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**KRYSTAL CLEAR™ OZONE
& SALTWATER SYSTEM
MODEL ZS8110**

110 – 120 V~, 60 Hz, 0.6 A, WEATHERPROOF ENCLOSURE,
CSA ENCLOSURE 3, FOR USE WITH SWIMMING POOLS ONLY.

WARNING

**RISK OF ELECTRIC SHOCK. CONNECT ONLY TO A GROUNDING TYPE RECEPTACLE
PROTECTED BY A CLASS A GROUND FAULT CIRCUIT INTERRUPTER (GFCI).**

CAUTION

**TO ENSURE CONTINUED PROTECTION AGAINST SHOCK HAZARD, USE ONLY IDENTICAL
REPLACEMENT PARTS WHEN SERVICING. THIS PRODUCT IS FOR USE WITH STORABLE
ABOVE-GROUND POOLS ONLY. DO NOT USE WITH PERMANENTLY INSTALLED POOLS.**

13ZS8110***A0

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(Xiamen) Co., Ltd., Xiamen, Fujian, P.R.C. Made in China

CONFORMS TO

UL STD. 1081

CERTIFIED TO

CSA STD. C22.2

No. 108-01

ZS8110 KRYSTAL CLEAR™ OZONE & SALTWATER SYSTEM

08/28/2012

**Krystal Clear™ Ozone
& Saltwater System Model ZS8110
Replacement cell for the chlorine generating device Krystal Clear™ Ozone
& Saltwater System Model ZS8110.**

REGISTRATION NUMBER 31002, PEST CONTROL PRODUCTS ACT.

**This cell must only be used on this model of chlorine generating device.
Read the Label, the Installation Manual and Operation Manual of the chlorine
generating device Krystal Clear™ Ozone & Saltwater System Model ZS8110
before using.**

**Registrant: Intex Trading Ltd., 9th floor Dah Sing Financial Center, 108
Gloucester Road, Wanchai, Hong Kong
Canadian Agent: INTEX RECREATION CORP., 1665 Hughes Way, Long Beach,
CA 90810 Phone: 1-800-234-6839**

**Krystal Clear™ Ozone
& Saltwater System Model ZS8110**

**Replacement electrode for the copper releasing device Krystal Clear™ Ozone
& Saltwater System Model ZS8110.**

REGISTRATION NUMBER 31002, PEST CONTROL PRODUCTS ACT.

**This cell must only be used on this model of copper ionization device.
Read the Label, the Installation Manual and Operation Manual of the copper
ionization device Krystal Clear™ Ozone & Saltwater System Model ZS8110 before
using.**

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CA 90810 Phone: 1-800-234-6839**

Krystal Clear™ Ozone & Saltwater System Model ZS8110

IMPORTANT SAFETY RULES

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

REGISTRATION NUMBER 31002, PEST CONTROL PRODUCTS ACT

Don't forget to try these other fine Intex products: Pools, Pool
Accessories, Inflatable Pools and In-Home Toys, Airbeds and
Boats available at fine retailers or visit our website.

IMPORTANT! DO NOT RETURN PRODUCT TO STORE

To purchase parts and accessories or to obtain non-technical assistance,

Visit www.intexcorp.com

For technical assistance and missing parts call us toll-free (for U.S. and Canadian Residents):

1-800-234-6839

Monday through Friday, 8:30am to 5:00pm Pacific Time 187-*PO-R0-1308

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READ AND FOLLOW ALL INSTRUCTIONS WARNING

- Follow all aspects of the local and Canadian Electrical Code(s) when installing the Krystal Clear Ozone & Saltwater System Model **ZS8110**.
- 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 electrical cord(s).
- 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, replace damaged cord immediately. Use a qualified electrician to replace the cord.
- 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.
- Do not operate this product when the pool is occupied.
- Never use the pool if indicated chlorine level is more than 3ppm.
- This product is intended to be used only for the purposes described in the manual!
- Operating this product without water flowing through the system can cause a build up of flammable gases which can result in FIRE OR EXPLOSION.

WARNING: Staining of pool surfaces may occur due to deposits of copper salts. Excessive levels of copper will increase the probability of this occurrence.

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.

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

**Krystal Clear™
Ozone & Saltwater System
Model ZS8110**

CHLORINE GENERATOR
CONTROLS BACTERIA AND ALGAE
In Storable Swimming Pool Waters
Domestic

A maximum of 55 000 L of water can be treated with one Krystal Clear™ Ozone & Saltwater System Model ZS8110 unit.

Maximum output of hypochlorous acid equivalent to 0.3 kg of free available chlorine per day.

For swimming pools, a range of 1-3 ppm of free available chlorine must be maintained.

READ THE LABEL AND OPERATING MANUAL BEFORE USING.
KEEP OUT OF REACH OF CHILDREN.
REGISTRATION NO. 31002 PEST CONTROL PRODUCT ACT.

WARNING: operating Krystal Clear™ Ozone & Saltwater System Model ZS8110 without water flow through the cell can cause a build up of flammable gases which can result in FIRE OF EXPLOSION.

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PARTS LIST

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

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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.

Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

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

This equipment has been tested and found to comply with the limits for 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 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.

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PARTS REFERENCE (continued)			
Before assembling your product, please take a few minutes to check the contents and become familiar with all the parts.			
REF. NO.	DESCRIPTION	QTY	SPARE PART NO.
1	ADAPTOR A WITH THREADED COLLAR (OPTIONAL)	1	10849
2	L-SHAPE O-RING	2	11228
3	SCREW	4	11519
4	TITANIUM ELECTRODE NUT	1	11432
5	TITANIUM ELECTRODE	1	11374
6	O-RING ON TITANIUM PLATES	1	11515
7	FLOW SENSOR	1	11460
8	CONNECTOR HOSE WITH THREADED FITTINGS	1	10493
9	OZONE GENERATOR ASSEMBLY	1	11561
10	ELECTRONIC CONTROL STATION	1	11563
11	OZONE ASSEMBLY COVER PANEL	1	11652
12	CHLORINE TEST STRIPS	1	19635

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

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HOW THE CHLORINE IS GENERATED

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

Common salt (sodium chloride) is made up of two elements, sodium and chloride.

During the installation of your Ozone & Saltwater System, a measured quantity of salt is dissolved in the pool water to make it slightly salty. The pool water flows through the Ozone & 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.

HOW OZONE IS GENERATED

Ozone is made by drawing air through Corona Discharge (CD) cells that break down oxygen molecules, which then recombine into ozone molecules. Ozone gas is introduced to the pool circulation line using a venturi injector. Water passing through the injector creates a suction that pulls the ozone gas into the water. Ozone is to oxidize and reduce the organic matter

PRODUCT SPECIFICATIONS

Power:	110 - 120 Volt AC
Amperage:	1.1A
Ideal Salt Level:	3000 ppm (parts per million)
Maximum Chlorine Output/hour:	11 grams/hour
Ozone Output:	150 mg/hour
Filter pump minimum flow rate:	1500 - 4000 gallons/hour (5680 - 15140 liters/hour)
Limited Warranty:	see "Limited Warranty"

Maximum pool volume of 5500 L.

Maximum output of hypochlorous acid equivalent to 0.3 kg of free available chlorine per day.

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SETUP INSTRUCTIONS

IMPORTANT

- The Ozone & Saltwater System requires a separate filter pump [1500~4000 gph (5680~15140 lph)] to drive the water and function properly.
- The Ozone & 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 Ozone & Saltwater System and its accessories out of the packaging.
3. Place the Ozone & Saltwater System in line after the filter pump.
4. Connect the connector hose(8) to the Ozone & Saltwater System inlet.

Connecting the system to pump and pool with 1-1/2" (38mm) connections/hoses, install as follows:
Drawing #1

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 Ozone & Saltwater System.
2. Disconnect the water return hose from the filter pump connection and connect it to the Ozone & Saltwater System outlet.
3. Connect the connector hose(8) to the filter pump outlet connection.
4. Open the plunger valves to allow the water to flow.

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SETUP INSTRUCTIONS (continued)

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

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

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

1. Connect the connector hose (8) to the filter pump outlet connection with a large hose clamp. Tighten securely.

Connecting the system to other types of pool

After you have connected the Ozone & Saltwater System to the pump, connect it to the pool. This is depicted in Drawings #1.

Following are the common connection types:

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

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

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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 Ozone & 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 Ozone & 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 Ozone & 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 (pool size in feet)	Cubic Meters (pool size in meters) 1 cubic meter = 1000L
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

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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)							
	457cm x 84cm (15'x33")	2587	9792	65	30	20	10
	457cm x 91cm (15'x36")	2822	10681	65	30	20	10
	457cm x 107cm (15'x42")	3284	12430	80	35	20	10
	457cm x 122cm (15'x48")	3736	14141	95	45	25	10
EASY SET POOL	488cm x 107cm (16'x42")	3754	14209	95	45	25	10
	488cm x 122cm (16'x48")	4273	16173	110	50	30	15
	488cm x 132cm (16'x52")	4614	17464	115	50	30	15
	549cm x 107cm (18'x42")	4786	18115	120	55	30	15
	549cm x 122cm (18'x48")	5455	20647	135	60	35	15
	457cm x 91cm (15'x36")	3282	12422	80	35	20	10
CIRCULAR METAL FRAME POOL	457cm x 107cm (15'x42")	3861	14614	100	45	25	10
	457cm x 122cm (15'x48")	4440	16805	110	50	30	15
	488cm x 122cm (16'x48")	5061	19156	125	55	35	15
	549cm x 122cm (18'x48")	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	488cm x 122cm (16'x48")	5061	19156	125	55	35	15
	549cm x 122cm (18'x48")	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
SEQUOIA SPIRIT POOL SET OVAL FRAME POOL RECT. ULTRA FRAME POOL	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
	305cm x 549cm x 107cm (10'x18'42")	2885	10920	70	30	20	10
	366cm x 610cm x 122cm (12'x20'48")	4393	16628	110	50	30	15
	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

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INTEX POOLS CYANURIC ACID TABLE

Cyanuric acid is a chemical that reduces the loss of chlorine in water due to ultraviolet rays. To maintain maximum performance of the device, add cyanuric acid to the pool. We recommend that the cyanuric acid level be maintained between 30-100 ppm. 30ppm can be obtained by adding cyanuric acid at approximately 1% of the salt weight, i.e. if the user adds 100 Lbs (45 Kgs) of salt = 1 Lbs (0.45 Kgs) of cyanuric acid should be added. 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					
		(Gals)	(Liters)	(Lbs)	(Kgs)
INTEX ABOVE GROUND POOLS (AGP's)					
EASY SET® POOL	457cm x 84cm (15'x33")	2587	9792	0.6	0.3
	457cm x 91cm (15'x36")	2822	10681	0.7	0.3
	457cm x 107cm (15'x42")	3284	12430	0.8	0.4
	457cm x 122cm (15'x48")	3736	14141	0.9	0.4
	488cm x 107cm (16'x42")	3754	14209	0.9	0.4
	488cm x 122cm (16'x48")	4273	16173	1.1	0.5
	488cm x 132cm (16'x52")	4614	17464	1.2	0.5
	549cm x 107cm (18'x42")	4786	18115	1.2	0.5
	549cm x 122cm (18'x48")	5455	20647	1.4	0.6
CIRCULAR METAL FRAME POOL	457cm x 91cm (15'x36")	3282	12422	0.8	0.4
	457cm x 107cm (15'x42")	3861	14614	1.0	0.4
	457cm x 122cm (15'x48")	4440	16805	1.1	0.5
	488cm x 122cm (16'x48")	5061	19156	1.3	0.9
	549cm x 122cm (18'x48")	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
ULTRA FRAME® POOL	488cm x 122cm (16'x48")	5061	19156	1.3	0.6
	549cm x 122cm (18'x48")	6423	24311	1.6	0.7
	549cm x 132cm (18' x 52")	6981	26423	1.7	0.8
	610cm x 122cm (20' x 48")	7947	30079	2.0	0.9
	671cm x 132cm (22' x 52")	10472	39637	2.6	1.2
	732cm x 132cm (24' x 52")	12481	47241	3.1	1.4
	792cm x 132cm (26' x 52")	14667	55515	3.7	1.7
SEQUOIA SPIRIT® POOL SET	549cm x 122cm (18'x48")	4440	16805	1.1	0.5
	549cm x 122cm (18'x48")	5061	19156	1.3	0.6
	18'8" x 53" (569cm x 135cm)	6981	26423	1.7	0.8
OVAL FRAME POOL	305cm x 549cm x 107cm (10'x18'42")	2885	10920	0.7	0.3
	366cm x 610cm x 122cm (12'x20'48")	4393	16628	1.1	0.5
RECT. ULTRA FRAME POOL	457cm x 274cm x 122cm (15' x 9' x 48")	3484	13187	0.9	0.4
	549cm x 274cm x 132cm (18' x 9' x 52")	4545	17203	1.1	0.5
	610cm x 305cm x 132cm (20 x 10' x 52")	5835	22085	1.5	0.7
PISCINE RECTANGULAIRE ULTRA FRAME	732cm x 366cm x 132cm (24' x 12' x 52")	8403	31805	2.1	1.0
PISCINE RECTANGULAIRE ULTRA FRAME	975cm x 488cm x 132cm (32' x 16' x 52")	14364	54368	3.6	1.6

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English

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) Kgs		
INTEX ABOVE GROUND POOLS (AGP's)							
EASY SET[®] POOL	15' x 33" (457cm x 84cm)	2587	9792	1	1	2	4
	15' x 36" (457cm x 91cm)	2822	10681	1	1	2	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	2	3	4
	16' x 52" (488cm x 132cm)	4614	17464	2	2	3	4
	18' x 42" (549cm x 107cm)	4786	18115	2	2	3	4
	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	2	3	4
	16' x 48" (488cm x 122cm)	5061	19156	2	3	4	6
	18' x 48" (549cm x 122cm)	6423	24311	3	3	4	6
ULTRA FRAME[®] POOL	21' x 52" (640cm x 132cm)	9533	36082	4	5	6	8
	24' x 52" (732cm x 132cm)	12481	47241	5	6	7	8
	16' x 48" (488 cm x 122cm)	5061	19156	2	3	4	6
	18' x 48" (488 cm x 122 cm)	6423	24311	3	3	4	6
	18' x 52"(549 cm x 122 cm)	6981	26423	3	4	5	6
	20' x 48"(610 cm x 122 cm)	7947	3079	4	4	5	6
	22' x 52"(671 cm x 132 cm)	10472	39637	5	5	6	8
	24' x 52"(732 cm x 132 cm)	12481	47241	6	6	7	8
26' x 52"(792 cm x 132 cm)	14667	55515	7	8	8	12	
SEQUOIA SPIRIT[®] POOL SET	15'8" x 49" (478cm x 124cm)	4440	16805	2	2	3	4
	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	1	2	4
	20' x 12' x 48" (610cm x 366cm x 122cm)	4393	16628	2	2	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	2	3	6
	20 x 10' x 52" (610cm x 305cm x 132cm)	5835	22085	3	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	7	7	8	12

IMPORTANT

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

*Operating time may vary depending on several factors such as bather load, water temperature, etc.

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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
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 0.03g/L (30ppm)	
Gals	Liters	Lbs	Kgs
2000	7500	0.50	0.23
4000	15000	1.00	0.45
6000	22500	1.50	0.68
8000	30000	2.0	0.9
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	10 – 19°C (50 – 66°F)	20-28°C (68-82°F)	29-36°C (84-97°F)
2000	7500	1	1	2
4000	15000	2	2	3
6000	22500	3	3	4
8000	30000	4	4	5
10000	37500	5	5	6
12000	45500	6	6	7
14000	53000	7	7	8

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SAVE THESE INSTRUCTIONS OPERATION INSTRUCTIONS

IMPORTANT: To maximize the ozone output of the system, select a daily start time, usually after 10:00am, when humidity is the lowest.


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).

Switch on the unit. 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 Ozone & 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 Ozone & Saltwater System, at the same time each day, for the number of hours you have set.

NOTE: The Ozone & 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 Ozone & Saltwater System and finishing 15 minutes after the Ozone & Saltwater System. (1 to 12 hours max per cycle)


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 Ozone & saltwater system has started chlorine-ozone 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.

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OPERATION INSTRUCTIONS (continued)

7.Boost cycle

•After a heavy rain, heavy pool usage or if the pool is dirty, press and hold “BOOST” button for 5 seconds until the indicator lights up and the LED display “80”. This indicates that the Ozone & saltwater system has started ozone 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 Ozone & saltwater system operating time is 3 hours, the boost procedure will run $8 \times 3 = 24$ 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 16 hours, the filter pump should be set to run for 17 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.

8.Test pool water daily:

Test the pool water every day to maintain the proper sanitizer level. It's very important that the free chlorine is between 1 – 3 ppm..

9.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.

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LED CODE CHART IMPORTANT

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 Ozone & 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.

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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.

Ozone generator assembly replacement:

1. The "REPLACE O₃ GENERATOR" light on the panel will turn red when the Ozone generator assembly needs to be replaced. In a counter-clockwise motion, unscrew the four screws with a phillips screwdriver (tools not included).
2. Remove the back cover, unplug the Ozone generator assembly cable.
3. Pull out the Ozone generator assembly.
4. Replace with a new Ozone generator assembly by pushing it in along the rails, and reconnect Ozone generator assembly cable back.
5. Reverse steps 1 and 2 to replace the other parts.

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MAINTENANCE (continued)

FLOW SENSOR CLEANING

1. In a counter-clockwise motion unscrew the collar of the flow sensor(7) 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 over tighten.

ELECTROLYTIC CELL CLEANING

The electrolytic cell has a self cleaning function incorporated into the electronic control's programming. In most cases this self cleaning action will keep the cell working at optimum efficiency. If the pool water is hard (high mineral content) the cell may require periodic manual cleaning. To maintain maximum performance, we recommend that you open and visually inspect the electrolytic cell 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 1-1/2" (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.
3. In a counter-clockwise motion, unscrew the Titanium electrode plug nut. Pull out the Titanium electrode plug.

4. In a counter-clockwise motion, unscrew the Titanium electrode nut **(4)**. Pull out the Titanium electrode **(5)**.
5. Pour kitchen grade vinegar into a mug to immerse the titanium plates. Soak them for about one hour and then flush with a garden hose.
6. Reverse steps 3 and 4 to replace the Titanium electrode **(5)**.

INTEX® 3-WAY TEST STRIPS (PACKED WITH THE PRODUCT)

The 3-Way Test Strips can test the “Free Chlorine”, “pH”, and “Total Alkalinity” levels at the same time. We recommend that you test the water chemistry daily, 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 Ozone and 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.

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POOL MAINTENANCE & CHEMICAL DEFINITIONS

Water parameters to be maintained as part of daily maintenance

Parameters	Swimming Pools
Free available chlorine	1.0 - 3.0 ppm
pH	7.2 - 7.8
Total alkalinity	100 - 120 ppm
Calcium hardness	200 - 300 ppm
Stabilizer (cyanuric acid)	30 - 100 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 effect on pH.

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

Calcium Hardness -

Refers to the amount of calcium dissolved in the water.

Result if too high - 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 Trichloro-s-triazinetrione or sodium dichloro-s-triazinetrione dihydrate.
- When replacing the chlorine generating cell, only use replacement cells having a label that clearly states that it is a replacement cell for the Krystal Clear Ozone & Saltwater System Model ZS8110.
- The life expectancy to the chlorine electrodes is 1920 hours under normal use conditions.
- Heavy pool usage and higher temperatures may require a higher chlorine output to maintain proper free available chlorine residuals.

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






IMPORTANT

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

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TROUBLESHOOTING GUIDE (continued)		
LED PANEL CODE	PROBLEM	SOLUTION
LED Panel Code Flash & Alarm On (NOTE: Always turn off the power before cleaning and servicing).		
 <p>90</p>	1. Filter pump not attached to system and/or switch on	<ul style="list-style-type: none"> • Ensure filter pump is attached and operating. See "Setup Instruction".
	2. Circulation line is blocked.	<ul style="list-style-type: none"> • If your unit has plunger valves, ensure that they are open. • Clear your filter cartridge and cell from debris and dirt. See "Maintenance". • Release all trapped air in the circulation line. See the filter pump manual.
	3. Incorrect inlet and outlet hose direction.	<ul style="list-style-type: none"> • Check the direction of the inlet and the outlet hose. Reverse the hoses if necessary. See "Set Up Instructions".
	4. Scale on the flow sensor.	<ul style="list-style-type: none"> • Clean the flow sensor, paying special attention to the hinge. See "Maintenance".
	5. Flow sensor cord is loose.	<ul style="list-style-type: none"> • Plug the flow sensor firmly into the flow sensor receptacle.
	6. Inner timer confliction between filter pump and Ozone & Saltwater System.	<ul style="list-style-type: none"> • Reset both timers on the filter pump and Ozone & Saltwater System.
	7. Flow sensor failure.	<ul style="list-style-type: none"> • Contact Intex Service Center.
 <p>91</p>	1. Dirt or scale on titanium plates.	<ul style="list-style-type: none"> • Remove the electrolytic cell for inspection. Clean it if necessary. See "Maintenance".
	2. Low salt level / No salt.	<ul style="list-style-type: none"> • Add salt. See "Salt & Pool Water Volumes".
	3. Electrolytic cell cord is loose.	<ul style="list-style-type: none"> • Ensure that the cell cord is plugged firmly into the cell housing receptacle.
	4. Possible electrolytic cell failure.	<ul style="list-style-type: none"> • Contact Intex Service Center. Replace the cell if needed.
 <p>92</p>	1. High salt level.	<ul style="list-style-type: none"> • Partially drain the pool and refill it with fresh water. See "Salt & Pool Water Volumes".
	1. Display and all lights are off - the system does not power up.	<ul style="list-style-type: none"> • Household voltage is too high or too low (+ 20%). Check the voltage is within the range stated on the device housing. • Contact Intex Service Center.
	1. Ozone generator assembly failure.	<ul style="list-style-type: none"> • Contact Intex Service Center. Replace the assembly following the relevant instruction in maintenance section.

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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
- **American Academy of Pediatrics: Pool Safety for Children** www.aap.org
- **Red Cross** www.redcross.org
- **Safe Kids** www.safekids.org
- **Home Safety Council: Safety Guide** www.homesafetycouncil.org
- **Toy Industry Association: Toy Safety** www.toy-tia.org

SAFETY IN YOUR POOL

Safe swimming depends on constant attention to the rules. The "NO DIVING" sign within this manual can be posted near your pool to help keep everyone alert to the danger. You may also wish to copy and laminate the sign for protection from the elements.

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SAVE THESE INSTRUCTIONS LIMITED WARRANTY

Your Krystal Clear™ Ozone & 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™ Ozone & 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™ Ozone & Saltwater System Warranty – 2 Years
Titanium electrode & Ozone generator assembly 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.INTEXSTORE.COM.

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