OWNER'S MANUAL

English **379 A**

IMPORTANT SAFETY RULES

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

QS700 PLUS

Saltwater System

Certified Model Number LS5220 220 – 230 V~
Certified Model Number LS5230 230 – 240 V~

For illustrative purposes only.

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. 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®

379-*A*-R1-2509

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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 0.5 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.
- The supply cord cannot be replaced. If the cord is damaged the appliance should be scrapped.
- 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.
- The product must not be used when people are in the water.
- 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

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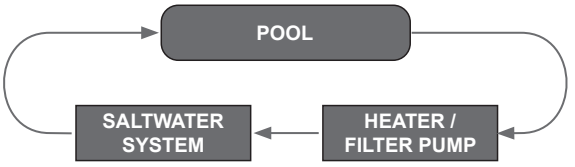
QUICK START GUIDE

NOTE: This quick start section provides important and useful tips before you start the setup of your saltwater system. However, it does not address all aspects of saltwater system installation and use, and you are still required to read, understand, and follow the owner's manual for proper installation, maintenance, and safe use of your saltwater system.

1. **Filter Pump Flow Rate Requirement:** The Saltwater System requires a separate filter pump with a pump flow rate between 700-3200 gph (2650-12112 Lph) to drive the water and function properly. Compatible with non-INTEX filter pumps.

2. **Salt Needed for Startup:** **Do not use "NON CHLORIDE ION SALTS".** Use only pure (sodium chloride) salt such as common table salt, iodized salt, naturally evaporated sea salt, etc. Salt containing anti-caking agent (E535) is suitable. Add salt to the pool according to the "**SALT TABLE**" page. Brush the pool bottom and run the pump for 24 hours to dissolve the salt. See "**SALT & POOL WATER VOLUMES**" section.



3. **Saltwater System Installation Location:** Must be installed as the last piece of pool equipment in the water return line to the pool. See "**SETUP INSTRUCTIONS**" section.

4. **Maintaining Correct Salt Level:** The ideal salt level in the pool is between 800-1800 ppm (parts per million). The optimal level is 950 ppm.
   For first-time pool or Saltwater System users:
   After the system is setup and before adding salt to the pool, turn on the system and press the "**MODE**" (☰) button once to activate the salt level detection function. The number (in ppm) on the display corresponds to the natural minerals present in the water, such as iron ions, calcium, etc. Record this number as this will be the starting base for future reading. Add salt to the pool according to "**Adding Salt / SALT TABLE**" section.
   For existing pools with Saltwater System or using chemicals sanitizer that are upgrading to model QS700 PLUS:
   After the system is setup, press (☰) button once to activate the salt level detection function. If the number (in ppm) shown on the display exceeds 1800 ppm, lower the salt level by following the steps in "**SALT & POOL WATER VOLUMES, Removing Salt**" section. Check the salt level again after 24 hours to ensure it is within 800-1800 ppm.

5. **Salt Level Detection:** Press (☰) button once to activate the salt level detection function. The initial number on the display correspond to the previous last measurement. The number will start changing and the latest salt level reading will be displayed after 3 minutes. After 3 minutes of idle, the display will switch back to the operating hours mode. See "**Salt / Temperature Detection Display Mode**" section.

6. **Pump Running Time:** Set the filter pump running time 1 hour longer than the required operating time of the Saltwater System, see "**OPERATING TIME TABLE**" section.

7. **Pool Cover Requirement:** To maximize the efficacy of the Saltwater System, keep the pool covered with an Intex pool cover while the system is operating or when the pool is not in use.

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SALT TABLE

Amount of salt needed to achieve and maintain the optimal 950 ppm salt level.

Pool Size		Water Capacity (Calculated at 90% for Frame Pool and 80% for Easy Set Pool & Oval Pool)		Salt Needed for Startup 0.95g/L (950 ppm)		Salt Needed when Low Salt Detected (CODE "91")	
		(Gals)	(Liters)	(Lbs)	(kg)	(Lbs)	(kg)
INTEX ABOVE GROUND POOLS (AGP's)							
EASY SET® POOL	15' x 33" (457cm x 84cm)	2587	9792	22	10	9	4
	15' x 42" (457cm x 107cm)	3284	12430	26	12	13	6
	15' x 48" (457cm x 122cm)	3736	14141	31	14	13	6
	16' x 42" (488cm x 107cm)	3754	14209	31	14	13	6
	16' x 48" (488cm x 122cm)	4273	16173	35	16	15	7
	18' x 42" (549cm x 107cm)	4786	18115	40	18	18	8
	18' x 48" (549cm x 122cm)	5455	20647	44	20	20	9
ROUND METAL FRAME POOL	15' x 36" (457cm x 91cm)	3282	12422	26	12	13	6
	15' x 42" (457cm x 107cm)	3861	14614	31	14	15	7
	15' x 48" (457cm x 122cm)	4440	16805	35	16	18	8
	16' x 48" (488cm x 122cm)	5061	19156	42	19	20	9
	18' x 48" (549cm x 122cm)	6423	24311	53	24	24	11
	21' x 52" (640cm x 132cm)	9533	36082	77	35	35	16
ULTRA FRAME™ POOL	15' x 42" (457cm x 107cm)	3861	14614	31	14	15	7
	15' x 48" (457cm x 122cm)	4440	16805	35	16	18	8
	16' x 48" (488cm x 122cm)	5061	19156	42	19	20	9
	18' x 48" (549cm x 122cm)	6423	24311	51	23	24	11
	18' x 52" (549cm x 132cm)	6981	26423	55	25	26	12
	20' x 48" (610cm x 122cm)	7947	30079	64	29	31	14
PRISM FRAME™ RECT. POOL	13'1½" x 6'6¾" x 39½" (400cm x 200cm x 100cm)	1806	6836	15	7	7	3
	13'1½" x 6'6¾" x 48" (400cm x 200cm x 122cm)	2224	8418	18	8	9	4
	16' x 8' x 42" (488cm x 244cm x 107cm)	2873	10874	24	11	11	5
OVAL FRAME POOL	18' x 10' x 42" (549cm x 305cm x 107cm)	2885	10920	24	11	11	5
	20' x 12' x 48" (610cm x 366cm x 122cm)	4393	16628	35	16	18	8
RECT. ULTRA FRAME POOL	15' x 9' x 48" (457cm x 274cm x 122cm)	3484	13187	29	13	13	6
	18' x 9' x 52" (549cm x 274cm x 132cm)	4545	17203	37	17	18	8
	20' x 10' x 52" (610cm x 305cm x 132cm)	5835	22085	46	21	22	10
	24' x 12' x 52" (732cm x 366cm x 132cm)	8403	31805	66	30	31	14

Quick general calculation

Salt Needed for Startup (Lbs)	Salt Needed for Startup (kg)	Salt Needed when Low Salt Detected (Lbs)	Salt Needed when Low Salt Detected (kg)
Water Capacity (Gals) x 0.008	Water Capacity (Liters) x 0.00095	Water Capacity (Gals) x 0.0025	Water Capacity (Liters) x 0.0003

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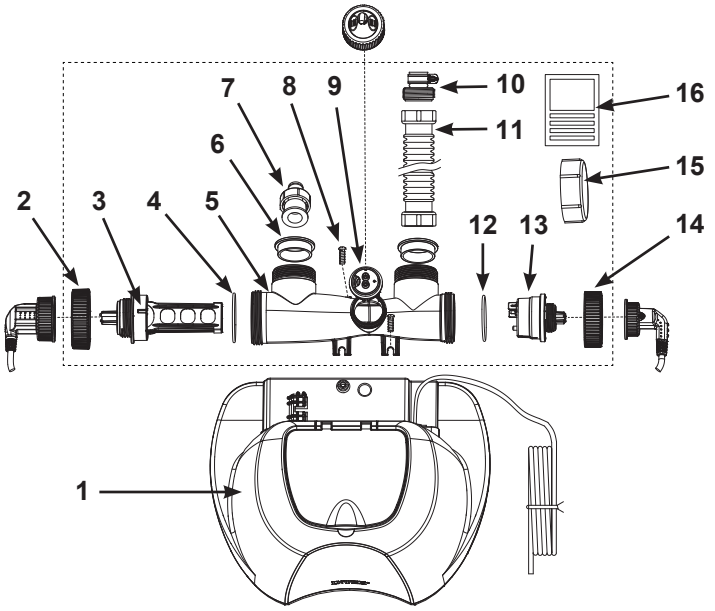
PARTS REFERENCE

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.

REF. NO.		DESCRIPTION	QTY.	SPARE PART NO.
COMMON PARTS	PARTS FOR CONNECTION TO FILTER PUMPS WITH 1-1/4" (32MM) HOSE SIZE			
1		CONTROL STATION	1	13456
2		CHLORINE ELECTRODE NUT	1	13336
3		CHLORINE ELECTRODE	1	12995
4		CHLORINE ELECTRODE O-RING	1	13446
5		CHLORINE ELECTRODE HOUSING	1	12977
6		L-SHAPE O-RING	2	11228
	7	ADAPTOR A WITH THREADED COLLAR	1	10849
8		SCREW	2	11519
9		FLOW SENSOR	1	11460
	10	THREADED ADAPTOR B	1	10722
11		CONNECTOR HOSE WITH THREADED FITTINGS	1	10720
12		2-IN-1 SENSOR O-RING	1	11585
13		2-IN-1 SENSOR (SALT / TEMPERATURE)	1	13432
14		2-IN-1 SENSOR NUT	1	13433
15		CELL COVER	2	11131
16		TEST STRIPS	1	19635

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

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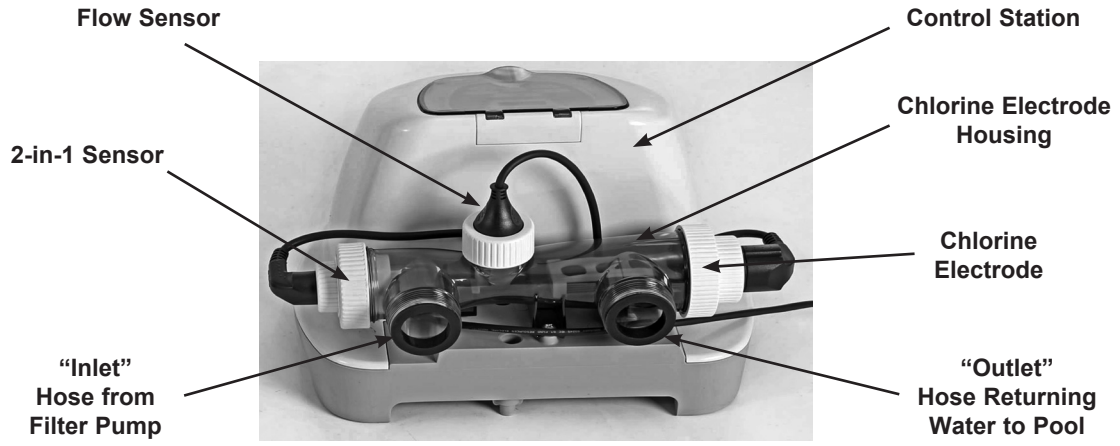
PRODUCT SPECIFICATIONS



No tools are required for the assembly.

Certified Model Number:	LS5220/5230
Wattage:	65 W
Ideal Salt Level:	950 ppm (parts per million)
Maximum sodium hypochlorite output/hour:	7 grams/hour
Filter pump flow rate:	700 ~ 3200 gallons/hour (2650 - 12112 liters/hour)
Limited Warranty:	see "Limited Warranty" section

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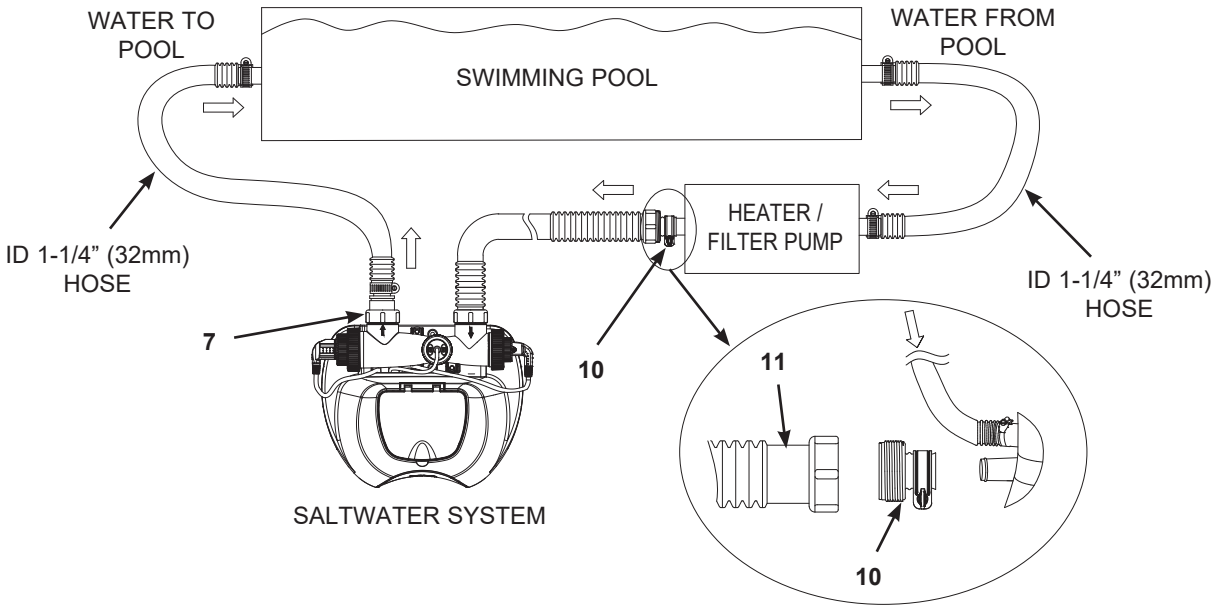
SETUP INSTRUCTIONS

IMPORTANT

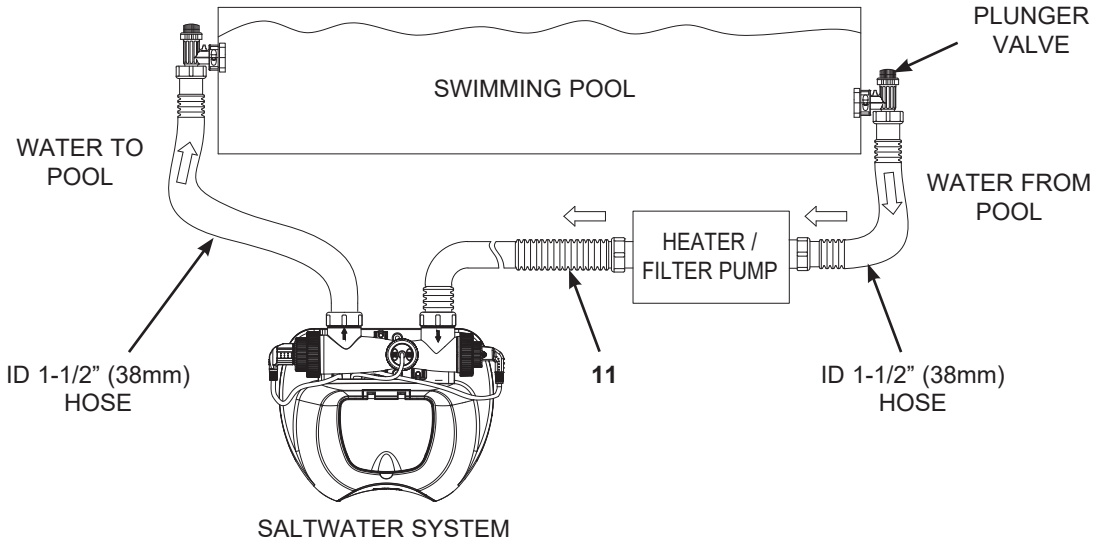
- **The Saltwater System requires a separate filter pump with a pump flow rate between 700-3200 gph (2650-12112 Lph) to drive the water and function properly.**
- **The Saltwater System must be installed as the last piece of pool equipment in the water return line to the pool. This location extends the life of the Saltwater System and the chlorine electrode.**

Place the Saltwater System in line after the filter pump or heater.

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



Connecting the system to Intex pump and pool with 1-1/2" (38mm) connections/hoses:
Fig 2



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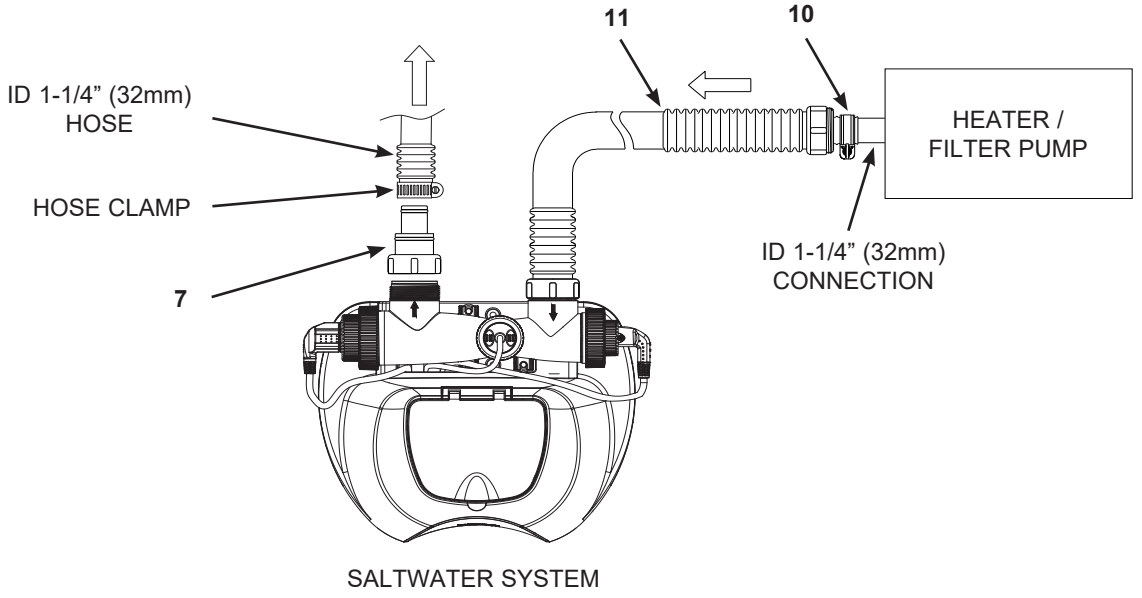
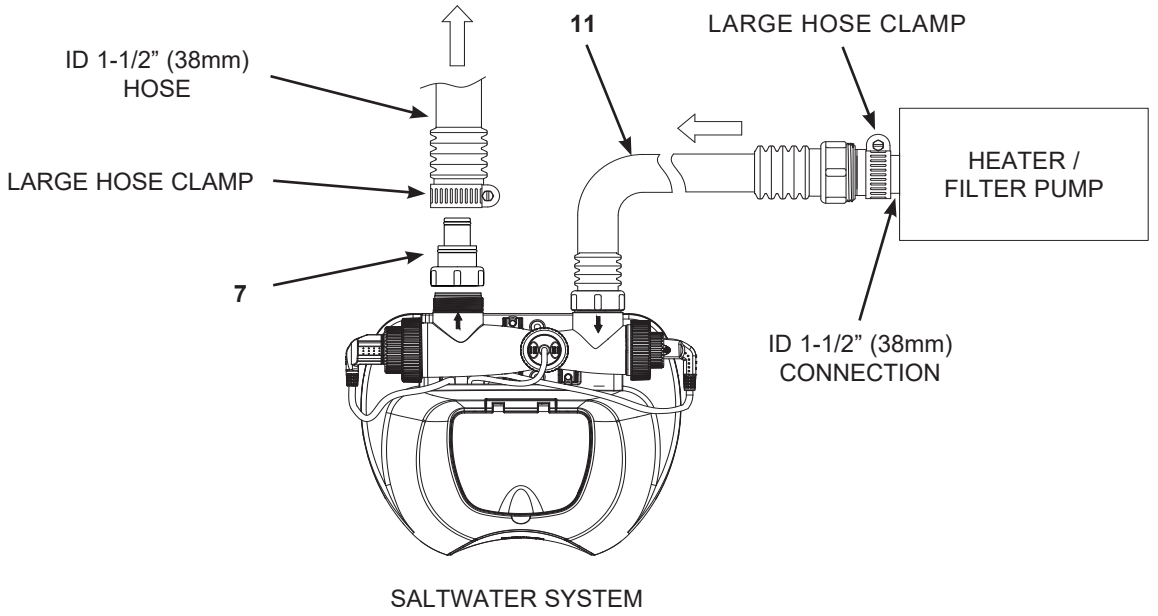
SETUP INSTRUCTIONS (continued)

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

Connection to 1-1/4" (32mm) hose:
Fig 3



Connection to 1-1/2" (38mm) hose with clamp:
Fig 4



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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 "NON CHLORIDE ION SALTS".** Use only pure (sodium chloride) salt such as common table salt, iodized salt, naturally evaporated sea salt, etc. Salt containing anti-caking agent (E535) is suitable.

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.

• Optimum Salt Level

The ideal salt level in the pool water is between 800-1800 ppm (parts per million). The optimal level is 950 ppm.

The final salt level detected in the water = initial natural minerals + added salt level. The minerals level in fresh water varies from region to region and local water condition.

For first-time pool or Saltwater System users:

After the system is setup and before adding salt to the pool, turn on the system and press the "**MODE**" (☰) button once to activate the salt level detection function. The number (in ppm) on the display corresponds to the natural minerals present in the water, such as iron ions, calcium, etc. Record this number as this will be the starting base for future reading. Add salt to the pool according to "**Adding Salt**" section. Check the salt level after 24 hours to ensure it is within 800-1800 ppm.

For existing pools with Saltwater System or using chemicals sanitizer that are upgrading to model QS700 PLUS:

After the system is setup, press (☰) button once to activate the salt level detection function. If the number (in ppm) shown on the display exceeds 1800 ppm, lower the salt level by following the steps in "**SALT & POOL WATER VOLUMES, Removing Salt**" section. Check the salt level again after 24 hours to ensure it is within 800-1800 ppm.

• Adding Salt

1. Switch the filter pump on.
2. Keep the Saltwater System turned off.
3. Add salt according to the "**SALT TABLE**" section. Alternatively see "**Alternative Salt Level Measurement**" section.
4. Evenly spread the salt around the inside of the pool.
5. Brush the pool bottom to speed up the dissolving process and run the filter pump for 24 hours.
6. After 24 hours, press (⏻) button to turn on the system, press (☰) button once to activate the salt level detection function. Check the salt level is within 800-1800 ppm. The number on the display will start changing and the latest salt level reading will be displayed after 3 minutes. See "**Salt / Temperature Detection Display Mode**" section for details.
7. Press (☰) button until "00H" or operating hour is flashing on the display and press the timer (⏲) button to set the desired operating time. See "**OPERATING INSTRUCTIONS**" section.

• Removing Salt

1. If too much salt has been added, the system will display code "E92" (see "**LED CODE CHART**"). To lower the salt level, partially drain and refill approximately 40-70% of the pool's water, see right table.
2. If the pool water level has dropped below the recommended fill level, add fresh water until the recommended level.
3. Press (⏻) button to turn on the system and press the mode (☰) button once to activate the salt level detection function. Check the salt level is within 800-1800 ppm. The number on the display will start changing and the latest salt level reading will be displayed after 3 minutes.

Salt level (ppm)	Pool water to be drained and refilled
1800 - 2200	40%
2200 - 2600	50%
2600 - 3200	60%
3200 - 4000	70%

NOTE: First install the Saltwater System, turn on the system and press (☰) button once to check the salt level in the pool.

• Alternative Salt Level Measurement

Salt calculator QR Code

1. After the system is setup and before adding salt to the pool, turn on the system and press (☰) button once to activate the salt level detection function. The number (in ppm) shown on the display corresponds to the natural minerals present in the water, such as iron ions, calcium, etc. Record this number of **initial salt concentration (C_0)** as this will be the starting base for future reading.
2. Add **5kg (S_1)** salt to the pool, turn on the pump, run the filter pump for 2 hours to dissolve the salt. Then, turn on the saltwater system and press (☰) button again to test the **current salt level (C_1)**.
3. Scan the QR code to open the "salt calculator" program and input the following data for **C_0 (ppm), C_1 (ppm) and S_1 (5kg)**. The program will calculate the **additional amount of salt "S_2" (kg) needed automatically**. The calculation formula is: $S_2=S_1 \times [950-(C_1-C_0)]/(C_1-C_0)$ in kg.

SAVE THESE INSTRUCTIONS

CHLORINE STABILIZER TABLE (WITH INTEX POOL COVER)

Chlorine stabilizer (Cyanuric acid) reduces the loss of chlorine in the water due to ultraviolet rays. Keep the chlorine stabilizer level at approximately 1% of the salt, i.e. 100 Lbs (45 kg) salt x 1% = 1 Lbs (0.45 kg) chlorine stabilizer.
If the pool water is dirty, filthy or grimy, **DO NOT add chlorine stabilizer** as this will slowdown the sanitation time of the system. Instead, use the Saltwater System BOOST function, refer to BOOST cycle section.
Once the pool water has been restored to clear and clean conditions you may add chlorine stabilizer.

Water Capacity		Chlorine Stabilizer Needed for Startup 0.03g/L (30 ppm)	
(Gals)	(Liters)	(Lbs)	(kg)
2000	7500	0.5	0.23
3000	11500	0.8	0.35
4000	15000	1.0	0.45
5000	19000	1.3	0.57
6000	22500	1.5	0.68
7000	26500	1.8	0.8
8000	30000	2.0	0.9
9000	34000	2.2	1

OPERATING TIME TABLE (WITH INTEX POOL COVER)

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	2	3
3000	11500	2	3	3
4000	15000	3	4	5
5000	19000	3	4	5
6000	22500	4	5	6
7000	26500	5	6	7
8000	30000	5	6	7
9000	34000	6	7	8

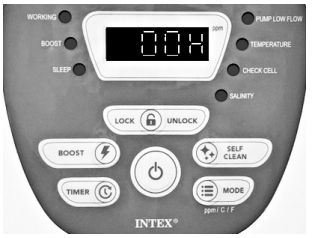
IMPORTANT

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

SAVE THESE INSTRUCTIONS

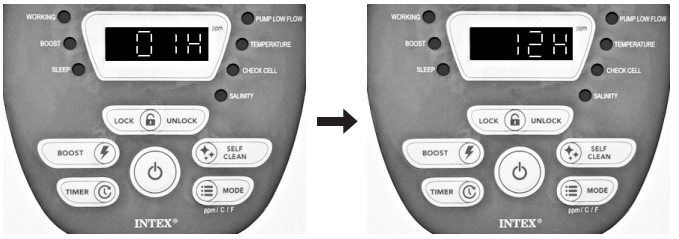
OPERATION INSTRUCTIONS

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



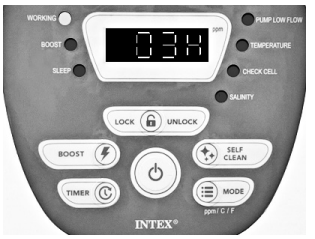
2. **Start up the unit:**
   Plug the power cord into the electrical outlet and test the RCD. Press (⏻) button, code "00H" flashes on the display ready to be programmed.

3. **Set operating hours for Saltwater System:**
   Press the timer (⏲) button to set the desired operating hours. See the "**Operating Time Table**" for the required operating hours related to each pool size. Press (⏲) to increase the time from 01 to 12 hours maximum. Keep pressing (⏲) to repeat the cycle. The built-in timer will now activate the Saltwater System, at the same time each day, for the number of hours you have set.



(01 to 12 hours max per cycle)

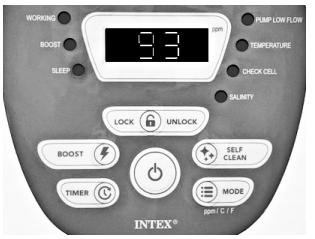
4. **Lock keypad:**
   Press (🔓) to lock the keypad. The "WORKING" indicator lights up after 30 seconds indicating the system has started sodium hypochlorite production.
   NOTE: If you forget to lock the keypad, the system will automatically lock it and start working 10 seconds later.

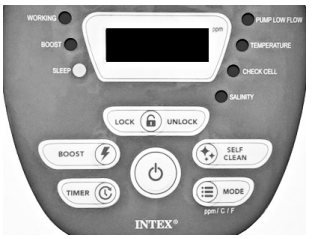


5. **Readjust operating time if necessary:**
   Press (🔓) button and the current programmed time will flash. Repeat steps 3 to 4.

6. **Stand-by/power saving mode:**

- When the cycle ends, the display flashes "93" first, the green "SLEEP" indicator lights up after 5 minutes. The system is now in Stand-By mode. After a while, it shuts down and sets itself into 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 display however, goes blank after 5 minutes. Press any button (⏲ or 🔓) to view the last LED code.





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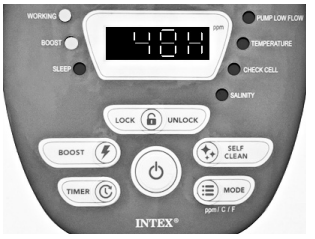
OPERATION INSTRUCTIONS (continued)

7. Boost cycle:



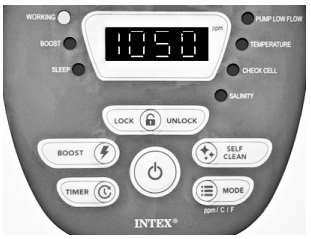
- After a heavy rain or if the pool is dirty, activate the Boost function to shock the pool water following below steps.
- Press (🔓) button to unlock the keypad. With the display flashing, press (⚡) button to set the desired Boost operating hours. Total of 4 settings: 48 hours, 60 hours, 72 hours and 00 (OFF). Keep pressing (⚡) button to repeat the cycle.
- Press (🔓) button to lock the keypad. The BOOST indicator lights up and the system is now starting more sodium hypochlorite sanitizer production. After the boost cycle has been completed, the system will automatically switch to the normal working mode.
  NOTE: If you forget to lock the keypad, the system will automatically lock it and start working 10 seconds later.
- Once the Boost function is operating, check if the filter pump operating hours have been set properly. For example, the boost operating time is 48 hours, the filter pump should be set to run for 48 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. (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.) During the BOOST mode, periodically test the free chlorine level (see next step) which should not exceed the recommended level of 3.0 parts per million (ppm). Do not use the pool if the free chlorine level exceeds 5.0 ppm.

8. Test the "Free Chlorine", "pH", "Calcium Hardness" and "Total Alkalinity":
INTEX® Test Strips (packed with the product) can test the "Free Chlorine", "pH", "Calcium Hardness" and "Total Alkalinity" levels at the same time. Test the water chemistry weekly, and maintain the chlorine concentration at 0.5-3.0 ppm.

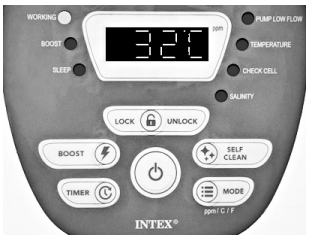
- Dip the entire strip into the water and remove immediately.
- Hold the strip level for 15 seconds. Do not shake excess water from the strip.
- Compare the strip pad to the color chart on the packaging label. If necessary, adjust the chemical level in the pool water. It is very important, to use the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

Salt / Temperature Detection Display Mode:

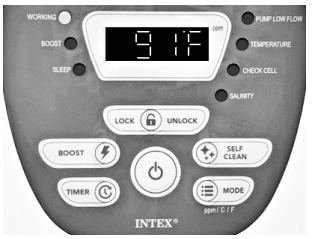
- Press (☰) button once: display shows the salt level in ppm. The initial number on the display correspond to the previous last measurement. The number on the display will start changing and the latest salt level reading will be displayed after 3 minutes.
- Press (☰) button twice: display shows the water temperature in Celsius (°C).
- Press (☰) button 3 times: display shows the water temperature in Fahrenheit (°F).
- Press (☰) button 4 times: back to system operating hours display.
- Press (☰) button again to repeat the cycle: salt level display.
- When the display is in salt or temperature mode and after 3 minutes of idle, the display will switch back to the operating hours mode.



Salt level (ppm)



Temperature (°C)



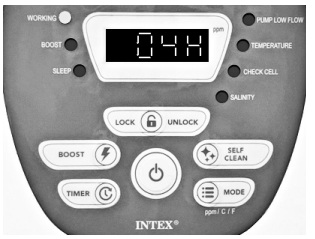
Temperature (°F)

SAVE THESE INSTRUCTIONS

OPERATION INSTRUCTIONS (continued)

Chlorine Electrode Self-Clean cycle:

The default self-clean cycle time is 04 hours. To adjust the self-clean cycle time:



- Press (🔓) button and then press (✨) button, the display is flashing. Depending on your pool water calcium hardness level, press (✨) button again to select the self-clean cycle time per below table. Total of 4 settings: 02H, 04H, 06H and 10H. If you selected 02H, it will be increased to 04H automatically after the system has accumulated 300 hours of self-clean cycle time.

Water Calcium Hardness	Self-clean cycle time
0 - 150 ppm	Reverse polarity every 10 hours
150 - 250 ppm	Reverse polarity every 6 hours
250 - 350 ppm	Reverse polarity every 4 hours
350 - 400 ppm	Reverse polarity every 2 hours

NOTE: The life of the chlorine electrode varies depending on water conditions, pool usage and operating time of the system. Select 10 hours cycle time to extend the life of the chlorine electrode if the calcium hardness level is up to 150 ppm. Manual routine cleaning and maintenance will further lengthen the life of the chlorine electrode.

- Press (🔓) button to lock the keypad and the display will return to the normal operating time. The system will reverse the polarity of the chlorine electrode **(3)** every time according to the selected hours. **NOTE:** If you forget to lock the keypad, the system will automatically lock it after 10 seconds.

LED CODE CHART

LED Reading	Definitions
00H	Stand-By Mode (Start-up)
01H	Minimum Operating Hour (1 hour remaining)
02H - 11H	Operating Hours (2 - 11 hours remaining)
12H	Maximum Operating Hours (12 hours remaining)
E01	Alarm Code (Scale, dirt on chlorine electrode, loose chlorine electrode cord)
E02	Alarm Code (Chlorine electrode failure)
E03	Alarm Code (Water temperature < 10 °C / 50 °F)
E04	Alarm Code (Water temperature > 40 °C / 104 °F)
E90	Alarm Code (Low Pump Flow/No Pump Flow)
E91	Alarm Code (Low Salt Level)
E92	Alarm Code (High Salt Level)
93	Stand-By Mode (Operating Process finished)
E97	Internal PCB failure
E99	2-in-1 (salt / temperature) sensor faulty, malfunction
"BLANK"	No Power or "Power Saving Mode" waiting to start next Saltwater System cycle.

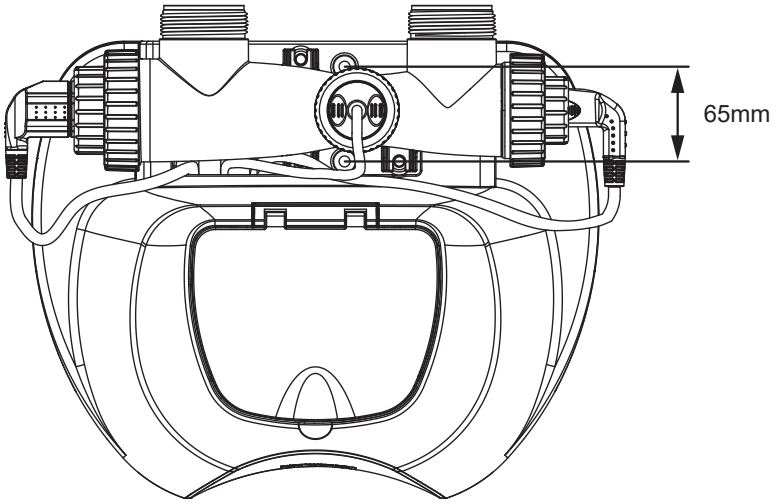
NOTE: See "**Troubleshooting Guide**" section for details.

SAVE THESE INSTRUCTIONS

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.



The mounting holes are 6.4mm in diameter and spaced 65mm apart. Use two bolts and lock nuts with a maximum of 6.4mm in diameter.

SAVE THESE INSTRUCTIONS

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. Unscrew the collar of the flow sensor **(9)** and remove it from the chlorine electrode housing.
2. Use a plastic brush and water to clean the flow sensor surface and the hinge.

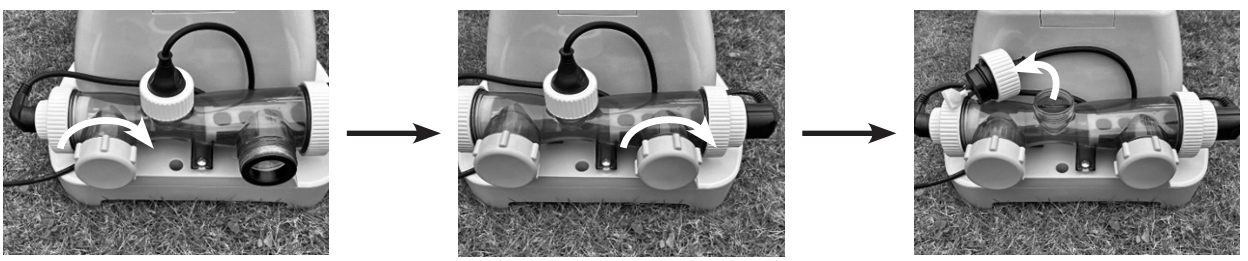
3. Reinstall the flow sensor by aligning the locator notch on the flow sensor to the connection ridge in the conduit. Insert and tighten the sensor back into its position. Do not overtighten.

Chlorine Electrode and 2-in-1 Sensor Cleaning

In most cases the "Chlorine Electrode Self-Clean" function will keep the chlorine electrode in optimum condition. If the pool water is very hard (very high mineral content), we recommend opening and visually inspect the chlorine electrode **(3)** and 2-in-1 sensor **(13)** monthly. Follow below steps to clean them.

Inspection and cleaning:

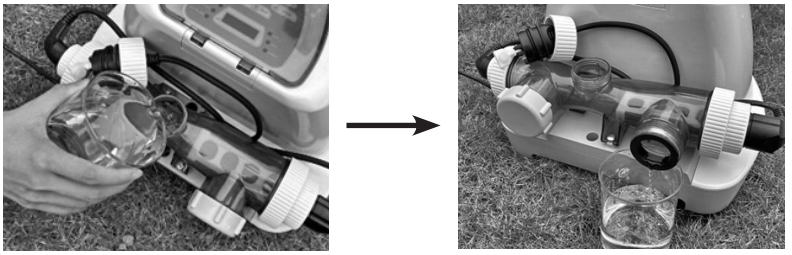
1. Turn off the system and unplug the power cord.
2. **For filter pumps with 1-1/4" (32mm) hose size -** To prevent water from flowing out of the pool, unscrew the strainer grids from the strainer connectors and insert the hat-like plugs into the strainer connectors.
   For filter pumps with 1-1/2" (38mm) hose size - Close the plunger valves or split plunger valve.
3. Disconnect the 2 hoses from the Saltwater System, and attach the cell covers **(15)** to the inlet and outlet of the chlorine electrode housing **(5)**.
4. Unscrew the collar of the flow sensor and pull out the flow sensor from the chlorine electrode housing **(5)**.



SAVE THESE INSTRUCTIONS

MAINTENANCE (continued)

5. Pour kitchen grade vinegar into the chlorine electrode housing **(5)** to immerse the Chlorine Electrode and 2-in-1 Sensor. Reinstall the flow sensor back. Soak for 1 hour.
6. Remove the cell covers **(15)**, drain and properly dispose of the vinegar. Connect the hose which goes from the pool to the chlorine electrode housing inlet. Flush the chlorine electrode housing with the pool water.



7. Reconnect the hoses to the chlorine electrode housing.

CONTROL STATION REPLACEMENT

Tools required: One (1) Phillips screwdriver
If only the control station **(1)** needs to be replaced as instructed by the service center, remove all the components **(parts number 2-16)** and keep them in a safe place for later use. See "Parts Reference" section for detail.
Once you have received the new replacement control station, reinstall all the components from the previous unit to the new control station.

LONG TERM STORAGE

1. Turn off the system and unplug the power cord.
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 chlorine electrode, flow sensor and 2-in-1 sensor.
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.

SAVE THESE INSTRUCTIONS

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

Consult with local swimming pool dealer for water treatment.

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

- Do not add pool chemicals directly to the skimmer.
- Maintaining a salt and chlorine 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.

SAVE THESE INSTRUCTIONS

TROUBLESHOOTING GUIDE

LED PANEL CODE	PROBLEM	SOLUTION
LED Panel Code Flash & Alarm On (**NOTE**: Always turn off the power before cleaning and servicing).		
E01	**1**. Dirt or scale on the chlorine electrode.	• If the LED displays "E01" due to chlorine electrode scaling within one week, please set the self-clean cycle time to 02H. See "Electrode Self-Clean cycle" operation section. • Remove the chlorine electrode for inspection. Clean it if necessary. See "Maintenance".
	2. Chlorine electrode cord is loose.	• Ensure that the chlorine electrode cord is plugged firmly into the chlorine electrode receptacle.
	3. Low input voltage.	• Do not use extension cords, connect the product to a dedicated electrical outlet.
	4. Possible chlorine electrode failure.	• Contact Intex Service Center. Replace the chlorine electrode if needed.
E02	**1**. Chlorine electrode failure.	• Contact Intex Service Center. Replace the chlorine electrode if needed.
E03	**1**. Water temperature < 10ºC (50°F).	• Heat the water until the water temperature reaches 10ºC (50°F) or above with a heat pump. • It's recommended to run the product during the daytime when the water temperature is above 10ºC (50°F).
	2. 2-in-1 sensor failure.	• Contact Intex Service Center. Replace the 2-in-1 sensor if needed.
E04	**1**. Water temperature > 40ºC (104°F).	• It's recommended to run the product during the nighttime when the water temperature is below 40ºC (104°F).
	2. 2-in-1 sensor failure.	• Contact Intex Service Center. Replace the 2-in-1 sensor if needed.
E90	**1**. Filter pump not attached to system and/or switch on.	• Ensure the filter pump is attached and operating. See "Setup Instruction".
	2. Circulation line is blocked.	• 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.	• Check the direction of the inlet and the outlet hose. Reverse the hoses if necessary. See "Setup Instructions".
	4. Scale on the flow sensor.	• Clean the flow sensor, paying special attention to the hinge. See "Maintenance".
	5. Flow sensor cord is loose.	• Plug the flow sensor firmly into the flow sensor receptacle.
	6. Inner timer conflict between filter pump and saltwater system.	• Reset both timers on the filter pump and saltwater system. See "Operation Instructions" section.
	7. Flow sensor failure.	• Contact Intex Service Center for replacement.
E91	**1**. Low salt level / No salt.	• Add salt. See "Salt & Pool Water Volumes".
	2. 2-in-1 sensor cord is loose.	• Ensure that the 2-in-1 sensor cord is plugged in firmly, screw on the 2-in-1 sensor nut securely.
	3. Scale on the 2-in-1 sensor.	• Clean the sensor. See "Maintenance" section.
E92	**1**. High salt level.	• Partially drain the pool and refill it with fresh water. See "Salt & Pool Water Volumes".
E97	**1**. Internal PCB failure.	• Contact Intex Service Center. Replace the control station if needed.
E99	**1**. Salt sensor faulty, malfunction.	• Replace the 2-in-1 sensor (salt / temperature).
- - - -	**1**. No water circulation during the salt level detection. **2**. 2-in-1 sensor open-circuit or short-circuit during the salt level detection. **3**. Internal PCB failure.	• Switch the filter pump on to start the water circulation, during the salt level detection. • Ensure the 2-in-1 sensor connection is normal. • Replace the 2-in-1 sensor. • Contact Intex Service Center.

SAVE THESE INSTRUCTIONS

TROUBLESHOOTING GUIDE (continued)

PROBLEM	CAUSE	SOLUTION
INSUFFICIENT SODIUM HYPOCHLORITE	• Insufficient operating hours of the Saltwater System. • The salt level in the pool water is less than 800 ppm. This is insufficient. • Sodium hypochlorite loss due to intense sunlight exposure. • The bather load has increased. • Clogged or dirty chlorine electrode. • High UV level exposure.	• Cover the pool with an Intex pool cover for 2 days with the system running and then test the water using the test strips. • Increase the daily Saltwater System operating time. See "Operating Instructions". • Check the salt level, see "**Salt / Temperature Detection Display Mode**" section. Adjust as needed. See "Salt & Pool Water Volumes". • Use a pool cover when the pool is not in use and/or when the unit is operating. • Remove the chlorine electrode for inspection, clean it if necessary. See "Maintenance". • If the pool is clean and clear, add stabilizer to the water and then test the water with the system running.
WHITE FLAKES IN THE WATER	• Excessive calcium hardness is present in pool water.	• Drain about 20 to 25% of the pool water and add fresh water to decrease the calcium hardness. Inspect the chlorine electrode for scale buildup. Clean the chlorine electrode if necessary.
NO LED DISPLAY	• No power supply. • RCD has not reseted. • A power fuse has blown. • Display failure.	• Turn on the system. • Reset the RCD. • Contact Intex Service Center.
DISPLAY SHOWS OPERATING TIME BUT THE TEMPERATURE INDICATOR LIGHT IS RED	• Temperature sensor failure, faulty.	• Check the integrity of the **temperature sensor** by pressing the mode button once, 2 or 3 times, if the display shows "**- - - -**" or "**E99**", replace the 2-in-1 sensor.

IMPORTANT

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

SAVE THESE INSTRUCTIONS

LIMITED WARRANTY

Your 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 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.

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.

Saltwater System Warranty – 2 years
Chlorine Electrode and 2-in-1 Sensor Warranty – 2 years
Hose & Fittings Warranty – 180 days

If you find a manufacturing defect in the 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 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 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 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 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 Saltwater System. Always inspect your product prior to use. This limited warranty will be void if use instructions are not followed.

SAVE THESE INSTRUCTIONS