

Product information

Electrolysis systems



dinotec
Water & Pool Technology



Membrano EC 80 direct

Art. no.: 0531-014-00

Description

Membrano EC direct

Membrane electrolysis system for electrochemical production of a pH neutral, highly effective disinfection solution based on hypochlorous acid. The acid capacity is fully preserved in the swimming pool water, no additional calcium carbonate reactor is required.

The product concentration in the disinfection solution of the Membranco EC direct system is adjusted via the dinotec Marathon technology according to the default value (in percent) set in the customer's control and measuring equipment, and is automatically added to the pool circuit via an integrated peristaltic pump. This ensures a demand-based production of the disinfectant solution and a very precise addition. There is no need to install an additional energy-intensive injector with motive water circuit.

Since there is not salt carried over into the disinfection solution, a use in stainless steel pools is possible without any problems even under high loads. The lean brine is neutralized and drained.

The lye produced in the Membrano EC can also be used to correct the pH value. As with the disinfectant solution, this is controlled by the on-site measuring and control technology. An additional lye pump is not required.

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 DIRECT process control:

The Membrano EC direct 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 monitored in addition.

A controlled extraction of disinfection solution from the reactor is ensured by measuring the level in the reactor.

Technical data

Process technology

Power consumption approx. (W)	330
Production output approx. (g/Cl ₂ /h)	76
Product pH value approx. (pH)	pH7
Product concentration approx. (g/Cl ₂ /h)	depending on system capacity
System output	20 – 100% (regulated)
max. daily output approx. (g/d)	1824
Salt consumption approx. (g/NaCl/h)	280 (at 100% system output)
Salt transfer into the product	none
Supply voltage (V/Hz)	230V / 50Hz
Fuse right / left (A)	6.3 A / 0.400
Transport weight (kg)	approx. 52 (plus pumps)
Space required for wall-mounting plate (mm)	(H x W x D) 1030 x 900 x 250
Space required for installation (mm)	approx. 500 x 1300
Product capacity (l)	Production on demand
Water softening system	Reverse osmosis (integrated on mounting plate)
Power section	integrated on mounting plate

Operating conditions

Power consumption	0.3 kVA, 1 x 230V/50Hz
Operating 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
Operating water inlet temperature (°C)	10 – 27
Operating water inlet pressure (bar)	2,5 – 3
System pressure after pressure reducer	approx. 2 bar
Hydrogen dissipation	min. d25 continuously rising leading outwards
Ventilation of the installation room	Air exchange rate min. 2m ³ /h per m ³ room volume (recommended)
Storage temperatures (°C)	5 – 40
Max. humidity (%)	90%, non-condensing
separate operating room	No
Interfaces	Wi-Fi / dinoAccess
Recommended operating supplies	Salt quality dinosolit (approved according to 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

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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Status: 20.06.2026

Simply enjoy the best water!