

Chloropac® Mini

Compact Marine Growth Prevention System for Superyachts

The Chloropac® MINI is a compact electrochlorination system specifically developed for the superyacht market. Introduced in 2026, it combines over 40 years of proven Chloropac® technology with a space saving design tailored to modern yacht engine rooms.

Designed for demanding superyacht applications, the Chloropac® MINI provides continuous, whole-system marine growth prevention, offering advantages over technologies that rely on more localised treatment methods, such as ultrasonic and sacrificial anode systems.

The system protects the entire cooling water circuit, from seawater intakes and piping to strainers, coolers, heat exchangers and overboard discharge. A controlled, low concentration sodium hypochlorite prevents marine growth before it can establish itself. This keeps the complete cooling water system clean and free from fouling.

How it works

A small sidestream of seawater is continuously diverted from the main cooling water line and passes through the Chloropac® MINI electrolyser. Inside the electrolytic cells, a portion of the naturally dissolved salt is converted into sodium hypochlorite (NaOCl) using advanced platinum-coated titanium electrodes.

The generated sodium hypochlorite solution is immediately returned to the seawater intakes, where it mixes with the incoming seawater. This produces a controlled residual concentration of typically 0.25 ppm, effectively preventing the attachment and growth of marine organisms throughout the entire seawater cooling system.

By eliminating fouling, the Chloropac® MINI helps maintain maximum heat transfer efficiency, reduces maintenance requirements and extends the service life of critical cooling equipment.



Features & Benefits

- Continuous protection against macro and micro marine fouling
- Compact modular design for newbuild and retrofit projects
- Based on more than 40 years of proven Chloropac® technology
- Improved cooling system efficiency
- Automatic output control based on seawater flow rate
- No chemical storage or handling required

Typical Installations

- Superyachts
- Explorer Yachts
- Support Vessels
- Refit Projects
- Newbuilt Projects

Why Choose Chloropac® MINI

- **Continuous Protection Against Marine Growth**

The Chloropac® MINI delivers continuous protection against both micro and macro marine fouling. It controls slime, algae and biofilm while preventing the growth of barnacles, mussels, clams and hydroids. As a result, the entire seawater cooling system remains clean, efficient and fully operational throughout the year.

- **Intelligent and Environmentally Responsible Operation**

The integrated controller automatically adjusts sodium hypochlorite production to meet the yachts cooling water demand. Manual control remains available whenever required. Consequently, the system maintains optimum protection while keeping residual chlorine at overboard discharge close to zero. Furthermore, the process releases no heavy metals or harmful contaminants into the marine environment.

- **Proven Technology with Minimal Maintenance**

The Chloropac® MINI uses premium platinum-coated titanium electrolytic cells to generate sodium hypochlorite directly from natural seawater. Its concentric tube electrode design provides a self-cleaning effect, eliminating the need for routine acid washing. As a result, the system delivers exceptional reliability and supports long-term operation with minimal maintenance.

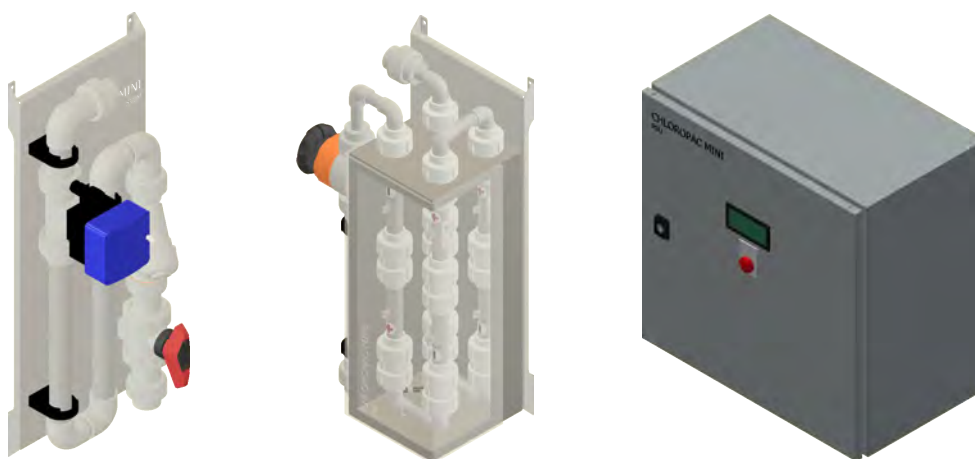
- **Safe, Chemical-Free Operation**

The Chloropac® MINI produces sodium hypochlorite on demand using only seawater and electricity. Therefore, the vessel requires no chemical storage, transport or handling. The generated solution is injected directly into the seawater intakes, providing continuous protection while improving onboard safety and simplifying daily operation.

Chloropac specifications

Model	Nominal rated	Input power	Output voltage	Output amps	Nom. Flow required	Seawater treated to 0.25 ppm	Pressure drops across cell	Power supply			Generator		
								Height	Length	Depth	Height	Length	Depth
	(g/hr)	KVA	DC	DC	(m³/hr)	(m³/hr)	PSI	mm	mm	mm	mm	mm	mm
MLF50-1X02	15-100	0,9	15	50	2,35	60-400	1,8	500	500	314	600	500	230
MLF50-1X04	30-200	1,4	15	50	2,35	120-800	3	500	500	314	600	500	230

Note that all the data above is expressed in nominal values.



Venteville B.V. is the official partner and distributor of Xylem Chloropac® product range.



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