

Commercial Salt-water Chlorination Systems



made in australia since 1980

The SM250 is designed to cater to large commercial pool installations and is able to generate ~250grams an hour of active chlorine (Sodium Hypo-Chloride). Designed to be modular, systems are put together incorporating 2,3 & 4 SM250 units to service pools between 300,000 and 3,000,000 litres.



Commercial installations are individually designed and made-to-order. This allows for individual requirements to be catered to including pump-room size restrictions. This system includes a stand-alone semi-automatic acid wash unit to allow for easy and safe cell cleaning.

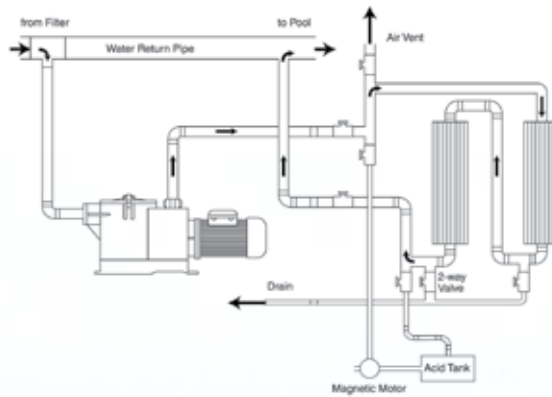
Saltmaster salt-water chlorination systems are the safest and most economical method of sterilizing large-scale commercial swimming pools.



• *Never add Chlorine again* •

Commercial System Technical Specifications

MODEL		SM250
TYPE		Commercial Salt-water Chlorination System
COMPOSITION OF SYSTEM		- Wall mounted power supply- 1; Cells- 1; Wall mounted frame for cell units including piping, fittings and valves; - Stand-alone Acid Wash Unit. This entails acid tank & pump.
SYSTEM PRODUCTION AND CONSUMPTION	Chlorine Production	250 grams/hour
	Power Consumption	1200 watts
RECOMMENDED WATER CONDITIONING		These systems utilize salt in the water to perform the sanitizing process but do not consume salt. Salt concentration can vary between 3,000 ppm and 4,500 ppm. These levels will only change when fresh water is added, for example, if it rains or, through backwashing the system. In either instance, salt should be added to regain the optimum concentration. Optimum conditions for user and operation require the following pool characteristics: Total Alkalinity 90-120ppm; Ph 7.2-7.6; Chlorine Stabilizer (Isocynuric Acid) 50-80 ppm.
TYPICAL WATER TREATMENT CAPACITY		< 500,000 litres
POWER SUPPLY SPECIFICATION:	Supply Specification	Primary Input: Voltage: 100-240 V AC; Current: 20 Amps. Secondary Output: Voltage: 24 V DC; Current: 63 Amps Max Total Power: 1500 Watt
	Dimensions	Power Supply: 600mm x 600mm x 400mm; Cells & Mounting Frame: 1500mmx1500mmx600mm; Acid Wash Unit: 1200mmx700mmx600mm
	Display and Controls	Switches: Mains power On, Cell On, Acid Pump (for starting acid wash operation). Displays: Current Output for each cell. Lamp indicators: Main Power, No Flow, Cell operation.
CELL SPECIFICATION	Cell Material	Mono-polar EC300 electrode.
	Plumbing	Cell are integrated into a single wall mounted unit which include: Flanges for easy connection to filtration system; Valves for isolating unit from filtration system; Valves connecting unit to acid wash unit. Generally, cell unit are connected in a bypass configuration in line with a 1.5 – 2 HP pump. All Pipes, fittings & Valves are all industrial grade PVC or CPVC and have been tested to 500kPa. Cells are made from Acrylic for easy inspection.
	Cell Cleaning	Semi-automatic acid wash system.
	Recommended Water Flow	Minimum Flow = 10 litres/second
PROTECTION SYSTEMS		Primary Protection: Current/Voltage Regulation; Circuit Breakers; Phase Failure Circuit (3 phase); Water flow cut-off detection system. Secondary Protection: Constant Voltage Control; Current Limiting; Gas build-up avoidance via careful placement of unit along water return lines.
MAINTENANCE		Periodic cell cleaning should between 5 – 10 weeks, subject to local conditions. Cell material replacement is estimated to be required every 5 years. Refurbishment of cell can be done at a reduced cost.
WARRANTIES		Wall mounted power supply- 2 years; Cells - 2 years
APPROVALS		RoHS  N4227 



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