopool process

“SALT WATER LIGHT®”

Principle of operation

Technopool systems are essentially comprised of a control unit and an electrolysis cell.

The principle is as follows:

1. The natural product salt (NaCl) is added to the pool water once. Salt concentration from 0.3% upwards, depending on design. The salt dissolves in the water to 40% Na^+ (sodium ions) and 60% Cl^- (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_2O) 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.

Advantages of the process

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

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 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
- Existing plants can be retrofitted with little effort
- More cost-efficient than conventional systems
- New standards for the environment

The right dose of wellbeing - „SALT - WATER - LIGHT“

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