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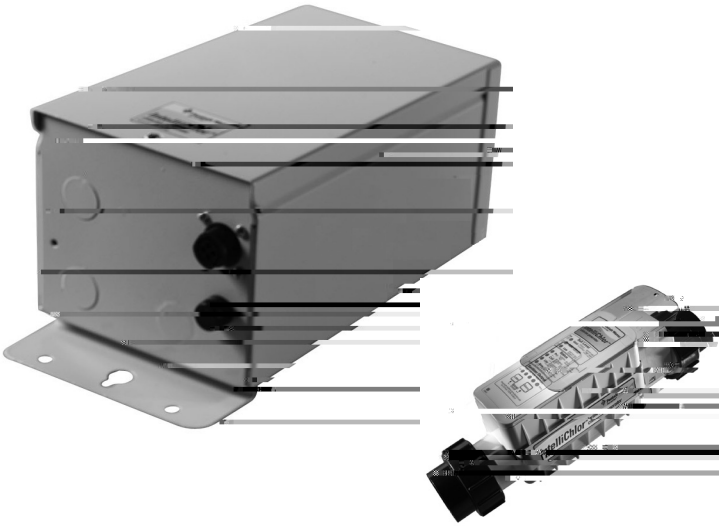
FOR USE WITH INTELLICHLOR CHLORINE GENERATOR MODELS IC20, IC40 & IC60P



INSTALLATION AND USER'S GUIDE

IMPORTANT SAFETY INSTRUCTIONS
READ AND FOLLOW ALL INSTRUCTIONS
SAVE THESE INSTRUCTIONS

Technical Support

, , (8 A.M. to 4:30 P.M. ET)
, (8 A.M. to 4:30 P.M. PT)
(800) 831-7133

Most states and local codes regulate the construction, installation, and operation of public pools and spas, and the construction of residential pools and spas. It is important to comply with these codes, many of which directly regulate the installation and use of this product. Consult your local building and health codes for more information. **B**

An IntelliChlor Salt Chlorinator system consists of one or more of the following:

- **100 (/ 52055)** Power Center Kit. Provides power and control communication to and from the IntelliChlor cell.
- **20 (/ 520554)** Designed for pools up to 20,000 U.S. gallons (75,000 liters). The cell will produce the equivalent of 0.70 lbs. of pure chlorine per 24 hours of continuous pool pump run time.
- **40 (/ 520555)** Designed for pools up to 40,000 U.S. gallons (150,000 liters). The cell will produce the equivalent of 1.40 lbs. of pure chlorine per 24 hours of continuous pool pump run time.
- **0 (/ 521105)** Designed for pools up to 60,000 U.S. gallons (227,124 liters). The cell will produce the equivalent of 2 lbs. of pure chlorine per 24 hours of continuous pool pump run time.
- **(/ 5205)** For new pool start-up.

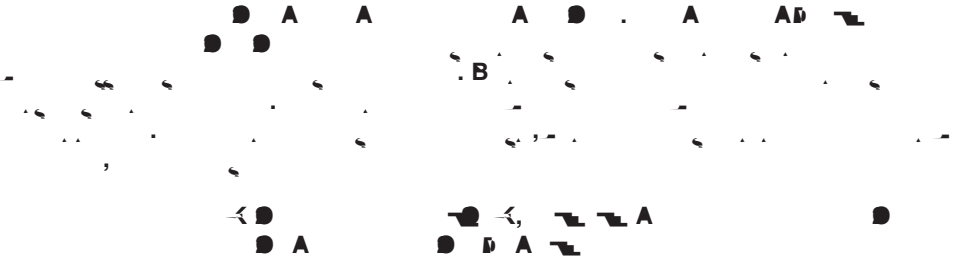
The Association of Pool and Spa Professionals (APSP) recommends that all water in a residential pool pass through the filtration system at least once every 12 hours (referred to as pool water turnover). However, many factors have an effect on actual pump and filter system run times. Pool size, source of water, direct sun light, indoor/outdoor, screened and unscreened, filtration system, cold or hot weather, swimmer load, rain, organic debris, algae, etc., are all factors which contribute to either more or less pool pump and filter system run times. Because of these differences, it is extremely difficult to set an initial run time (starting point) for the pool pump and chlorinating system.

Try initially setting the pool pump timer to 12 hours. It will take a few days to get just the right amount pool pump operating time. When the IntelliChlor Salt Chlorinator is wired with a pool pump timer (see page 6) results will vary greatly from one pool installation to the next, so this should be discussed with either the pool builder or your pool professional.

The following information describes how to install the IntelliChlor Salt Chlorinator Power Center. Before installing, review the IntelliChlor Salt Chlorinator kit contents and required tools. For cell installation instructions, see the “IntelliChlor User’s Guide” (P/N 520584).

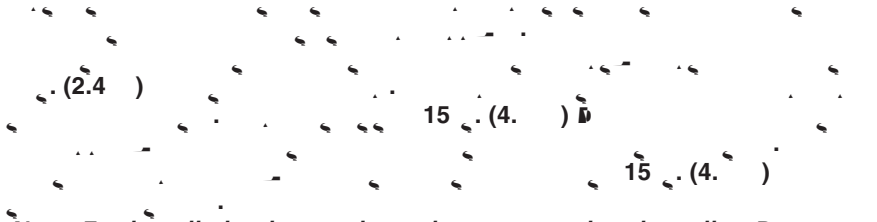
- One Power Center enclosure
- Installation Guide (this manual)

- Phillips & Flathead screwdrivers
- Voltmeter. (To determine AC line voltage to Power Center)
- Electric drill and 1/4” masonry drill bit. (To mount Power Center)



Before attempting installation of service, ensure that all power to the circuit supplying power to the system is disconnected/switched off at the circuit breaker. When using IntelliChlor Salt Chlorinator with a Pentair automation control system, it is recommended to wire the IntelliChlor Salt Chlorinator Power Center to the pump side of the relay located in the IntelliTouch Control System Load Center. This wiring method does not require a ground fault circuit-interrupter (GFCI) to protect the circuit. A green colored terminal (or a wire connector marked “G”, “GR”, “Ground” or “Grounding”) is provided within the terminal compartment in the Power Center transformer enclosure. To reduce risk of electric shock, connect this terminal or connector to the grounding terminal of your electric service or supply panel with a conductor equivalent in size to the circuit conductors supplying this equipment. The power supply must be interconnected with pool pump motor power source. This insures the IntelliChlor Salt Chlorinator and pool pump will switch on and off together.

- Grounding (earth bonding) is required. The unit should be installed by a

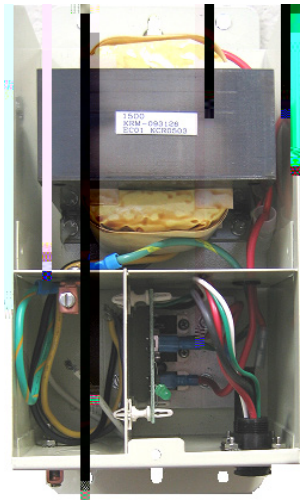


Note: For installation instructions about connecting the cell to Power Center, see the “IntelliChlor User’s Guide” (P/N 520589).

Preparing to mount the power center enclosure

1. Remove the screw securing the Power Center cover and remove the cover.
2. Mount the Power Center on a flat surface such as a wall or post and mark each mounting bracket screw hole location. There are two (2) screw holes and a keyslot for the top and lower bracket.
3. Drill six 1/4-in (6.4 mm) holes. Install anchors if necessary and one screw for each bracket keyslot location.
4. Position each Power Center keyslot (top and lower) slot over the two mounting screws just installed. Tighten the two (2) screws to secure the enclosure.
5. Install and tighten four (4) mounting screws two (2) in the top and two in the lower bracket.

Bracket key slot

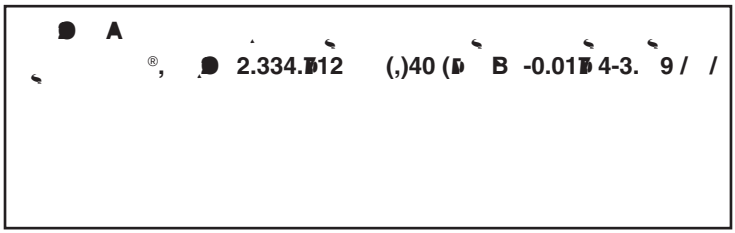


6. Use 12-14 AWG three conductor insulated wire for the main AC power connection. Connect the Power Center to pool pump AC power source. The Power Center should be connected to the pump motor switch or

Troubleshooting

Note: *Turn off power to unit before attempting to service or repair.*

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
The IntelliChlor green power light on the control panel is not on.	Fuse in Power Center is open.	Replace 10 AMP fuse, located on the main circuit board.
	No AC power to Power Center.	Verify time clock is providing 110 VAC or 220 VAC to Power Center when active.
	Transformer leads not wired correctly in Power Center.	Verify transformer leads wired to AC source by referring to wiring diagram decal on inside of Power Center cover.



110 A 220 A

115 VAC Basic System Wiring

230 VAC Basic System Wiring

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