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329  
PO

## IMPORTANT SAFETY RULES

Read, understand, and follow  
all instructions carefully before  
installing and using this product.

# Saltwater System with E.C.O. (Electrocatalytic Oxidation)

Model ECO5110 & 6110



For illustrative purposes only.

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# INTEX®

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# OWNER'S MANUAL

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# IMPORTANT SAFETY RULES

Read, Understand and Follow All Instructions Carefully Before Installing and Using this Product.

## READ AND FOLLOW ALL INSTRUCTIONS

### WARNING

- For Outdoor use only.
- Not to energize or operate the unit if the cell housing is damaged or improperly assembled.
- To reduce the risk of injury, do not permit children to use this product. Always supervise children and those with disabilities.
- Children must stay away from this product and all electrical cords.
- Assembly and disassembly by adults only.
- Risk of electric shock. Connect only to a grounding type receptacle, this product is provided with a ground-fault circuit interrupter. If replacement of the plug or cord is needed, use only identical replacement parts.
- Always unplug this product from the electrical outlet before removing, cleaning, servicing or making any adjustment to the product.
- The unit is provided with a ground-fault circuit interrupter (GFCI). To test the GFCI, push the test button. The GFCI should interrupt power. Push the reset button, power should be restored. If the GFCI fails to operate in this manner. The GFCI is defective. If the GFCI interrupts power to the pump without the test button being pushed, a ground current is flowing, indicating the possibility of an electric shock. Do not use this pump. Disconnect the pump and have the problem corrected by a qualified service representative before using.
- Do not bury the electrical cord. Locate the cord where it will not be damaged by lawn mowers, hedge trimmers and other equipment.
- To reduce the risk of electric shock, the supply cord cannot be replaced. If the cord is damaged, the appliance should be replaced immediately.
- To reduce the risk of electric shock, do not use extension cords, timers, plug adaptors or converter plugs to connect unit to electric supply; provide a properly located outlet.
- Do not attempt to plug in or unplug this product while standing in water or when your hands are wet.
- Do not use an appliance leakage current interrupter (ALCI) in place of a GFCI since the ALCI will not protect people.
- Position this product away from the pool, so as to prevent children from climbing on it and accessing the pool.
- Make sure the electrical parameters indicated on the product correspond to the local mains voltage before you connect the unit.
- This product is intended to be used only for the purposes described in the manual!

**FAILURE TO FOLLOW THESE WARNINGS MAY RESULT IN PROPERTY DAMAGE, ELECTRIC SHOCK, ENTANGLEMENT OR OTHER SERIOUS INJURY OR DEATH.**

### CAUTION

This product is for use with storable pools only. Do not use with permanently-installed pools. A storable pool is constructed so that it is capable of being readily disassembled for storage and reassembled to its original integrity. A permanently-installed pool is constructed in or on the ground or in a building such that it cannot be readily disassembled for storage.

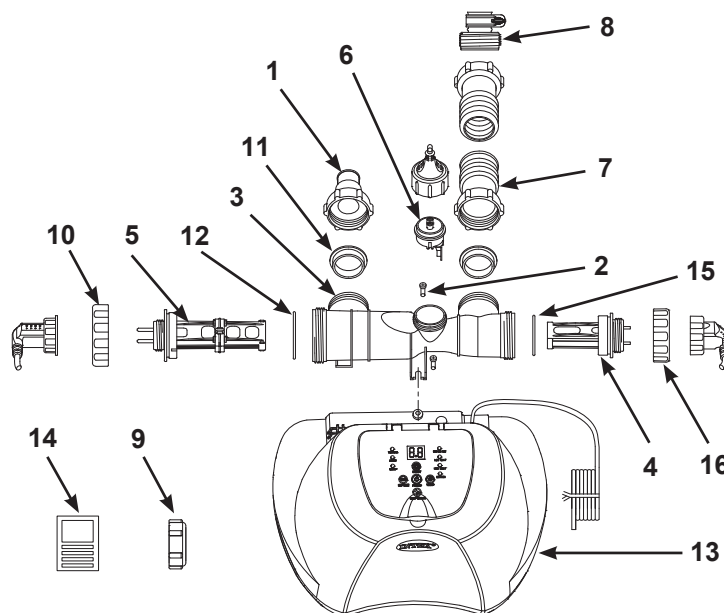
To reduce the risk of electric shock the pool must be installed no closer than 6 feet (1.8 m) from any electrical outlet. Do not place portable appliances closer than 5 feet (1.5 m) from the pool.

These product warnings, instructions and safety rules provided with the product represent some common risks of water recreation devices and do not cover all instances of risk and danger. Please use common sense and good judgement when enjoying any water activity.

**For portable Above-Ground-Pools only**

## PARTS REFERENCE

Before assembling your product, please take a few minutes to check the contents and become familiar with all the parts.



**NOTE:** Drawings for illustration purpose only. Actual product may vary. Not to scale.

| REF. NO.     |                                                                   | DESCRIPTION                           | QTY. | SPARE PART NO. |         |
|--------------|-------------------------------------------------------------------|---------------------------------------|------|----------------|---------|
| COMMON PARTS | PARTS FOR CONNECTION TO FILTER PUMPS WITH 1-1/4" (32MM) HOSE SIZE |                                       |      | ECO5110        | ECO6110 |
|              | 1                                                                 | ADAPTOR A WITH THREADED COLLAR        | 1    | 10849          | 10849   |
| 2            |                                                                   | SCREW                                 | 2    | 11519          | 11519   |
| 3            |                                                                   | ELECTROLYTIC CELL HOUSING             | 1    | 11898          | 11903   |
| 4            |                                                                   | E.C.O. ELECTRODE                      | 1    | 11900          | 11905   |
| 5            |                                                                   | TITANIUM ELECTRODE                    | 1    | 11899          | 11904   |
| 6            |                                                                   | FLOW SENSOR                           | 1    | 11460          | 11460   |
| 7            |                                                                   | CONNECTOR HOSE WITH THREADED FITTINGS | 1    | 10720          | 10720   |
|              | 8                                                                 | THREADED ADAPTOR B                    | 1    | 10722          | 10722   |
| 9            |                                                                   | CELL COVER                            | 2    | 11131          | 11131   |
| 10           |                                                                   | ELECTROLYTIC CELL NUT                 | 1    | 11582          | 11432   |
| 11           |                                                                   | L-SHAPE O-RING                        | 2    | 11228          | 11228   |
| 12           |                                                                   | TITANIUM ELECTRODE O-RING             | 1    | 11585          | 11515   |
| 13           |                                                                   | CONTROL STATION                       | 1    | 12657          | 12659   |
| 14           |                                                                   | TEST STRIPS                           | 1    | 19635          | 19635   |
| 15           |                                                                   | TITANIUM ELECTRODE O-RING             | 1    | 11585          | 11585   |
| 16           |                                                                   | ELECTROLYTIC CELL NUT                 | 1    | 11582          | 11582   |

When ordering parts, be sure to quote the model number and part numbers.

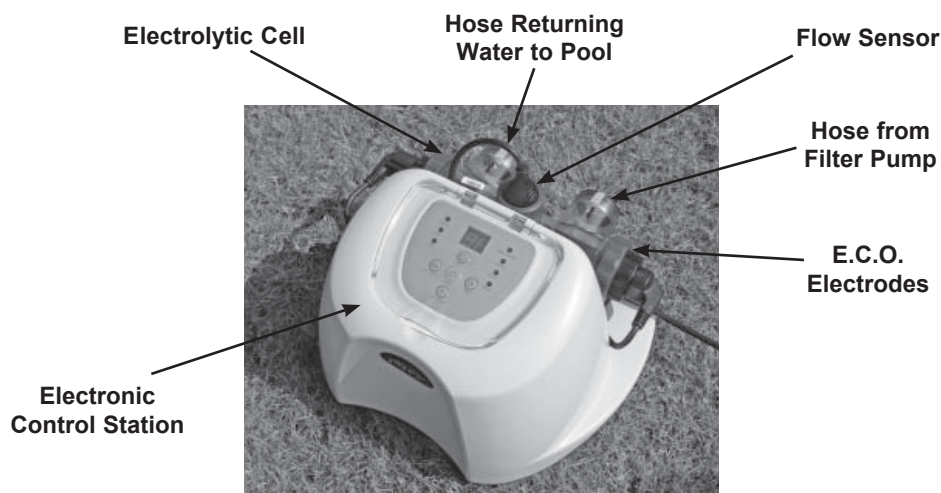
## HOW THE CHLORINE IS GENERATED

This product is specially designed for above ground pools. It will destroy the bacteria, oxidize bather organics and control algae, which provide a safe, clean and comfortable swimming pool.

Common salt (sodium chloride) is made up of two elements, sodium and chloride. During the installation of your Saltwater System, a measured quantity of salt is dissolved in the pool water to make it slightly salty. The pool water flows through the Saltwater System's electrolytic cell to produce chlorine. The chlorine dissolves in the water and instantly starts destroying bacteria and algae. It also oxidizes all other organic materials.

## PRODUCT SPECIFICATIONS

| Model:                         | ECO5110                                               | ECO6110                                               |
|--------------------------------|-------------------------------------------------------|-------------------------------------------------------|
| Power:                         | 110 - 120 Volt AC                                     | 110 - 120 Volt AC                                     |
| Amperage:                      | 0.6 A                                                 | 1.1 A                                                 |
| Wattage:                       | 65 W                                                  | 125 W                                                 |
| Ideal Salt Level:              | 3000 ppm (parts per million)                          | 3000 ppm (parts per million)                          |
| E.C.O. Cell Output Current:    | 500 mA                                                | 800 mA                                                |
| Maximum Chlorine Output/hour:  | 5 grams/hour                                          | 12 grams/hour                                         |
| Filter pump minimum flow rate: | 700 ~ 3200 gallons/hour<br>(2650 - 12112 liters/hour) | 700 ~ 3200 gallons/hour<br>(2650 - 12112 liters/hour) |
| Limited Warranty:              | see "Limited Warranty"                                |                                                       |



## SETUP INSTRUCTIONS

Please visit [www.intexcorp.com](http://www.intexcorp.com) for the latest instructional video on the installation and operation of this product.

### IMPORTANT

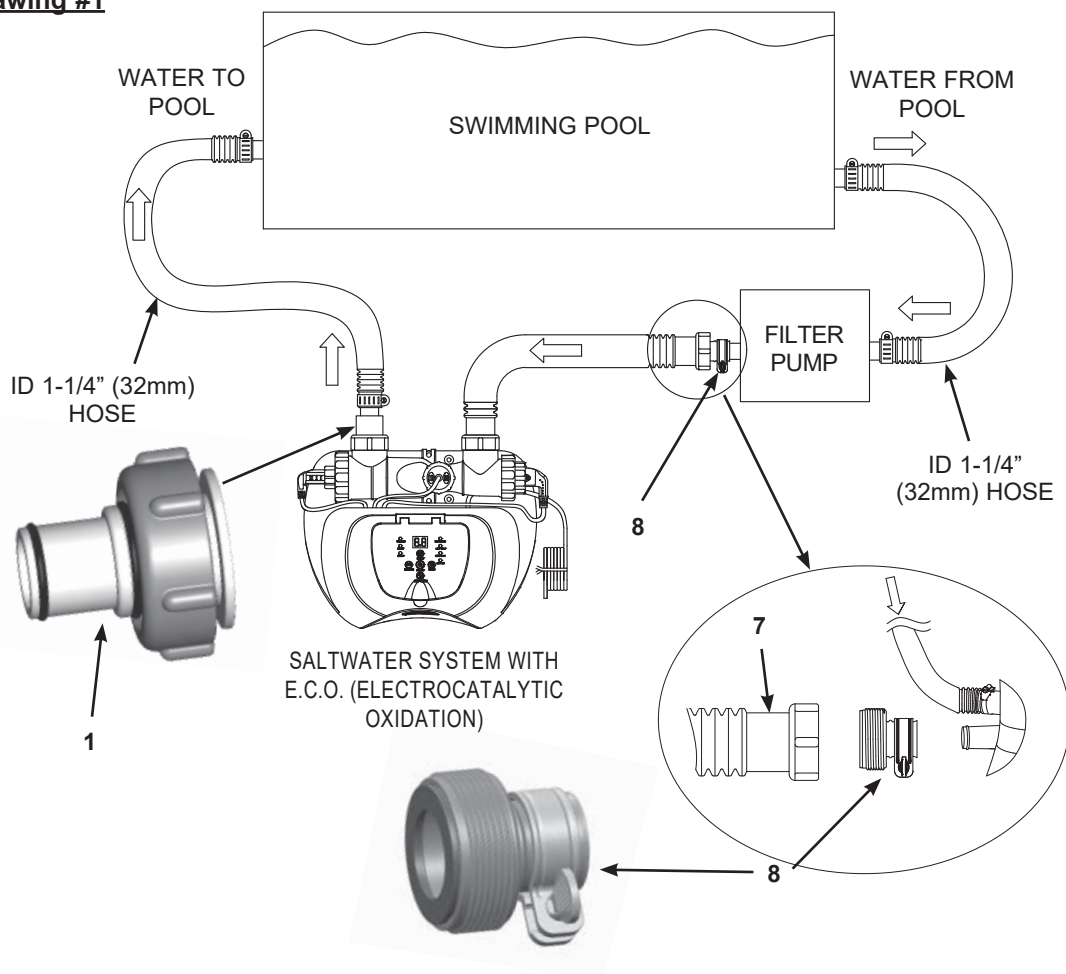
- The Saltwater System requires a separate filter pump [700~3200 gph (2650~12112 lph)] to drive the water and function properly.
- The Saltwater System must be installed as the last piece of pool equipment in the water return line to the pool as displayed in Drawing #1. This location extends the life of the titanium plates.

1. Assemble the above-ground-pool (AGP) and its filter pump according to their installation instructions.
2. Take the Saltwater System and its accessories out of the packaging.
3. Place the Saltwater System in line after the filter pump.
4. Connect the connector hose (7) to the Saltwater System inlet.

**Connecting the system to pump and pool with 1-1/4" (32mm) connections/hoses:**

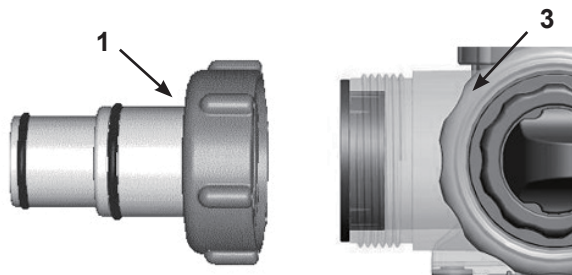
The saltwater system features 1-1/2" (38mm) connections. It is accordingly supplied with adaptors A (1) and B (8) for connecting to the small 1-1/4" (32mm) diameter connections/hoses. Install as follows:

**Drawing #1**

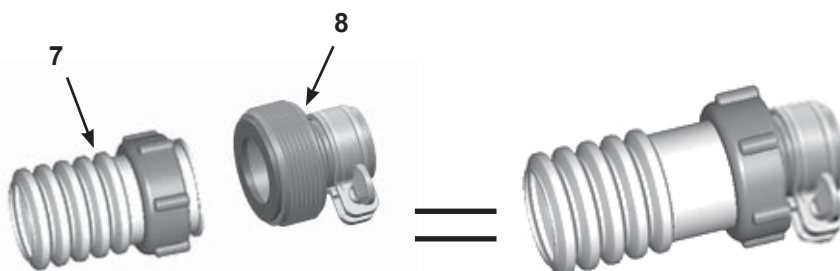


## SETUP INSTRUCTIONS (continued)

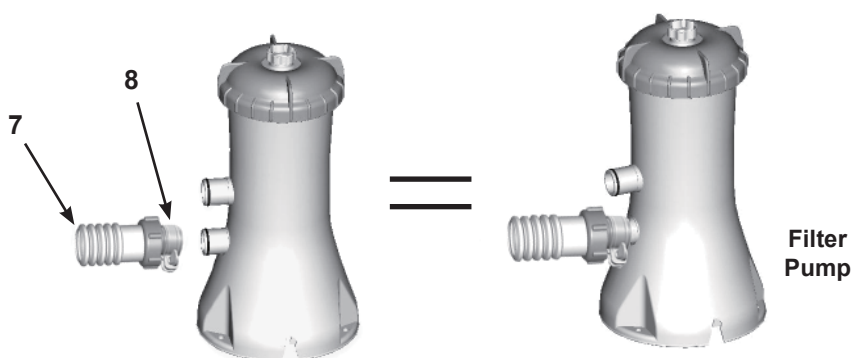
1. Go directly to step 2 if your pool is empty. If your above-ground-pool is filled with water, unscrew the strainer grids from the strainer connectors and insert the black hat-like plugs into the connectors, before installing the saltwater pool system.
2. Connect the adaptor A (1) to the electrolytic cell (3) outlet as shown in Drawing #1. Tighten securely.



3. Disconnect the water return hose from the filter pump connection and connect it to the adaptor A (1) on the Saltwater System with a hose clamp. (see Drawing #1)
4. Connect adaptor B (8) to the connector hose (7). Tighten securely. (see Drawing #1)



5. Connect adaptor B (8) to filter pump outlet (lower connection). Tighten securely.



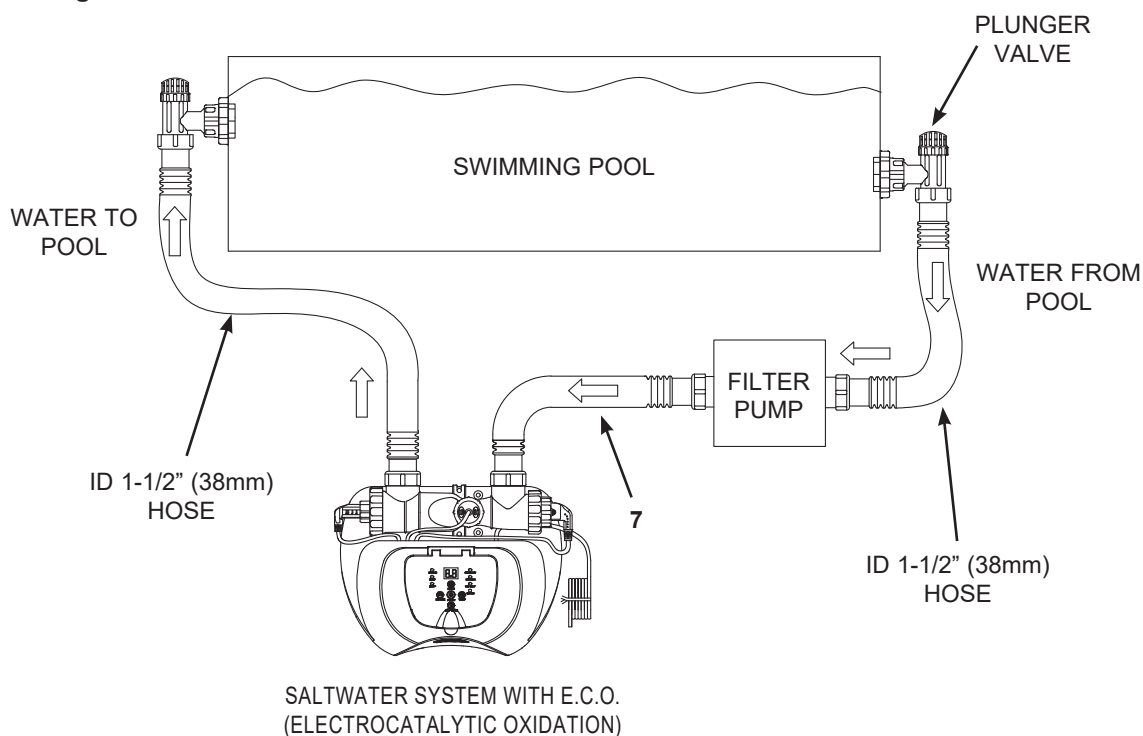
6. Remove the black hat-like plugs that prevent water from flowing out of the pool. Now, return the strainer grids to the strainer connectors.



## SETUP INSTRUCTIONS (continued)

**Connecting the system to pump and pool with 1-1/2" (38mm) connections/hoses:**  
**Pump and pool with 1-1/2" (38mm) connections do not require the adaptors A (1) or B (8).**  
**Install as follows:**

**Drawing #2**



1. Go directly to step 2 if your pool is empty. If your above-ground-pool is filled with water, close the plunger valves before installing the Saltwater System.
2. Disconnect the water return hose from the filter pump connection and connect it to the Saltwater System outlet.
3. Connect the connector hose (7) to the filter pump outlet connection.
4. Open the plunger valves to allow the water to flow.

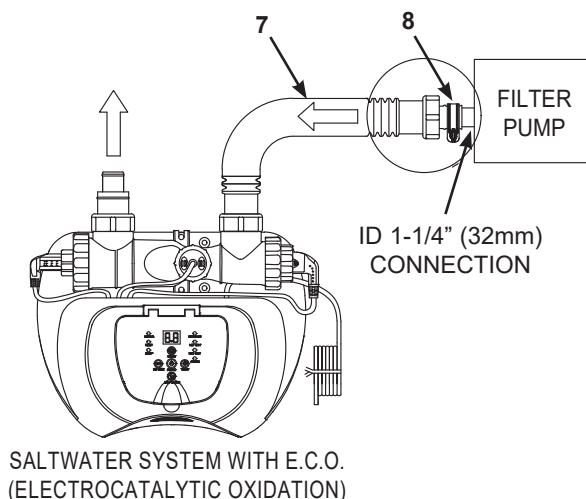


## SETUP INSTRUCTIONS (continued)

### Connecting the system to other types of pump (with different type of thread or no thread):

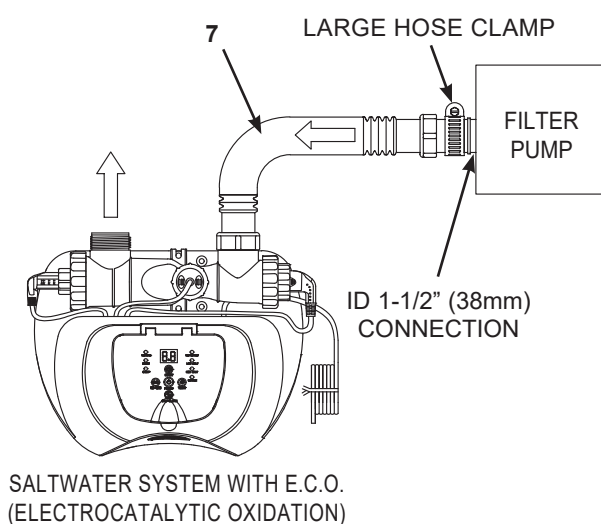
The Saltwater System can also be adapted to other filter pumps with different thread or those without a thread on the connection.

#### Connection to 1-1/4" (32mm) hose:



1. Connect one end of adaptor B (8) to the connector hose (7). Tighten securely.
2. Now, connect the other end of adaptor B (8) to the filter pump outlet. Tighten securely.

#### Connection to 1-1/2" (38mm) hose with clamp:



1. Connect the connector hose (7) to the filter pump outlet connection with a large hose clamp. Tighten securely.

## SETUP INSTRUCTIONS (continued)

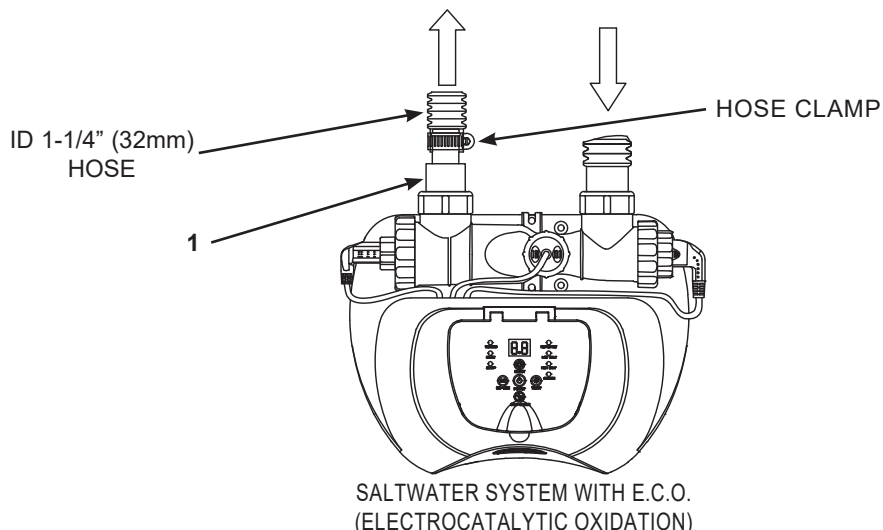
### Connecting the system to other types of pool

After you have connected the Saltwater System to the pump, connect it to the pool.

This is depicted in Drawings #1 and #2.

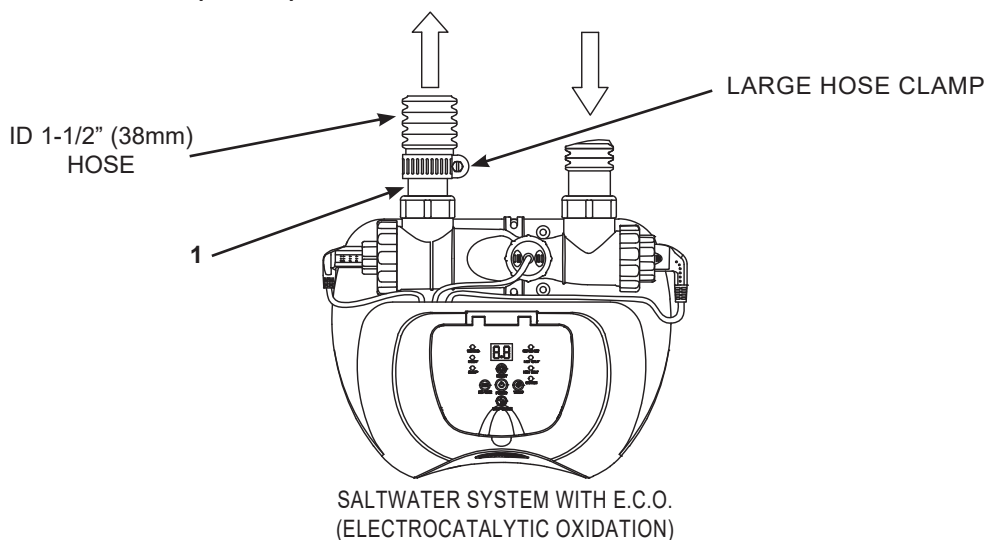
Following are the common connection types:

#### Connection to 1-1/4" (32mm) connectors:



1. Connect the adaptor A (1) to the electrolytic cell (3) outlet. Tighten securely.
2. The adapter A (1) is now fitted to the Saltwater System. The following step is to connect the water return hose to the adaptor A (1) with a hose clamp.

#### Connection to 1-1/2" (38mm) connectors without thread:



1. Connect the adaptor A (1) to the electrolytic cell (3) outlet. Tighten securely.
2. With the adaptor A (1) fixed to the Saltwater System, connect the water return hose to the adaptor, using a large hose clamp.

## SALT & POOL WATER VOLUMES

### • Which kind of salt to use:

#### Use only Sodium Chloride Salts

Use only sodium chloride (NaCl) salt that is at least 99.8% pure. It is also acceptable to use water conditioning salt pellets (the compressed forms of evaporated salt). However, it will take a longer time for them to dissolve.

#### Do not use iodized or yellow (yellow prussiate of soda) colored salt.

Salt is added to the pool water and the electrolytic cell uses the salt to create chlorine. The purer the salt the better the performance of the electrolytic cell.

### • Optimum Salt Levels

The ideal salt level in the pool water is between 2500-3500 ppm (parts per million). The optimal level is 3000 ppm.

A too low salt level will reduce the efficiency of the Saltwater System and result in low chlorine production. A high salt level may generate a salty taste to the pool water (this may occur at a salt level above 3500-4000ppm). Too high a salt level may damage the power supply and cause corrosion to the pool metal fixtures and accessories. The Salt Table page of this manual, shows the correct dosage of salt needed. The salt in the pool is constantly recycled. The loss of salt is due only to pool water being physically removed from the pool. Salt is not lost due to evaporation.

### • Adding Salt

1. Switch the filter pump on to start the water circulation.
2. Keep the Saltwater System turned off.
3. Determine the amount of salt to be added (see "Salt Table").
4. Evenly spread the proper amount of salt around the inside perimeter of the pool.
5. Avoid clogging the filter. Do not add salt through the skimmer.
6. Brush the pool bottom to speed up the dissolving process. Do not allow salt to pile up on the bottom of the pool. Run the filter pump 24 consecutive hours to thoroughly dissolve the salt.
7. After 24 hours and if all the salt is dissolved, turn on the Saltwater System, press  button until you hear a "beep", code "00" flashing and set the saltwater pool system to desired operating time (see "Operating Time Table").

### • Removing Salt

If too much salt has been added, the unit will beep and display "Code 92" (see "Alarm Codes"). You will need to lower the salt concentration. The only way to do so, is to partially drain the pool and refill it with fresh water. Drain and refill approximately 20% of the pool's water until the "Code 92" disappears.

### • Pool Volume Calculation

| Types of Pool | Gallons<br>(pool size in feet)       | Cubic Meters<br>(pool size in meters) |
|---------------|--------------------------------------|---------------------------------------|
| Rectangular   | Length x Width x Average Depth x 7.5 | Length x Width x Average Depth        |
| Circular      | Length x Width x Average Depth x 5.9 | Length x Width x Average Depth x 0.79 |
| Oval          | Length x Width x Average Depth x 6.0 | Length x Width x Average Depth x 0.80 |

## INTEX POOLS SALT TABLE

This table shows the amount of salt needed to achieve and maintain the optimal 3000 ppm salt level.

| Pool Size                        |                                         | Water Capacity (Calculated at 90% for Frame Pool and 80% for Easy Set & Oval Pool) |          | Salt Needed for Startup 3.0g/L (3000ppm) |       | Salt Needed when Low Salt Detected (CODE "91") |       |
|----------------------------------|-----------------------------------------|------------------------------------------------------------------------------------|----------|------------------------------------------|-------|------------------------------------------------|-------|
|                                  |                                         | (Gals)                                                                             | (Liters) | (Lbs)                                    | (Kgs) | (Lbs)                                          | (Kgs) |
| INTEX ABOVE GROUND POOLS (AGP's) |                                         |                                                                                    |          |                                          |       |                                                |       |
| EASY SET® POOL                   | 15' x 33" (457cm x 84cm)                | 2587                                                                               | 9792     | 65                                       | 30    | 20                                             | 10    |
|                                  | 15' x 36" (457cm x 91cm)                | 2822                                                                               | 10681    | 65                                       | 30    | 20                                             | 10    |
|                                  | 15' x 42" (457cm x 107cm)               | 3284                                                                               | 12430    | 80                                       | 35    | 20                                             | 10    |
|                                  | 15' x 48" (457cm x 122cm)               | 3736                                                                               | 14141    | 95                                       | 45    | 25                                             | 10    |
|                                  | 16' x 42" (488cm x 107cm)               | 3754                                                                               | 14209    | 95                                       | 45    | 25                                             | 10    |
|                                  | 16' x 48" (488cm x 122cm)               | 4273                                                                               | 16173    | 110                                      | 50    | 30                                             | 15    |
|                                  | 16' x 52" (488cm x 132cm)               | 4614                                                                               | 17464    | 115                                      | 50    | 30                                             | 15    |
|                                  | 18' x 42" (549cm x 107cm)               | 4786                                                                               | 18115    | 120                                      | 55    | 30                                             | 15    |
|                                  | 18' x 48" (549cm x 122cm)               | 5455                                                                               | 20647    | 135                                      | 60    | 35                                             | 15    |
| CIRCULAR METAL FRAME POOL        | 15' x 36" (457cm x 91cm)                | 3282                                                                               | 12422    | 80                                       | 35    | 20                                             | 10    |
|                                  | 15' x 42" (457cm x 107cm)               | 3861                                                                               | 14614    | 100                                      | 45    | 25                                             | 10    |
|                                  | 15' x 48" (457cm x 122cm)               | 4440                                                                               | 16805    | 110                                      | 50    | 30                                             | 15    |
|                                  | 16' x 48" (488cm x 122cm)               | 5061                                                                               | 19156    | 125                                      | 55    | 35                                             | 15    |
|                                  | 18' x 48" (549cm x 122cm)               | 6423                                                                               | 24311    | 160                                      | 75    | 40                                             | 20    |
|                                  | 21' x 52" (640cm x 132cm)               | 9533                                                                               | 36082    | 240                                      | 110   | 60                                             | 30    |
|                                  | 24' x 52" (732cm x 132cm)               | 12481                                                                              | 47241    | 310                                      | 140   | 80                                             | 35    |
| ULTRA FRAME® POOL                | 16' x 48" (488cm x 122cm)               | 5061                                                                               | 19156    | 125                                      | 55    | 35                                             | 15    |
|                                  | 18' x 48" (549cm x 122cm)               | 6423                                                                               | 24311    | 160                                      | 75    | 40                                             | 20    |
|                                  | 18' x 52" (549cm x 132cm)               | 6981                                                                               | 26423    | 175                                      | 80    | 45                                             | 20    |
|                                  | 20' x 48" (610cm x 122cm)               | 7947                                                                               | 30079    | 210                                      | 90    | 50                                             | 25    |
|                                  | 22' x 52" (671cm x 132cm)               | 10472                                                                              | 39637    | 260                                      | 120   | 65                                             | 30    |
|                                  | 24' x 52" (732cm x 132cm)               | 12481                                                                              | 47241    | 310                                      | 140   | 80                                             | 35    |
|                                  | 26' x 52" (792cm x 132cm)               | 14667                                                                              | 55515    | 365                                      | 165   | 90                                             | 40    |
| GRAPHITE GRAY PANEL POOL SET™    | 15'8" x 49" (478cm x 124cm)             | 4440                                                                               | 16805    | 110                                      | 50    | 30                                             | 15    |
|                                  | 16'8" x 49" (508cm x 124cm)             | 5061                                                                               | 19156    | 125                                      | 55    | 35                                             | 15    |
|                                  | 18'8" x 53" (569cm x 135cm)             | 6981                                                                               | 26423    | 175                                      | 80    | 45                                             | 20    |
| OVAL FRAME POOL                  | 18' x 10' x 42" (549cm x 305cm x 107cm) | 2885                                                                               | 10920    | 70                                       | 30    | 20                                             | 10    |
|                                  | 20' x 12' x 48" (610cm x 366cm x 122cm) | 4393                                                                               | 16628    | 110                                      | 50    | 30                                             | 15    |
| RECT. ULTRA FRAME POOL           | 15' x 9' x 48" (457cm x 274cm x 122cm)  | 3484                                                                               | 13187    | 90                                       | 40    | 25                                             | 10    |
|                                  | 18' x 9' x 52" (549cm x 274cm x 132cm)  | 4545                                                                               | 17203    | 115                                      | 50    | 30                                             | 15    |
|                                  | 20 x 10' x 52" (610cm x 305cm x 132cm)  | 5835                                                                               | 22085    | 145                                      | 65    | 40                                             | 20    |
|                                  | 24' x 12' x 52" (732cm x 366cm x 132cm) | 8403                                                                               | 31805    | 210                                      | 95    | 55                                             | 25    |
|                                  | 32' x 16' x 52" (975cm x 488cm x 132cm) | 14364                                                                              | 54368    | 360                                      | 165   | 90                                             | 40    |

## INTEX POOLS CYANURIC ACID TABLE

Cyanuric acid is a chemical that reduces the loss of chlorine in water due to ultraviolet rays. To maintain the pool water clear and clean, and to maximize the performance of the device, add cyanuric acid to the pool. We recommend that the cyanuric acid level be maintained at approximately 1% of the salt, i.e. 100 Lbs (45 Kgs) salt x 1% = 1 Lbs (0.45 Kgs) cyanuric acid. If the pool water is dirty, filthy or grimy, DO NOT add chlorine stabilizer (cyanuric acid) as this will slowdown the sanitation time of the device. Under this condition you must BOOST your pool water, refer to BOOST cycle steps. Once the pool water has been restored to clear and clean conditions you may add cyanuric acid.

| Pool Size                                    |                                         | Water Capacity (Calculated at 90% for Frame Pool and 80% for Easy Set & Oval Pool) |          | Cyanuric Acid Needed for Startup<br>0.03g/L (30ppm) |       |
|----------------------------------------------|-----------------------------------------|------------------------------------------------------------------------------------|----------|-----------------------------------------------------|-------|
|                                              |                                         | (Gals)                                                                             | (Liters) | (Lbs)                                               | (Kgs) |
| <b>INTEX ABOVE GROUND POOLS (AGP's)</b>      |                                         |                                                                                    |          |                                                     |       |
| <b>EASY SET®<br/>POOL</b>                    | 15' x 33" (457cm x 84cm)                | 2587                                                                               | 9792     | 0.6                                                 | 0.3   |
|                                              | 15' x 36" (457cm x 91cm)                | 2822                                                                               | 10681    | 0.7                                                 | 0.3   |
|                                              | 15' x 42" (457cm x 107cm)               | 3284                                                                               | 12430    | 0.8                                                 | 0.4   |
|                                              | 15' x 48" (457cm x 122cm)               | 3736                                                                               | 14141    | 0.9                                                 | 0.4   |
|                                              | 16' x 42" (488cm x 107cm)               | 3754                                                                               | 14209    | 0.9                                                 | 0.4   |
|                                              | 16' x 48" (488cm x 122cm)               | 4273                                                                               | 16173    | 1.1                                                 | 0.5   |
|                                              | 16' x 52" (488cm x 132cm)               | 4614                                                                               | 17464    | 1.2                                                 | 0.5   |
|                                              | 18' x 42" (549cm x 107cm)               | 4786                                                                               | 18115    | 1.2                                                 | 0.5   |
|                                              | 18' x 48" (549cm x 122cm)               | 5455                                                                               | 20647    | 1.4                                                 | 0.6   |
| <b>CIRCULAR<br/>METAL<br/>FRAME POOL</b>     | 15' x 36" (457cm x 91cm)                | 3282                                                                               | 12422    | 0.8                                                 | 0.4   |
|                                              | 15' x 42" (457cm x 107cm)               | 3861                                                                               | 14614    | 1.0                                                 | 0.4   |
|                                              | 15' x 48" (457cm x 122cm)               | 4440                                                                               | 16805    | 1.1                                                 | 0.5   |
|                                              | 16' x 48" (488cm x 122cm)               | 5061                                                                               | 19156    | 1.3                                                 | 0.6   |
|                                              | 18' x 48" (549cm x 122cm)               | 6423                                                                               | 24311    | 1.6                                                 | 0.7   |
|                                              | 21' x 52" (640cm x 132cm)               | 9533                                                                               | 36082    | 2.4                                                 | 1.1   |
|                                              | 24' x 52" (732cm x 132cm)               | 12481                                                                              | 47241    | 3.1                                                 | 1.4   |
| <b>ULTRA<br/>FRAME®<br/>POOL</b>             | 16' x 48" (488cm x 122cm)               | 5061                                                                               | 19156    | 1.3                                                 | 0.6   |
|                                              | 18' x 48" (549cm x 122cm)               | 6423                                                                               | 24311    | 1.6                                                 | 0.7   |
|                                              | 18' x 52" (549cm x 132cm)               | 6981                                                                               | 26423    | 1.7                                                 | 0.8   |
|                                              | 20' x 48" (610cm x 122cm)               | 7947                                                                               | 30079    | 2.0                                                 | 0.9   |
|                                              | 22' x 52" (671cm x 132cm)               | 10472                                                                              | 39637    | 2.6                                                 | 1.2   |
|                                              | 24' x 52" (732cm x 132cm)               | 12481                                                                              | 47241    | 3.1                                                 | 1.4   |
|                                              | 26' x 52" (792cm x 132cm)               | 14667                                                                              | 55515    | 3.7                                                 | 1.7   |
| <b>GRAPHITE<br/>GRAY PANEL<br/>POOL SET™</b> | 15'8" x 49" (478cm x 124cm)             | 4440                                                                               | 16805    | 1.1                                                 | 0.5   |
|                                              | 16'8" x 49" (508cm x 124cm)             | 5061                                                                               | 19156    | 1.3                                                 | 0.6   |
|                                              | 18'8" x 53" (569cm x 135cm)             | 6981                                                                               | 26423    | 1.7                                                 | 0.8   |
| <b>OVAL FRAME<br/>POOL</b>                   | 18' x 10' x 42" (549cm x 305cm x 107cm) | 2885                                                                               | 10920    | 0.7                                                 | 0.3   |
|                                              | 20' x 12' x 48" (610cm x 366cm x 122cm) | 4393                                                                               | 16628    | 1.1                                                 | 0.5   |
| <b>RECT. ULTRA<br/>FRAME POOL</b>            | 15' x 9' x 48" (457cm x 274cm x 122cm)  | 3484                                                                               | 13187    | 0.9                                                 | 0.4   |
|                                              | 18' x 9' x 52" (549cm x 274cm x 132cm)  | 4545                                                                               | 17203    | 1.1                                                 | 0.5   |
|                                              | 20' x 10' x 52" (610cm x 305cm x 132cm) | 5835                                                                               | 22085    | 1.5                                                 | 0.7   |
|                                              | 24' x 12' x 52" (732cm x 366cm x 132cm) | 8403                                                                               | 31805    | 2.1                                                 | 1.0   |
|                                              | 32' x 16' x 52" (975cm x 488cm x 132cm) | 14364                                                                              | 54368    | 3.6                                                 | 1.6   |

# INTEX POOLS OPERATING TIME TABLE (WITH CYANURIC ACID)

| Pool Size                     |                                         | Water Capacity (Calculated at 90% for Frame Pool and 80% for Easy Set & Oval Pool) |          | Operating Time (hours) at different ambient/air temperatures |                       |                       | Intex Filter pump Operating Time (hours) |
|-------------------------------|-----------------------------------------|------------------------------------------------------------------------------------|----------|--------------------------------------------------------------|-----------------------|-----------------------|------------------------------------------|
|                               |                                         | (Gals)                                                                             | (Liters) | 10 - 19°C (50 - 66°F)                                        | 20 - 28°C (68 - 82°F) | 29 - 36°C (84 - 97°F) |                                          |
| MODEL: ECO5110                |                                         |                                                                                    |          |                                                              |                       |                       |                                          |
| EASY SET® POOL                | 15' x 33" (457cm x 84cm)                | 2587                                                                               | 9792     | 3                                                            | 3                     | 4                     | 6                                        |
|                               | 15' x 36" (457cm x 91cm)                | 2822                                                                               | 10681    | 3                                                            | 4                     | 5                     | 6                                        |
|                               | 15' x 42" (457cm x 107cm)               | 3284                                                                               | 12430    | 3                                                            | 4                     | 5                     | 6                                        |
|                               | 15' x 48" (457cm x 122cm)               | 3736                                                                               | 14141    | 4                                                            | 5                     | 6                     | 8                                        |
|                               | 16' x 42" (488cm x 107cm)               | 3754                                                                               | 14209    | 4                                                            | 5                     | 6                     | 8                                        |
|                               | 16' x 48" (488cm x 122cm)               | 4273                                                                               | 16173    | 4                                                            | 5                     | 6                     | 8                                        |
|                               | 16' x 52" (488cm x 132cm)               | 4614                                                                               | 17464    | 5                                                            | 6                     | 7                     | 8                                        |
|                               | 18' x 42" (549cm x 107cm)               | 4786                                                                               | 18115    | 5                                                            | 6                     | 7                     | 8                                        |
|                               | 18' x 48" (549cm x 122cm)               | 5455                                                                               | 20647    | 6                                                            | 7                     | 8                     | 12                                       |
| CIRCULAR METAL FRAME POOL     | 15' x 36" (457cm x 91cm)                | 3282                                                                               | 12422    | 3                                                            | 4                     | 5                     | 6                                        |
|                               | 15' x 42" (457cm x 107cm)               | 3861                                                                               | 14614    | 4                                                            | 5                     | 6                     | 8                                        |
|                               | 15' x 48" (457cm x 122cm)               | 4440                                                                               | 16805    | 5                                                            | 6                     | 6                     | 8                                        |
|                               | 16' x 48" (488cm x 122cm)               | 5061                                                                               | 19156    | 5                                                            | 6                     | 7                     | 8                                        |
|                               | 18' x 48" (549cm x 122cm)               | 6423                                                                               | 24311    | 7                                                            | 8                     | 9                     | 12                                       |
|                               | 21' x 52" (640cm x 132cm)               | 9533                                                                               | 36082    | -                                                            | -                     | -                     | -                                        |
|                               | 24' x 52" (732cm x 132cm)               | 12481                                                                              | 47241    | -                                                            | -                     | -                     | -                                        |
| ULTRA FRAME® POOL             | 16' x 48" (488cm x 122cm)               | 5061                                                                               | 19156    | 5                                                            | 6                     | 7                     | 8                                        |
|                               | 18' x 48" (549cm x 122cm)               | 6423                                                                               | 24311    | 7                                                            | 8                     | 9                     | 12                                       |
|                               | 18' x 52" (549cm x 132cm)               | 6981                                                                               | 26423    | 8                                                            | 9                     | 9                     | 12                                       |
|                               | 20' x 48" (610cm x 122cm)               | 7947                                                                               | 30079    | -                                                            | -                     | -                     | -                                        |
|                               | 22' x 52" (671cm x 132cm)               | 10472                                                                              | 39637    | -                                                            | -                     | -                     | -                                        |
|                               | 24' x 52" (732cm x 132cm)               | 12481                                                                              | 47241    | -                                                            | -                     | -                     | -                                        |
|                               | 26' x 52" (792cm x 132cm)               | 14667                                                                              | 55515    | -                                                            | -                     | -                     | -                                        |
| GRAPHITE GRAY PANEL POOL SET™ | 15'8" x 49" (478cm x 124cm)             | 4440                                                                               | 16805    | 5                                                            | 6                     | 6                     | 8                                        |
|                               | 16'8" x 49" (508cm x 124cm)             | 5061                                                                               | 19156    | 5                                                            | 6                     | 7                     | 8                                        |
|                               | 18'8" x 53" (569cm x 135cm)             | 6981                                                                               | 26423    | 8                                                            | 9                     | 9                     | 12                                       |
| OVAL FRAME POOL               | 18' x 10' x 42" (549cm x 305cm x 107cm) | 2885                                                                               | 10920    | 3                                                            | 4                     | 5                     | 6                                        |
|                               | 20' x 12' x 48" (610cm x 366cm x 122cm) | 4393                                                                               | 16628    | 5                                                            | 5                     | 6                     | 8                                        |
| RECT. ULTRA FRAME POOL        | 15' x 9' x 48" (457cm x 274cm x 122cm)  | 3484                                                                               | 13187    | 3                                                            | 4                     | 5                     | 6                                        |
|                               | 18' x 9' x 52" (549cm x 274cm x 132cm)  | 4545                                                                               | 17203    | 5                                                            | 6                     | 7                     | 8                                        |
|                               | 20 x 10' x 52" (610cm x 305cm x 132cm)  | 5835                                                                               | 22085    | 6                                                            | 7                     | 8                     | 12                                       |
|                               | 24' x 12' x 52" (732cm x 366cm x 132cm) | 8403                                                                               | 31805    | -                                                            | -                     | -                     | -                                        |
|                               | 32' x 16' x 52" (975cm x 488cm x 132cm) | 14364                                                                              | 54368    | -                                                            | -                     | -                     | -                                        |

## INTEX POOLS OPERATING TIME TABLE (WITH CYANURIC ACID)

| Pool Size                     |                                         | Water Capacity (Calculated at 90% for Frame Pool and 80% for Easy Set & Oval Pool) |          | Operating Time (hours) at different ambient/air temperatures |                       |                       | Intex Filter pump Operating Time (hours) |
|-------------------------------|-----------------------------------------|------------------------------------------------------------------------------------|----------|--------------------------------------------------------------|-----------------------|-----------------------|------------------------------------------|
|                               |                                         | (Gals)                                                                             | (Liters) | 10 - 19°C (50 - 66°F)                                        | 20 - 28°C (68 - 82°F) | 29 - 36°C (84 - 97°F) |                                          |
| MODEL: ECO6110                |                                         |                                                                                    |          |                                                              |                       |                       |                                          |
| EASY SET® POOL                | 15' x 33" (457cm x 84cm)                | 2587                                                                               | 9792     | 1                                                            | 2                     | 3                     | 4                                        |
|                               | 15' x 36" (457cm x 91cm)                | 2822                                                                               | 10681    | 1                                                            | 2                     | 3                     | 4                                        |
|                               | 15' x 42" (457cm x 107cm)               | 3284                                                                               | 12430    | 1                                                            | 2                     | 3                     | 4                                        |
|                               | 15' x 48" (457cm x 122cm)               | 3736                                                                               | 14141    | 1                                                            | 2                     | 3                     | 4                                        |
|                               | 16' x 42" (488cm x 107cm)               | 3754                                                                               | 14209    | 1                                                            | 2                     | 3                     | 4                                        |
|                               | 16' x 48" (488cm x 122cm)               | 4273                                                                               | 16173    | 2                                                            | 3                     | 3                     | 4                                        |
|                               | 16' x 52" (488cm x 132cm)               | 4614                                                                               | 17464    | 2                                                            | 3                     | 4                     | 6                                        |
|                               | 18' x 42" (549cm x 107cm)               | 4786                                                                               | 18115    | 2                                                            | 3                     | 4                     | 6                                        |
|                               | 18' x 48" (549cm x 122cm)               | 5455                                                                               | 20647    | 2                                                            | 3                     | 4                     | 6                                        |
| CIRCULAR METAL FRAME POOL     | 15' x 36" (457cm x 91cm)                | 3282                                                                               | 12422    | 1                                                            | 2                     | 3                     | 4                                        |
|                               | 15' x 42" (457cm x 107cm)               | 3861                                                                               | 14614    | 1                                                            | 2                     | 3                     | 4                                        |
|                               | 15' x 48" (457cm x 122cm)               | 4440                                                                               | 16805    | 2                                                            | 3                     | 4                     | 6                                        |
|                               | 16' x 48" (488cm x 122cm)               | 5061                                                                               | 19156    | 2                                                            | 3                     | 4                     | 6                                        |
|                               | 18' x 48" (549cm x 122cm)               | 6423                                                                               | 24311    | 3                                                            | 4                     | 5                     | 6                                        |
|                               | 21' x 52" (640cm x 132cm)               | 9533                                                                               | 36082    | 4                                                            | 5                     | 6                     | 8                                        |
|                               | 24' x 52" (732cm x 132cm)               | 12481                                                                              | 47241    | 6                                                            | 6                     | 7                     | 8                                        |
| ULTRA FRAME® POOL             | 16' x 48" (488cm x 122cm)               | 5061                                                                               | 19156    | 2                                                            | 3                     | 4                     | 6                                        |
|                               | 18' x 48" (549cm x 122cm)               | 6423                                                                               | 24311    | 3                                                            | 4                     | 4                     | 6                                        |
|                               | 18' x 52" (549cm x 132cm)               | 6981                                                                               | 26423    | 3                                                            | 4                     | 5                     | 6                                        |
|                               | 20' x 48" (610cm x 122cm)               | 7947                                                                               | 30079    | 3                                                            | 4                     | 5                     | 6                                        |
|                               | 22' x 52" (671cm x 132cm)               | 10472                                                                              | 39637    | 5                                                            | 5                     | 6                     | 8                                        |
|                               | 24' x 52" (732cm x 132cm)               | 12481                                                                              | 47241    | 5                                                            | 6                     | 7                     | 8                                        |
|                               | 26' x 52" (792cm x 132cm)               | 14667                                                                              | 55515    | 7                                                            | 7                     | 8                     | 12                                       |
| GRAPHITE GRAY PANEL POOL SET™ | 15'8" x 49" (478cm x 124cm)             | 4440                                                                               | 16805    | 2                                                            | 3                     | 4                     | 6                                        |
|                               | 16'8" x 49" (508cm x 124cm)             | 5061                                                                               | 19156    | 2                                                            | 3                     | 4                     | 6                                        |
|                               | 18'8" x 53" (569cm x 135cm)             | 6981                                                                               | 26423    | 3                                                            | 4                     | 5                     | 6                                        |
| OVAL FRAME POOL               | 18' x 10' x 42" (549cm x 305cm x 107cm) | 2885                                                                               | 10920    | 1                                                            | 2                     | 3                     | 4                                        |
|                               | 20' x 12' x 48" (610cm x 366cm x 122cm) | 4393                                                                               | 16628    | 2                                                            | 3                     | 3                     | 4                                        |
| RECT. ULTRA FRAME POOL        | 15' x 9' x 48" (457cm x 274cm x 122cm)  | 3484                                                                               | 13187    | 1                                                            | 2                     | 3                     | 4                                        |
|                               | 18' x 9' x 52" (549cm x 274cm x 132cm)  | 4545                                                                               | 17203    | 2                                                            | 3                     | 4                     | 6                                        |
|                               | 20 x 10' x 52" (610cm x 305cm x 132cm)  | 5835                                                                               | 22085    | 2                                                            | 3                     | 4                     | 6                                        |
|                               | 24' x 12' x 52" (732cm x 366cm x 132cm) | 8403                                                                               | 31805    | 4                                                            | 4                     | 5                     | 6                                        |
|                               | 32' x 16' x 52" (975cm x 488cm x 132cm) | 14364                                                                              | 54368    | 6                                                            | 7                     | 8                     | 12                                       |

### IMPORTANT

The filter pump running time should be 1 hour longer than the required operating time of the Saltwater System.



## SALT CALCULATION FORMULA FOR ALL POOLS

| Salt Needed for Startup<br>(Lbs) | Salt Needed for Startup<br>(Kgs) | Salt Needed when<br>Low Salt Detected (Lbs) | Salt Needed when<br>Low Salt Detected (Kgs) |
|----------------------------------|----------------------------------|---------------------------------------------|---------------------------------------------|
| Water Capacity (Gals) x 0.025    | Water Capacity (Liters) x 0.003  | Water Capacity (Gals) x 0.0067              | Water Capacity (Liters) x 0.0008            |

## SALT TABLE FOR COMMON NON-INTEX POOLS

| Water Capacity |          | Salt Needed for Startup |       | Salt Needed when<br>Low Salt Detected<br>(CODE "91") |       |
|----------------|----------|-------------------------|-------|------------------------------------------------------|-------|
| (Gals)         | (Liters) | (Lbs)                   | (Kgs) | (Lbs)                                                | (Kgs) |
| 2000           | 7500     | 50                      | 20    | 10                                                   | 5     |
| 4000           | 15000    | 100                     | 45    | 25                                                   | 10    |
| 6000           | 22500    | 150                     | 65    | 40                                                   | 20    |
| 8000           | 30000    | 200                     | 90    | 55                                                   | 25    |
| 10000          | 37500    | 250                     | 110   | 70                                                   | 30    |
| 12000          | 45500    | 300                     | 135   | 80                                                   | 35    |
| 14000          | 53000    | 350                     | 160   | 95                                                   | 45    |

## CYANURIC ACID TABLE FOR COMMON NON-INTEX POOLS

| Water Capacity |          | Cyanuric Acid Needed for Startup<br>0.03g/L (30ppm) |       |
|----------------|----------|-----------------------------------------------------|-------|
| (Gals)         | (Liters) | (Lbs)                                               | (Kgs) |
| 2000           | 7500     | 0.5                                                 | 0.23  |
| 4000           | 15000    | 1.0                                                 | 0.45  |
| 6000           | 22500    | 1.5                                                 | 0.68  |
| 8000           | 30000    | 2.0                                                 | 0.90  |
| 10000          | 37500    | 2.5                                                 | 1.13  |
| 12000          | 45500    | 3.0                                                 | 1.37  |
| 14000          | 53000    | 3.5                                                 | 1.59  |

## OPERATING TIME TABLE FOR COMMON NON-INTEX POOLS (WITH CYANURIC ACID)

| Water Capacity |          | Operating Time (hours) at different ambient/air temperatures |                          |                          |                          |                          |                          |
|----------------|----------|--------------------------------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| (Gals)         | (Liters) | ECO5110                                                      |                          |                          | ECO6110                  |                          |                          |
|                |          | 10 - 19°C<br>(50 - 66°F)                                     | 20 - 28°C<br>(68 - 82°F) | 29 - 36°C<br>(84 - 97°F) | 10 - 19°C<br>(50 - 66°F) | 20 - 28°C<br>(68 - 82°F) | 29 - 36°C<br>(84 - 97°F) |
| 2000           | 7500     | 2                                                            | 3                        | 4                        | 1                        | 1                        | 2                        |
| 4000           | 15000    | 4                                                            | 5                        | 6                        | 1                        | 2                        | 3                        |
| 6000           | 22500    | 6                                                            | 7                        | 8                        | 2                        | 3                        | 4                        |
| 8000           | 30000    | -                                                            | -                        | -                        | 3                        | 4                        | 5                        |
| 10000          | 37500    | -                                                            | -                        | -                        | 4                        | 5                        | 6                        |
| 12000          | 45500    | -                                                            | -                        | -                        | 5                        | 6                        | 7                        |
| 14000          | 53000    | -                                                            | -                        | -                        | 6                        | 7                        | 8                        |

## OPERATION INSTRUCTIONS

### 1. Turn on the filter pump.

### 2. Start up the unit:

Plug the power cord into the electrical outlet and test the GFCI/RCD (circuit breaker). Press  button. Flashing code "00" appears on the electronic control station's LED, indicating that the unit is ready to be programmed.



### 3. Set operating hours for Saltwater system:

With code "00" flashing, press  button to set the desired operating hours. See the "Operating Time Table" for the required operating hours related to each pool size. Pressing  will increase the time from 01 to 12 hours maximum. If you have selected too many hours keep pressing  to repeat the cycle. The built-in timer will now activate your Saltwater System, at the same time each day, for the number of hours you have set.



(1 to 12 hours max per cycle)

**NOTE:** The Saltwater System will not operate if the filter pump is not operating. Make sure to program your filter pump (or start it manually) for operation beginning 5 minutes before the saltwater system and finishing 15 minutes after the saltwater system.

### 4. Lock keypad controls:

With the desired hour value showing, press  button until you hear a "beep". A green "WORKING" indicator on the control panel will light up within a few seconds to indicate that the saltwater system has started chlorine production. Locking the control buttons into this setting prevents unauthorized changing of the operating cycle.

**NOTE:** If you forget to lock the keypad controls, the system will automatically lock it and start working 1 minute later.



### 5. Readjust operating time if necessary:

The operating hours can be re-adjusted if necessary. Press  button until you hear a "beep" to unlock the keypad and the current programmed time will flash. Repeat steps 3 to 4.



## OPERATION INSTRUCTIONS (continued)

### 6. Boost cycle

- First time installation, press and hold "BOOST" button for 5 seconds until the indicator lights up and the LED display "80". This indicates that the saltwater system has started E.C.O. and more chlorine sanitizer production. You can press and hold the "BOOST" button for another 5 seconds until the indicator is off, which will cancel the Boost cycle.
- The boost operating hours is 8 times the amount of time programmed into the system, i.e. if your saltwater system operating time is 2 hours, the boost procedure will run  $8 \times 2 = 16$  hours. After boost procedure has been completed, the system will automatically switch to the normal working mode.
- Once the boost is operating, check whether the filter pump operating hours have been set properly. For example, the boost operating time is 8 hours, the filter pump should be set to run for 8 hours at least. Increase the filter pump operating time if necessary.  
**Note:** If an Intex filter pump is attached to the system, set the pump switch to on "I" position.
- After a heavy rain or if the pool is dirty, press the "BOOST" button to shock the pool again.



### 7. Stand-by/power saving mode:

- When the cycle ends, the green "SLEEP" indicator on the control panel lights up and the LED display flashes "93". The system is now in Stand-By mode. After a while, it shuts down and sets itself in a Power Saving mode. The system will automatically turn itself back on in 24 hours, starting its daily cycle of chlorine production.
- The "SLEEP" indicator stays on, while the system is in the Power Saving mode. The LED display however, goes blank after 5 minutes. Press any button ( or ) to view the last LED code.



### 8. Electrode Self-Clean cycle:

- Press and hold button for 5 seconds until the LED display flashes "10". Depending on your pool water calcium hardness level, press button again to select the self-clean cycle time as below. Total of 3 settings: 14 hours, 10 hours and 06 hours.

| Calcium Hardness | Self-clean cycle time           |
|------------------|---------------------------------|
| 0 - 150 ppm      | Reverse polarity every 14 hours |
| 150 - 250 ppm    | Reverse polarity every 10 hours |
| 250 - 350 ppm    | Reverse polarity every 06 hours |



**NOTE:** The life of the cell varies depending on water conditions, pool usage and operating time of the device. Select 14 hours cycle time to maximize the life of the electrolytic cell if the calcium hardness level is up to 150 ppm. Manual routine cleaning and maintenance will further lengthen the life of the electrolytic cell.

- With the desired self-clean hours showing, press button to lock the keypad controls and the LED display will return to the normal operating time. The system will reverse the polarity of the electrode (5) every time according to the selected hours.

**NOTE:** If you forget to lock the keypad controls, the system will automatically lock it and start working 5 seconds later.

## LED CODE CHART

| LED Reading | Definitions                                                                   |
|-------------|-------------------------------------------------------------------------------|
| 80          | Boost Mode                                                                    |
| 00          | Stand-By Mode (Start-up)                                                      |
| 01          | Minimum Operating Hour (1 hour remaining)                                     |
| 02          | Operating Hours (2 hours remaining)                                           |
| 03          | Operating Hours (3 hours remaining)                                           |
| 04          | Operating Hours (4 hours remaining)                                           |
| 05          | Operating Hours (5 hours remaining)                                           |
| 06          | Operating Hours (6 hours remaining)                                           |
| 07          | Operating Hours (7 hours remaining)                                           |
| 08          | Operating Hours (8 hours remaining)                                           |
| 09          | Operating Hours (9 hours remaining)                                           |
| 10          | Operating Hours (10 hours remaining)                                          |
| 11          | Operating Hours (11 hours remaining)                                          |
| 12          | Maximum Operating Hours (12 hours remaining)                                  |
| 90          | Alarm Code(Low Pump Flow/No Pump Flow)                                        |
| 91          | Alarm Code (Low Salt Level)                                                   |
| 92          | Alarm Code (High Salt Level)                                                  |
| 93          | Stand-By Mode (Operating Process finished)                                    |
| "BLANK"     | No Power or "Power Saving Mode" waiting to start next Saltwater System cycle. |

## IMPORTANT

When Code "90" alarm is shown, ensure the timer of the filter pump is set one (1) hour longer than the Saltwater System.  
If the filter pump does not have a built-in timer, the filter pump needs to be turned on/off manually every day.

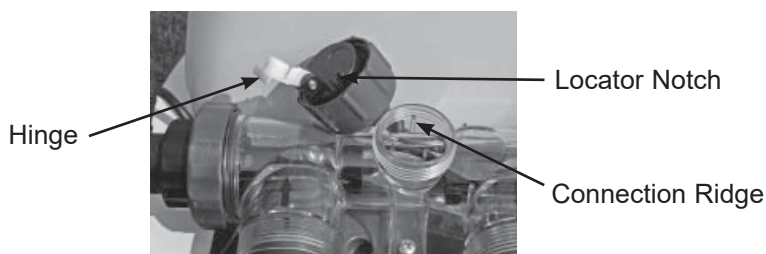
## MAINTENANCE

### IMPORTANT

**Unplug the power cord before cleaning your system. Also close the plunger valves on your pool or insert the black hat-like plugs in the strainer opening to prevent water spillage. After completing all maintenance tasks, you must plug the power cord back in and open the plunger valves or remove the plugs.**

#### Flow Sensor Cleaning

1. In a counter-clockwise motion unscrew the collar of the flow sensor (6) and remove it from the electrolytic cell conduit. See "Part Reference".
2. If deposits and debris are seen on the surface of the flow sensor, then use a garden hose to wash it off.



3. If flushing with water does not remove the deposits, use a plastic brush to clean the surface and the hinge if necessary. Do not use a metal brush.
4. After the flow sensor has been inspected and cleaned, align the locator notch on the flow sensor to the connection ridge in the conduit. Now turn the collar in a clockwise motion, tightening the sensor back into its position. Do not overtighten.

#### Titanium and E.C.O. Electrodes Cleaning

The titanium electrode and E.C.O. electrodes have a self cleaning function incorporated into the electronic control's programming. In most cases this self cleaning action will keep the electrodes working at optimum efficiency. If the pool water is hard (high mineral content) the electrodes may require periodic manual cleaning. To maintain maximum performance, we recommend that you open and visually inspect the titanium and E.C.O. electrodes (4 & 5) monthly.

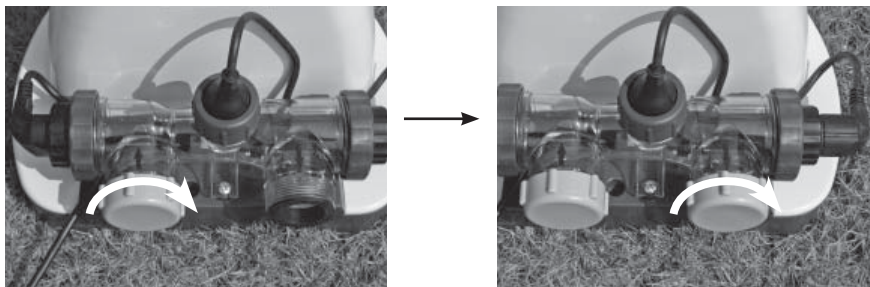
The following steps provide instructions on how to clean your cell.

#### Inspection and cleaning:

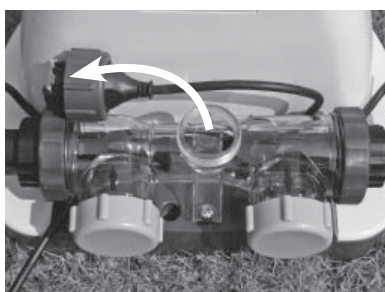
1. Switch off the unit, unplug the power cord from the electrical socket.
2. **For filter pumps with 1-1/4" (32mm) hose size** - To prevent water from flowing out of the pool, unscrew the strainer grids from the strainer connectors and insert the hat-like plugs into the strainer connectors.  
**For filter pumps with 1-1/2" (38mm) hose size** - Turn both plunger valve handles fully clockwise until they stop. This closes the valve, prevents the water from flowing out of the pool.

## MAINTENANCE (continued)

3. Disconnect the 2 hoses from the Saltwater System, and attach the cell covers (9) to the inlet and outlet of the electrolytic cell (3).



4. Unscrew the collar of the flow sensor (6) and pull out the flow sensor from the electrolytic cell (3) housing.



5. Pour kitchen grade vinegar into the electrolytic cell (3) to immerse the titanium and ECO electrodes. Soak for 1 hour.



6. Open one side of the cell cover (9), drain and properly dispose of the vinegar. Connect the hose which goes from the pool to the cell. Flush the electrolytic cell housing with the pool water.



7. Reverse steps 3, 4, 5 and 6 to reconnect the electrolytic cell.

## MAINTENANCE (continued)

### INTEX® TEST STRIPS (PACKED WITH THE PRODUCT)

The Test Strips can test the "Free Chlorine", "pH", "Calcium Hardness" and "Total Alkalinity" levels at the same time. We recommend that you test the water chemistry weekly, and maintain the chlorine concentration at 0.5-3.0 ppm.

#### Directions and Use

1. Dip the entire strip into the water and remove immediately.
2. Hold the strip level for 15 seconds. Do not shake excess water from the strip.
3. Now compare the strip pad to the color chart on the packaging label. If necessary, adjust the chemical level in the pool water. It is very important, to use the proper technique when testing the water's chemical level. Read and follow the written strip instructions carefully.

### LONG TERM STORAGE

1. Disconnect the power cord from the electrical outlet.
2. After the pool is completely empty, disconnect the Saltwater System from the hoses by reversing the installation instructions.
3. Air-dry the unit before you store it. This might be a good time to visually inspect and clean the electrolytic cell.
4. Store the unit and accessories in a dry place. The temperature should be controlled, between 32 degrees Fahrenheit (0 degrees Celsius) and 97 degrees Fahrenheit (36 degrees Celsius).
5. The original package can be used for storage.



## POOL MAINTENANCE & CHEMICAL DEFINITIONS

| Preferred Water Chemistry Reading |         |               |         |
|-----------------------------------|---------|---------------|---------|
|                                   | Minimum | Ideal         | Maximum |
| Free Chlorine                     | 0       | 0.5 - 3.0 ppm | 5.0 ppm |
| Combined Chlorine                 | 0       | 0 ppm         | 0.2 ppm |
| pH                                | 7.2     | 7.4 - 7.6     | 7.8     |
| Total Alkalinity                  | 40 ppm  | 80 ppm        | 120 ppm |
| Calcium Hardness                  | 50 ppm  | 100 - 250 ppm | 350 ppm |
| Stabilizer (Cyanuric Acid)        | 10 ppm  | 20 - 40 ppm   | 50 ppm  |

|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Free Chlorine</b>              | - Is the chlorine residual present in pool water.                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Combined Chlorine</b>          | - Is formed by the reaction of free chlorine with ammonia wastes.<br>Result if too high - Sharp chlorinous odor, eye irritation.                                                                                                                                                                                                                                                                                                                                     |
| <b>pH</b>                         | - A value that indicates how acidic or basic a solution is.<br>Result if too low - Corroded metals, eye & skin irritation, destruction of total alkalinity.<br>Result if too high - Scale formation, cloudy water, shorter filter runs, eye & skin irritation, poor chlorine efficiency.                                                                                                                                                                             |
| <b>Total Alkalinity</b>           | - Indicates the degree of the water's resistance to change in pH. It determines the speed and ease of pH change, so always adjust total alkalinity before adjusting the pH level.<br>Result if too low - Corroded metals, eye & skin irritation. Low alkalinity will cause the pH to be unstable. Any chemical added to the water will have an affect on pH.<br>Result if too high - Scale formation, cloudy water, eye & skin irritation, poor chlorine efficiency. |
| <b>Calcium Hardness</b>           | - Refers to the amount of calcium and magnesium dissolved in the water.<br>Result if too high - Eye & skin irritation, difficulty balancing water and poor chlorine efficiency. Scale will form and will cause the water to become cloudy.                                                                                                                                                                                                                           |
| <b>Stabilizer (Cyanuric Acid)</b> | - Stabilizers extend the life of chlorine in swimming pools.                                                                                                                                                                                                                                                                                                                                                                                                         |

- Do not add pool chemicals directly to the skimmer. This may damage the cell.
- Maintaining a salt and sanitizer level above the recommended range can contribute to the corrosion of the pool equipment.
- Check the expiry date of the test kit as the test results may be inaccurate if the kit is used after that date.
- If, due to heavy pool usage, it is required to increase the sanitizer level, then use a chemical based on Trichloro-s-triazinetriene or sodium dichloro-s-triazinetriene dihydrate.

## TROUBLESHOOTING GUIDE

| PROBLEM                   | CAUSE                                                                                                                                                                                                                                                                                                                                                                        | SOLUTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INSUFFICIENT CHLORINE     | <ul style="list-style-type: none"> <li>Insufficient operating hours of the Saltwater System.</li> <li>The salt level in the pool water is less than 2000ppm. This is insufficient.</li> <li>Chlorine loss due to intense sunlight exposure.</li> <li>The bather load has increased.</li> <li>Clogged or dirty electrolytic cell.</li> <li>High UV level exposure.</li> </ul> | <ul style="list-style-type: none"> <li>Increase the daily Saltwater System operating time. See "Operating Instructions".</li> <li>Check the salt level with the Test Kit. Adjust as needed. See "Salt &amp; Pool Water Volumes".</li> <li>Use a pool cover when the pool is not in use and/or when the unit is operating.</li> <li>Increase the daily Saltwater System operating time. See "Operating Instructions".</li> <li>Remove the cell for inspection, clean it if necessary. See "Maintenance".</li> <li>Cover the pool with a pool cover for 2 days with the device running and then test the water using the test strips.</li> <li>If the pool is clean and clear, add stabilizer to the water and then test the water with the device running.</li> </ul> |
| WHITE FLAKES IN THE WATER | <ul style="list-style-type: none"> <li>Excessive calcium hardness is present in pool water.</li> </ul>                                                                                                                                                                                                                                                                       | <ul style="list-style-type: none"> <li>Drain about 20 to 25% of the pool water and add fresh water to decrease the calcium hardness. Inspect the electrolytic cell for scale buildup. Clean the electrolytic cell if necessary.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| NO LED DISPLAY            | <ul style="list-style-type: none"> <li>No power supply.</li> <li>RCD/GFCI has not reseted.</li> <li>A power fuse has blown.</li> <li>LED failure.</li> </ul>                                                                                                                                                                                                                 | <ul style="list-style-type: none"> <li>Find out the switch and turn on.</li> <li>Reset the RCD/GFCI.</li> <li>Contact Intex Service Center.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**WARNING:** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## TROUBLESHOOTING GUIDE (continued)

| LED PANEL CODE                                                                                           | PROBLEM                                                                                                                               | SOLUTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LED Panel Code Flash & Alarm On ( <b>NOTE:</b> Always turn off the power before cleaning and servicing). |                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                         | 1. Filter pump not attached to system and/or switch on.                                                                               | <ul style="list-style-type: none"> <li>Ensure filter pump is attached and operating. See "Setup Instruction".</li> </ul>                                                                                                                                                                                                                                                                                                                                                                 |
|                                                                                                          | 2. Circulation line is blocked.                                                                                                       | <ul style="list-style-type: none"> <li>If your unit has plunger valves, ensure that they are open.</li> <li>Clear your filter cartridge and cell from debris and dirt. See "Maintenance".</li> <li>Release all trapped air in the circulation line. See the filter pump manual.</li> </ul>                                                                                                                                                                                               |
|                                                                                                          | 3. Incorrect inlet and outlet hose direction.                                                                                         | <ul style="list-style-type: none"> <li>Check the direction of the inlet and the outlet hose. Reverse the hoses if necessary. See "Set Up Instructions".</li> </ul>                                                                                                                                                                                                                                                                                                                       |
|                                                                                                          | 4. Scale on the flow sensor.                                                                                                          | <ul style="list-style-type: none"> <li>Clean the flow sensor, paying special attention to the hinge. See "Maintenance".</li> </ul>                                                                                                                                                                                                                                                                                                                                                       |
|                                                                                                          | 5. Flow sensor cord is loose.                                                                                                         | <ul style="list-style-type: none"> <li>Plug the flow sensor firmly into the flow sensor receptacle.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                           |
|                                                                                                          | 6. Inner timer conflict between filter pump and saltwater system.                                                                     | <ul style="list-style-type: none"> <li>Reset both timers on the filter pump and saltwater system. See "Boost Cycle".</li> </ul>                                                                                                                                                                                                                                                                                                                                                          |
|                                                                                                          | 7. Flow sensor failure.                                                                                                               | <ul style="list-style-type: none"> <li>Contact Intex Service Center.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                          |
|                       | 1. Dirt or scale on titanium plates.                                                                                                  | <ul style="list-style-type: none"> <li>Remove the electrolytic cell for inspection. Clean it if necessary. See "Maintenance".</li> </ul>                                                                                                                                                                                                                                                                                                                                                 |
|                                                                                                          | 2. Low salt level / No salt.                                                                                                          | <ul style="list-style-type: none"> <li>Add salt. See "Salt &amp; Pool Water Volumes".</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                                                                          | 3. Electrolytic cell cord is loose.                                                                                                   | <ul style="list-style-type: none"> <li>Ensure that the cell cord is plugged firmly into the cell housing receptacle.</li> </ul>                                                                                                                                                                                                                                                                                                                                                          |
|                                                                                                          | 4. Possible electrolytic cell failure.                                                                                                | <ul style="list-style-type: none"> <li>Contact Intex Service Center. Replace the cell if needed.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                              |
|                       | 1. High salt level.<br>2. Water temperature > 35°C.<br>3. Titanium electrode failure.                                                 | <ul style="list-style-type: none"> <li>Partially drain the pool and refill it with fresh water. See "Salt &amp; Pool Water Volumes".</li> <li>Contact Intex Service Center.</li> </ul>                                                                                                                                                                                                                                                                                                   |
|                                                                                                          | 1. LED display is off and the "SERVICE" light is on - the system does not power up.<br>2. Caused by high humidity.<br>3. PCB failure. | <ul style="list-style-type: none"> <li>Household voltage is too high or too low (<math>\pm 20\%</math>). Check the voltage is within the range stated on the device housing.</li> <li>Run the system during midday and avoid running it during dawn, foggy or raining time. Place a piece of tile or similar pad, 15"x15" (38x38 cm) in size, between the device and the ground to keep ground water evaporation away from the system.</li> <li>Contact Intex Service Center.</li> </ul> |
|                                                                                                          |                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## IMPORTANT

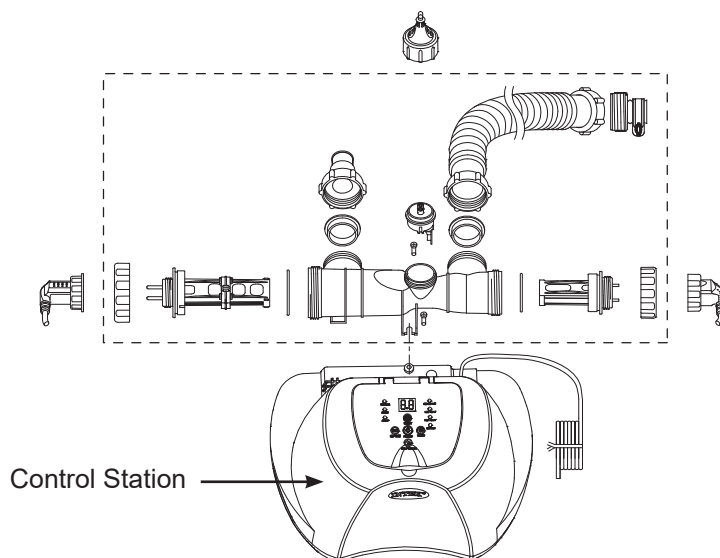
If you continue to experience difficulty, please contact our Consumer Service Department for assistance. See separate "Authorized Service Centers" sheet.

## CONTROL STATION REPLACEMENT

**Tools required:** One (1) Phillips screwdriver

If only the control station **(13)** needs to be replaced as instructed by the service center, remove all the components inside the dotted frame and keep them in a safe place for later use.

Once you have received the new replacement control station, reinstall all the components from the previous unit to the new control station.



## GENERAL AQUATIC SAFETY

Water recreation is both fun and therapeutic. However, it involves inherent risks of injury and death. To reduce your risk of injury, read and follow all product, package and package insert warnings and instructions. Remember, however, that product warnings, instructions and safety guidelines cover some common risks of water recreation, but do not cover all risks and dangers.

For additional safeguards, also familiarize yourself with the following general guidelines as well as guidelines provided by nationally recognized Safety Organizations:

- Demand constant supervision. A competent adult should be appointed as a "lifeguard" or water watcher, especially when children are in and around the pool.
- Learn to swim.
- Take the time to learn CPR and first aid.
- Instruct anyone who is supervising pool users about potential pool hazards and about the use of protective devices such as locked doors, barriers, etc.
- Instruct all pool users, including children what to do in case of an emergency.
- Always use common sense and good judgement when enjoying any water activity.
- Supervise, supervise, supervise.

For additional information on safety, please visit

- The Association of Pool and Spa Professionals: The Sensible Way to Enjoy Your Aboveground/Onground Swimming Pool [www.nspi.org](http://www.nspi.org)
- American Academy of Pediatrics: Pool Safety for Children [www.aap.org](http://www.aap.org)
- Red Cross [www.redcross.org](http://www.redcross.org)
- Safe Kids [www.safekids.org](http://www.safekids.org)
- Home Safety Council: Safety Guide [www.homesafetycouncil.org](http://www.homesafetycouncil.org)
- Toy Industry Association: Toy Safety [www.toy-tia.org](http://www.toy-tia.org)

## LIMITED WARRANTY

Your Krystal Clear Saltwater System® has been manufactured using the highest quality materials and workmanship. All Intex products have been inspected and found free of defects prior to leaving the factory. This Limited Warranty applies only to the Krystal Clear Saltwater System® and accessories listed below.

The provisions of this Limited Warranty apply only to the original purchaser and is not transferable. This Limited Warranty is valid for the period noted below from the date of the initial retail purchase. Keep your original sales receipt with this manual, as proof of purchase will be required and must accompany warranty claims or the Limited Warranty is invalid.

Krystal Clear Saltwater System® Warranty – 2 Years

Titanium electrode Warranty – 1 Year

E.C.O. electrode Warranty – 1 Year

Hoses, Plunger Valves & Fittings Warranty – 180 days

If a manufacturing defect is found within the periods noted above, please contact the appropriate Intex Service Center listed in the separate "Authorized Service Centers" sheet. The Service Center will determine the validity of the claim. If the Service Center directs you to return the product, please carefully package the product and send with shipping and insurance prepaid to the Service Center. Upon receipt of the returned product, the Intex Service Center will inspect the item and determine the validity of the claim. If the provisions of this warranty cover the item, the item will be repaired or replaced at no charge.

Any and all disputes regarding the provisions of this Limited Warranty shall be brought before an informal dispute settlement board and unless and until the provisions of these paragraphs are carried forth, no civil action may be instituted. The methods and procedures of this settlement board shall be subject to the rules and regulations set forth by the Federal Trade Commission (F.T.C.). IMPLIED WARRANTIES ARE LIMITED TO THE TERMS OF THIS WARRANTY AND IN NO EVENT SHALL INTEX, THEIR AUTHORIZED AGENTS OR EMPLOYEES BE LIABLE TO THE BUYER OR ANY OTHER PARTY FOR DIRECT OR CONSEQUENTIAL DAMAGES OR LIABILITIES. Some states, or jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This Limited Warranty does not apply if the products are subject to negligence, abnormal use or operation, accident, improper operation, improper voltage or current contrary to operating instructions, or to damage by circumstances beyond Intex's control, including but not limited to, ordinary wear and tear and damage caused by exposure to fire, flood, freezing, rain, or other external environmental forces. This Limited Warranty applies only to those parts and components sold by Intex. The Limited Warranty does not cover unauthorized alterations, repairs or disassembly by anyone other than Intex Service Center personnel.

**DO NOT GO BACK TO THE PLACE OF PURCHASE FOR RETURN OR REPLACEMENT. IF YOU ARE MISSING PARTS OR NEED ASSISTANCE, PLEASE CALL US TOLL-FREE (FOR U.S. AND CANADIAN RESIDENTS): 1-800-234-6839 OR VISIT OUR WEBSITE: WWW.INTEXCORP.COM.**

Proof of Purchase must accompany all returns or the warranty claim will be invalid.