TECHNOPOOL®

Product Information TECHNOMAT

Flow-through chlorine electrolysis system for swimming baths

Disinfection of bathing water is an essential part of water treatment for swimming pools. With TECHNOMAT, an innovative, high-quality method for medium-sized swimming pools, disinfection can be performed by means of electrolysis.

TECHNOMAT disinfects bathing water without use or storage of any hazardous substances such as chlorine gas, chlorine bleach or chlorine tablets. All chlorine required for disinfection is produced directly on site using common NaCl salt (cooking salt, sea salt, sodium chloride) - no risks whatsoever plus one very pleasant side effect: salted water.

Salted water has a refreshing and invigorating effect and is gentle on the skin too. It is also indicative of the sort of quality of life bathers can enjoy every day with Technopool flow-through chlorine electrolysis systems. The systems operate according to the SALT-WATER-LIGHT® method, the efficiency of which has been proven time and time again in private homes, hotels, therapy and exercise pools and indoor/outdoor municipal or commercial pools around the world.

Versatile and eco-friendly

Salty bathing pool water is essential for the flow-through chlorine electrolysis system method (also known as chlorine electrolysis systems in inline operation). Salt may be used in tablet form as granules, sea salt, rock salt or (natural) brine.

TECHNOMAT requires a salt content of 0.4 %, which corresponds to 4 g per litre or 4 kg per m^3 of bathing water. By comparison, sea water contains about ten times that amount of salt ~3.6 %.

As well as generating the disinfectant hypochlorous acid, the system causes other chemical compounds to be decomposed in the water which reduce contamination of pool water considerably.

The system consists of a control unit and an electrolysis cell installed directly in the pool's water circuit and can be used in any swimming pool providing its components are corrosion-proof and hence designed for use with salt water. Algae, germs and bacteria will then be a thing of the past.

TECHNOMAT is activated via a time switch at regular intervals and/or via measuring and control equipment chosen by the operator (e.g. the EASYPOOL SMART 02 water sampling station) according to water data (chlorine, pH or Redox), which is measured on ongoing basis in the pool water.

Safe and reliable

Flow-through chlorine electrolysis systems are user-friendly and reliable when it comes to operation. Disinfection capacity can also be manually adapted to modified loads of the bathing pool water in 5 continuously adjustable increments between 0 and 100 %.

The systems are extremely low-maintenance but, depending on the water composition, deposits will need to be removed from the electrolysis cell every now and again. Electrolysis cells are wearing parts with a service life of 1 to 5 years and are available in 10 g Cl/h (PS 10) and 15 g Cl/h (PS 20) versions.

Description	Order No.
TECHNOMAT PS 10 Flow-through chlorine electrolysis system for max. 10 g Cl/h, max. 50 m^3 pool volume inc. control unit, electrolysis cell, pipe adapter, external release bridge/connector	91110000
TECHNOMAT PS 20 Flow-through chlorine electrolysis system for max. 15 g Cl/h, max. 75 m^3 pool volume inc. control unit, electrolysis cell, pipe adapter, external release bridge/connector	91110001

In Short

- Disinfection of bathing water without use of any hazardous substances
- System operates using salt - no use of chlorine chemicals
- Safe, economical and environmentally friendly
- Proven in practice, tried and tested many times over
- Simple installation
- Can be activated via measuring and control equipment
- Manually and continuously adjustable power
- Compact design for installation in the smallest of spaces
- Low maintenance
- No reddened eyes, no irritation of the mucosa
- Disinfection can be controlled externally and regulated on site
- For a max. pool volume of 75 m^3
- For indoor and outdoor pools

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

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Product Information TECHNOMAT

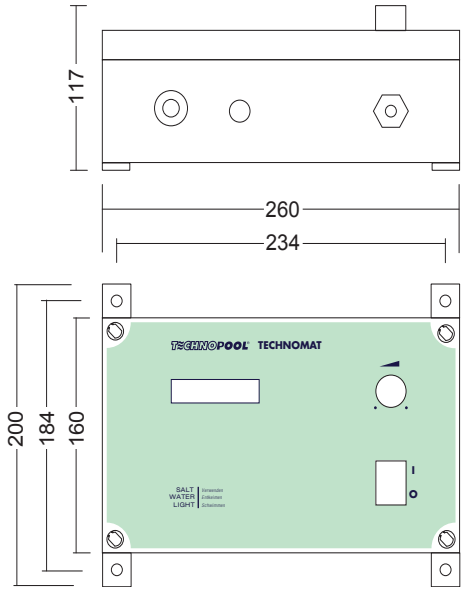
Technical data

TECHNOMAT	PS 10	PS 20
Primary (mains voltage)		
Connection	1.3 m cable with shock-proof plug	
Power supply	230 V AC	
Switch-on current	< 8 A	
Power consumption	< 150 W	
Secondary (electrolysis cell)		
Connection	Standard vehicle socket with cover / 10 m cable with standard vehicle connector	
Power supply	0 … 12 V DC, controllable	
Current	< 12 A	
Other parameters		
Power display	Alphanumeric display of voltage (V) or current (A)	
Control unit protection class	IP 64	
Control unit weight	~3.5 kg	
Electrolysis cell weight	~0.2 kg	~0.4 kg
Disinfectant capacity	< 10 g Cl/h	< 15 g Cl/h
Pool size	< 50 m³	< 75 m³
Salt content	0,4 ... 0,7 %	
Temp. of pool water	15 ... 35 °C	
Nominal pipe diameter	DN 50 / ø63 mm	
External release input	Mini stereo jack plug / measuring and control equipment connection	

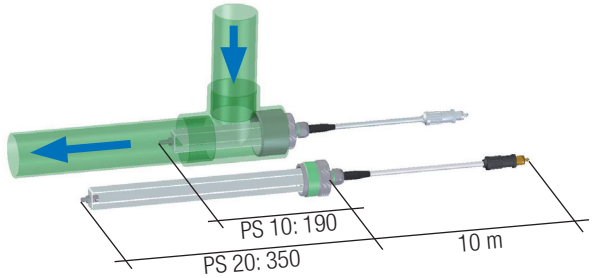
Accessories

Description	Order No.
TECHNOMAT PS 10 electrolysis cell with 10 m connection cable	91910001
TECHNOMAT PS 20 electrolysis cell with 10 m connection cable	91910002
TECHNOMAT PS 10 or PS 20 control unit	91910000
Adapter for pipe installation, ø63 mm (external)	91190001
PVC-T-piece, DN 50, ø63 mm (inside)	88187
Cable for external release for control via measuring and control equipment	35119
EASYPOOL SMART 02 Redox water sampling station	42401008
EASYPOOL SMART 02 chlorine water sampling station	42401011

Dimensioned drawings



Control unit



Electrolysis cell

All dimensions in mm

Infrastructure requirements

- For a max. pool volume of 50 or 75 m³
- Salted water, 0.4 … 0.7 %
- Corrosion-resistant swimming pool equipment
- Water circulation piping, DN 50 PVC pipe
- 230 V AC voltage supply in engineering room
- In-line connection for circulation/filtering system
- Time switch and measuring and control equipment
- Water/salt values with very low percentage of iron and manganese
- Water values after increase of saline content less than 20° dH total hardness

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