Owners Manual

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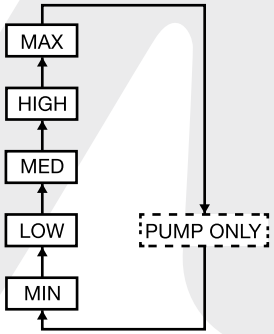


CHLORINE PRODUCTION

PRESSING CHLORINE PRODUCTION CONTROL BUTTON WILL CYCLE THROUGH THE CHLORINE PRODUCTION LEVEL AND PUMP ONLY FUNCTION

ALARMS

Hydrochlor MK3 includes alarm signals to indicate potential problems associated with its functionality and to protect the control unit/electrolytic cell. The chlorine production LEDs will blink/lit or change the colour to indicate the correspondent situation.

- **Low Chlorine Production Level LED blinking:** Salt level is below the minimum allowed, please add salt to pool. Consult your pool professional how to increase the salt level. This condition may affect the longevity of the cell and void its warranty.
- **High Chlorine Production Level LED blinking:** Salt level is moderately above the maximum operational level. It needs to be reduced below the maximum recommended. Consult your pool professional how to reduce the salt level. This condition may affect the longevity of the cell and void its warranty.
- **Max Chlorine Production Level LED Amber:** Salt level is too high. The control unit will stop the chlorine production until it's reduced below the maximum recommended. Consult your pool professional how to reduce the salt level.
- **No Water Flow:** The flow sensor is not detecting water flowing through the cell housing. Control Unit will stop chlorine production and power to pool pump. Please refer to trouble shooting guide or consult your pool professional.

WATER CHEMISTRY

Salt Level

The Hydrochlor MK3 chlorinators must operate between the salt level ranges listed below.

• MINIMUM = 4000 TDS • OPTIMUM = 5500 TDS • MAXIMUM = 6000 TDS

Testing kits are available from the local pool professional and should be used to accurately check the salt level in the pool water.

INSTALLATION

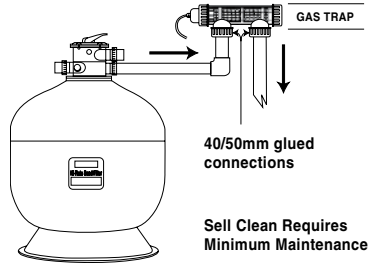
These guidelines should be followed to install the Hydrochlor MK3:

a. Ensure that the electrolytic cell is the last piece of equipment installed on the filtration system – this is so the chlorine produced will not damage other equipments such as heaters.

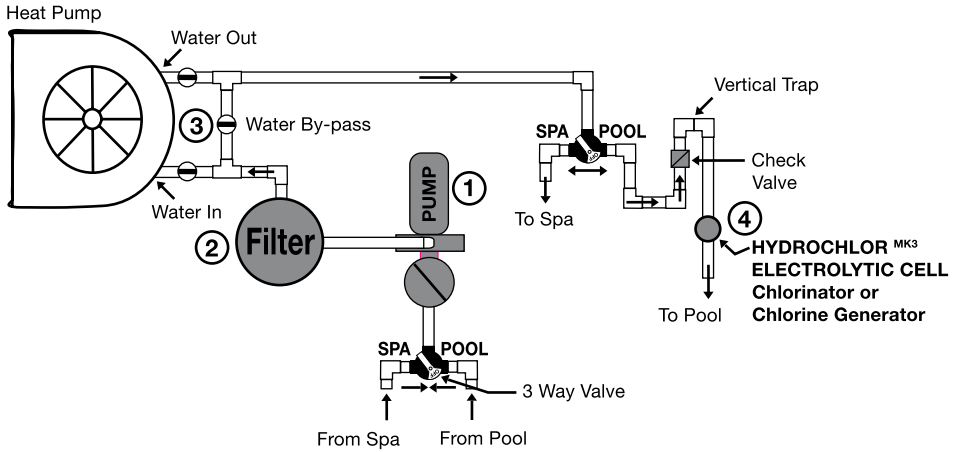
b. The electrolytic cell may be installed above or below water level. If it is below water level, please ensure that an isolation valve is installed so the unit can be serviced without losing water from the pool.

c. The cell may be mounted on different angles so long as a gas trap is provided.

GAS TRAP: The cell must be positioned in such a way as to provide a gas trap. The bottom of the cell must be above the top surface of the pipe from the previous piece of equipment, as per the below diagram.



PLUMBING DIAGRAM



Installing the Control Unit

Choose a location for the Control Unit close enough to the Cell/Housing and filtration pump so that both may be connected/disconnected easily. The Control Unit should not be mounted in areas where chemicals are stored (e.g. acid and chlorine). Also ensure the Control Unit can be connected to the mains power outlet of the pool area. Note that this outlet must meet the current applicable local standards at the time of installation.

The PUMP socket outlet in the base of the Control Unit is dedicated to the filtration pump only. Do not use a double adaptor to connect another pump as this will overload the system and void warranty.

SYMPTOM	POSSIBLE CAUSE	REMEDY
Not keeping time	Time clock setting, power outage	Make sure battery have been charged for a least 48hrs to achieve max capacity
	Electrical fault	Return to distributor for repair
All LEDs blinking	Electrical fault	Return to distributor for repair
No chlorine production	Control unit set to pump only	Press Chlorine Production button to set the desired level
	Time Switch in OFF position	Set Time Switch to ON or AUTO position
Pump not working	Pump not connected to pump socket outlet	Plug pump lead to Pump Socket outlet
	No flow detected	Check pool water level Check position of multiport valve Check connection of flow sensor pin

TECHNICAL SPECIFICATIONS

Power Unit

Input	220-240V AC
Frequency	50/60 Hz
Current	1.6 A
Socket Outlet	220-240V AC
Maximum Current Output	8A
Minimum Salt Level	4000 TDS
Maximum Salt Level	6000 TDS
Type of Salt	Standard Pool Salt/ Mineral Salt

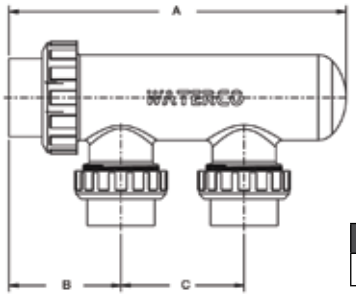
Waterco Salt Cell

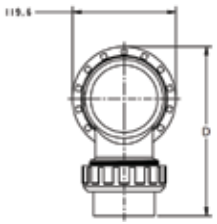
Input	20V DC
Maximum Current Output	6A DC

Recommended Pool Sizes

Waterco Salt Cell	Chlorine Production (g/hr)	Max Pool Size/ Climate	
		Temperate	Tropical
Series 2000	20	60,000	48,000
Series 2500	25	80,000	60,000
Series 3000	30	100,000	72,000

Cell Housing dimensions





A (mm)	B (mm)	C (mm)	D (mm)
370.0	136.5	280.0	188.8

What's In the Box?

- Hydrochlor MK3 Control Unit
- Manual Warranty Booklet

NOTE: If bought as Salt Water Chlorinator unit, the electrolytic cell is provided in a separate carton.

FEATURES

Chlorine Generation

Through the process of electrolysis, a saline solution pass over an electrolytic cell, then the saline solution is separated into its basic components: chlorine and sodium. The chlorine is instantaneously transformed into hypochlorous acid; this the chlorine form that kills algae and other harmful organism in the water.

A chlorine generator's main function is to produce chlorine for the pool. This keeps a residual of chlorine in the pool that prevents algae and bacteria from growing. The chlorine then turns back into salt and the system continues as long as the generator is functioning properly.

Consistently maintained sanitizer levels in the pool water will prevent the growth of all common algae and bacteria. A salt-water chlorinated pool requires much less attention than a chlorine pool.

HYDROCHLOR MK3

Hydrochlor consists of a Control Unit (power supply)with a built in timer (Time Switch) and a electrolytic salt cell (where the chlorine is produced).

Hydrochlor Control Unit

The Control Unit monitors and regulates chlorine production by regulating the amount of electrical energy supplied to the electrolytic salt cell.

Time Switch

The Time Switch controls power to the pump and electrolytic cell. It can be programmed to turn "ON" or "OFF" at any time that suits your lifestyle.

Time Switch