

SMC Salt Electrochlorinators

SMC 75 SMC 100 SMC 150

INSTALLATION QUICK GUIDE



IMPORTANT:

- The chlorinator should be connected imperatively to a power earth .



- The appliance must be imperatively protected by a 30 Ma differential bracket .

- Only authorized technician should open the control panel. Hazard voltage 220VAC.

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1. Components

The packaging of the chlorinator will find the following:

1. Control Unit. Includes control unit and power. Includes two blue cables for the cell, a blue 220VAC External control cable, a grey wire with the flow switch and black cord with plug 220VAC grounded.
2. Housing cell with two pipe fittings 63 mm installed
- 3.. Cassette methacrylate electrodes and connectors with O-ring
4. Housing sealing ring
5. T for flow switch

2. Hydraulics Installation

2.1 Housing and cassette electrode.

Install the housing cell imperatively upright and on a three-valve bypass so that you can control the flow and remove the cell or close it if necessary without interrupting operation of the treatment plant. Enter the matching electrode cassette lateral opening with the side arm of the housing. Make sure the rubber seal is in its housing and apply vaseline on it if it were not sufficiently lubricated. Press the top of the electrode cassette until it stops with the housing.

Place the sealing ring ensuring that the cassette is fully inserted into its housing.

When necessary tight the terminals of the cell by hand. If you use a tool, do it very carefully because using too little force may damage the cassette and the electrodes.

2.2.FlowSwitch

Install the T-shaped sleeve to the switch after the lateral flow of the glass tube so that the switch is vertical. Enter the switch to the T and make sure your board is in the housing. Tight the screw so that the arrow sealed on the switch pointer matches the direction of the water flow into the pipe.

2.3 Pump Comissioning

When starting the pump for the first time, open the bypass valve carefully to avoid over pressure in the cell. Keep fully open the main valve and open then slowly bypass until fully open. Finally, close partially and carefully the central valve until you have a uniform and moderate flow cell. You can eliminate the air in the detector cell flow loosening slightly.

3. Control unit installation.

Mount the control panel on the wall using their upper brackets. The control unit should be imperatively upright. Choose a location away from sources of heat, protected from water leaks or moisture and with air circulation. Use according anchors sufficiently resistant depending the wall material.

4. Electrical connections

4.1 Mains power

Connect the black power cord to an outlet 220VA with properly power earth and protected IMPERATIVELY by a diferencial bracket. DO NOT connect the black cable to the output of the pump contactors or filtration system timer. The voltage of the power cord must NOT be stopped based on filtration cycles. Disconnect only if you will not use the device or in case of failure.

4.2 Control Lead

Connect the blue wire external control contactors 220 VAC pump, filtration timer or any device used to control the chlorinator by 220 VAC (can ask INNOWATER other control if desired). **This lead should never be operated if the pump is not running.**

4.3 Cell leads

The lead connectors are connected to cell terminals of the top of the electrode cassette. Each connector should go on a pair of terminals of the same electrode. To avoid confusion sure both terminals fully penetrate into the two holes of the connector (the center hole of the connector is not used).

Models with two cell leads: SMC 50 y SMC 75

Connect each connector to a pair of terminals. Each connector can go either left or right.

Models with four cell leads: SMC 100 y SMC 150

Connect the two connectors on the two fine pairs of central terminals and connectors in two thick pairs of side terminals. Each fine connector can go , either on one or the other pair of power terminals. Similarly, each thick connector can go in a couple of right or left lateral side terminals. The only requirement is that the thin connectors go in the center and thicker at the sides (thick connectors do not fit together in the central terminals). Make sure both terminals of each pair penetrate well into the connector holes to avoid confusion (the center hole of the connector is not used).

5. Chlorinator Operation

5.1 ON/OFF

To turn ON the unit press for two seconds the MENU button - ON / OFF. At the top of the display will indicate: ON. You can adjust the production rate using the ↑ or ↓. There is an adjustable minimum production (usually 40%) to prevent cell work outside their range of optimal performance.

To turn OFF the appliance press from the home screen -on/off the MENU button for two seconds until the top of the screen indicating: OFF. If you were not in the main screen, you can always return to it by pressing the MENU key repeatedly.

When the chlorinator has been turned ON, the production of chlorine is activated or stopped depending on the signal received by your blue wire 220VAC external control and whose status is displayed on the main screen to the right of the display Cext . When this wire receives a voltage of 220VAC the Cext signal is ON. When the lead do not receive power the Cext signal is OFF. For the cell to produce chlorine chlorinator must be ON and active Cext signal (ON). If Cext is OFF (cable off) production ceases and the message "CONTROL EXT appears. OFF "at the bottom of the screen. As soon as the production Cext signal ON restarts normally the chlorine production.

5.2 Indicaciones de pantalla.

Además de los estados **ON/OFF** y el nivel de producción ajustado, la pantalla principal del aparato muestra ciertos parámetros de funcionamiento. En general, usted no necesitará prestarles atención a menos que el servicio técnico se lo requiera.

Display messages:

CONTROL EXT. OFF

Cext signal is OFF (no voltage control cable) and the chlorinator is waiting to go to ON to resume production

NO WATER FLOW

The FLOW switch does not detect water flow and the production has been stopped. Press OK to confirm the prompt. The chlorinator will go OFF. Flow: On the main screen the status of the flow switch is shown. You can return the ON chlorinator once water flow is restored.

LOW SALT

The estimated concentration of salt is lower than normal. The chlorinator production continues normally. This indication can also appear if the water is too cold, or if the electrodes are worn or have calcium built-up.

INSUFFICIENT SALT

The salt concentration is too low and estimated chlorine production stops to prevent damage to the cell. This indication can also occur if there is a bad connection of the cell. Press OK to confirm the message. The chlorinator will go OFF.

PAUSE 04:54

When the unit is making a reverse polarity is paused and the remaining time is displayed on the screen.

6. Display Menu

To access the menus, press the MENU key, scroll ↑ or ↓ arrows and confirm with the OK button to enter its respective menu. Within each submenu or use the arrows ↑ ↓ to change the parameter to change parameter MENU and OK to save changes and exit. Use after MENU to get to the main screen.

6.1 Functions menu

6.1.1 Polarity period setting

The polarity applied to the cell is periodically reversed to remove calcium built-up. The factory pre-programmed period is every 8 hours. Depending on the conditions of your pool may be necessary to reduce this period to increase the frequency of cleaning. Note that the lower this period will reduce the duration of the cell. A period of less than 4 hours drastically reduce the life of the cell. Inversely, your pool may need less frequent cleaning and increase the length factory. We recommend, in general, to set this period to the larger number of hours as long as there is not calcium build-up on the electrodes. Select the period of polarity by the Λ or V arrows and press OK to confirm and save the setting or MENU to exit.

When the polarity change occurs, the device goes into standby mode for a while, that you can select. The recommendation is 5 min. During the pause period "5:00 PAUSE" is displayed at the top of the screen.

6.1.2 Production

This menú is not used.

6.1.3 Language

Select language and press **OK**.

6.1.4. Contrast

This menu is not used. To always adjust the contrast, even when their mismatch not allows to read the display, we include a potentiometer marked "CONTRAST". Turn slowly with a screwdriver until the desired contrast is selected.

6.1.5. Measurements

This read-only screen provides the package that makes the chlorinator. These values may be required by the technical service.

6.1.6. Control 4-20 mA

Turns on/off 4-20 mA

6.1.7. Ajuste de pH

This menu is used according to the instructions accompanying the pH option

6.2 State Menu

This read-only screen provides status information chlorinator that may be required by the technical service.

6.3. Programation Menu

To access the submenus may be required programming a password. In any case DO NOT ACCESSIBLE TO THIS MENU OR CHANGE ANY OF ITS PARAMETERS. Any changes will reset the unit and may cause a malfunction of the safety systems.

7. Warnings



- Do not operate the chlorinator without proper power earth
- Do not operate the chlorinator if it is not protected by an differential bracket
- Check that the sealing ring of the cell is properly installed before starting the pump
- No access to the programming menu or try to change any settings
- Keep the area of the terminals of the cell completely dry. Moisture can corrode quickly and create a short circuit.
- Never inject acid before the electrolytic cell. The electrodes suffer damage due to corrosion that would negate your warranty
- Never operate the chlorinator with the pump stopped or insufficient flow
- Disconnect the chlorinator during back-washing
- Do not operate the chlorinator with the water below 15 ° C

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