

IMPORTANT SAFETY RULES

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

Model ECO15220-2

220-230 V~, 50 Hz, 300 W, Hmax 5 m Hmin 0.19 m IPX4

Model ECO15230-2

230-240 V~, 50 Hz, 300 W, Hmax 5 m Hmin 0.19 m IPX4

Model ECO20220-2

220-230 V~, 50 Hz, 520 W, Hmax 7.5 m Hmin 0.19 m IPX4

Model ECO20230-2

230-240 V~, 50 Hz, 520 W, Hmax 7.5 m Hmin 0.19 m IPX4

MAX. WATER TEMPERATURE 35°C



For illustrative purposes only.

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

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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

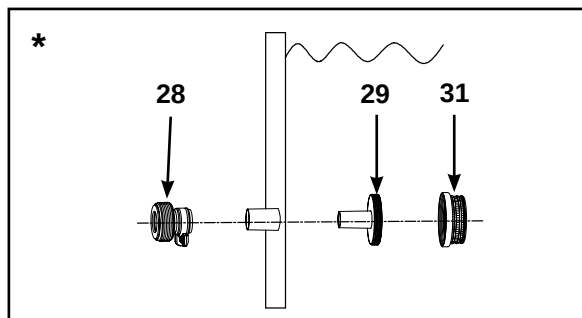
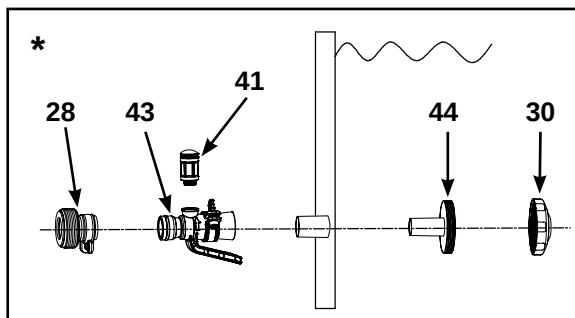
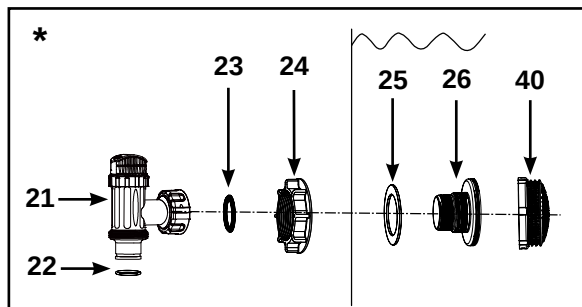
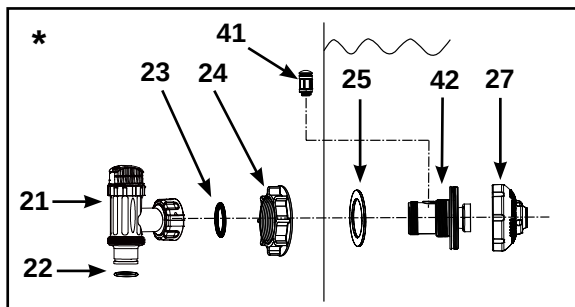
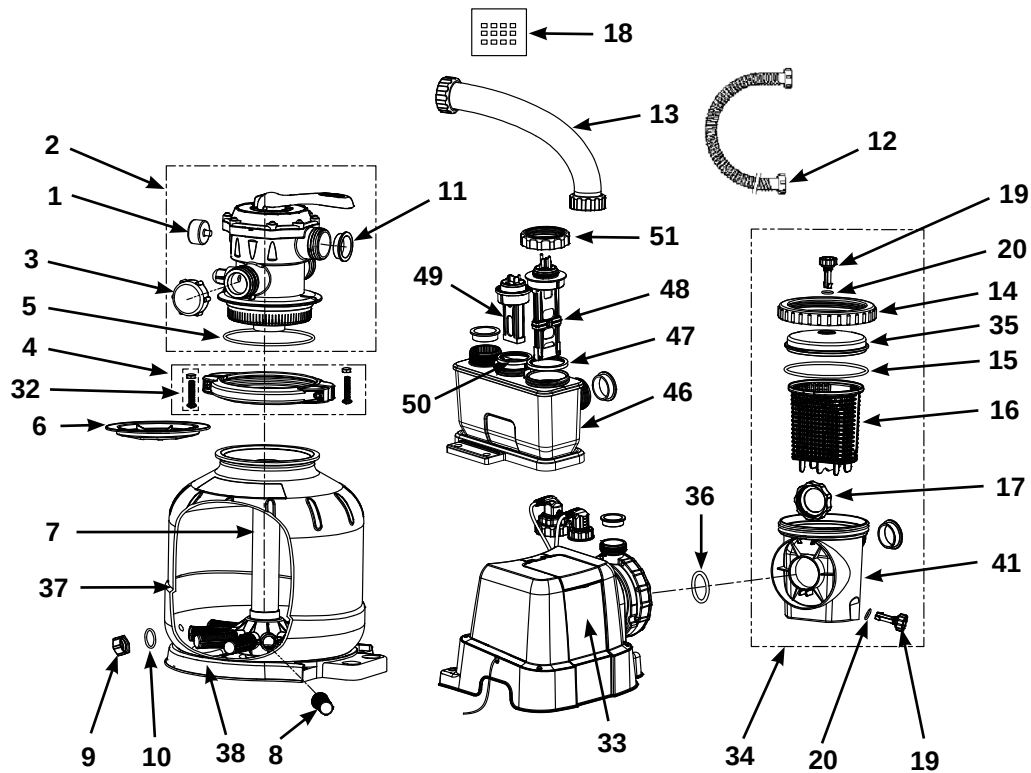
- Always supervise children and those with disabilities.
- Children must stay away from this product and electrical cord(s).
- Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- This appliance can be used by children aged from 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.
- Risk of electric shock. Connect this product only to a grounding type receptacle protected by a ground-fault circuit interrupter (GFCI) or residual current device (RCD). Contact a qualified electrician if you cannot verify that the receptacle is protected by a GFCI/RCD. Use a qualified electrician to install the GFCI/RCD, which has a maximum rate of 30mA. Do not use a portable residual current device (PRCD).
- Always unplug this product from the electrical outlet before removing, cleaning, servicing or making any adjustment to the product.
- The plug must be accessible after product is installed.
- Do not bury the electrical cord. Locate the cord where it will not be damaged by lawn mowers, hedge trimmers and other equipment.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- To reduce the risk of electric shock, do not use extension cords, timers, plug adaptors or converter plugs to connect unit to electric supply; provide a properly located outlet.
- Do not attempt to plug in or unplug this product while standing in water or when your hands are wet.
- Keep this product more than 2m away from the pool.
- Keep this product more than 3.5m away from the pool (for France only).
- 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.
- Do not operate this product when pool is occupied.
- 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.
- 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.

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.

PARTS REFERENCE

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



" * ": These parts are not included if this pump was not purchased as part of a pool set. Contact our Authorized Service Centers to order these parts if needed.

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

SAVE THESE INSTRUCTIONS

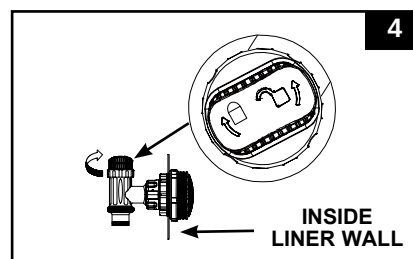
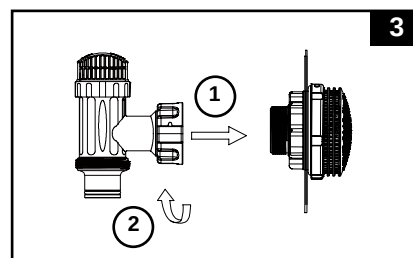
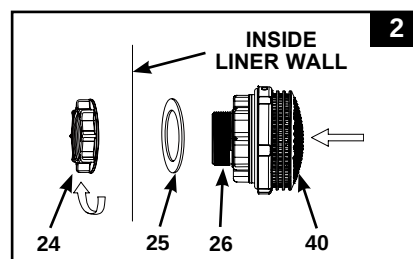
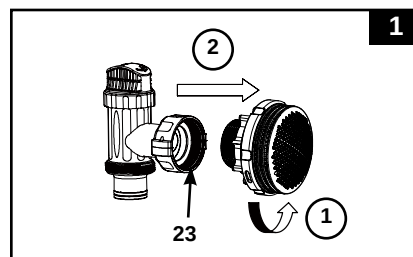
REF. NO.	DESCRIPTION	QTY.	SPARE PART NO.	
			ECO20220-2/ECO20230-2	ECO15220-2/ECO15230-2
1	PRESSURE GAUGE	1	11224	11411
2	6-WAY VALVE	1	11496	11378
3	DRAIN OUTLET COVER	1	11131	11131
4	CLAMP	1	11380	11380
5	TANK O-RING	1	11379	11379
6	SAND SHIELD	1	11382	11382
7	CENTER PIPE HUB	1	11814	11813
8	LATERAL	12	11384	11384
9	DRAIN VALVE CAP	1	11456	11456
10	DRAIN VALVE O-RING	1	11385	11385
11	L-SHAPE O-RING	7	11228	11228
12	HOSE WITH NUTS	2	11010	11010
13	SAND FILTER INTERCONNECTING HOSE	2	11535	11388
14	LEAF TRAP NUT	1	11479	11822
15	LEAF TRAP O-RING	1	11232	11824
16	BASKET	1	11260	11821
17	FILTER HOUSING NUT	1	11261	11261
18	TEST STRIPS	1	19635	19635
19	AIR RELEASE VALVE/SEDIMENT RELEASE VALVE	2	10460	10460
20	VALVE O-RING	2	10264	10264
21*	PLUNGER VALVE (HOSE O-RING & STEP WASHER INCLUDED)	2	10747	10747
22*	HOSE O-RING	2	10262	10262
23*	STEP WASHER	2	10745	10745
24*	STRAINER NUT	2	10256	10256
25*	FLAT STRAINER RUBBER WASHER	2	10255	10255
26*	THREADED STRAINER CONNECTOR	1	10744	10744
27*	ADJUSTABLE POOL INLET JET NOZZLE	1	12369	12369
28*	ADAPTOR B	2	10722	10722
29*	STRAINER CONNECTOR	1	11070	11070
30*	POOL INLET JET NOZZLE	1	12364	12364
31*	STRAINER GRID	1	12197	12197
32	SCREW	2	11381	11381
33	PUMP MOTOR & CONTROL	1	13040	13038
34	PRE-FILTER ASSEMBLY	1	11371	11826
35	LEAF TRAP COVER	1	11480	11823
36	SAND FILTER PUMP MOTOR INLET O-RING	2	11457	11457
37	SAND FILTER PUMP TANK	1	12714	12713
38	SAND FILTER PUMP TANK BASE	1	12870	12869
39	PRE-FILTER HOUSING	1	12099	12100
40*	STRAINER GRID	1	12198	12198
41*	AIR JET VALVE	1	12363	12363
42*	INLET THREADED AIR CONNECTOR	1	12372	12371
43*	POOL INLET AIR ADAPTOR	1	12368	12368
44*	INLET STRAINER CONNECTOR	1	12365	12365
45*	AIR JET VALVE CAP (NOT SHOWN)	1	12373	12373
46	CELL HOUSING	1	12864	12864
47	TITANIUM PLATES O-RING	1	12871	12871
48	TITANIUM ELECTRODE	1	13043	13042
49	E.C.O. ELECTRODE	1	12875	12874
50	E.C.O. ELECTRODE O-RING	1	12876	12876
51	ELECTROLYTIC CELL NUT	1	13044	13044

" * ": These parts are not included if this pump was not purchased as part of a pool set. Contact our Authorized Service Centers to order these parts if needed.
When ordering parts, be sure to quote the model number and part numbers.

POOL OUTLET - STRAINER & PLUNGER VALVE SETUP (optional)

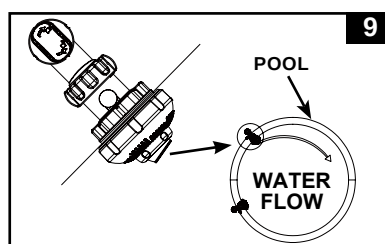
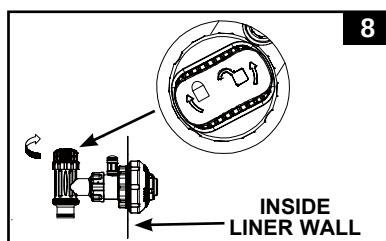
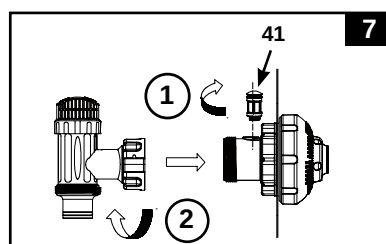
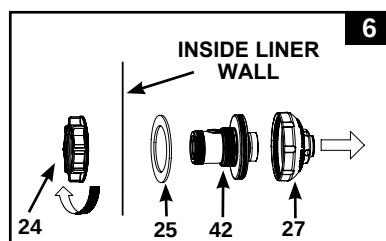
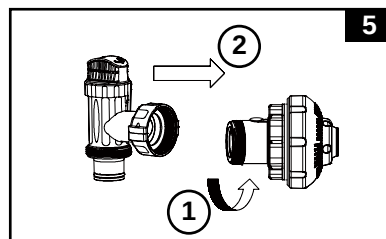
The strainer grid prevents large objects from jamming and/or damaging the filter pump. If your pool has an inflatable top ring, install the strainer, nozzle and plunger valve before inflating the pool liner top ring. The part numbers here onward refer to the parts depicted in the Parts List section of this manual. To install, do the following:

1. In a counter-clockwise motion unscrew plunger valve union from the threaded strainer connector (26) (see drawing 1). Be careful not to lose the step rubber washer (23). Place the plunger valve on the ground in a safe place.
2. In a counter-clockwise motion unscrew the strainer nut (24) from the threaded connector (26). Leave the flat washer (25) on the connector (26).
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 (26) 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. Before assembly, lubricate the threads with a petroleum jelly. With the flat side of the strainer nut (24) facing the outside wall of the liner in a clockwise motion screw the strainer nut (24) back onto the threaded connector (26) (see drawing 2).
5. Finger tighten the strainer nut (24) onto the threaded connector (26).
6. Grasp the plunger valve assembly. Make sure the step washer (23) is in place.
7. In a clockwise motion screw the plunger valve union back onto the threaded connector (26) (see drawing 3).
8. In a clockwise motion 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)

1. In a counter-clockwise motion unscrew plunger valve union from the inlet threaded air connector (42) (see **drawing 5**). Be careful not to lose the step rubber washer (23). Place the plunger valve on the ground in a safe place.
2. In a counter-clockwise motion unscrew the strainer nut (24) from the inlet threaded air connector (42). Leave the flat washer (25) on the connector (42).
3. Install the nozzle and plunger valve at the upper position of pool inlet. From the inside of the pool liner insert the nozzle union (27 & 42) 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. Before assembly, lubricate the threads with a petroleum jelly. Then, with the flat side of the strainer nut (24) facing the outside wall of the liner in a clockwise motion screw the strainer nut (24) back onto the inlet threaded air connector (42) (see **drawing 6**).
5. Finger tighten the adjustable pool inlet jet nozzle (27) and the strainer nut (24) onto the inlet threaded air connector (42).
6. Grasp the plunger valve assembly. Make sure the step washer (23) is in place.
7. Screw the air jet valve (41) over the inlet threaded air connector (42). **NOTE:** Make sure the air jet valve is securely tighten and facing up. In a clockwise motion screw the plunger valve union back onto the inlet threaded air connector (42) (see **drawing 7**).
8. In a clockwise motion 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**).
9. Adjust the direction of nozzle head pointing away from the pool outlet for a better circulation result (see **drawing 9**).
10. The pool liner is now ready to fill with water. Consult the above-ground-pool owner's manual for filling instructions.



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.

Model:	ECO20220-2/ECO20230-2	ECO15220-2/ECO15230-2
Power:	220-240 Volt AC	220-240 Volt AC
Wattage:	520 W	300 W
Ideal Salt Level:	3000 ppm (parts per million)	3000 ppm
Maximum Sanitizer Output/hour:	11 grams/hour	7 grams/hour
E.C.O. Cell Output Current:	800mA	500mA
Maximum working pressure:	2 bar (30 psi)	2 bar (30 psi)
Effective filtering area:	0.13 m ² (1.44 ft ²)	0.1 m ² (1.07 ft ²)
Pump flow rate (at pump outlet):	10.0 m ³ /h (2650 GPH)	7.9 m ³ /h (2100 GPH)
Recommended filtering media quantity:	No. 20 silica sand 55 Kg (120 Lbs) or glass sand 38 Kg (85 Lbs).	No. 20 silica sand 35 Kg (77 Lbs) or glass sand 25 Kg (55 Lbs).
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:

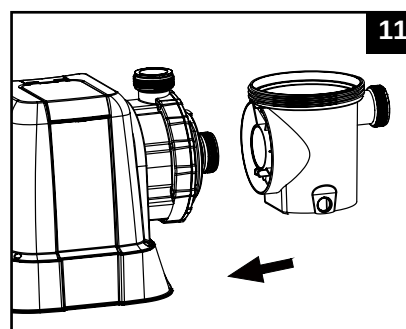
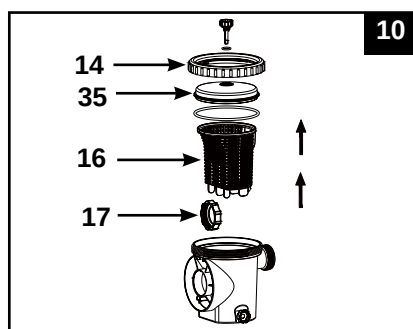
- The system must be installed on a solid level and vibration-free base.
- Provide a location protected from the weather, moisture, flooding and freezing temperature.
- Provide adequate access, space and lighting for routine maintenance.
- Pump motor requires free circulation of air for cooling. Do not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

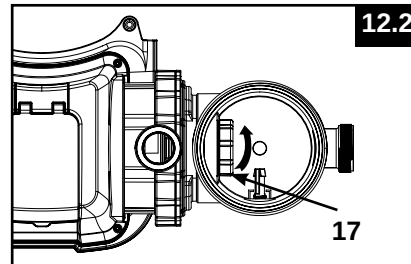
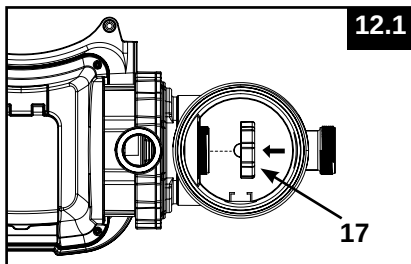
Motor pre-filtering assembly setup:

1. Remove the sand filter and its accessories from the packaging carefully and inspect for any visible damage.
2. In a counter-clockwise motion unscrew the leaf trap nut (14) from the pre-filter housing. Take out the basket (16) and filter housing nut (17) (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).

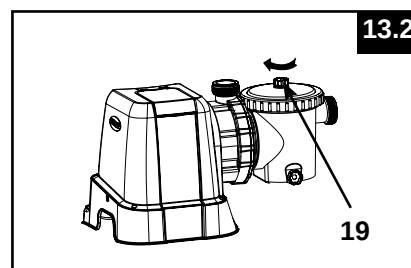
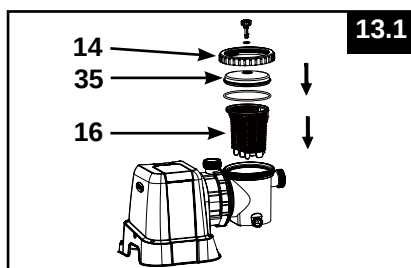


SETUP INSTRUCTIONS (continued)

4. In a clockwise motion screw filter housing nut (17) onto the motor water inlet (see drawings 12.1 & 12.2).



5. Replace the basket (16) and leaf trap nut (14) back to the pre-filter housing (see drawings 13.1 & 13.2).



Sand tank installation:

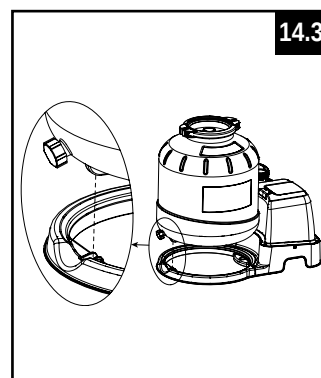
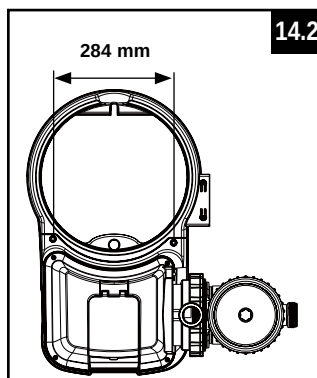
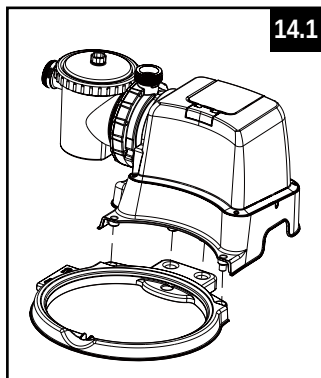
1. Place the tank support base at the selected location.
 2. Place the tank on the tank support base (see drawing 14.1).
 3. Connect the motor pre-filtering assembly unit to the tank support base (see drawing 14.2).
- NOTE: Ensure the pre-filter housing water inlet hose connection is facing towards the 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 platform 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.



SETUP INSTRUCTIONS (continued)

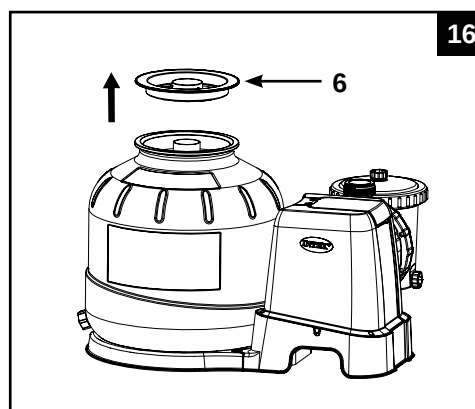
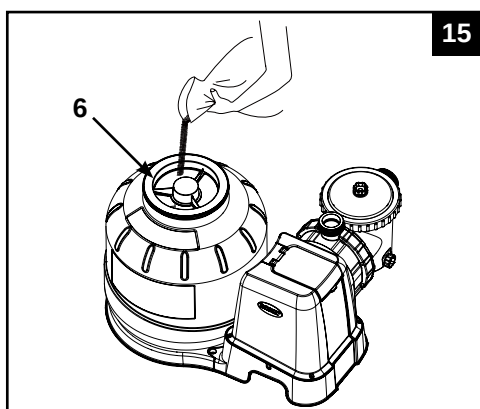
Sand loading:

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.

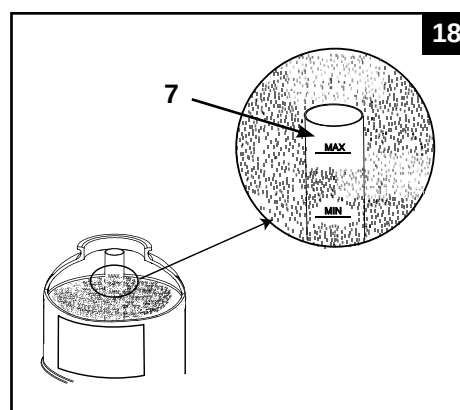
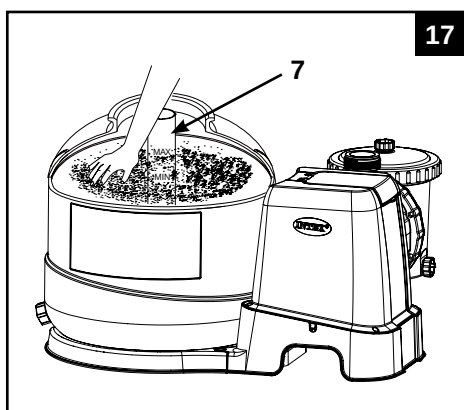
Only use the filter media specified by the manufacturer.

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 (6) 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 (6) 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 (7) from excessive shock (see drawing 17). Place the sand shield (6) 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 drawings 18).



5. Remove the sand shield (6) (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.