

DISINFECTION 09/20

# AQUA CHLOR MIX OXIDANT GENERATOR

AQUACHLOR devices Generates a highly effective and safe mixed oxidant solution from water and table salt for disinfecting drinking water, seawater, wastewater, swimming pools, or water fountains, in any place and quantity



## AQUACHLOR SYSTEM – ADVANCED ELECTROCHEMICAL WATER DISINFECTION

The Aquachlor System is an advanced mixed oxidant generation technology that synthesizes a powerful and safe disinfectant from water and table salt using proprietary electrolysis. Unlike conventional chlorine dosing or on-site chlorine generators, this system provides superior disinfection, enhanced biofilm removal, and extended residual stability while reducing chemical byproducts and handling risks.

### TECHNOLOGY SUPERIORITY

The Aquachlor System redefines water disinfection with cutting-edge electrochemical technology, offering unmatched efficiency, safety, and cost savings. Engineered with over 50 years of research and patented innovation from world's leading ECA institute, this system delivers a future-proof solution for sustainable and high-performance water treatment.

## ✓ Technical features

### HIGH-EFFICIENCY DISINFECTION

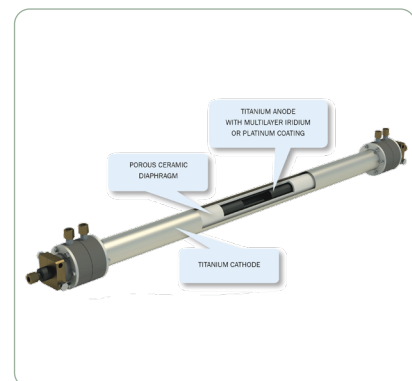
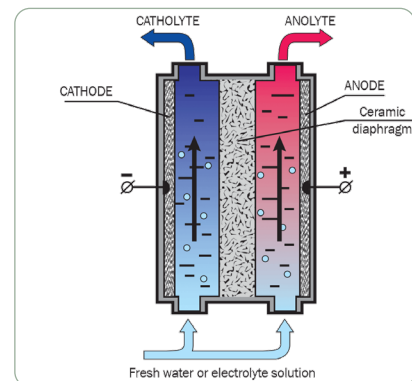
- Generates a mixed oxidant solution with a high biocidal effect, significantly improving microbial inactivation.
- Effectively removes biofilms and pathogens resistant to traditional chlorine-based treatments.
- Ensures long-lasting chlorine retention in water distribution networks, reducing the need for ammonization.
- Multi-system integration facilitates the scalability for municipal, commercial, and industrial applications.
- Prevents pipe corrosion and sludge formation in pipelines and storage tanks.

### ENHANCED SAFETY & COMPLIANCE

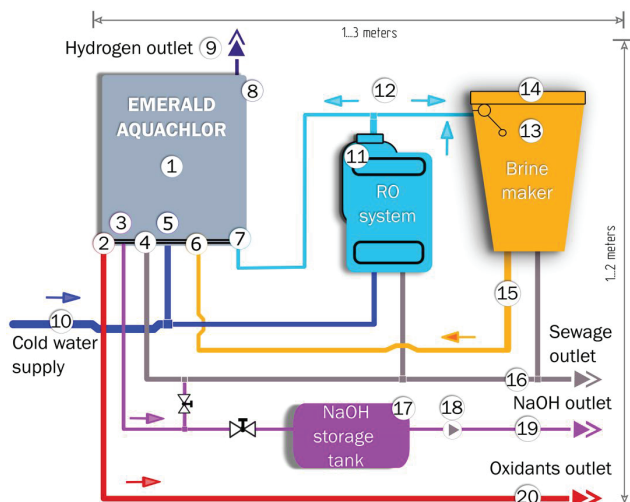
- Eliminates the risks associated with bulk chlorine gas or liquid storage.
- At a concentration of less than 1% FAC it is safer than hand sanitizer.
- All oxidants are dissolved in water, ensuring no airborne chlorine exposure.
- The only system globally that safely eliminates biofilms inside pipes, filters, and storage tanks.
- Certified for drinking water disinfection, meeting global regulatory standards (TÜV Rheinland, NSF, etc.).

### ECO-FRIENDLY & COST-EFFECTIVE

- Reduces chlorine byproducts (THMs, HAAs) and minimizes water treatment chemical consumption.
- Cuts disinfection costs—1.5x cheaper than chlorine gas ( $\text{Cl}_2$ ), 3x cheaper than sodium hypochlorite ( $\text{NaOCl}$ ), and 10x cheaper than UV systems.
- Reduces operational expenses (OPEX) by 50–95%.
- Achieves a 6–36 months Return on Investment (ROI).



## Diagram



### LIST OF MAIN ELEMENTS

1	AQUACHLOR GENERATOR
2	FITTING FOR OXIDANT SOLUTION OUTLET
3	FITTING FOR CAUSTIC SODA (NaOH) SOLUTION OUTLET
4	FITTING FOR SEWAGE OUTLET
5	COOLING WATER INLET FITTING (COLD TAP WATER OR CHILLED WATER)
6	WORKING BRINE SOLUTION (NaCl) INLET FITTING
7	FITTING FOR RO WATER INLET
8	HYDROGEN OUTLET FITTING
9	HYDROGEN OUTLET LINE INTO THE ATMOSPHERE (EXCLUDED)
10	COOLING WATER SUPPLY LINE (customer's responsibility)
11	REVERSE OSMOSIS SYSTEM
12	RO WATER SUPPLY LINE
13	BRINE MAKING TANK (NaCl > 99.6%)
14	SALT (NaCl) LOADING INTO THE BRINE MAKING TANK
15	WORKING BRINE SUPPLY LINE (SATURATED BRINE, NaCl > 25%)
16	SEWAGE OUTLET LINE (customer's responsibility)
17	CAUSTIC SODA STORAGE TANK
18	CAUSTIC SODA EXTERNAL PUMP (customer's responsibility)
19	CAUSTIC SODA SOLUTION OUTLET LINE (EXCLUDED)
20	OXIDANT SOLUTION OUTLET LINE (EXCLUDED)

## Models

CODE	MIXED OXIDANTS CAPACITY (FAC, Cl <sub>2</sub> ), g/h	CAUSTIC SODA CAPACITY (NaOH), L/hr	POWER CONSUMPTION W	TABLE SALT consumption (NaCl), G/ H	DIMENSIONS W X H X D MM	PACKING	WEIGHT KG	VOLUME M <sup>3</sup>
AQUACHLOR-25	25	0.19	120	45	720 x 1030 x 240	1	70	0.86
AQUACHLOR-50	50	0.38	230	90	720 x 1030 x 240	1	80	0.86
AQUACHLOR-65	65	0.49	300	120	600 x 1700 x 600	1	100	0.86
AQUACHLOR-125	125	0.94	500	230	600 x 1700 x 600	1	105	0.86
AQUACHLOR-250	250	1.88	1000	450	600 x 1800 x 800	1	110	0.86
AQUACHLOR-500	500	3.77	2100	900	600 x 1800 x 800	1	120	0.86
AQUACHLOR-750	750	5.65	3100	1350	600 x 2000 x 800	1	130	0.96
AQUACHLOR-1000	1000	7.53	4000	1800	600 x 2000 x 800	1	140	0.96
AQUACHLOR-1500	1500	11.30	6000	2700	600 x 2000 x 1000	1	160	1.20
AQUACHLOR-2000	2000	15.07	7900	3600	600 x 2000 x 1000	1	180	1.20
AQUACHLOR-2500	2500	18.83	10000	4500	600 x 2200 x 1000	1	200	2.03
AQUACHLOR-3000	3000	22.60	12000	5400	600 x 2200 x 1000	1	220	2.03



Your global partner since 1974. Trusted for superior quality and exceptional innovations.



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