

## IMPORTANT SAFETY RULES

Please read, understand, and follow all instructions carefully before installing and using this product. Keep for future reference.

# QS 200

Krystal Clear™ Saltwater System  
Certified Model Number CS2220  
220 – 240 V~, 50/60 Hz



For illustrative purposes only.

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Due to a policy of continuous product improvement, Intex reserves the right to change specifications and appearance, which may result in updates to the instruction manual without notice.

# INTEX®

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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

- This Saltwater System is designed only to produce sodium hypochlorite. It does not monitor or control sodium hypochlorite levels in the pool. It is the pool owner's responsibility for monitoring and maintaining free chlorine levels in the recommended range of 1.0 to 3.0 parts per million (ppm). It is the pool owner's responsibility to check, on a regular basis, the free chlorine level while the pool pump is running and adjust the Saltwater System accordingly.
- Always supervise children and those with disabilities.
- Children must stay away from this product and electrical cord(s).
- Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
- Assembly and disassembly by adults only.
- The product must be supplied through a residual current device (RCD) having a rated residual operating current not exceeding 30mA.
- Always unplug this product from the electrical outlet before removing, cleaning, servicing or making any adjustment to the product.
- Do not bury the electrical cord. Locate the cord where it will not be damaged by lawn mowers, hedge trimmers and other equipment.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- 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.
- Keep this product more than 2m away from the pool.
- Keep the plug of this product more than 3.5m away from the pool.
- Position this product away from the pool, so as to prevent children from climbing on it and accessing the pool.
- This product is for use with storable pools only. Do not use with permanently installed pools. A storable pool is constructed so that it may be readily disassembled for storage and reassembled to its original configuration.
- The appliance is intended only for household use.
- This product is intended to be used only for the purposes described in the manual!
- All the information pertaining to the installation, cleaning and maintenance, please refer to the below paragraphs of the manual.
- In order to avoid a hazard due to inadvertent resetting of the thermal cut-out, this appliance must not be supplied through an external switching device, such as a timer, or connected to a circuit that is regularly switched on and off by the utility.

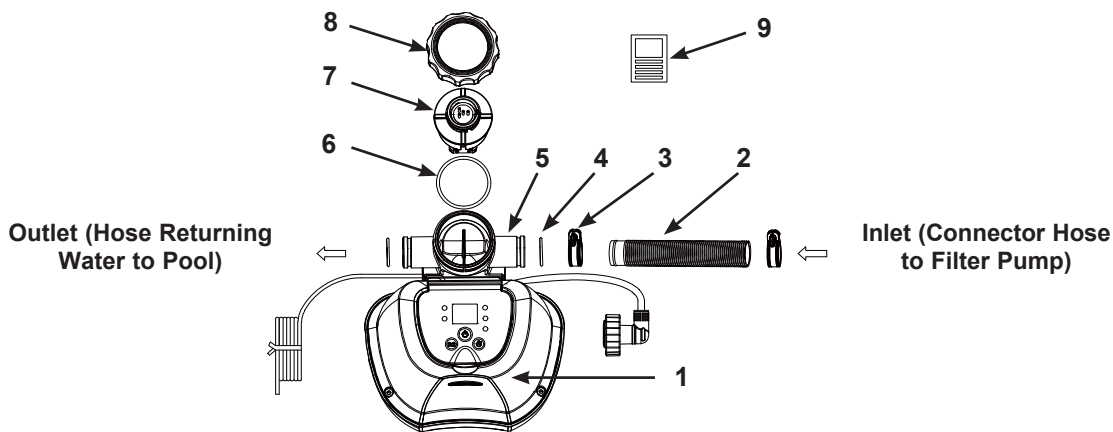
**FAILURE TO FOLLOW THESE WARNINGS MAY RESULT IN PROPERTY DAMAGE, ELECTRIC SHOCK, ENTANGLEMENT OR OTHER SERIOUS INJURY OR DEATH.**

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. No tools are required for the assembly.

REF. NO.	DESCRIPTION	QTY.	SPARE PART NO.
1	CONTROL STATION	1	13092
2	CONNECTOR HOSE	1	11873
3	HOSE CLAMP	2	11489
4	CELL HOUSING O-RING	2	12947
5	CELL HOUSING	1	13088A
6	TITANIUM ELECTRODE O-RING	1	13094
7	TITANIUM ELECTRODE	1	13093
8	ELECTROLYTIC CELL NUT	1	13095
9	TEST STRIPS	1	19635

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

## PRODUCT SPECIFICATIONS

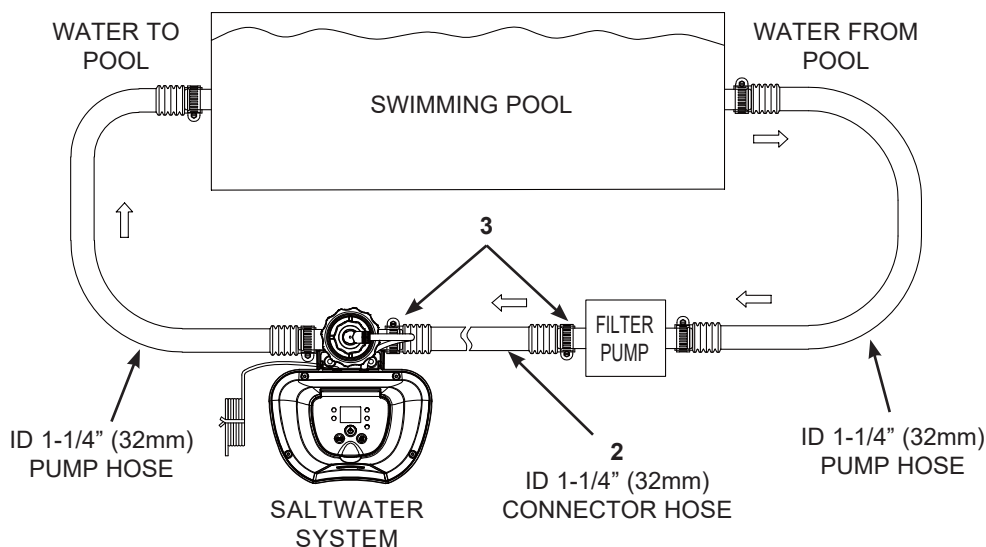
Certified Model Number:	CS2220
Wattage:	20 W
Ideal Salt Level:	3000 ppm (parts per million)
Maximum sodium hypochlorite output/hour:	2 grams/hour
Filter pump minimum and maximum flow rate:	300 gallons/hour (1136 liters/hour) / 1000 gallons/hour (3785 liters/hour)
Limited Warranty:	see "Limited Warranty"
For pools and filter pumps with 1-1/4" (32mm) hose connection fittings.	

## SETUP INSTRUCTIONS

### IMPORTANT

- The Saltwater System requires a separate filter pump [300~1000 gph (1136~3785 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 below. This location extends the life of the titanium plates.
- Remove any large debris and particles such as leaves, sand, insects and bugs from the pool water first.

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 (2) to the Saltwater System inlet with a hose clamp (3).
5. Go directly to step 6 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.
6. Disconnect the water return hose from the filter pump connection and connect it to the Saltwater System outlet.
7. Connect the connector hose (2) to the filter pump outlet connection with a hose clamp (3). Tighten securely.
8. Remove the black hat-like plugs that prevent water from flowing out of the pool. Now, return the strainer grids to the strainer connectors.



## SALT & POOL WATER VOLUMES

### • Which kind of salt to use:

A specific type of salt must be used in swimming pools to protect the equipment. When buying salt, check that the salt conforms with the EN16401 standard for Chemicals for use in swimming pools. Consult your local pool store or contact the salt manufacturer if you need help with verifying you have the correct salt. **Do not use iodized salt, salt containing anti-caking agent (E535) or yellow (yellow prussiate of soda) colored salt.**

When choosing the pool salt for use within the EU, please also note that the European Chemicals Agency (ECHA) requires that salt (sodium chloride) be used from registered/authorized manufacturers listed in the ECHA Article 95 List in accordance with the Biocidal Product Regulation (BPR, Regulation (EU) 528/2012). For more information, please consult ECHA's website at <https://echa.europa.eu/information-on-chemicals/active-substance-suppliers>.


### Use only Sodium Chloride Salts

Use only sodium chloride (NaCl) salt that is at least 99.4% 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. Salt is added to the pool water and the electrolytic cell uses the salt to create sodium hypochlorite. 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 sodium hypochlorite 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 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.

### • 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  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 (pool size in feet)	Cubic Meters (pool size in meters)
<b>Rectangular</b>	Length x Width x Average Depth x 7.5	Length x Width x Average Depth
<b>Circular</b>	Length x Width x Average Depth x 5.9	Length x Width x Average Depth x 0.79
<b>Oval</b>	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)
<b>INTEX ABOVE GROUND POOLS (AGP's)</b>							
<b>EASY SET® POOL</b>	244cmx61cm (8'x24")	513	1942	13	6	5	2
	244cmx76cm (8'x30")	639	2419	16	7	5	2
	305cmx61cm (10'x24")	813	3077	20	9	7	3
	305cmx76cm (10'x30")	1018	3853	25	12	9	4
	366cmx76cm (12'x30")	1485	5621	37	17	13	6
	396cmx84cm (13'x33")	1926	7290	48	22	17	8
<b>METAL FRAME POOL</b>	244cmx51cm (8'x20")	483	1828	13	6	5	2
	305cmx76cm (10'x30")	1185	4485	30	13	9	4
	366cmx76cm (12'x30")	1718	6503	43	20	15	7
<b>PRISM FRAME™ POOL</b>	305cmx76cm (10'x30")	1185	4485	30	13	10	5
	366cmx76cm (12'x30")	1718	6503	43	20	15	7
<b>PRISM FRAME™ RECT. POOL</b>	300cmx175cmx80cm (9'10"x5'9"x31½")	935	3539	23	11	7	3
	400cmx200cmx100cm (13'1½"x6'6¼"x39½")	1806	6836	45	21	15	7
<b>SMALL RECT. FRAME POOL</b>	220cmx150cmx60cm (7'2½"x4'11"x23½")	439	1662	11	5	3	1
	260cmx160cmx65cm (8'6½"x5'3"x25½")	603	2282	16	7	5	2
	300cmx200cmx75cm (9'10"x6'6¼"x29½")	1013	3834	25	12	9	4
	450cmx220cmx84cm (14'9¼"x7'2½"x33")	1883	7127	48	22	17	8

## 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 0.35% of the salt, i.e. 100 Lbs (45 Kgs) salt x 0.35% = 0.35 Lbs (0.16 Kgs) cyanuric acid.

Pool Size		Water Capacity (Calculated at 90% for Frame Pool and 80% for Easy Set & Oval Pool)		Cyanuric Acid Needed for Startup 0.01g/L (10ppm)	
		(Gals)	(Liters)	(oz)	(g)
<b>INTEX ABOVE GROUND POOLS (AGP's)</b>					
<b>EASY SET® POOL</b>	244cmx61cm (8'x24")	513	1942	0.7	19
	244cmx76cm (8'x30")	639	2419	0.9	25
	305cmx61cm (10'x24")	813	3077	1.1	31
	305cmx76cm (10'x30")	1018	3853	1.4	39
	366cmx76cm (12'x30")	1485	5621	2.0	56
	396cmx84cm (13'x33")	1926	7290	2.6	73
<b>METAL FRAME POOL</b>	244cmx51cm (8'x20")	483	1828	0.7	19
	305cmx76cm (10'x30")	1185	4485	1.6	45
	366cmx76cm (12'x30")	1718	6503	2.3	65
<b>PRISM FRAME™ POOL</b>	305cmx76cm (10'x30")	1185	4485	1.6	45
	366cmx76cm (12'x30")	1718	6503	2.3	65
<b>PRISM FRAME™ RECT. POOL</b>	300cmx175cmx80cm (9'10"x5'9"x31½")	935	3539	1.3	35
	400cmx200cmx100cm (13'1½"x6'6¼"x39½")	1806	6836	2.4	68
<b>SMALL RECT. FRAME POOL</b>	220cmx150cmx60cm (7'2½"x4'11"x23½")	439	1662	0.6	17
	260cmx160cmx65cm (8'6½"x5'3"x25½")	603	2282	0.8	23
	300cmx200cmx75cm (9'10"x6'6¼"x29½")	1013	3834	1.4	39
	450cmx220cmx84cm (14'9¼"x7'2½"x33")	1883	7127	2.5	71



## 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)	
<b>INTEX ABOVE GROUND POOLS (AGP's)</b>							
<b>EASY SET® POOL</b>	244cmx61cm (8'x24")	513	1942	2	2	2	3
	244cmx76cm (8'x30")	639	2419	2	2	2	3
	305cmx61cm (10'x24")	813	3077	3	3	3	4
	305cmx76cm (10'x30")	1018	3853	4	4	4	5
	366cmx76cm (12'x30")	1485	5621	5	5	5	6
	396cmx84cm (13'x33")	1926	7290	7	7	7	8
<b>METAL FRAME POOL</b>	244cmx51cm (8'x20")	483	1828	2	2	2	3
	305cmx76cm (10'x30")	1185	4485	4	4	4	5
	366cmx76cm (12'x30")	1718	6503	6	6	6	7
<b>PRISM FRAME™ POOL</b>	305cmx76cm (10'x30")	1185	4485	4	4	4	5
	366cmx76cm (12'x30")	1718	6503	6	6	6	7
<b>PRISM FRAME™ RECT. POOL</b>	300cmx175cmx80cm (9'10"x5'9"x31½")	935	3539	3	3	4	5
	400cmx200cmx100cm (13'1½"x6'6¾"x39½")	1806	6836	6	6	7	8
<b>SMALL RECT. FRAME POOL</b>	220cmx150cmx60cm (7'2½"x4'11"x23½")	439	1662	1	2	2	3
	260cmx160cmx65cm (8'6½"x5'3"x25½")	603	2282	2	2	2	3
	300cmx200cmx75cm (9'10"x6'6¾"x29½")	1013	3834	4	4	4	5
	450cmx220cmx84cm (14'9¼"x7'2½"x33")	1883	7127	7	7	7	8

**IMPORTANT**

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

**NOTE:** If an Intex filter pump has a timer on the GFCI, the maximum run time is 10 hours. The timer will need to be manually reset in order to extend the operating time.

## SALT CALCULATION FORMULA FOR ALL POOLS

Salt Needed for Startup (Lbs)	Salt Needed for Startup (Kgs)	Salt Needed when Low Salt Detected (Lbs)	Salt Needed when 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 Low Salt Detected (CODE "91")	
(Gals)	(Liters)	(Lbs)	(Kgs)	(Lbs)	(Kgs)
500	1893	13	6	5	2
750	2839	20	9	7	3
1000	3785	25	11	8	4
1250	4731	31	14	11	5
1500	5678	38	17	13	6
1750	6624	44	20	15	7
2000	7570	50	23	17	8
2200	8327	55	25	20	9

## CYANURIC ACID TABLE FOR COMMON NON-INTEX POOLS

Water Capacity		Cyanuric Acid Needed for Startup 0.01g/L (10ppm)	
(Gals)	(Liters)	(oz)	(g)
500	1893	0.7	19
750	2839	1	28
1000	3785	1.3	38
1250	4731	1.7	47
1500	5678	2	57
1750	6624	2.3	66
2000	7570	2.7	76
2200	8327	2.9	83

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

Water Capacity		Operating Time (hours) at different ambient/air temperatures			Recommend 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)	
500	1893	2	2	2	3
750	2839	3	3	3	4
1000	3785	4	4	4	5
1250	4731	4	5	5	6
1500	5678	5	5	6	7
1750	6624	6	6	6	7
2000	7570	7	7	7	8
2200	8327	8	8	8	9

# OPERATION INSTRUCTIONS



**1. Turn on the filter pump.**

**2. Start up the unit:**

Plug the power cord into the electrical outlet and test the household socket GFCI (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.



(1 to 12 hours max per cycle)

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.

**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. A green "WORKING" indicator on the control panel will light up within a few seconds to indicate that the saltwater system has started sodium hypochlorite production, the LED will display the remaining chlorinator hours until it's finished. 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 10 seconds later.

**5. Readjust operating time if necessary:**

The operating hours can be re-adjusted if necessary. Press  button and the current programmed time will flash. Repeat steps 3 to 4.

**6. 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 sodium hypochlorite 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.



## LED CODE CHART

LED Reading	Definitions
00	Stand-By Mode (Start-up)
01	Minimum Operating Hour (1 hour remaining)
02 - 11	Operating Hours (2 - 11 hours remaining)
12	Maximum Operating Hours (12 hours remaining)
90	Alarm Code (Low Pump Flow / No 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.

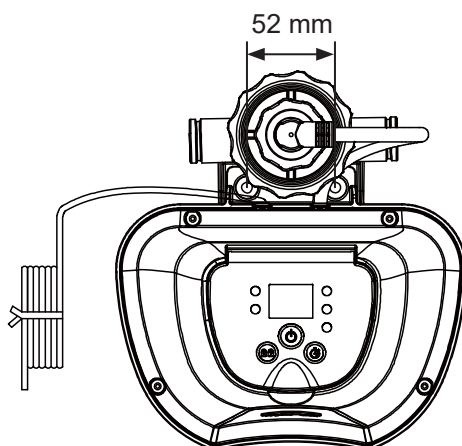
**IMPORTANT**

**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.**

## SALTWATER SYSTEM STATIONARY MOUNTING

Some countries, especially in the European community, require the product to be secured to the ground or to a base in a permanent upright position. Check with your local authorities to determine if there is a regulation in your area regarding above-the-ground swimming pool filter pumps. If yes, then the product can be mounted to a platform using the two holes located in the base. See drawing below.

The product can be mounted on a cement base or onto a wooden platform to prevent accidental tipping. Total assembly must exceed 18kg.



1. The mounting holes are 6.4 mm in diameter and spaced 52 mm apart.
2. Use two bolts and lock nuts with a maximum of 6.4 mm in diameter.

## MAINTENANCE

### IMPORTANT

**Unplug the power cord before cleaning your system. Also 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 remove the plugs.**

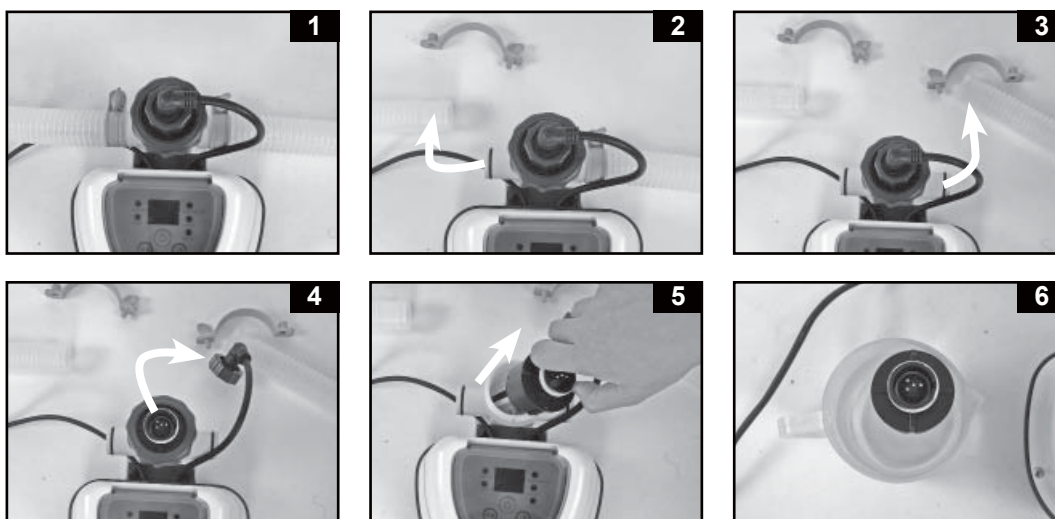
#### Titanium Electrode Cleaning

The titanium electrode has a self cleaning function incorporated into the electronic control's programming. In most cases this self cleaning action will keep the electrode working at optimum efficiency. If the pool water is hard (high mineral content) the electrode may require periodic manual cleaning. To maintain maximum performance, we recommend that you open and visually inspect the titanium electrode (7) 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. 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.
3. Disconnect the 2 hoses from the Saltwater System (**see drawings 1~3**).
4. Unscrew the titanium electrode plug collar, disconnect the plug from the titanium electrode (**see drawing 4**).
5. Unscrew the cell nut, remove the titanium electrode from the cell housing (**see drawing 5**).
6. Place the titanium electrode in a container and pour kitchen grade vinegar into the container until the titanium electrode is immersed. Soak for 1 hour and then flush with a high-pressure garden hose (**see drawing 6**).
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 1.0-3.0 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	1.0 - 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	10 - 30 ppm	30 ppm

**Free Chlorine** - Is the chlorine residual present in pool water.

**Combined Chlorine** - Is formed by the reaction of free chlorine with ammonia wastes.  
Result if too high - Sharp chlorinous odor, eye irritation.

**pH** - A value that indicates how acidic or basic a solution is.  
Result if too low - Corroded metals, eye & skin irritation, destruction of total alkalinity.  
Result if too high - Scale formation, cloudy water, shorter filter runs, eye & skin irritation, poor chlorine efficiency.

**Total Alkalinity** - 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.  
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.  
Result if too high - Scale formation, cloudy water, eye & skin irritation, poor chlorine efficiency.

**Calcium Hardness** - Refers to the amount of calcium and magnesium dissolved in the water.  
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.

**Stabilizer - Stabilizers extend the life of chlorine in swimming pools.  
(Cyanuric Acid)**

- 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 trichlor, TCCA or dichloro.

## TROUBLESHOOTING GUIDE

PROBLEM	CAUSE	SOLUTION
INSUFFICIENT SODIUM HYPOCHLORITE	<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>• Sodium hypochlorite 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>• 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 the 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 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.</li> <li>• Contact Intex Service Center.</li> </ul>



## 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 a filter pump with the correct flow rate is attached and operating. See "Setup Instruction".</li> </ul>
	2. Circulation line is blocked.	<ul style="list-style-type: none"> <li>Remove the black hat-like plugs from the pool strainer connectors.</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 flow sensor pins inside the titanium electrode.	<ul style="list-style-type: none"> <li>Clean the titanium electrode. See "Maintenance" section.</li> </ul>
	5. Electrode cord is loose.	<ul style="list-style-type: none"> <li>Plug the cord into the electrode and tighten the plug collar firmly.</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 "Operating Instructions".</li> </ul>
	1. Dirt or scale on titanium plates.	<ul style="list-style-type: none"> <li>Remove primary 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.	<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> <li>Contact Intex Service Center.</li> </ul>
	2. Water temperature > 35°C.	
	3. Titanium electrode failure.	

### IMPORTANT

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

## 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.

This limited warranty is in addition to, and not a substitute for, your legal rights and remedies. To the extent that this warranty is inconsistent with any of your legal rights, they take priority. For example, consumer laws across the European Union provide statutory warranty rights in addition to the coverage you receive from this limited warranty: for information on EU-wide consumer laws, please visit the European Consumer Center website at [http://ec.europa.eu/consumers/ecc/contact\\_en/htm](http://ec.europa.eu/consumers/ecc/contact_en/htm).

The provisions of this limited warranty apply only to the original purchaser and are 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 document, as proof of purchase will be required and must accompany warranty claims or the limited warranty will be invalid.

Krystal Clear™ Saltwater System Warranty – 2 Years  
Titanium electrode Warranty – 2 Years  
Hoses & Fittings Warranty – 180 days

If you find a manufacturing defect in the Krystal Clear™ Saltwater System during the warranty periods noted above, please contact the appropriate Intex Service Center listed in the separate "Authorized Service Centers" sheet. If the item is returned as directed by the Intex Service Center, the Service Center will inspect the item and determine the validity of the claim. If the item is covered by the provisions of the warranty, the item will be repaired or replaced, with the same or comparable item (at Intex's choice) at no charge to you.

Other than this warranty, and other legal rights in your country, no further warranties are implied. To the extent possibly in your country, in no event shall Intex be liable to you or any third party for direct or consequential damages arising out of the use of your Krystal Clear™ Saltwater System, or Intex or its agents' and employees' actions (including the manufacture of the product). If your country does not allow the exclusion or limitation of incidental or consequential damages, this limitation or exclusion does not apply to you.

You should note that this limited warranty does not apply in the following circumstances:

- If the Krystal Clear™ Saltwater System is subject to negligence, abnormal use or application, accident, improper operation, improper voltage or current contrary to operating instructions, improper maintenance or storage;
- If the Krystal Clear™ Saltwater System is subject 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;
- To parts and components not sold by Intex; and/or
- To unauthorized alterations, repairs or disassembly to the Krystal Clear™ Saltwater System by anyone other than Intex Service Center personnel.

The costs associated with the loss of pool water, chemicals or water damages are not covered by this warranty. Injury or damage to any property or person is not covered by this warranty.

Read the owner's manual carefully and follow all instructions regarding proper operation and maintenance of your Krystal Clear™ Saltwater System. Always inspect your product prior to use. This limited warranty will be void if use instructions are not followed.