

Product information

Electrolysis systems



dinotec
Water & Pool Technology



Membrano EC 80 tank

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Description

Membrano EC tank

Membrane electrolysis system for an electrochemical production of a highly effective disinfection solution with long-term stability.

The disinfection solution is stored in a small intermediate tank, which is used to cover peaks in demand. It is optionally possible to use a larger product tank.

Very simple and clear plant technology.

The chlorine solution is produced continuously and is controlled by the level in the selected product tank. The cathode water flow is controlled, which ensures a constant product concentration. Dosing via an on-site dosing pump, which is controlled via the measuring technology that must be provided by the customer. This ensures a demand-based production of the disinfectant solution. There is no need to install an addition energy-intensive injector with motive water circuit.

With this type of system it is also possible to supply two or more pool systems with one electrolysis system.

There is a minor carryover of salt into the disinfection solution.

The compact system technology and extensive pre-piping and electrical wiring reduce the installation/commissioning in the plant room to a minimum.

Membrano EC control technology

Membrano EC control with plain text display of all operating conditions and control states, including setpoint and actual values of system capacity, flow rates, filling level and operating messages. The control system is based on dinotec BUS technology. The control system records the actuating variables of an on-site measuring system and then controls system output and addition of lye accordingly.

The system can be integrated into the house network via Wi-Fi. When using the dinoAccess app the system can be viewed at any time on your smartphone or tablet.

Membrano EC tank process control:

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The Membrano EC tank has as integrated activated carbon filtration and reverse osmosis for softening the process water. The brine tank is automatically refilled with softened water during the operating phase. The refilling is monitored.

Brine and current values are proportionally controlled via the dinotec Marathon technology; the permeate inflow is controlled and monitored in addition.

The system is controlled via the switch-on and switch-off points of the product tank. The level is measured hydropneumatically.

Technical data**Process engineering**

Power consumption approx. (W)	330
Production output approx. (g/cl ₂ /h)	76
Product concentration approx. (g/Cl ₂ /h)	9
System output	100% (constant)
max. daily output approx. (g/d)	1824
Salt consumption approx. (g/NaCl/h)	177
Salt transfer into the product approx. (g/NaCl/h)	minor
Supply voltage (V/Hz)	230V / 50Hz
Fuse right / left (A)	6.3 A / 0.400
Transport weight (kg)	approx. 47
Space required for wall mounting plate (mm)	(H x W x D) 1030 x 900 x 250
Installation space required (mm)	approx. 500 x 1300
Product capacity (l)	40 l
Water softening system	Reverse osmosis (integrated on mounting plate)
Power unit	integrated on mounting plate

Operating conditions

Connected load	0.3 kVA
Service water	Water quality in accordance with the European Drinking Water Ordinance
Water hardness	max. 20°dH
Drinking water connection	1/2"
Min/Max room temperature (°C)	10 – 32
Service water inlet temperature (°C)	10 – 27
Operating water inlet pressure (bar)	2,5 – 3
System pressure after pressure reducer	approx. 2 bar
Ventilation of the installation room	Air change rate min. 2m ³ /h per m ³ room volume (recommended)
Hydrogen venting	min. d25 continuously increasing leading outwards
Storage temperatures (°C)	5 – 40
Max. humidity (%)	90%, non-condensing
separate operating room	No
Interfaces	WLAN / dinoAccess dinotecNET+ / P20 (Option) Modbus RTU (Option)
Recommended operating resources	Salt quality dinoSolit (approved in accordance with the Biocidal Products Directive)
Channel	min. DN40

All information subject to errors and technical modifications.**Application**

Used for an efficient production of a pH-neutral, highly effective disinfection solution to be added directly to the swimming pool circuit

Safety information

be added directly to the swimming pool circuit.

Local public utilities can stipulate the installation of a backflow preventer, air valve or pipe separator in front of the fresh water connection for the membrane cell electrolysis system.

It is mandatory to use salt to DIN EN 16370 (quality 1) to operate the system. We recommend the use of dinosolit tablet salt, which has been approved according to the EU Biocidal Product Regulation.

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Simply enjoy the best water!