SPRING DISINFECTANT GENERATOR

- Fully Automated System
- Always Available Chlorine
- Consistent Concentration
- Reduced Logistics
- Low Operating Cost
- Completely Safe

AQUA RESEARCH

The SPRING® Disinfectant Generator is a fully automated system that converts a saltwater solution to a chlorine-based liquid solution. The system comes with a chlorine storage tank with a high/low level switch and automatically stops and starts to keep the chlorine storage tank full. The disinfectant generated by the SPRING® is ideal for industrial applications like cooling towers or food and beverage process lines, surface sanitation at healthcare facilities, or drinking water treatment.

	SPRING MOS 1.3	SPRING MOS 2.6
Capacity	1.3 PPD FAC (0.6 kg/day)	2.6 PPD FAC (1.2 kg/day)
Power	110/220 VAC, 1 ph, 50/60 hz, 2A, or 12VDC at 20A	110/220 VAC, 1 ph, 50/60 hz, 2A, or 15VDC at 20A
Flow Rate	1.3 GPH (4.9 LPH)	2.6 GPH (9.8 LPH)
FAC Concentration	5,000 mg/L	
Feed Water Temp	>50°F <86°F (>10°C >30°)	
Feed Water Pressure	10 psi (69 kPa) (RO softening) 15 psi (103 kPa) (IX softening)	
Size (Top Panel) Size (RO Panel)	18 x 24 x 9 in (0.46 x 0.61 x 0.23 m) 18 x 21 x 9 in (0.46 x 0.53 x 0.23 m)	
Weight (Top Panel) Weight (RO Panel)	26 lbs (12 kg) 20 lbs (9 kg)	28 lbs (13 kg) 20 lbs (9 kg)



Makes up to 2.6 lbs (1.2 kgs) of chlorine daily, using up to 8 lbs (3.5 kgs) of salt and up to 12 kw-hrs of power.

- Treats up to 120,000 gallons (460 m^3) of drinking water per day at a 2.5 mg/L chlorine dose
- Provides up to 60 gallons (230 L) of liquid chlorine per day – 'ready to use,' at 5,000 mg/L FAC as recommended by WHO for highly contaminated medical settings.

- Runs on 110/ 220 VAC, single phase 2A/1A or on DC power (12VDC or 15VDC).
- Includes a 36-gallon (136-liter) brine generation system.
- Includes a 36-gallon (136-liter) chlorine storage tank with high/low level switches.
- Components are mounted on a ½" PVC back panel that can be attached to 16" center studs or an aluminum frame.

TREAT UP TO 120,000 GALLONS (460 M^3) OF WATER PER DAY OR MAKE UP TO 60 GALS (230 L) OF DISINFECTANT AUTOMATICALLY, CONSUMING ONLY SALT, ELECTRICITY, AND WATER.

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Options and Pricing:
The system can be ordered in many configurations, as shown in the table below. Pricing will vary on which system option is chosen. For more information on specific pricing, please contact us.

System Chlorine Options:
There are two system configurations, both with complete control systems:

- The Mixed-Oxidant Solution (MOS) configuration produces 1.3 to 2.6 PPD (0.6 to 1.2 kg/day) free available chlorine (FAC) at approximately 5,000 mg/L concentration.
- The Sodium Hypochlorite (HYPO) configuration produces 2.0 PPD (0.9 kg/day) free available chlorine at approximately 6,000 mg/l concentration.

Mixed oxidants are a proprietary combination of sodium hypochlorite solution (i.e., chlorine bleach) and small amounts of hydrogen peroxide. This powerful mixed-oxidant combination kills all microorganisms, including viruses, bacteria, and protozoa, and removes biofilms in distribution systems, thereby eliminating water and airborne threats such as *Legionella*. Standard chlorine measurement methods can be used to measure the chlorine concentration in water treatment or sanitation applications. The mixed-oxidant solution is produced at the chlorine concentration recommended by WHO for cleaning highly contaminated medical settings.

Tanks
The system can be purchased with complete tank assemblies or only the tank components to save on shipping, The tank components include an oxidant level switch, a brine float valve, and a spray ring.

MOS: Up to 2.6 PPD (1.2 kg/day)	COMPLETE TANK ASSEMBLIES	IX	MOS system, complete tank assemblies, IX softener	1
		RO	MOS system, complete tank assemblies, RO softener	2
		---	MOS system, complete tank assemblies, no softener	3
	TANK COMPONENS ONLY	IX	MOS system, tank components, IX softener	4
		RO	MOS system, tank components, RO softener	5
		---	MOS system, tank components, no softener	6
HYPO: 2 PPD (0.9 kg/day)	COMPLETE TANK ASSEMBLIES	IX	HYPO system, complete tank assemblies, IX softener	7
		RO	HYPO system, complete tank assemblies, RO softener	8
		---	HYPO system, complete tank assemblies, no softener	9
	TANK COMPONENTS ONLY	IX	HYPO system, tank components, IX softener	10
		RO	HYPO System, tank components, RO softener	11
		---	HYPO system, tank components, no softener	12

Water Softening
The system can be equipped with water softening to address the use of hard water, such as borehole water. Water softening dramatically reduces the need to acid clean the cell to remove carbonate scale, which typically allows the system to run for months with little maintenance. Customers can choose between reverse osmosis (RO) or ion exchange (IX) water softening. The RO softening configuration is less expensive than the IX water softener, but it requires periodic filter replacement -- typically once a year, depending on source water quality.

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