



## **OSEC®-NXT MEMBRANE ELECTROCHLORINATION SYSTEM**

### **WALLACE & TIERNAN® PROCESS TECHNOLOGY**

The series of OSEC®-NXT membrane electrochlorination systems is used for commercial leisure and swimming pool applications as well as potable or industrial water treatment. They provide many safety features when used as an alternative to chlorine gas systems. They are used wherever the handling of chemicals such as chlorine gas, calcium hypochlorite and sodium hypochlorite should be avoided. Only saturated brine and softened water are needed for the redeveloped electrolyzer process which safely and efficiently produces hypochlorite on-site. The optimized efficiency of the electrolyzer cells leads to a minimum demand for brine and power. In the membrane electrolysis process, a fresh, low-chloride and low-chlorate sodium hypochlorite solution is prepared, containing about 25 g/l chlorine.

The use of softened water avoids limescale deposits and allows a long membrane life.

All components for the electrolyzer process, the controller and the water softener, are skid mounted for easy installation while maintaining a small foot print. In addition, the lower capacity systems up to 6 kg (13 lb) per day contain integrated tanks for brine and sodium hypochlorite. Due to their small width of just 80.5 cm, the systems fit through most standard doors.

### **Benefits:**

- High efficiency by optimized and continuous conversion from brine to sodium hypochlorite solution
- Long life system through optimized production and integrated capacity control
- High product quality by avoiding undesirable by-products (chloride, chlorate)
- High operating safety, just requiring salt and water
- User-friendly touch panel control
- Skid mounted system for easy installation

## APPLICATIONS

- Disinfection of swimming pool water
- Disinfection of potable water
- Disinfection of process water in different industries (food & beverage, cooling water and animal breeding)

## FEATURES

- Prevention of unwanted by-products:
  - Due to need-based production with integrated power control and cooling always fresh sodium hypochlorite solution is prepared.
  - Due to the membrane process the salt is completely converted.
- Innovative user interface:
  - The system can be operated fully automatically. The key features and messages are displayed on the large SIMATIC touch panel.
- Dosing in multiple points of injection possible
  - By using a central product tank multiple points of injection can get connected/different consumers or water cycles can be disinfected.



OSEC®-NXT SYSTEM FOR UP TO 6 KG CL<sub>2</sub>/DAY

## TECHNICAL DATA

Capacity Cl <sub>2</sub> /day	Dimensions W x H x D	Weight
6 kg/13.2 lbs	1200 x 1895 x 750 mm/ 47.2 x 74.6 x 29.5"	448 kg/987 lbs
12kg/26.5 lbs	1200 x 1895 x 805 mm 47.2 x 74.6 x 31.7"	340 kg/750 lbs
24 kg/52.9 lbs		390 kg/860 lbs
36 kg/79.4 lbs	1500 x 1895 x 805 mm 59.1 x 74.6 x 31.7"	440 kg/970 lbs
48 kg/105.8 lbs		490 kg/1080 lbs
60 kg/132.2 lbs	1800 x 1895 x 805 mm/ 70.9 x 74.6 x 31.7"	550 kg/1213 lbs

FOR EACH MODEL A DETAILED DATA SHEET IS AVAILABLE.



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