

English

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WiFi APP
QR Code

**IMPORTANT
SAFETY RULES**
Read, understand, and follow
all instructions carefully before
installing and using this product.

QX2100 PLUS with WiFi™

Krystal Clear™ Sand Filter Pump
Certified Model Number **CSW15110**

QX2600 PLUS with WiFi™

Krystal Clear™ Sand Filter Pump
Certified Model Number **CSW20110**



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®

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, missing parts or warranty claims call (for U.S. and Canadian Residents):

1-310-549-8235

Monday through Friday, 8:30am to 5:00pm Pacific Time

160-PO-R0-2611

OWNER'S MANUAL

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IMPORTANT SAFETY RULES English

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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.
- 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 pool, so as to prevent children from climbing on it and access the pool.
- Make sure the electrical parameters indicated on the product correspond to the local mains voltage before you connect the unit.
- To reduce the risk of entrapment hazard, never enter the pool if suction strainer component is loose, broken, cracked, damaged or missing. Replace loose, broken, damaged, cracked or missing suction strainer components immediately.
- Never play or swim near suction fittings. Your body or hair may be trapped causing permanent injury or drowning.
- To prevent equipment damage and risk of injury, always turn pump off before changing the filter control valve position.
- Never operate this product above the maximum working pressure stated on the filter tank.
- Hazardous Pressure. Improper tank valve cover assembly could cause the valve cover to blow off and cause serious injury, property damage or death.
- This product is intended to be used only for the purposes described in the manual!

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



CAUTION

This product is for use with storable pools only. Do not use with permanently-installed pools. A storable pool is constructed so that it is capable of being readily disassembled for storage and reassembled to its original integrity. A permanently-installed pool is constructed in or on the ground or in a building such that it cannot be readily disassembled for storage. To reduce the risk of electric shock the pool must be installed no closer than 6 feet (1.8 m) from any electrical outlet. Do not place portable appliances closer than 5 feet (1.5 m) from the pool.

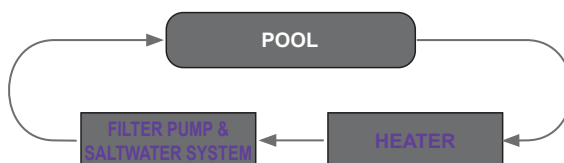
These product warnings, instructions and safety rules provided with the product represent some common risks of water recreation devices and do not cover all instances of risk and danger. Please use common sense and good judgement when enjoying any water activity.

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QUICK START GUIDE

NOTE: This quick start section provides important and useful tips before you start the setup of your product. However, it does not address all aspects of product 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 product.

- 1. 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 **"TYPE OF SALT / SALT LEVEL / ADDING SALT / REMOVING SALT"** section.



- 2. Product Installation Location:** Must be installed as the last piece of pool equipment in the water return line to the pool. See **"SETUP INSTRUCTIONS"** section.
- 3. 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 QX2100 PLUS with WiFi™ & QX2600 PLUS with WiFi™:
 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 **"Removing Salt"** section. Check the salt level again after 24 hours to ensure it is within 800-1800 ppm.
- 4. 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.
- 5. Operating Time:** Set the operating time according to the **"OPERATING TIME TABLE"** section.
- 6. Pool Cover Requirement:** To maximize the efficacy of the Saltwater System, keep the pool covered with a pool cover while the system is operating or when the pool is not in use.

IMPORTANT: To maximize the Saltwater System's effectiveness, operate it early or late in the day, or after sunset - when solar intensity is low - and keep the pool covered.

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SALT TABLE

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

For INTEX pools:

Pool Size		Water Capacity (Calculated at 90% for Frame Pool and 80% for Easy Set Pool)		Salt Needed for Startup 0.95g/L (950ppm)				Salt Needed when Low Salt Detected (CODE "E91")			
				CSW15110		CSW20110		CSW15110		CSW20110	
		(gal)	(liters)	(lb)	(kg)	(lb)	(kg)	(lb)	(kg)	(lb)	(kg)
INTEX ABOVE GROUND POOLS (AGP's)											
EASY SET® POOL	15' x 33" (457 cm x 84 cm)	2587	9792	22	10	-	-	2	1	-	-
	15' x 42" (457 cm x 107 cm)	3284	12430	26	12	-	-	4	2	-	-
	15' x 48" (457 cm x 122 cm)	3736	14141	31	14	-	-	4	2	-	-
	16' x 42" (488 cm x 107 cm)	3754	14209	31	14	-	-	4	2	-	-
	16' x 48" (488 cm x 122 cm)	4273	16173	35	16	-	-	4	2	-	-
	18' x 42" (549 cm x 107 cm)	4786	18115	40	18	40	18	7	3	7	3
	18' x 48" (549 cm x 122 cm)	5455	20647	44	20	44	20	7	3	7	3
ROUND METAL FRAME POOL	15' x 36" (457 cm x 91 cm)	3282	12422	26	12	-	-	4	2	-	-
	15' x 42" (457 cm x 107 cm)	3861	14614	31	14	-	-	4	2	-	-
	15' x 48" (457 cm x 122 cm)	4440	16805	35	16	-	-	7	3	-	-
	16' x 48" (488 cm x 122 cm)	5061	19156	40	18	-	-	7	3	-	-
	18' x 48" (549 cm x 122 cm)	6423	24311	51	23	51	23	9	4	9	4
	21' x 52" (640 cm x 132 cm)	9533	36082	-	-	75	34	11	5	11	5
	24' x 52" (732 cm x 132 cm)	12481	47241	-	-	99	45	-	-	15	7
ULTRA FRAME® POOL	15' x 42" (457 cm x 107 cm)	3861	14614	31	14	-	-	4	2	-	-
	15' x 48" (457 cm x 122 cm)	4440	16805	35	16	-	-	7	3	-	-
	16' x 48" (488 cm x 122 cm)	5061	19156	40	18	-	-	7	3	-	-
	18' x 48" (549 cm x 122 cm)	6423	24311	51	23	51	23	9	4	9	4
	18' x 52" (549 cm x 132 cm)	6981	26423	55	25	55	25	9	4	9	4
	22' x 52" (671 cm x 132 cm)	10472	39637	-	-	84	38	13	6	13	6
	26' x 52" (792 cm x 132 cm)	14667	55515	-	-	117	53	-	-	18	8
PRISM FRAME™ RECT. POOL	400 cm x 200 cm x 100 cm (13'1½"x6'6¼"x39½")	1806	6836	15	7	-	-	2	1	-	-
	400 cm x 200 cm x 122 cm (13'1½"x6'6¼"x48")	2224	8418	18	8	-	-	2	1	-	-
	488 cm x 244 cm x 107 cm (16'x8'x42")	2873	10874	24	11	-	-	4	2	-	-
OVAL FRAME POOL	18' x 10' x 42" (549 cm x 305 cm x 107 cm)	2885	10920	24	11	-	-	4	2	-	-
	20' x 12' x 48" (610 cm x 366 cm x 122 cm)	4393	16628	35	16	35	16	4	2	4	2
RECT. ULTRA FRAME POOL	15' x 9' x 48" (457 cm x 274 cm x 122 cm)	3484	13187	29	13	-	-	4	2	-	-
	18' x 9' x 52" (549 cm x 274 cm x 132 cm)	4545	17203	37	17	37	17	7	3	7	3
	20' x 10' x 52" (610 cm x 305 cm x 132 cm)	5835	22085	46	21	46	21	7	3	7	3
	24' x 12' x 52" (732 cm x 366 cm x 132 cm)	8403	31805	-	-	66	30	11	5	11	5

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PO**For common pools:**

Water Capacity		Salt Needed for Startup		Salt Needed when Low Salt Detected (CODE "E91")	
(gal)	(liters)	(lb)	(kg)	(lb)	(kg)
2000	7500	15	7	2	1
3000	11500	24	11	4	2
4000	15000	31	14	4	2
5000	19000	40	18	7	3
6000	22500	46	21	7	3
7000	26500	55	25	9	4
8000	30000	64	29	11	5
9000	34000	70	32	11	5
10000	38000	79	36	13	6
11000	41500	88	40	13	6
12000	45500	95	43	15	7
13000	49000	103	47	15	7
14000	53000	112	51	18	8

Quick salt calculation formula for all pools:

Salt Needed for Startup (lb)	Salt Needed for Startup (kg)	Salt Needed when Low Salt Detected (lb)	Salt Needed when Low Salt Detected (kg)
Water Capacity (gal) x 0.008	Water Capacity (liters) x 0.00095	Water Capacity (gal) x 0.00125	Water Capacity (liters) x 0.00015

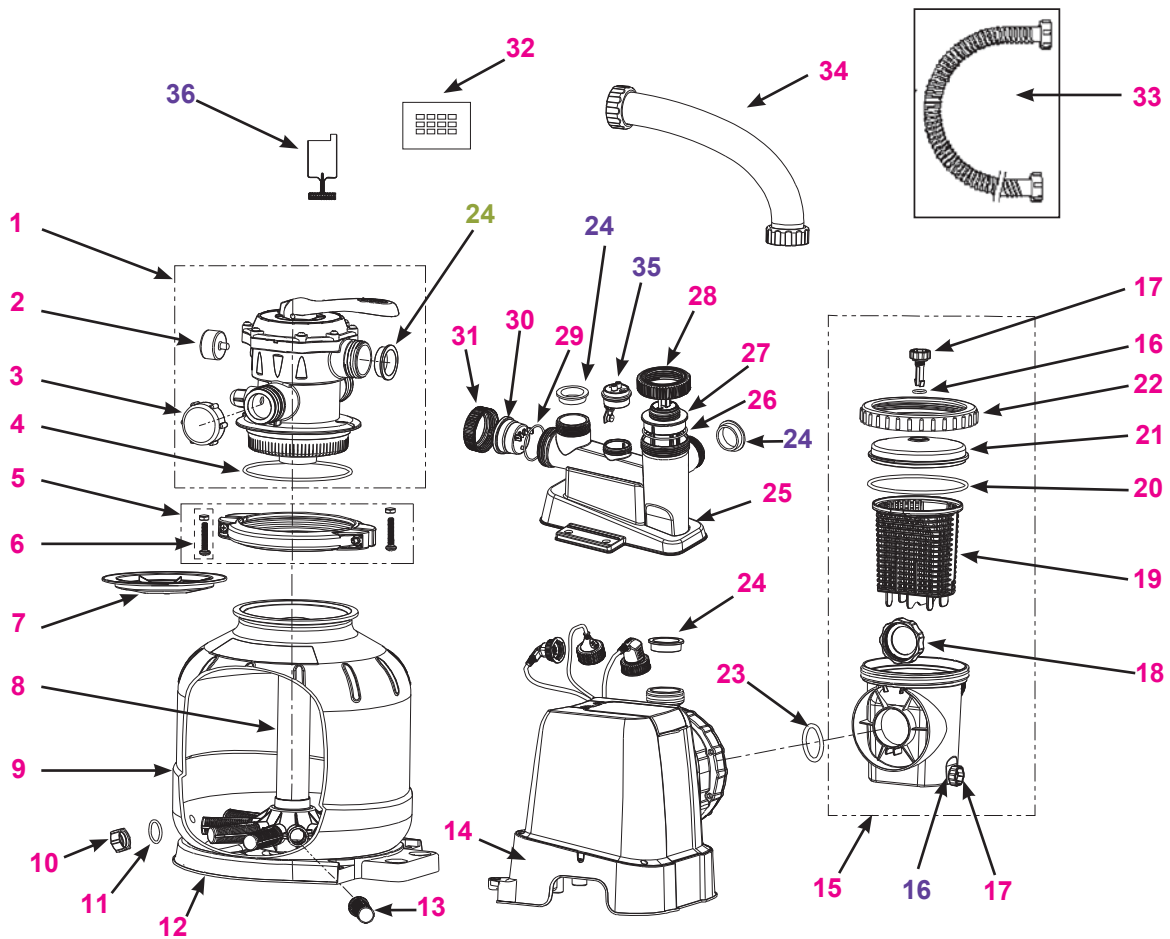
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PARTS REFERENCE

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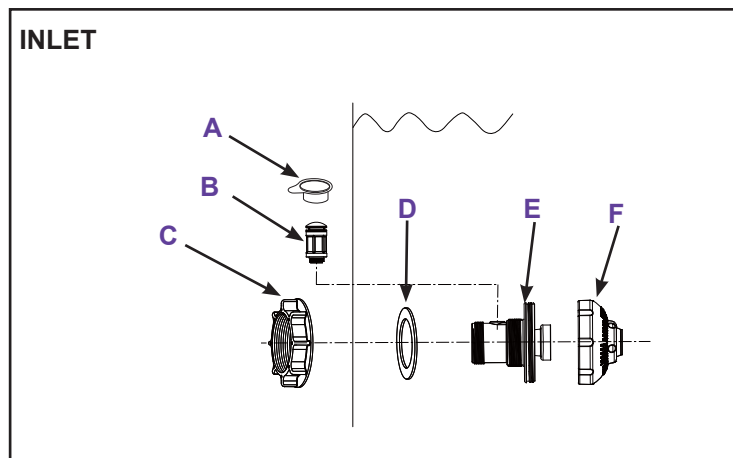
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Before assembling your product, please take a few minutes to check the contents and become familiar with all the parts.



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

If the pump was purchased individually, only these inlet fitting parts are included:



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PARTS REFERENCE (continued)

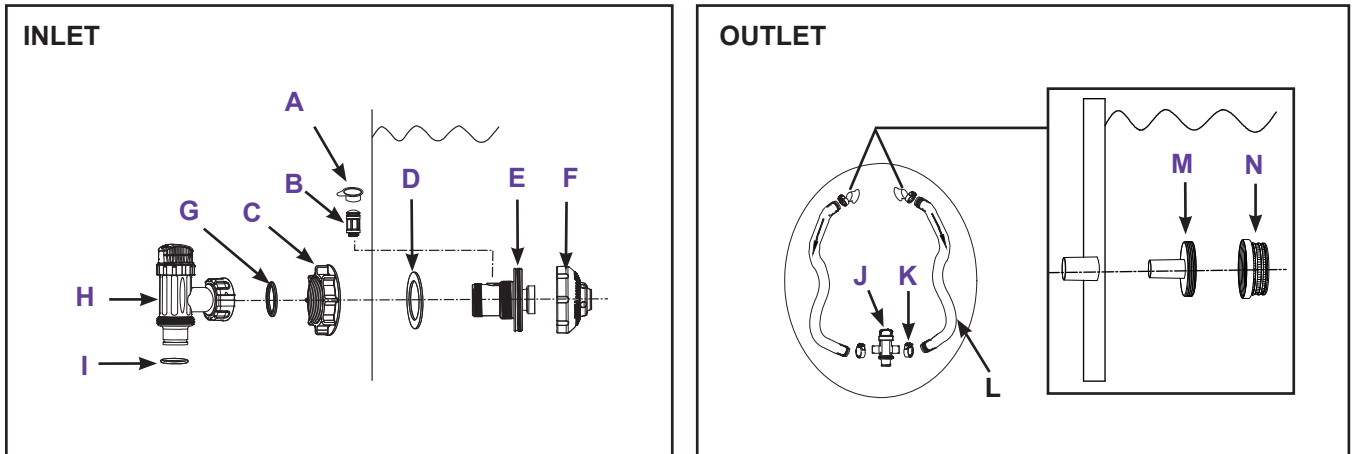
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Before assembling your product, please take a few minutes to check the contents and become familiar with all the parts.

For Pool Sets with Dual Suction Outlets Configuration (for USA & Canada):

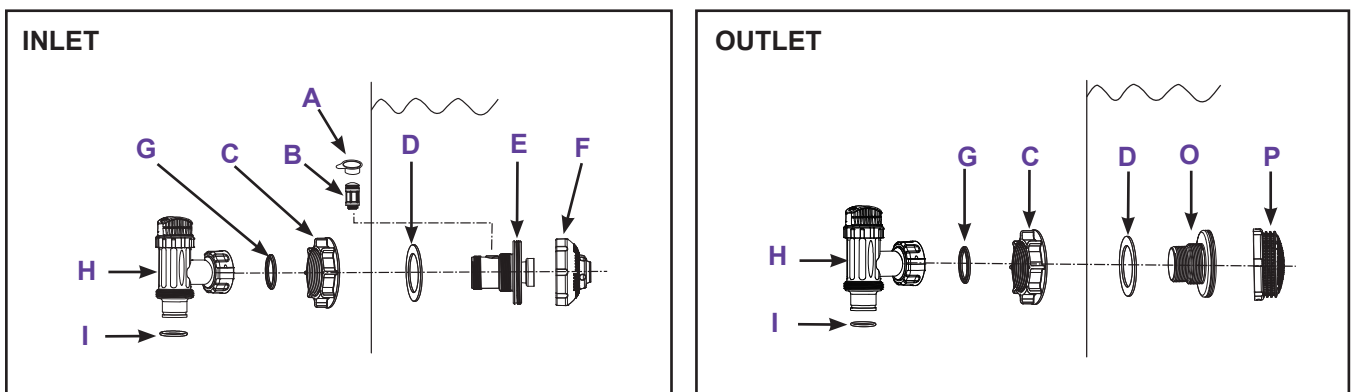
If the pump was purchased as part of a pool set with 1-1/2" (38 mm) connections/hoses, below fitting parts are included:



Refer to the pool owner's manual for more details about the inlet and outlet fittings.

For Non-USA & Canada Pool Sets:

If the pump was purchased as part of a pool set with 1-1/2" (38 mm) connections/hoses, below fitting parts are included:



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

Contact our Authorized Service Centers to order these parts if needed. When ordering parts, be sure to quote the model number and part numbers.

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For Certified Model **CSW15110**:

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REF. NO.	DESCRIPTION	SPARE PART NO.	QTY.		
			Individually	USA & CAN Pool set 1-1/2" (38 mm)	NON-USA & CAN Pool set 1-1/2" (38 mm)
1	6-WAY VALVE	11378	1	1	1
2	PRESSURE GAUGE	11411	1	1	1
3	DRAIN OUTLET COVER	11131	3	3	3
4	TANK O-RING	11379	1	1	1
5	CLAMP	11380	1	1	1
6	SCREW	11381	2	2	2
7	SAND SHIELD	11382	1	1	1
8	CENTER PIPE HUB	11813	1	1	1
9	SAND FILTER PUMP TANK	12713	1	1	1
10	DRAIN VALVE CAP	11456	1	1	1
11	DRAIN VALVE O-RING	11385	1	1	1
12	SAND FILTER PUMP TANK BASE	12869	1	1	1
13	LATERAL	11384	12	12	12
14	PUMP MOTOR & CONTROL	13577EG	1	1	1
15	PRE-FILTER ASSEMBLY	11826	1	1	1
16	VALVE O-RING	10264	2	2	2
17	AIR RELEASE VALVE/SEDIMENT RELEASE VALVE	10460	2	2	2
18	FILTER HOUSING NUT	11261	1	1	1
19	BASKET	11821	1	1	1
20	LEAF TRAP O-RING	11824	1	1	1
21	LEAF TRAP COVER	11823	1	1	1
22	LEAF TRAP NUT	11822	1	1	1
23	SAND FILTER PUMP MOTOR INLET O-RING	11457	2	2	2
24	L-SHAPE O-RING	11228	7	7	7
25	CHLORINE ELECTRODE HOUSING	13575	1	1	1
26	CHLORINE ELECTRODE O-RING	13430	1	1	-
27	CHLORINE ELECTRODE	13681	1	1	1
28	CHLORINE ELECTRODE LOCKING NUT	13431	1	1	1
29	2-IN-1 SENSOR O-RING	11585	1	1	1
30	2-IN-1 SENSOR (SALT / TEMPERATURE)	13432	1	1	1
31	2-IN -1 SENSOR NUT	13433	1	1	1
32	TEST STRIPS	19635	1	1	1
33	HOSE WITH NUTS (59" /150 CM long)	11009	2	2	2
34	SAND FILTER INTERCONNECTING HOSE	11388	2	2	2
35	FLOW SENSOR	11460	1	1	1
36	LIMESCALE SCRAPER	13556	1	1	1
A	AIR JET VALVE CAP	12373	1	1	1
B	AIR JET VALVE	12363	1	1	1
C	STRAINER NUT	10256	1	1	2
D	FLAT STRAINER RUBBER WASHER	10255	1	1	2
E	INLET THREADED AIR CONNECTOR	12372	1	1	1
F	ADJUSTABLE POOL INLET JET NOZZLE	12369	1	1	1
G	STEP WASHER	10745	-	1	2
H	PLUNGER VALVE (HOSE O-RING & STEP WASHER INCLUDED)	10747	-	1	2
I	HOSE O-RING	10262	-	2	2
J	SPLIT HOSE PLUNGER VALVE	11872	-	1	-
K	HOSE CLAMP	10122	-	4	-
L	HOSE	11873	-	2	-
M	STRAINER CONNECTOR	11070	-	2	-
N	STRAINER GRID	11072	1	2	-
O	THREADED STRAINER CONNECTOR	10744	-	-	1
P	STRAINER GRID	12198	-	-	1

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

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POFor Certified Model **CSW20110**:

REF. NO.	DESCRIPTION	SPARE PART NO.	QTY.		
			Individually	USA & CAN Pool set 1-1/2" (38 mm)	NON-USA & CAN Pool set 1-1/2" (38 mm)
1	6-WAY VALVE	11496	1	1	1
2	PRESSURE GAUGE	11224	1	1	1
3	DRAIN OUTLET COVER	11131	3	3	3
4	TANK O-RING	11379	1	1	1
5	CLAMP	11380	1	1	1
6	SCREW	11381	2	2	2
7	SAND SHIELD	11382	1	1	1
8	CENTER PIPE HUB	11814	1	1	1
9	SAND FILTER PUMP TANK	12714	1	1	1
10	DRAIN VALVE CAP	11456	1	1	1
11	DRAIN VALVE O-RING	11385	1	1	1
12	SAND FILTER PUMP TANK BASE	12870	1	1	1
13	LATERAL	11384	12	12	12
14	PUMP MOTOR & CONTROL	13573EG	1	1	1
15	PRE-FILTER ASSEMBLY	11371	1	1	1
16	VALVE O-RING	10264	2	2	2
17	AIR RELEASE VALVE/SEDIMENT RELEASE VALVE	10460	2	2	2
18	FILTER HOUSING NUT	11261	1	1	1
19	BASKET	11260	1	1	1
20	LEAF TRAP O-RING	11232	1	1	1
21	LEAF TRAP COVER	11480	1	1	1
22	LEAF TRAP NUT	11479	1	1	1
23	SAND FILTER PUMP MOTOR INLET O-RING	11457	2	2	2
24	L-SHAPE O-RING	11228	7	7	7
25	CHLORINE ELECTRODE HOUSING	13575	1	1	1
26	CHLORINE ELECTRODE O-RING	13430	1	1	1
27	CHLORINE ELECTRODE	13576	1	1	1
28	CHLORINE ELECTRODE LOCKING NUT	13431	1	1	1
29	2-IN-1 SENSOR O-RING	11585	1	1	1
30	2-IN-1 SENSOR (SALT / TEMPERATURE)	13432	1	1	1
31	2-IN-1 SENSOR NUT	13433	1	1	1
32	TEST STRIPS	19635	1	1	1
33*	HOSE WITH NUTS (59" /150 CM long)	11009	2	2	2
	HOSE WITH NUTS (118" / 300 CM long)	11010	-	*	*
34	SAND FILTER INTERCONNECTING HOSE	11535	2	2	2
35	FLOW SENSOR	11460	1	1	1
36	LIMESCALE SCRAPER	13556	1	1	1
A	AIR JET VALVE CAP	12373	1	1	1
B	AIR JET VALVE	12363	1	1	1
C	STRAINER NUT	10256	1	1	2
D	FLAT STRAINER RUBBER WASHER	10255	1	1	2
E	INLET THREADED AIR CONNECTOR	12372	1	1	1
F	ADJUSTABLE POOL INLET JET NOZZLE	12369	1	1	1
G	STEP WASHER	10745	-	1	2
H	PLUNGER VALVE (HOSE O-RING & STEP WASHER INCLUDED)	10747	-	1	2
I	HOSE O-RING	10262	-	2	2
J	SPLIT HOSE PLUNGER VALVE	11872	-	1	-
K	HOSE CLAMP	10122	-	4	-
L	HOSE	11873	-	2	-
M	STRAINER CONNECTOR	11070	-	2	-
N	STRAINER GRID	11072	1	2	-
O	THREADED STRAINER CONNECTOR	10744	-	-	1
P	STRAINER GRID	12198	-	-	1

*The following pool sets, include 1 x 11009 and 1 x 11010 hoses with nuts:

32'x16' (9.75 m x 4.88 m) and above rectangular pool sets.

24' (7.32 m) and above round pool sets.

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

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POOL OUTLET - STRAINER & PLUNGER VALVE SETUP (optional)

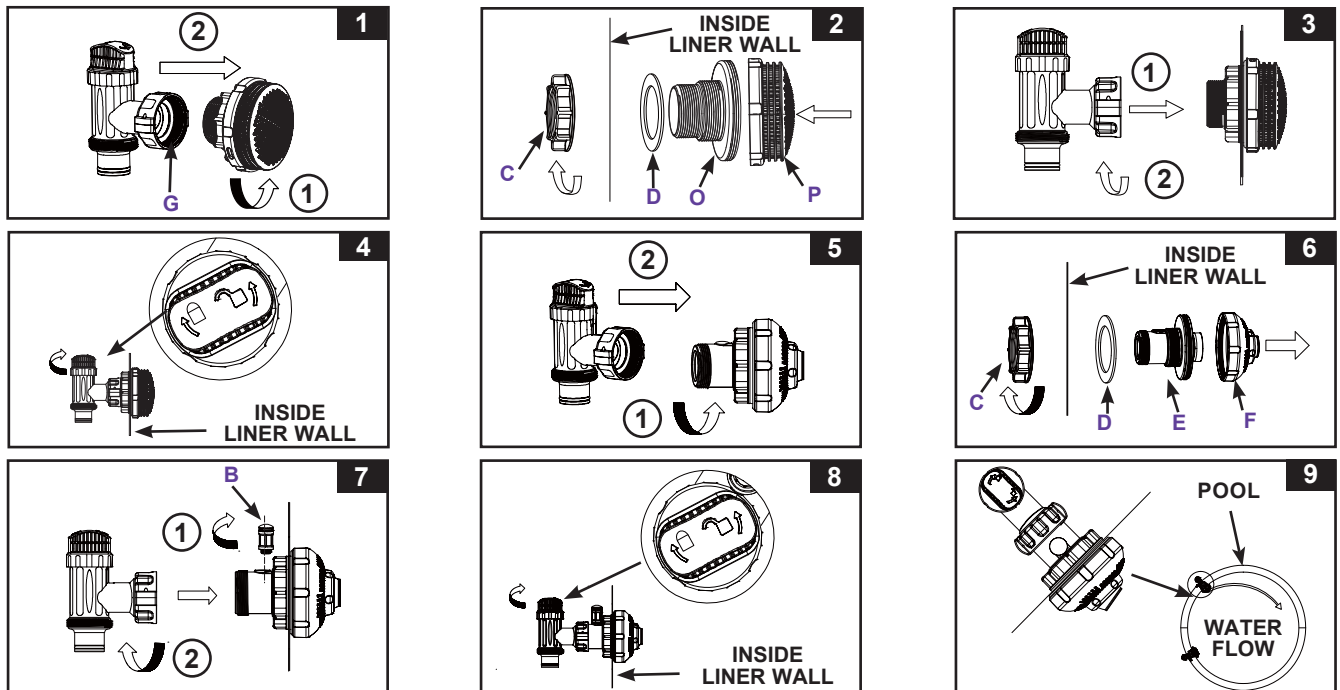
The strainer grid prevents large objects from jamming and/or damaging the filter pump. If your pool has an inflatable top ring, install the strainer, nozzle and plunger valve before inflating the pool liner top ring.

1. Unscrew plunger valve union from the threaded strainer connector (O) (see drawing 1). Be careful not to lose the step rubber washer (G). Place the plunger valve on the ground in a safe place.
2. Unscrew the strainer nut (C) from the threaded connector (O). Leave the flat washer (D) on the connector (O).
3. Install the strainer and plunger valve at the lower position of pool outlet (marked "+"). From the inside of the pool liner insert the connector (O) into one of the pre-cut holes with the washer remaining on the connector to be placed against the inside of the liner wall.
4. With the flat side of the strainer nut (C) facing the outside wall of the liner, screw the strainer nut (C) back onto the threaded connector (O) (see drawing 2). Hand tighten only.
5. Ensure the step washer (G) is in place, and screw the plunger valve back onto the threaded connector (O) (see drawing 3).
6. Turn the plunger valve handle to close position. Ensure the plunger valve is securely closed. This will prevent water from flowing out during filling of the pool (see drawing 4).

POOL INLET - NOZZLE & PLUNGER VALVE SETUP (optional)

7. Unscrew the plunger valve union from the inlet threaded air connector (E) (see drawing 5). Be careful not to lose the step washer (G). Place the plunger valve on the ground in a safe place.
8. Unscrew the strainer nut (C) from the inlet threaded air connector (E). Leave the flat washer (D) on the connector (E).
9. Install the nozzle and plunger valve at the upper position of pool inlet. From the inside of the pool liner insert the nozzle union (F & E) into one of the pre-cut holes with the washer remaining on the connector to be placed against the inside of the liner wall.
10. With the flat side of the strainer nut (C) facing the outside wall of the liner, screw the strainer nut (C) back onto the inlet threaded air connector (E) (see drawing 6). Hand tighten only.
11. Finger tighten the adjustable pool inlet jet nozzle (F) and the strainer nut (C) onto the inlet threaded air connector (E).
12. Screw the air jet valve (B) over the inlet threaded air connector (E).
NOTE: Make sure the air jet valve (B) is securely tighten and facing up. Ensure the step washer is in place, and screw the plunger valve union back onto the inlet threaded air connector (E) (see drawing 7).
13. Turn the plunger valve handle to close position. Ensure the plunger valve is securely closed. This will prevent water from flowing out during filling of the pool (see drawing 8).
14. Adjust the direction of nozzle head pointing away from the pool outlet for a better circulation result (see drawing 9).
15. The pool liner is now ready to fill with water. Consult the above-ground-pool owner's manual for filling instructions.

NOTE: Do not cover the air jet valve (B) with the valve cap (A) under normal situation or when the pump is operating. See Troubleshooting Guide section for more details.



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PRODUCT SPECIFICATIONS

The sand filter removes suspended particles but does not sanitize your pool. Pool chemistry is a specialized area and you should consult your local pool service specialist for details.

Certified Model Number:	CSW15110	CSW20110
Power:	110-120 Volt AC	
Amperage:	2.5 A	4.5 A
Ideal Salt Level:	950 ppm (parts per million)	
Maximum sodium hypochlorite output/hour:	7 grams/hour	11 grams/hour
Maximum working pressure:	1.34 bar (20 psi)	2 bar (30 psi)
Effective filtering area:	0.1 m ² (1.07 ft ²)	0.13 m ² (1.44 ft ²)
Maximum Flow Rate:	6055 LPH (1600 GPH)	8140 LPH (2150 GPH)
Recommended filtering media quantity:	No. 20 silica sand 35 kg (77 lb), glass sand 25 kg (55 lb) or fiber ball 1000 g (2.2 lb).	No. 20 silica sand 55 kg (120 lb), glass sand 38 kg (85 lb) or fiber ball 1500 g (3.3 lb).
Recommended filtering media (Not included):	No. 20 silica sand or glass sand. Particle size range 0.45 to 0.85 mm (0.018 to 0.033 inches). Uniformity Coefficient less than 1.75.	
Limited Warranty:	see "Limited Warranty"	

SETUP INSTRUCTIONS

TOOLS REQUIRED: One (1) Phillips screwdriver

Pump location and mounting:

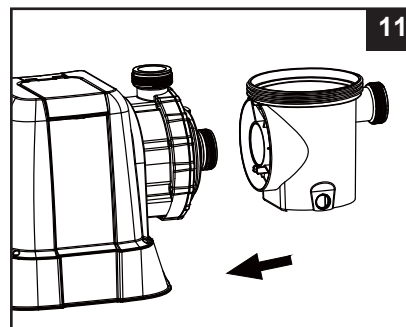
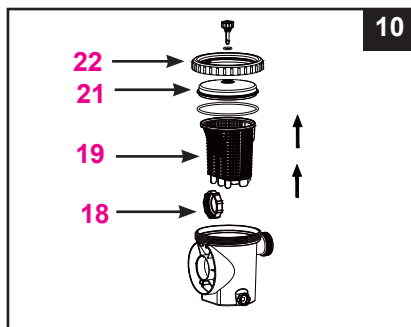
- The system must be installed on a solid level and vibration-free base.
- Provide a location protected from the weather, moisture, flooding and freezing temperature.
- Provide adequate access, space and lighting for routine maintenance.
- Pump motor requires free circulation of air for cooling. Do not install the pump in a damp or non-ventilated location.

A team of 2 or more people is recommended for setting up this product.

The appliance is intended only for household and outdoor use.

Motor pre-filtering assembly setup:

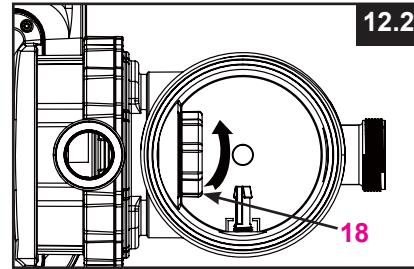
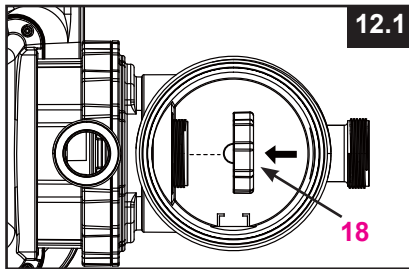
1. Remove the sand filter and its accessories from the packaging carefully and inspect for any visible damage. For missing or damaged parts contact the appropriate Intex Service Center listed in the separate "Authorized service Centers" sheet.
2. In a counter-clockwise motion unscrew the leaf trap nut (22) from the pre-filter housing. Take out the basket (19) and filter housing nut (18) (see drawing 10).
3. Connect the pre-filter housing to the motor water inlet. Note: Align the connector in the pre-filter housing with the water inlet on the motor (see drawing 11).



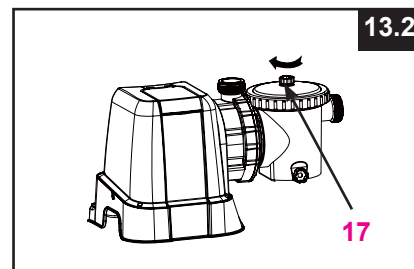
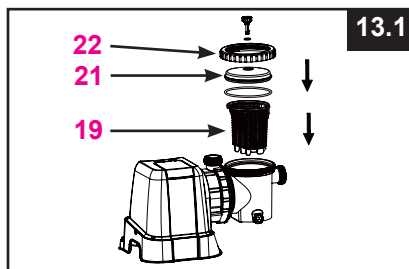
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SETUP INSTRUCTIONS (continued)

4. In a clockwise motion screw filter housing nut (18) onto the motor water inlet (see drawings 12.1 & 12.2).



5. Replace the basket (19) and leaf trap nut (22) back to the pre-filter housing (see drawings 13.1 & 13.2).



Sand tank installation:

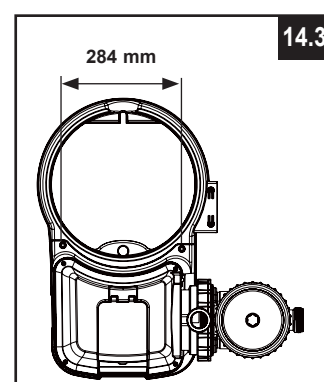
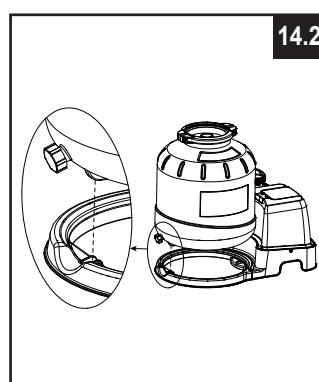
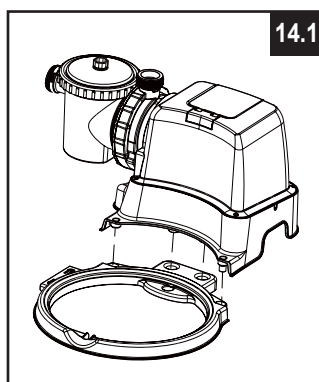
1. Place the tank support base on the selected location.
2. Attach the motor with pre-filter assembly to the tank support base (see drawing 14.1).
3. Place the tank on the tank support base (see drawing 14.2).

NOTE: Ensure the pre-filter housing water inlet hose connection is facing towards the pool.

IMPORTANT: 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 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 14.3).

The product can be mounted on a cement base or onto a wooden plat form to prevent accidental falling over.

- The mounting holes are 6.4 mm in diameter and spaced 284 mm apart.
- Use two bolts and lock nuts with a maximum of 6.4 mm in diameter.



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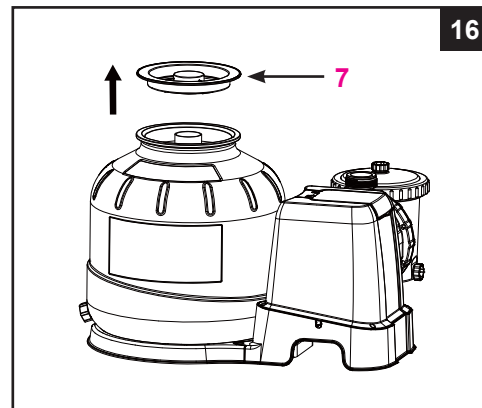
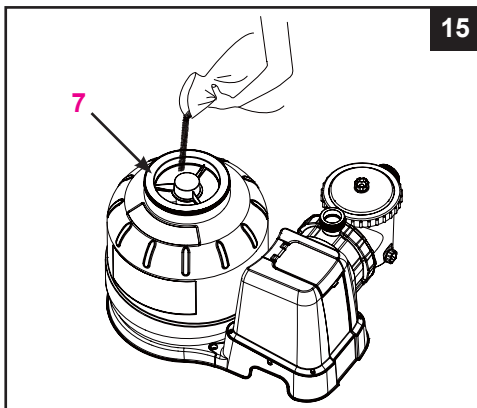
SETUP INSTRUCTIONS (continued)

Sand loading:

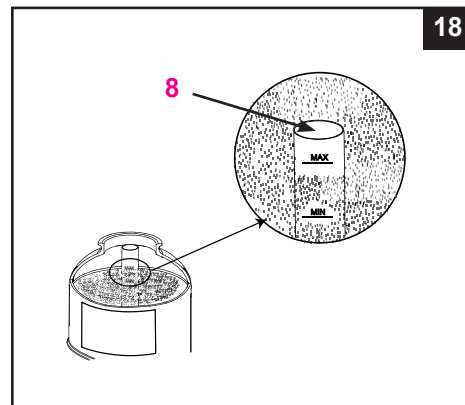
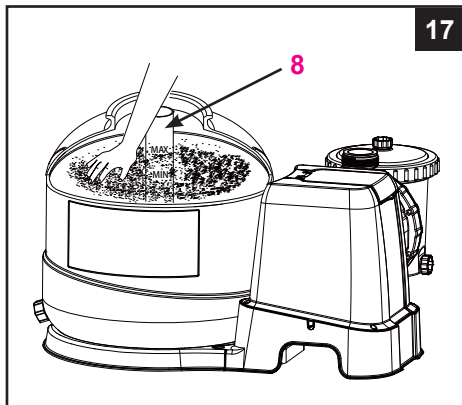
IMPORTANT: Use No. 20 silica sand or glass sand with particle size range 0.45 to 0.85 mm (0.018 to 0.033 inches) and a Uniformity Coefficient less than 1.75.

NOTE: Before loading the tank with sand, ensure the center pipe hub assembly is securely in place at the bottom of the tank, and vertically centered inside the tank.

1. Place the sand shield (7) over the top of the center pipe. Pour the sand into the tank at a slow rate (see drawing 15).
2. Fill the tank approximately half way, remove the sand shield (7) from the top (see drawing 16).



3. Evenly distribute the sand inside the tank, then fill the tank with some water to provide a cushioning effect when the remaining sand is poured in. This prevents the center pipe hub (8) from excessive shock (see drawing 17). Place the sand shield (7) back and continue to pour the sand into the tank.
4. Sand shall be filled between the "MAX" and "MIN" marked gauge on the center pipe (see drawing 18).



5. Remove the sand shield (7) (see drawing 16) and evenly spread and level out the sand by hand (see drawing 17).
6. Wash away all sand around the top edge of the tank.

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SETUP INSTRUCTIONS (continued)

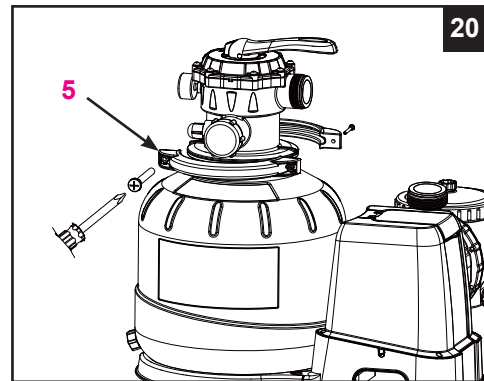
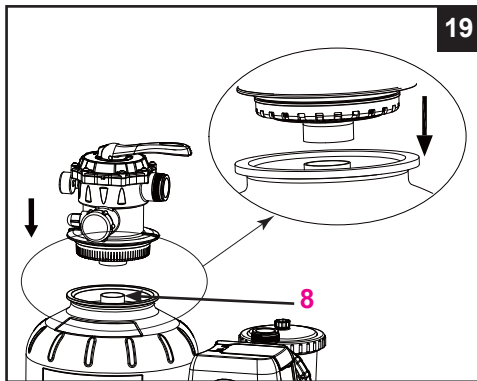
WARNING

Improper tank valve and clamp assembly could cause the valve and clamp to blow off and cause serious injury, property damage or death.

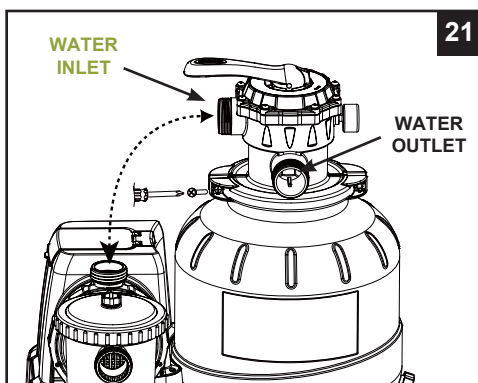
6-way valve installation:

1. Remove the sand shield (7) from the top (see drawing 16). Lower the 6-way valve over the tank slowly, and ensure the bypass pipe protruding underneath the 6-way valve fits securely into the center pipe hub (8) top opening (see drawing 19).

IMPORTANT: There are three hose connection ports on the 6-way valve, ensure the outlet connection (from filter to the pool) on the valve is facing towards the pool, and the inlet connection (from motor to valve) is aligned with the motor outlet (see drawing 20).



2. Remove the clamp bolt, and install the clamp around the tank and 6-way valve flanges, then replace the clamp bolt and use a phillips screwdriver (not included) to tighten it (see drawing 21).

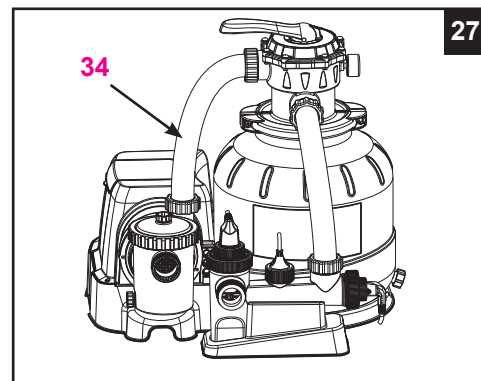
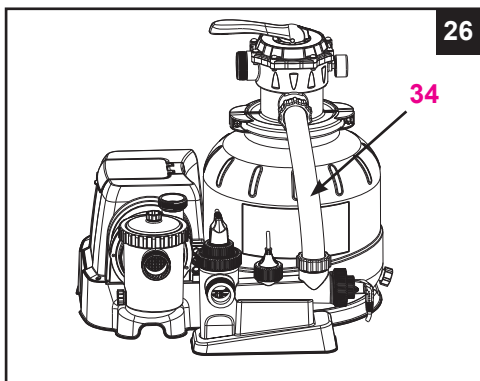
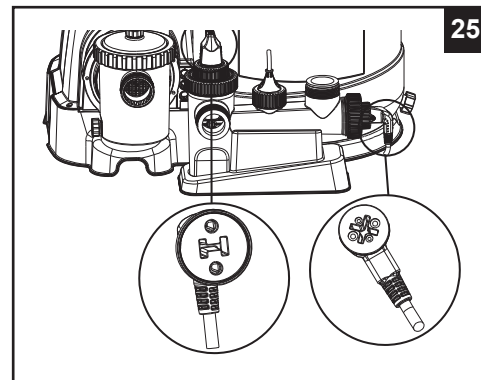
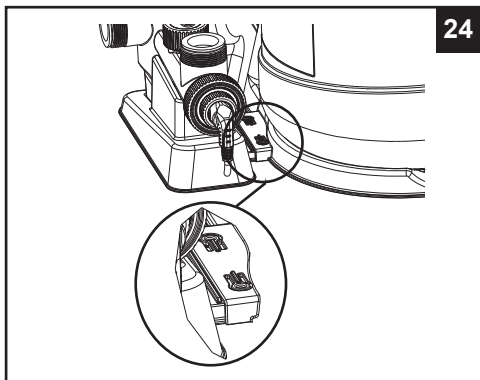
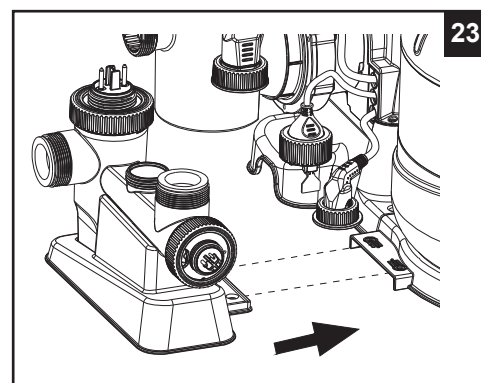
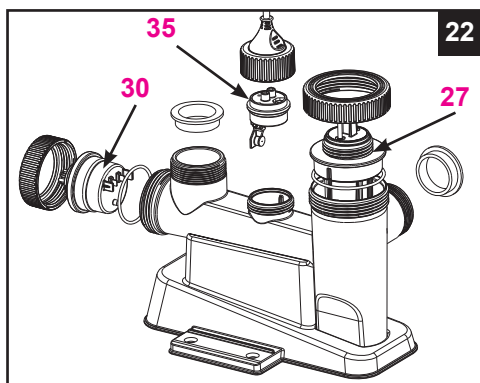


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SETUP INSTRUCTIONS (continued)

Cell housing installation:

1. Ensure the chlorine electrode (27), 2-in-1 sensor (30) and flow sensor (35) are properly inserted into their respective holes in the cell housing (25) (see drawing 22).
2. Attach the cell housing (25) to the tank base (see drawing 23 & 24).
3. Plug in the respective line cords to the chlorine electrode, 2-in-1 sensor and flow sensor, and tighten the plugs collars by hand (see drawing 25).
4. Place an L-shape o-ring (24) on the cell housing inlet and 6-way valve outlet connection. Connect the sand filter interconnecting hose (34) between the cell housing inlet and the 6-way valve outlet connection (see drawing 26).
5. Place an L-shape o-ring (24) on the pump motor outlet and the 6-way valve inlet connection. Connect the other sand filter interconnecting hose (34) between the pump motor outlet and the 6-way valve inlet connection (see drawing 27).



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SAND FILTER PUMP HOSE CONNECTION SETUP

⚠ WARNING

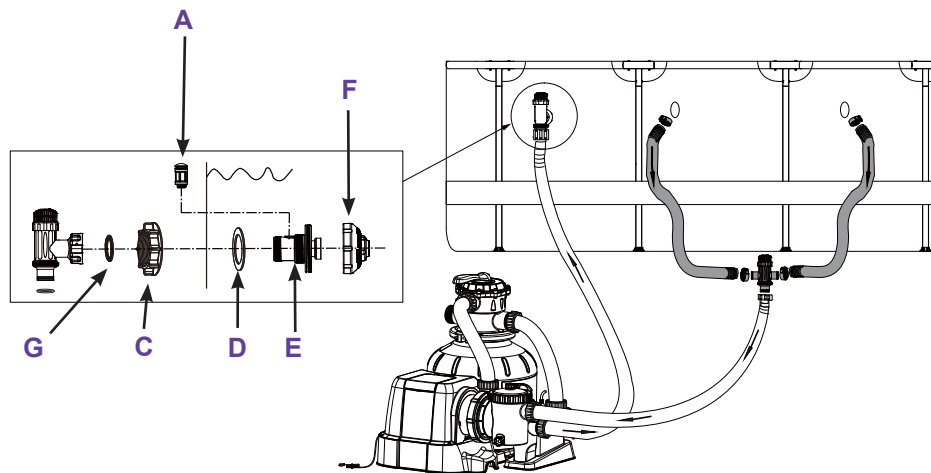
- Position this product away from the pool, so as to prevent children from climbing on it and accessing the pool.

The 6-way valve has three hose connection ports.

1. Connect one hose (33) between the pre-filter inlet and the split hose plunger valve or the lower plunger valve with the strainer. Ensure the hose nuts are securely tightened.
2. Connect the second hose (33) between the cell housing (25) outlet and the upper plunger valve with the inlet-nozzle. Ensure the hose nuts are securely tightened.
3. The third hose connection port (drain/waste outlet) on the 6-way valve shall be directed to a proper draining receptacle using a hose or pipe (not provided). Remove the drain cap before attaching the drain/waste hose or pipe.
4. The sand filter pump is now ready to filter the pool.

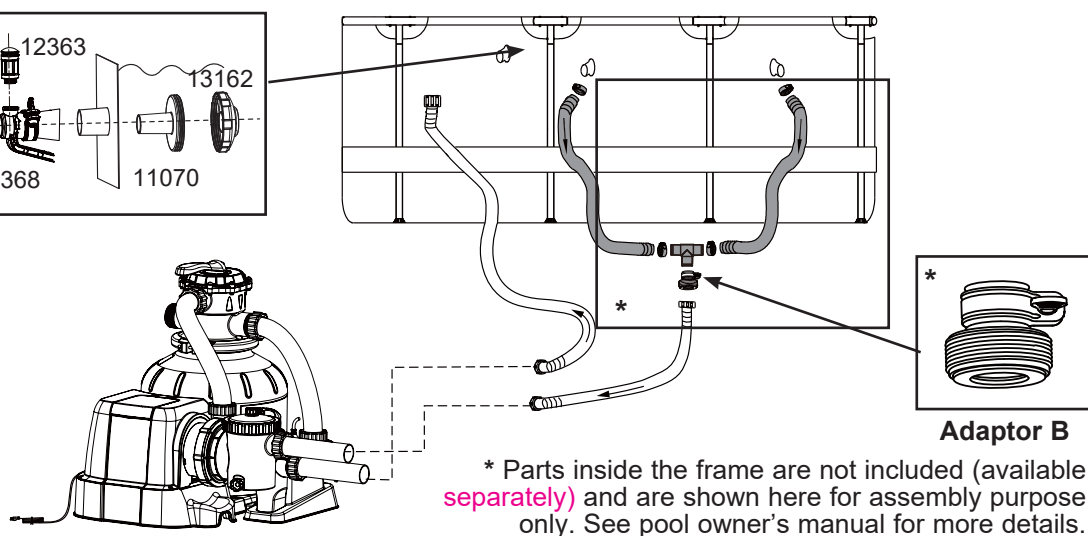
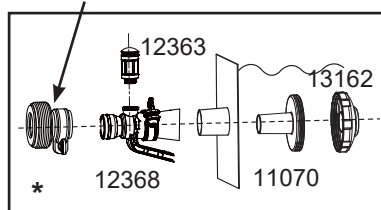
For Pool Sets with Dual Suction Outlets Configuration (for USA & Canada):

In order to comply with the requirement of the Virginia Grahame Baker Act (for USA and Canada), your pool is designed with dual suction outlets and one inlet fittings. Parts in grey highlight on this page are supplied with the pool set package and are shown here for assembly purposes only. If this pump was purchased as part of a pool set, refer to the pool owner's manual for more details.



Pump upgrade for INTEX pools 16 ft (488 cm) and below with Dual Suction Outlets Configuration (for USA & Canada):

Adaptor B



* Parts inside the frame are not included (available separately) and are shown here for assembly purpose only. See pool owner's manual for more details.

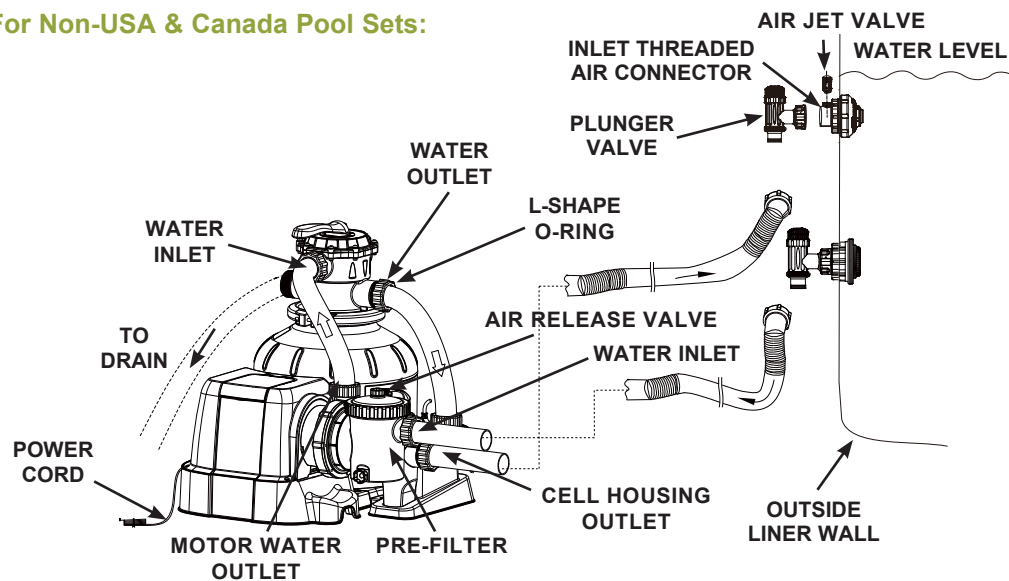
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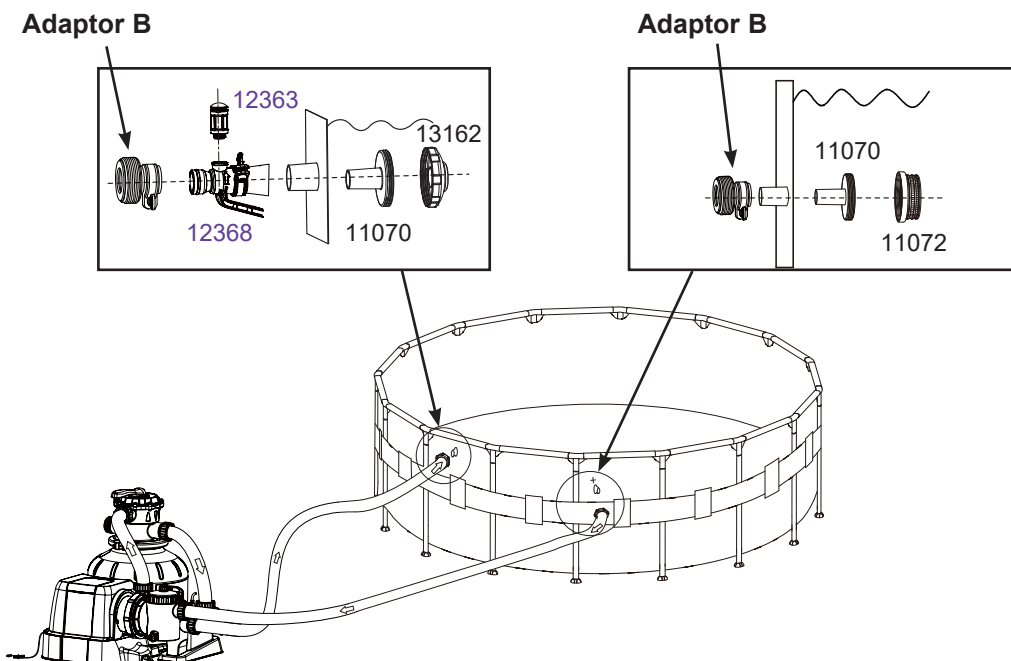
SAND FILTER PUMP HOSE CONNECTION SETUP (continued)

For Non-USA & Canada Pool Sets:



Pump upgrade for INTEX pools with 1-1/4" (32mm) connections/fittings:

Connect the hoses (33) to the pool inlet and outlet fittings with two "Adaptor B" (10722). Parts inside the frame are not included (available separately) and are shown here for assembly purpose only. See your pool owner's manual for more details.



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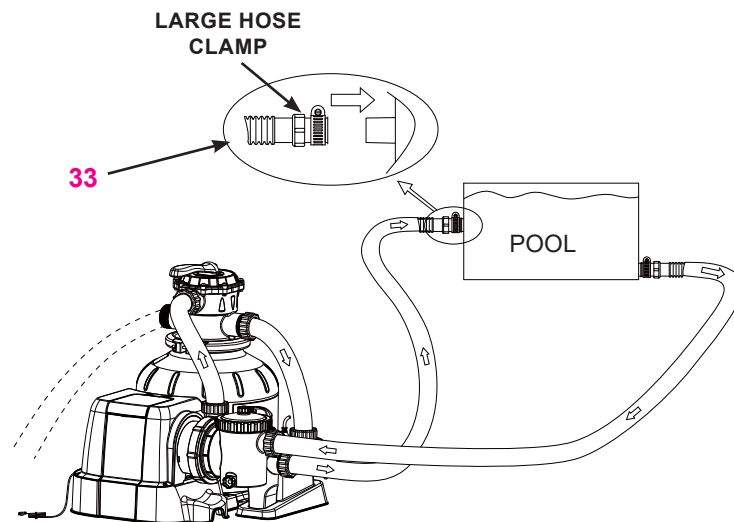
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SAND FILTER PUMP HOSE CONNECTION SETUP (continued)

For NON-INTEX pool:

Connect the hoses (33) to the pool inlet/outlet connection with a large hose clamp (not included). Tighten securely.



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TYPE OF SALT / SALT LEVEL / ADDING SALT / REMOVING SALT

• Which kind of salt to use:

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.

• 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 QX2100 PLUS with WiFi™ & QX2600 PLUS with WiFi™:

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 "REMOVING SALT" section. Check the salt level again after 24 hours to ensure it is within 800-1800 ppm.

• Adding Salt

- Press () button. Then press pump timer () button until the LED displays "FP". The pump is now operating continuously without the "TIMER". To stop the pump, press () again.
- Keep the Saltwater System turned off.
- Add salt according to the "SALT TABLE" section. Alternatively see "Alternative Salt Level Measurement" section.
- Evenly spread the salt around the inside of the pool.
- Brush the pool bottom to speed up the dissolving process and run the filter pump for 24 hours.
- After 24 hours, press () button to unlock, 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 is displayed after 3 minutes. See "Salt / Temperature Detection Display Mode" section for details.
- Press () button until "00H" or operating hour is flashing on the display and press the chlorinator timer () button to set the desired operating time. See "Operating Instructions" and "Operating Time Table" section.

• Removing Salt

- 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.
- If the pool water level has dropped below the recommended fill level, add fresh water until the recommended level.
- 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 Sand Filter Pump & 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

- 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 (C₀)** as this will be the starting base for future reading.
- Add **5kg (S₁)** salt to the pool, turn on the pump, run the filter pump for 2 hours to dissolve the salt. Then press () button again to test the **current salt level (C₁)**.
- Scan the QR code to open the "salt calculator" program and input the following data for **C₀ (ppm)**, **C₁ (ppm)** and **S₁ (5kg)**. The program will calculate the **additional amount of salt "S₂" (kg) needed automatically**. The calculation formula is: $S_2 = S_1 \times [950 - (C_1 - C_0)] / (C_1 - C_0)$ in kg.

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