

IMPORTANT SAFETY RULES

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

Sand Filter Pump

Model SF20220R



For illustrative purposes only.

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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

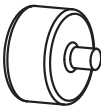
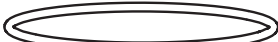
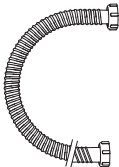
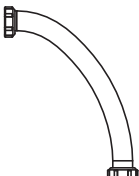
- To reduce the risk of injury, do not permit children to use this product. Always supervise children and those with disabilities.
- Children must stay away from this product and electrical cord(s).
- Children should be supervised to ensure that they do not play with the appliance.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge. They must at all times be supervised by a knowledgeable and experienced adult responsible for their safety.
- 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.

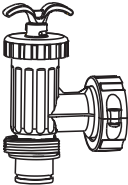
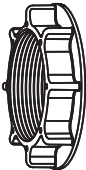
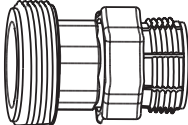
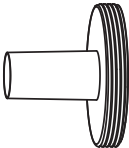
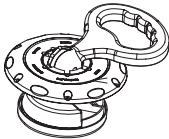
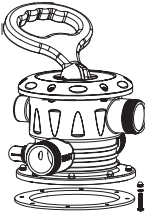
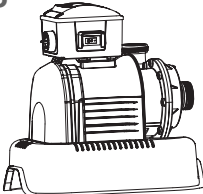
SAFETY RULES

PARTS LIST

1 	2 	3 
4 	5 	6 
7 	8 	9 
10 	11 	12 
13 	14 	15 
16 	17 	18 

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

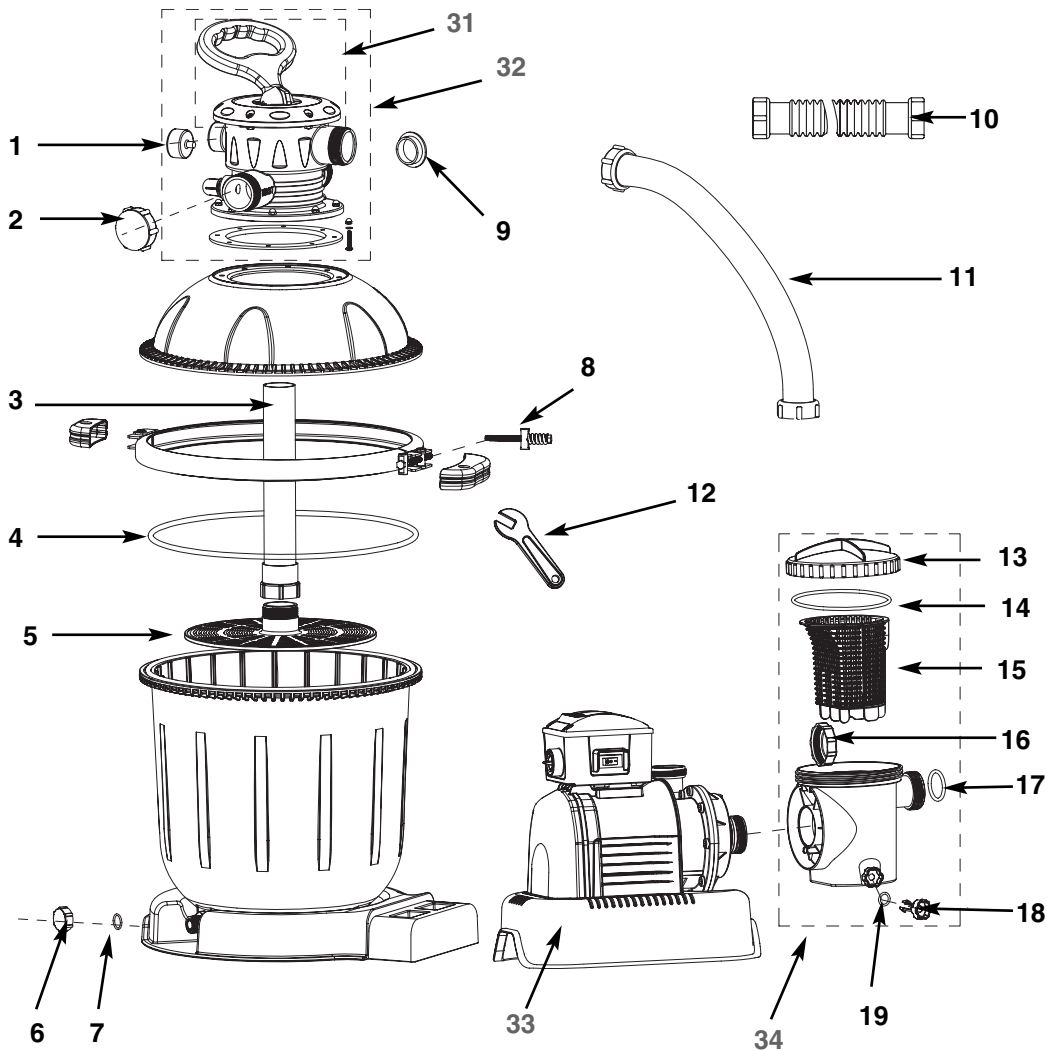
PARTS LIST (continued)

19 	20 	21 
22 	23 	24 
25 	26 	27 
28 	29 	30 
31 	32 	33 
34 		

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

PARTS REFERENCE

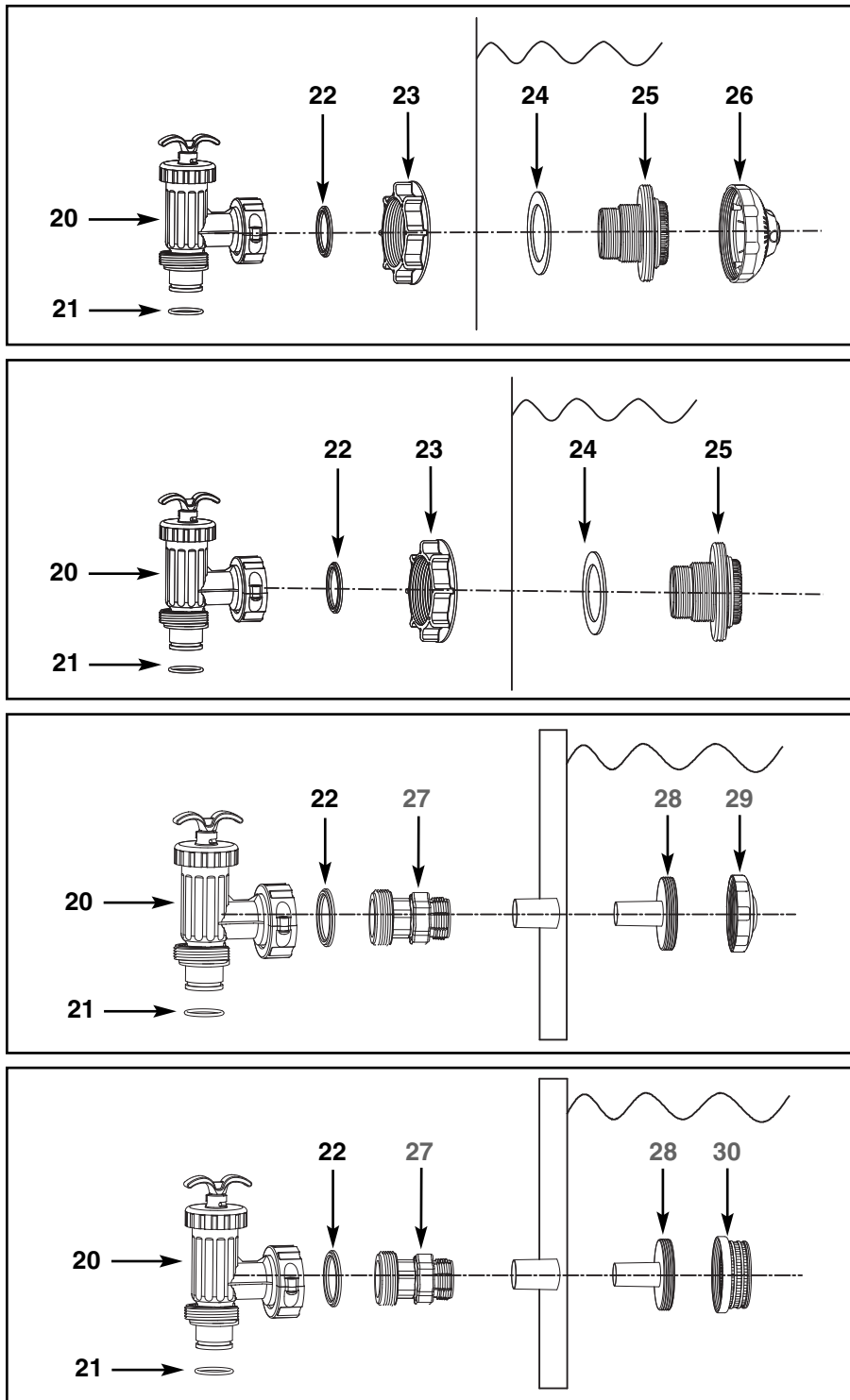
Before assembling your product, please take a few minutes to check the contents and become familiar with all the parts.



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

PARTS REFERENCE (continued)

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.

SAVE THESE INSTRUCTIONS

PARTS REFERENCE (continued)

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

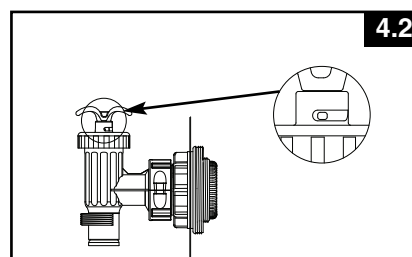
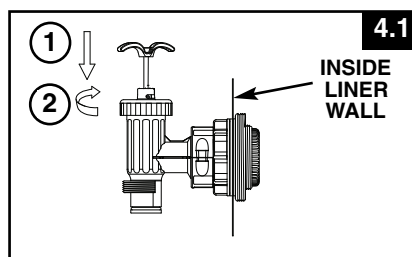
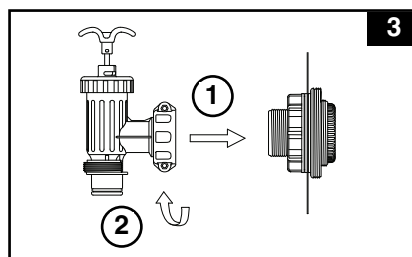
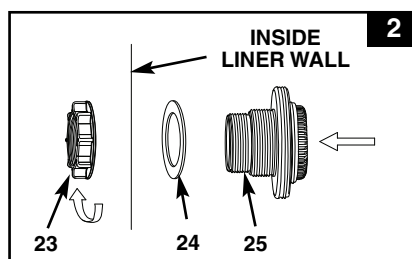
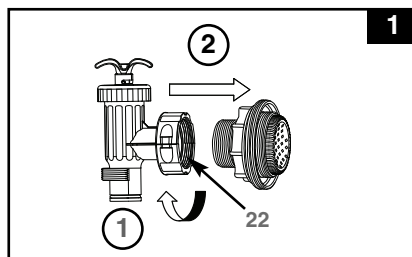
REF. NO.	DESCRIPTION	QTY.	SPARE PART NO.
1	PRESSURE GAUGE	1	11224
2	DRAIN OUTLET COVER	1	11131
3	CENTER PIPE	1	11268
4	TANK O-RING	1	11225
5	FILTER GRID	1	11269
6	DRAIN VALVE CAP	1	11226
7	DRAIN VALVE O-RING	1	11227
8	CLAMP BOLT	1	11262
9	L-SHAPE O-RING	4	11228
10	HOSE WITH NUTS	2	11010
11	SAND FILTER INTERCONNECTING HOSE	1	11229
12	WRENCH	1	11231
13	LEAF TRAP COVER	1	11259
14	LEAF TRAP O-RING	1	11232
15	BASKET	1	11260
16	FILTER HOUSING NUT	1	11261
17	O-RING A	1	10712
18	SEDIMENT RELEASE VALVE	1	10460
19	VALVE O-RING	1	10264
20	PLUNGER VALVE (HOSE O-RING & STEP WASHER INCLUDED)	2	10747
21	HOSE O-RING		10262
22	STEP WASHER		10745
23	STRAINER NUT	2	10256
24	FLAT STRAINER RUBBER WASHER	2	10255
25	THREADED STRAINER CONNECTOR	2	11235
26	ADJUSTABLE POOL INLET NOZZLE	1	11074
27	ADAPTOR B	2	10722
28	STRAINER CONNECTOR	2	11070
29	POOL INLET NOZZLE	1	11071
30	STRAINER GRID	1	11072
31	6-WAY VALVE DIVERter	1	11324
32	6-WAY VALVE SET	1	11321
33	PUMP MOTOR & CONTROL	1	11322
34	PRE-FILTER ASSEMBLY	1	11371

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

POOL OUTLET - STRAINER & PLUNGER VALVE SETUP

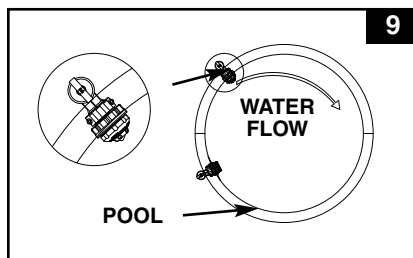
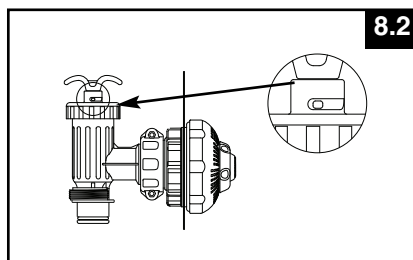
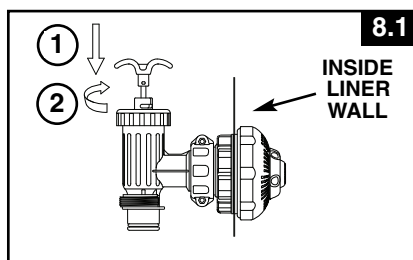
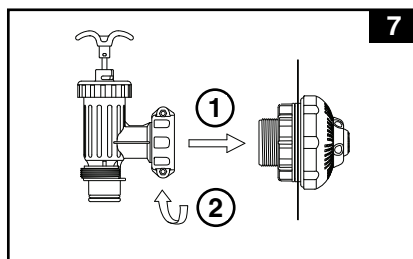
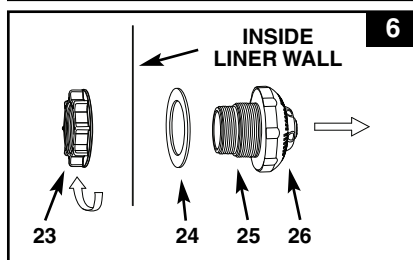
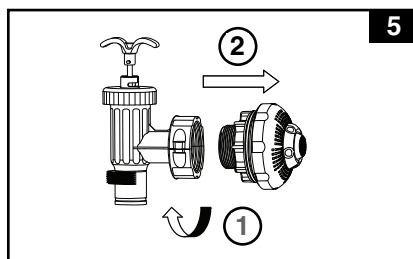
The strainer grid prevents large objects from jamming and/or damaging the filter pump. If your pool has an inflatable top ring, install the strainer, nozzle and plunger valve before inflating the pool liner top ring. The part numbers here onward refer to the parts depicted in the Parts List section of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

1. In a counter-clockwise motion unscrew plunger valve union from the threaded strainer connector (25) (see drawing 1). Be careful not to lose the step rubber washer (22). Place the plunger valve on the ground in a safe place.
2. In a counter-clockwise motion unscrew the strainer nut (23) from the threaded connector (25). Leave the flat washer (24) on the connector (25).
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 (25) 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 (23) facing the outside wall of the liner in a clockwise motion screw the strainer nut (23) back onto the threaded connector (25) (see drawing 2).
5. Finger tighten the strainer nut (23) onto the threaded connector (25).
6. Grasp the plunger valve assembly. Make sure the step washer (22) is in place.
7. In a clockwise motion screw the plunger valve union back onto the threaded connector (25) (see drawing 3).
8. Examine the plunger valve to see if the handle is pushed fully down to the "0/1" position. If not, then grasp the handle at the top and push down turning the handle in a clockwise direction until the plastic protruding notch anchors in the "0/1" position. This will prevent water from flowing out during filling (see drawings 4.1 & 4.2).



POOL INLET - NOZZLE & PLUNGER VALVE SETUP

1. In a counter-clockwise motion unscrew plunger valve union from the threaded strainer connector (25) (see drawing 5). Be careful not to lose the step rubber washer (22). Place the plunger valve on the ground in a safe place.
2. In a counter-clockwise motion unscrew the strainer nut (23) from the threaded connector (25). Leave the flat washer (24) on the connector (25).
3. Install the nozzle and plunger valve at the upper position of pool inlet. From the inside of the pool liner insert the connector (25) 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 (23) facing the outside wall of the liner in a clockwise motion screw the strainer nut (23) back onto the threaded connector (25) (see drawing 6).
5. Finger tighten the adjustable pool inlet nozzle (26) and the strainer nut (23) onto the threaded connector (25).
6. Grasp the plunger valve assembly. Make sure the step washer (22) is in place.
7. In a clockwise motion screw the plunger valve union back onto the threaded connector (25) (see drawing 7).
8. Examine the plunger valve to see if the handle is pushed fully down to the "0/1" position. If not, then grasp the handle at the top and push down turning the handle in a clockwise direction until the plastic protruding notch anchors in the "0/1" position. This will prevent water from flowing out during filling (see drawings 8.1 & 8.2).
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 and does not sanitize your pool. Pool chemistry is a specialized area and you should consult your local pool service specialist for details.

Power:	220-240 Volt AC
Wattage:	650 W
Maximum working pressure:	3.5 bar (50 psi)
Effective filtering area:	0.13 m ² (1.44 ft ²)
Maximum Flow Rate:	10030 liters/hour (2650 gallons/hour)
Recommended filtering media:	Use only No. 20 silica sand. Particle size range 0.45 to 0.85 mm (0.018 to 0.033 inches). Uniformity Coefficient less than 1.75.
Recommended filtering media quantity:	45 Kg (100 Lbs)
Limited Warranty:	2 Years (see "Limited Warranty")

SETUP INSTRUCTIONS

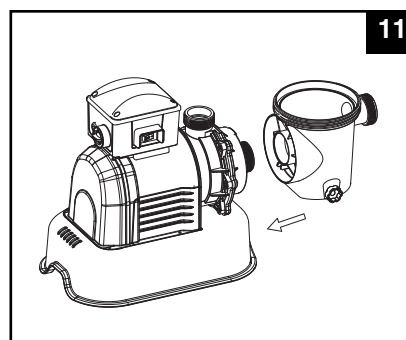
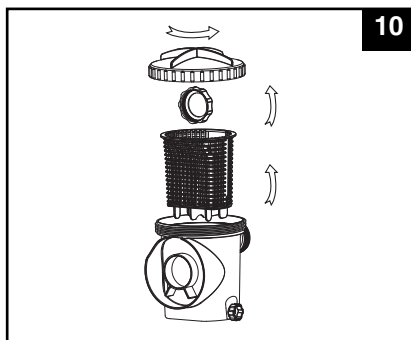
Pump location and mounting:

- 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.

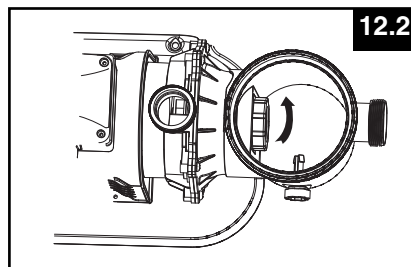
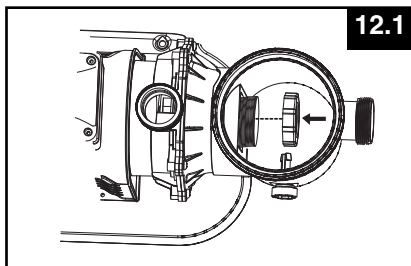
Motor pre-filtering assembly setup:

1. Remove the sand filter and its accessories from the packaging carefully and inspect for any visible damage. If parts are damaged contact your local service center listed at the back of this owner's manual.
2. In a counter-clockwise motion unscrew the leaf trap cover (13) from the pre-filter housing. Take out the basket (15) and filter housing nut (16) (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).

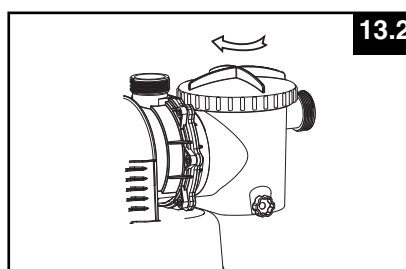
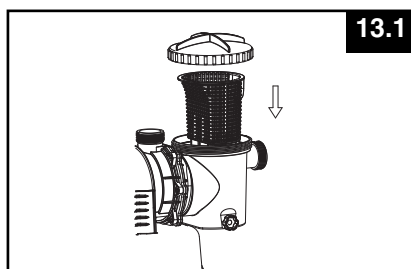


SETUP INSTRUCTIONS (continued)

4. In a clockwise motion screw filter housing nut (16) onto the motor water inlet (See drawings 12.1 & 12.2).



5. Replace the basket (15) and leaf trap cover (13) back to the pre-filter housing (See drawings 13.1 & 13.2).



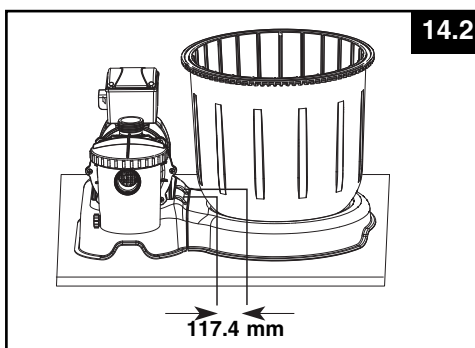
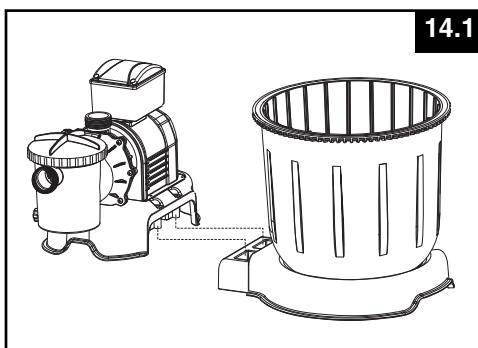
Sand tank installation:

1. Place the tank on the selected location.
2. Connect the motor pre-filtering assembly unit to the tank support base (See drawing 14.1). 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 14.2.

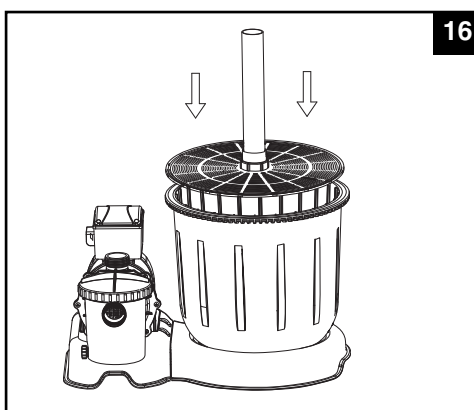
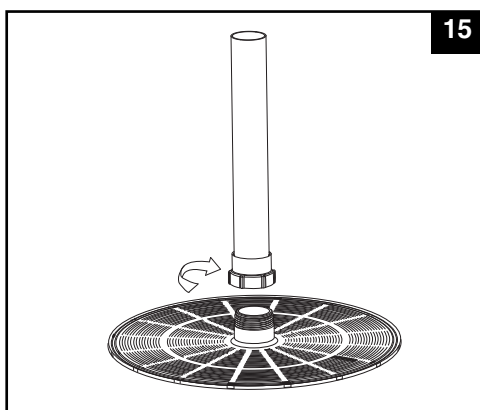
The product can be mounted on a cement base or onto a wooden platform to prevent accidental falling over.

- The mounting holes are 6.4 mm in diameter and spaced 117.4 mm apart.
- Use two bolts and lock nuts with a maximum of 6.4 mm in diameter.



SETUP INSTRUCTIONS (continued)

3. In a clockwise motion screw the center pipe (3) onto the filter grid (5) securely by hand (**see drawing 15**).
4. Vertically insert the filter grid and center pipe assembly into the tank. Ensure filter grid assembly is securely fitted to the bottom of the tank, and the center pipe is vertically centered inside the tank (**see drawing 16**).

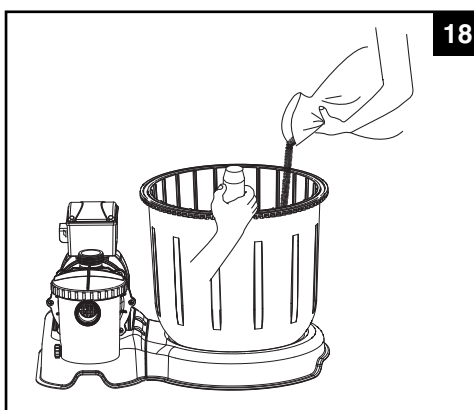
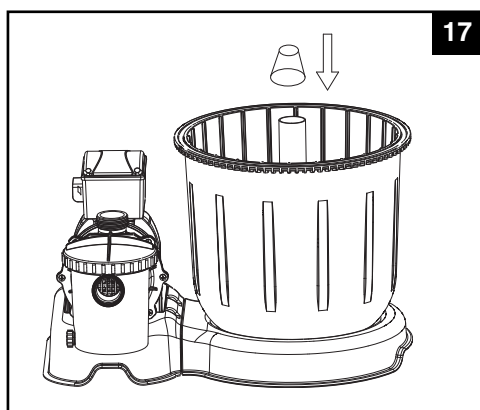


Sand loading:

IMPORTANT: Use only No. 20 silica 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.

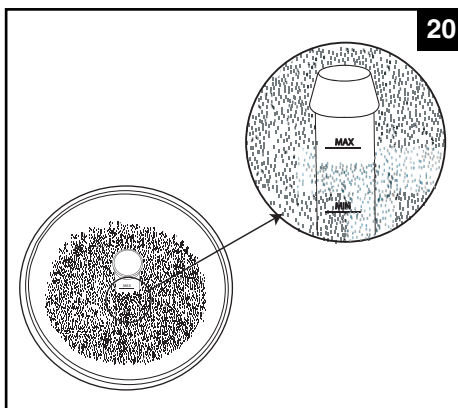
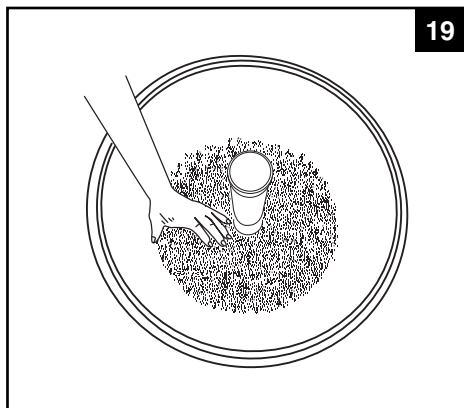
NOTE: Before loading the tank with sand, ensure the sand filter grid and center pipe assembly is securely in place on the tank bottom, and the center pipe (3) is vertically centered inside the tank.

1. To prevent sand from falling into the center pipe top opening when pouring the sand, cover the center pipe top opening with a cup or similar object (**see drawing 17**).
2. With one person holding the center pipe to keep it centered, pour the sand into the tank at a slow rate manually to prevent the filter grid assembly from shifting (**see drawing 18**).



SETUP INSTRUCTIONS (continued)

3. Fill the tank approximately half way first to 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 filter grid (5) from excessive shock (see drawing 19).
4. Sand shall be filled between the "MAX" and "MIN" marked gauge on the center pipe. Evenly spread and level out the sand by hand (see drawings 19 & 20).

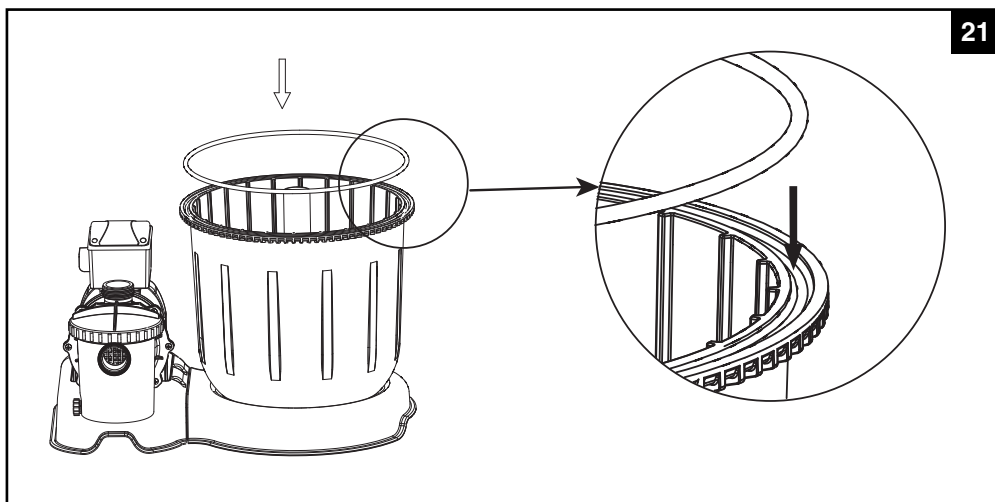


5. Remove the protective cup from the center pipe top opening.
6. Wash away all sand around the top edge of the tank.

IMPORTANT: Ensure the center pipe (3) remains centered after sand loading is completed before proceeding to the next step.

6-way valve installation:

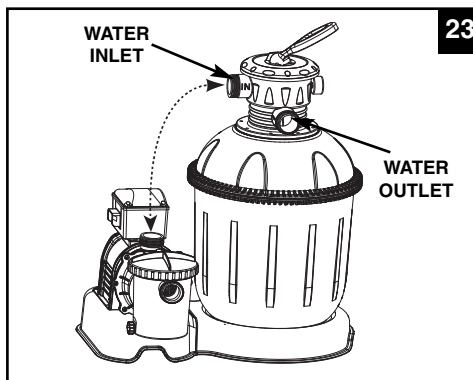
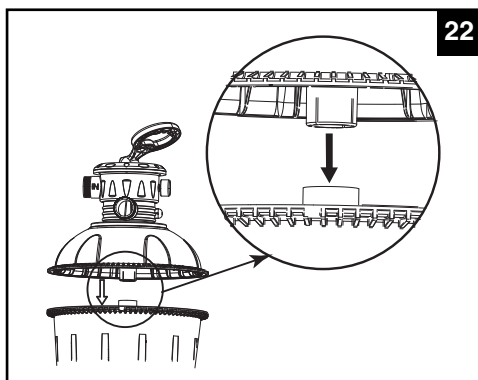
1. Place the tank o-ring (4) around the top edge of the tank groove (see drawing 21). NOTE: Ensure the tank o-ring is free of sand or debris.



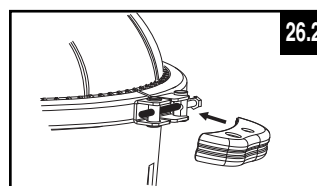
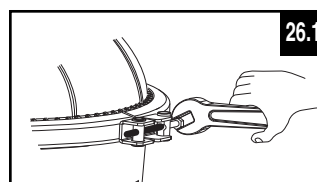
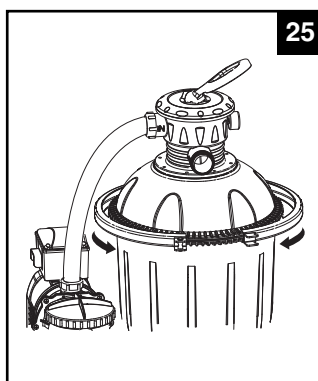
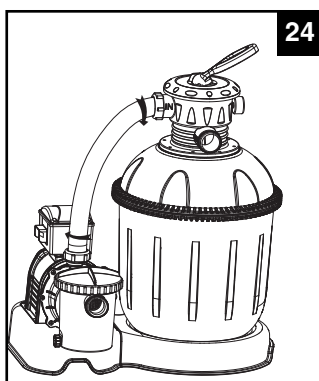
SETUP INSTRUCTIONS (continued)

2. Lower the 6-way valve cover over the tank slowly, and ensure the bypass pipe protruding underneath the 6-way valve cover fits securely into the center pipe (3) top opening (see drawing 22). Make sure the tank o-ring is securely fitted between the top edge of the tank groove and the 6-way valve cover edge.

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 23).



3. Place an L-shape o-ring (9) on the 6-way valve inlet connection and on the pump motor outlet. In a clockwise motion connect the sand filter interconnecting hose (11) between the pump motor outlet and the 6-way valve inlet connection (see drawing 24).
4. Remove the clamp bolt cover and the clamp bolt (8), and install the flange clamp around the tank and 6-way valve flanges (see drawing 25).
5. Insert the clamp bolt (8) into the pre-installed nut on the clamp, and securely tighten it with the wrench (12) supplied. Replace the clamp bolt cover back. (see drawings 26.1 & 26.2).



⚠ WARNING

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

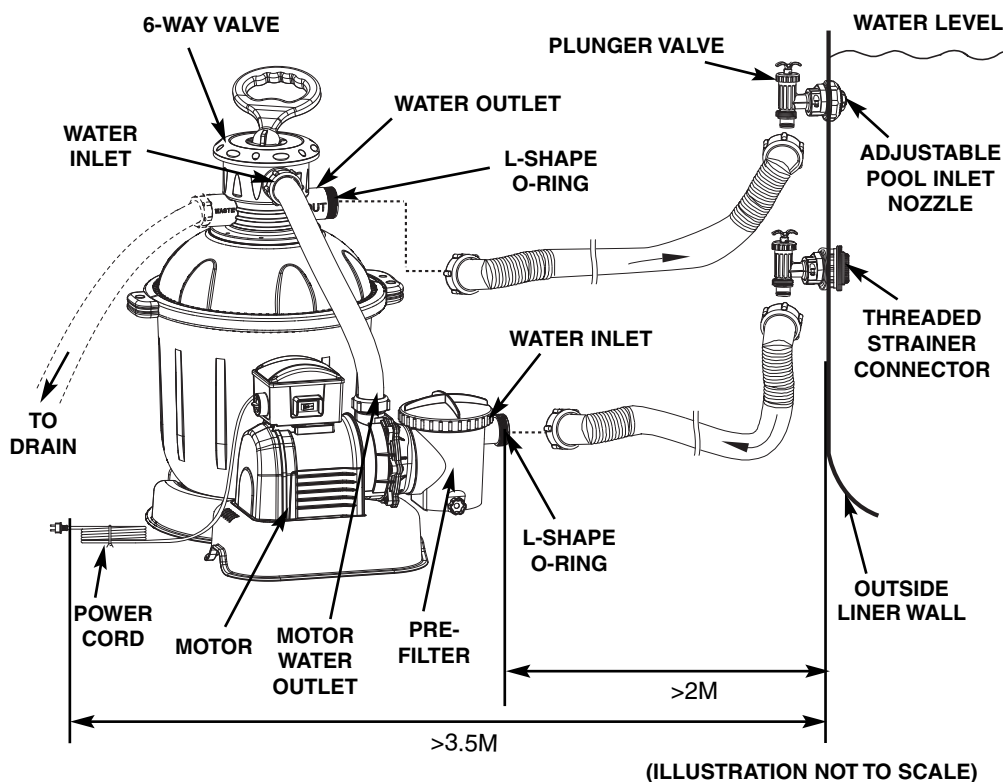
SAND FILTER PUMP HOSE CONNECTION SETUP

⚠ WARNING

- 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.

The 6-way valve has three hose connection ports.

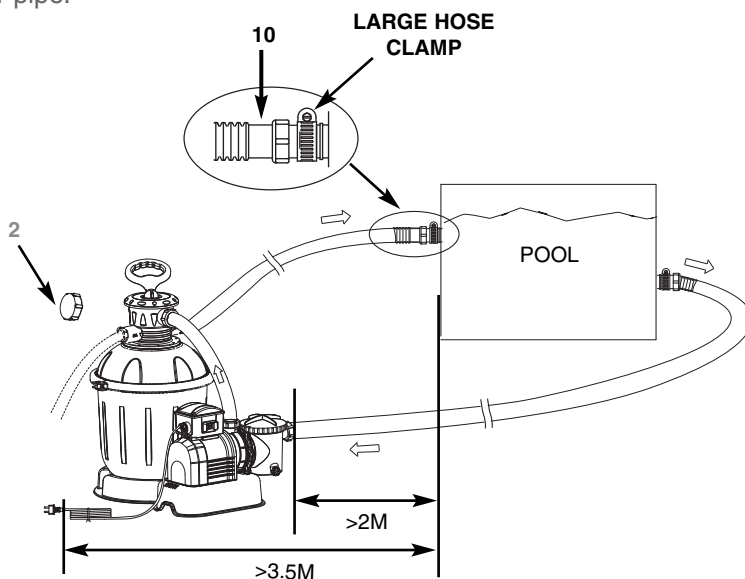
1. Connect one hose (10) end to the pre-filter inlet and the other end of the hose to the lower plunger valve with the strainer. Ensure the hose nuts are securely tighten.
2. Connect the second hose (10) between the 6-way valve water outlet and the upper plunger valve with the inlet-nozzle. Ensure the hose nuts are securely tighten.
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.



SAND FILTER PUMP HOSE CONNECTION SETUP (continued)

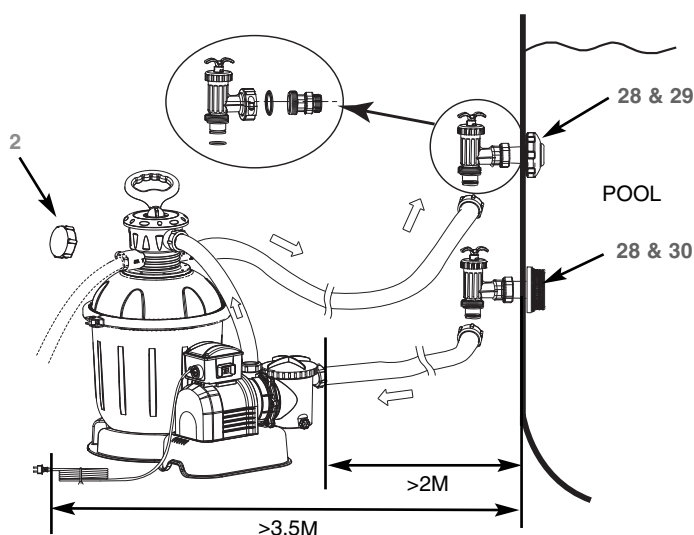
For NON-INTEX pool:

Connect the hose (10) to the pool inlet/outlet connection with a large hose clamp. Tighten securely. Remove the drain cap (2) before attaching the drain/waste hose or pipe.



For INTEX pool size 16' and below:

1. In a counter-clockwise motion unscrew plunger valve union from the threaded strainer connector (25). Be careful not to lose the step rubber washer (22).
2. Grasp the plunger valve assembly. Make sure the step washer (22) is in place. Connect adaptor B (27) to plunger valve union.
3. Remove wall plug and then insert the strainer (28 & 30) into the lower position of protruding hose connection, and the nozzle (28 & 29) into the upper position of protruding hose connection. Adaptor B (27) fits over the strainer connection (28) inserted into the connection. Tighten securely.
4. Remove the drain cap (2) before attaching the drain/waste hose or pipe.



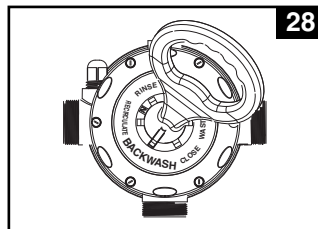
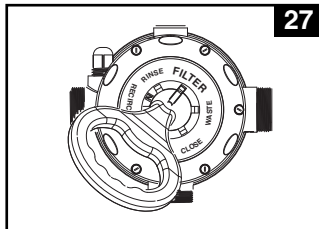
OPERATING INSTRUCTIONS

⚠ WARNING

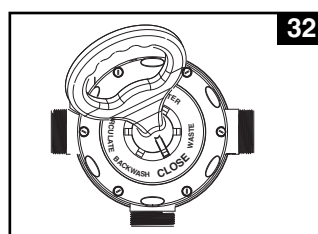
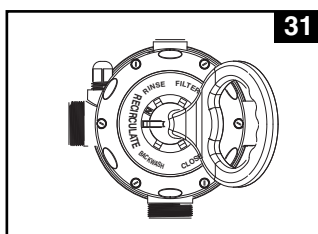
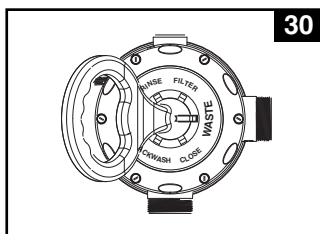
- Risk of electric shock. Connect this product only to a grounding type receptacle protected by a ground-fault circuit interrupter (GFCI) or residual current device (RCD). Contact a qualified electrician if you cannot verify that the receptacle is protected by a GFCI/RCD. Use a qualified electrician to install the GFCI/RCD, which has a maximum rate of 30mA. Do not use a portable residual current device (PRCD).
- 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.
- Never operate this product above the maximum working pressure stated on the filter tank.
- Always switch off pump before changing the 6-way valve position.
- Operating this product without water flowing through the system can cause a build up of hazardous pressure which can result in an explosive situation, serious injury, property damage or death.
- Never test this pump with compressed air. Never operate the system with water temperature above 35° C (95° F).

6-way valve positions and function:

Valve Position	Function	Water Flow Direction
FILTER (see drawing 27)	Normal filtration and regular vacuuming of pool	From pump through filter media to pool
BACKWASH (see drawing 28)	Reverses water flow to clean filter media	From pump through filter media to valve waste/drain outlet
RINSE (see drawing 29)	For initial startup cleaning of the sand, and leveling the sand bed after backwashing	From pump through filter media to valve waste/drain outlet
WASTE (see drawing 30)	For vacuuming directly to waste, lowering pool level or to drain the pool	From pump to valve waste/drain outlet bypassing the filter media
RECIRCULATE (see drawing 31)	For circulating water back to pool without going through the filter media	From pump through valve to pool bypassing the filter media
CLOSED (see drawing 32)	Shuts off all flow to filter and pool "Do not use this setting with pump running"	



OPERATING INSTRUCTIONS (continued)



Initial startup and operation:

Before operating, be sure that:

- All the hoses have been connected and tightened securely, and correct amount of filter sand have been loaded.
- The entire system is connected to a grounding type receptacle protected by a ground-fault circuit interrupter (GFCI) or residual current device (RCD).

⚠ CAUTION

The filter control valve has a closed position. The pump should never be on when the valve is in the closed position. If the pump is operated with the valve closed, and explosive situation could exist.

1. Grasp a plunger valve handle. Turn the handle counter-clockwise, pull up until it stops, and then turn it clockwise until the metal protruding notch anchor is in the "0/1" position. Repeat for the second plunger valve. This opens the valves to allow water to flow into the sand filter pump.

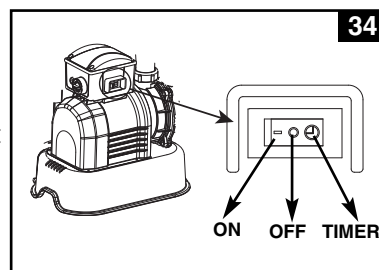
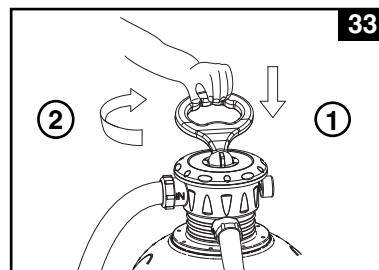
2. Ensure the drain/waste outlet on the 6-way valve is not covered and directed to a proper draining receptacle.

3. Ensure the pump is off, depress the 6-way valve and turn it to the "BACKWASH" position (see drawings 28 & 33).

IMPORTANT: To prevent damage to the 6-way valve, always depress the valve handle before turning. Always switch off pump before changing the 6-way valve position.

4. Switch on the pump (see drawing 34). Water is circulating backward through the sand media and to waste/drain outlet. Backwash until a clear flow of water is observed in the waste/drain outlet or through the drain sediment window.

NOTE: The initial backwash of the filter is recommended to remove any impurities or fine sand particles in the sand media.



OPERATING INSTRUCTIONS (continued)

5. Switch off the pump, change the 6-way valve to "RINSE" position (**see drawing 29**).
6. Switch on the pump and run the pump for about one minute to level out the sand bed after backwashing the sand media.
7. Switch off the pump, change the 6-way valve to "FILTER" position (**see drawing 27**).
8. Switch on the pump. The system is now operating in the normal filtering mode. Run the pump until the desired pool water clearance is obtained and no more than 12 hours per day.
9. Record the initial pressure gauge reading when the filter media is clean.
NOTE: During initial setup of the system, it may be necessary to backwash frequently due to unusual heavy dirt present in the water and sand. After that, as the filter removes dirt and impurities from the pool water, the accumulated dirt in the sand media will cause the pressure to rise and the flow to diminish. If there is no vacuuming device attached to the system and the pressure gauge reading is in the yellow zone it is time to backwash the sand media, see "BACKWASH" under "initial startup and operation" section.
 Vacuuming device (i.e. Intex auto pool cleaner) attached to the system may also cause the flow to diminish and the pressure to rise. Remove any vacuuming device from the system and check if the pressure gauge reading has dropped from the yellow zone to the green zone.

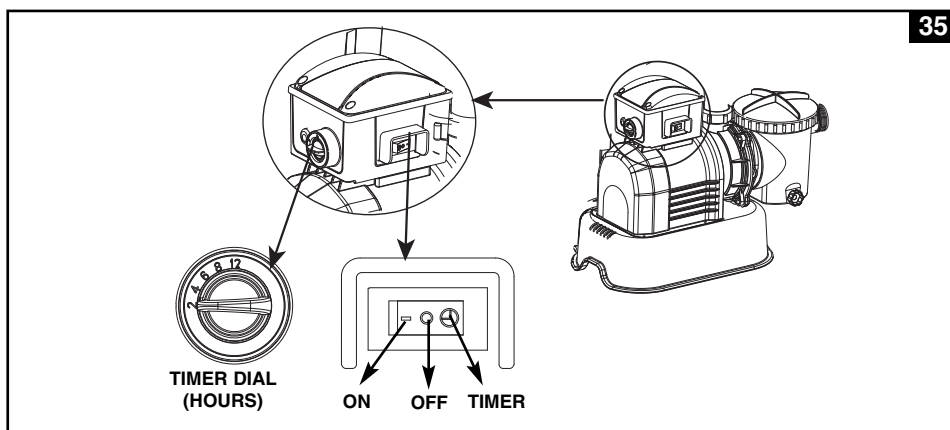
Operating the system under "TIMER" mode or manually:

To operate the sand filter pump in "FILTER" mode under "TIMER" control:

- A. Set the timer dial to the desired operating hours. See operation time table (**see drawing 35**).
- B. Turn on the pump by pressing the switch to "⌚" position, the sand filter pump is now filtering the water and will stop after the operating hours are completed. The built-in timer will now operate for the number of hours selected at the same time each day.
- C. Operating hours can be re-adjusted if necessary. Follow step A – B.

To operate the sand filter pump manually (without the "TIMER" mode):

- A. Turn on the pump by pressing the switch to "I" position, the sand filter pump is now filtering the water.
- B. To turn off the pump, press the switch to "O" position.



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INTEX POOLS OPERATING TIME TABLE (WITHOUT INTEX SALTWATER SYSTEM)

This table shows the required operating time for average use of the sand filter pump with above ground pools.

Pool Size		Water Capacity (Calculated at 90% for Frame Pool and 80% for Easy Set & Oval Pool)		Sand filter pump operating time (For one cycle)
		(Gals)	(Liters)	(Hours)
INTEX ABOVE GROUND POOLS (AGP's)				
EASY SET® POOL	18' x 42" (549cm x 107cm)	4786	18115	2
	18' x 48" (549cm x 122cm)	5455	20647	2
	18' x 52" (549cm x 132cm)	5894	22309	4
ROUND METAL FRAME POOL	18' x 48" (549cm x 122cm)	6423	24311	4
	18' x 52" (549cm x 132cm)	6981	26423	4
	24' x 48" (732cm x 122cm)	11483	43462	6
	24' x 52" (732cm x 132cm)	12481	47421	6
ULTRA FRAME POOL	16' x 48" (488cm x 122cm)	5061	19156	2
	18' x 52" (549cm x 132cm)	6981	26423	4
SEQUOIA SPIRIT® POOL SET	16'8" x 49" (508cm x 124cm)	5061	19156	2
	18'8" x 53" (569cm x 135cm)	6981	26423	4
OVAL FRAME POOL	20' x 12' x 48" (610cm x 366cm x 122cm)	4393	16628	2
	24' x 12' x 48" (732cm x 366cm x 122cm)	5407	20465	2
	28' x 12' x 48" (853cm x 366cm x 122cm)	6420	24300	4
RECT. ULTRA FRAME POOL	18' x 9' x 52" (549cm x 274cm x 132cm)	4545	17203	2
	24' x 12' x 48" (732cm x 366cm x 122cm)	7757	29359	4
	24' x 12' x 52" (732cm x 366cm x 132cm)	8403	31805	4
	32' x 16' x 52" (975cm x 488cm x 132cm)	14364	54368	8

INTEX POOLS OPERATING TIME TABLE (WITH INTEX SALTWATER SYSTEM)

If the system is attached to an "Intex Saltwater System" unit, the filter pump running time should be longer than the required operating time of the Intex Saltwater System unit.

Pool Size		Water Capacity (Calculated at 90% for Frame Pool and 80% for Easy Set & Oval Pool)		Saltwater System operating Time (with cyanuric acid 30-50ppm) (hours)			Sand Filter Pump Operating Time (hours)
		(Gals)	(Liters)	10 - 19°C (50 - 66°F)	20 - 28°C (68 - 82°F)	29 - 36°C (84 - 97°F)	
INTEX ABOVE GROUND POOLS (AGP's)							
EASY SET® POOL	15' x 33" (457cm x 84cm)	2587	9792	1	1	1	2
	15' x 36" (457cm x 91cm)	2822	10681	1	1	1	2
	15' x 42" (457cm x 107cm)	3284	12430	1	1	2	4
	15' x 48" (457cm x 122cm)	3736	14141	1	2	2	4
	16' x 42" (488cm x 107cm)	3754	14209	1	2	2	4
	16' x 48" (488cm x 122cm)	4273	16173	2	2	2	4
	18' x 42" (549cm x 107cm)	4786	18115	2	2	2	4
	18' x 48" (549cm x 122cm)	5455	20647	2	2	3	4
	18' x 52" (549cm x 132cm)	5894	22309	2	2	3	4
CIRCULAR METAL FRAME POOL	15' x 36" (457cm x 91cm)	3282	12422	1	1	2	4
	15' x 42" (457cm x 107cm)	3861	14614	1	2	2	4
	15' x 48" (457cm x 122cm)	4440	16805	2	2	2	4
	16' x 48" (488cm x 122cm)	5061	19156	2	2	2	4
	18' x 48" (549cm x 122cm)	6423	24311	2	2	3	4
	18' x 52" (549cm x 132cm)	6981	26423	2	2	3	4
	20' x 52" (610cm x 132cm)	8638	32695	3	3	4	6
	24' x 48" (732cm x 122cm)	11483	43462	4	4	5	6
	24' x 52" (732cm x 132cm)	12481	47241	5	5	6	8
ULTRA FRAME POOL	16' x 48" (488cm x 122cm)	5061	19156	2	2	2	4
	18' x 52" (549cm x 132cm)	6981	26423	2	2	3	4
SEQUOIA SPIRIT® POOL SET	16'8" x 49" (508cm x 124cm)	5061	19156	2	2	2	4
	18'8" x 53" (569cm x 135cm)	6981	26423	2	2	3	4
OVAL FRAME POOL	18' x 10' x 42" (549cm x 305cm x 107cm)	2885	10920	1	1	1	2
	20' x 12' x 48" (610cm x 366cm x 122cm)	4393	16628	2	2	2	4
	24' x 12' x 48" (732cm x 366cm x 122cm)	5407	20465	2	2	3	4
	28' x 12' x 48" (853cm x 366cm x 122cm)	6420	24300	2	2	3	4
RECT. ULTRA FRAME POOL	18' x 9' x 52" (549cm x 274cm x 132cm)	4545	17203	2	2	2	4
	24' x 12' x 52" (732cm x 366cm x 132cm)	8403	31805	3	3	4	6
	32' x 16' x 52" (975cm x 488cm x 132cm)	14364	54368	6	6	7	8

NOTE: The "12" hours timer setting position has an additional 20 minutes over the actual setting.

NON-INTEX POOLS OPERATING TIME TABLE

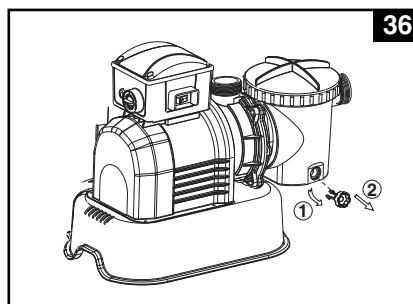
This table shows the required operating time for average use of the sand filter pump with above ground pools.

Water Capacity		Sand filter pump operating time (For one cycle)
(Gals)	(Liters)	(Hours)
4000	15140	2
5000	18925	2
6000	22710	4
7000	26495	4
8000	30280	4
9000	34065	4
10000	37850	6
11000	41635	6
12000	45420	6
13000	49205	6
14000	52990	6
15000	56775	8
16000	60560	8
17000	64345	8
18000	68130	8
19000	71915	12
20000	75700	12
21000	79485	12
22000	83270	12
23000	87055	12
24000	90840	12
25000	94625	12
26000	98410	12

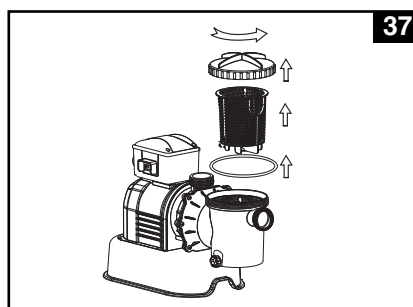
MOTOR PRE-FILTER CLEANING AND MAINTENANCE

1. Make sure the filter pump is switched off, then disconnect the power cord from the electrical outlet.
2. Grasp a plunger valve handle. Turn the handle counter-clockwise, push down until it stops and then turn it clockwise until the plastic protruding notch anchors in the "0/1" position. Repeat for the second plunger valve. This prevents the water from flowing out of the pool.

3. Release the pressure first by opening the sediment release valve **(18)** located on the lower side of the pre-filter housing (see drawing 36).



4. In a counter-clockwise motion unscrew the leaf trap cover **(13)**, then remove the basket **(15)** and leaf trap o-ring **(14)** from the pre-filter housing (see drawing 37).



5. Empty and flush the basket using a garden hose, may use a plastic brush to remove deposits from the basket. Do not use metal brush.
6. Clean and rinse the inside of the pre-filter housing and the leaf trap O-ring with a garden hose.
7. Reinstall the leaf trap O-ring, basket and leaf trap cover to the pre-filter housing.
8. Close the sediment release valve **(18)** back.

POOL CARE & CHEMICALS

- All pools require care to keep the water clear and hygienically clean. With proper chemical control, your filter will help attain this objective. Consult your pool supply dealer for instructions regarding the proper use of chlorine, algaecide and other chemical agents required for sparkling clear water.
- Keep pool chemicals away from children.
- Do not replenish chemicals in pool while pool is occupied. Skin or eye irritations could occur.
- Daily pH checking and chemical treatment of the water is very important and cannot be overemphasized. Chlorine, algaecide and maintenance of proper pH levels are required when filling the pool as well as during the season. Consult your local swimming pool supply store for instructions.
- The season's first filling of the pool may have brackish water requiring extra water additives and extra filtering time. Do not allow swimming in pool until the pH level is balanced. Consult your local swimming pool supply store for instructions.
- Chlorinated water may damage lawns, gardens or shrubbery as children play in the pool and splash water outside the pool. Lawn areas underneath the pool liner will be destroyed. Note that some types of grass may grow through the liner.
- Filter run time depends on pool size, weather and usage level. Experiment with various run times so as to produce clean clear water.

CAUTION

Concentrated chlorine solutions may damage the pool liner. Always follow the chemical manufacturer's directions, and the health and hazard warnings.

LONG TERM STORAGE & WINTERIZATION

CAUTION

Allowing the water to freeze will damage the sand filter and void the warranty. If anti-freeze solution is needed, use only propylene glycol. Propylene glycol is non-toxic and will not damage plastic system components; other anti-freezes are highly toxic and may damage plastic components in the system.

1. Before emptying your pool for long term storage, or relocation, be sure the water is directed towards an acceptable drain water receptacle away from the house. Check local regulations for specific directions regarding disposal of swimming pool water.
2. Switch off the unit, and disconnect power cord from electrical outlet.
3. When the pool is empty, disconnect all hoses from pump and plunger valves and remove the strainers/plunger valves from the pool wall.
4. In a counter clockwise motion unscrew the drain valve cap (6) from the drain valve to thoroughly drain the tank. The drain valve is located at the bottom of the filter tank.
5. Disassemble the pump motor from the tank base.
6. Leave sand filter pump pieces and hoses outside to thoroughly air dry.
7. Coat the following o-rings and washers with petroleum jelly for long term storage:
 - L-shape o-ring (9).
 - o-ring A (17).
 - Pump hose O-rings (21).
 - Strainer valve assembly step washers (22).
 - Flat strainer rubber washers (24).
8. Depress the 6-way valve handle and rotate so as to set the pointer on the valve top "N" position. This allows the water to drain from the valve. Leave the 6-way valve in this inactive position.
9. It is best to place all dry pieces and pump motor in the original packaging for storage. To avoid condensation or corrosion problem, do not cover or wrap pump motor with plastic bags.
10. Store the pump motor and accessories in a dry place. The storage's temperature should be controlled, between 0 degrees Celsius (32 degrees Fahrenheit) and 40 degrees Celsius (104 degrees Fahrenheit).

TROUBLESHOOTING GUIDE

TROUBLE	CAUSE	SOLUTION
FILTER MOTOR FAILS TO START	- The motor is not plugged in. - The fuse box needs checking. - The GFCI/RCD circuit breaker is tripped. - Motor too hot and overload protection is shut off.	- Line cord must be plugged into a 3 wire outlet that is protected by a Class A Ground Fault Circuit Interrupter, or RCD. - Reset circuit breaker. If circuit breaker trips repeatedly, your electrical system may have a defect. Turn off circuit breaker and call an electrician to correct the problem. - Let the motor cool down and restart again.
FILTER DOESN'T CLEAN POOL	- Improper chlorine or pH levels. - No filtering media in tank. - Wrong 6-way valve setting position. - Excessively dirty pool. - The strainer screen is restricting the water flow.	- Adjust the chlorine and pH level. Consult your local swimming pool supply stores. - Load with filter sand, see "sand loading instructions". - Set valve to "FILTER" position. - Operate the filter for longer periods. - Clean the strainer screen at the inlet.
FILTER DOESN'T PUMP WATER OR FLOW IS VERY SLOW	- Clogged inlet or discharge. - An air leak on the intake line. - Excessively dirty pool. - Sand media clogged with dirt. - Nozzle and strainer connections are reversed. - Crusting or caking on the filtering sand surface. - Pool vacuuming device attached to the system.	- Clear any obstructions in the intake hose by discharging it inside pool wall. - Tighten hose nuts, check hoses for damage, check pool water level. - Clean the pre-filtering basket more often. - Backwash filter. - Install the nozzle at the upper position of the pool inlet, and the strainer at the lower position of the pool outlet. - Remove about 1" of sand if necessary. - Remove any pool vacuuming device attached to the system line.
PUMP DOESN'T WORK	- Low water level. - Strainer screen clogged up. - An air leak on the intake hose. - Faulty motor or the impeller is jammed.	- Fill pool to correct water level. - Clean strainer screens at pool inlet. - Tighten hose nuts, check hose for damage. - Contact Intex service center.
6-WAY VALVE/COVER LEAKING	- Sand tank o-ring missing. - Sand tank o-ring dirty. - Flange clamp not tight. 6-way valve damage.	- Remove 6-way valve cover and ensure the o-ring is in place. - Clean sand tank o-ring with garden hose water. - Tighten the clamp with wrench supplied. - Contact Intex service center.
HOSE LEAKING	- Hose nut not securely tight. - Hose connection fitting o-ring/L-shape o-ring missing.	- Tighten/reinstall hose nut. - Ensure o-ring/L-shape o-ring is in place and not damaged.
TIMER IS INACCURATE OR TIMER CAN'T BE SET	Possible inner timer defective.	- Turn off the pump and restart 5 minutes later. - Re-set the timer. - Contact Intex service center.
PRESSURE GAUGE DOESN'T WORK	- Clogged inlet of the pressure gauge. - Pressure gauge damage.	- Clear any obstructions in the intake by unscrewing it from the 6-way valve. - Contact Intex service center.
SAND IS FLOWING BACK INTO THE POOL	- Sand is too small. - Sand bed is calcified.	- Use only No. 20 silica 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. - Change sand.

COMMON POOL PROBLEMS

PROBLEM	DESCRIPTION	CAUSE	SOLUTION
ALGAE	- Greenish water. - Green or black spots on pool liner. - Pool liner is slippery and/or has a bad odor.	Chlorine and pH levels need adjustment.	- Super chlorinate with shock treatment. Correct pH to your pool store's recommended level. - Vacuum pool bottom. - Maintain proper chlorine level.
COLORED WATER	Water turns blue, brown, or black when first treated with chlorine.	Copper, iron or maganese in water being oxidized by the added chlorine. This is Common.	- Adjust pH level to the recommended level. - Run filter until water is clear.
FLOATING MATTER IN WATER	Water is cloudy or milky.	"Hard water" caused by a too high pH level. - Chlorine content is low. - Foreign matter in water.	- Correct the pH level. Check with your pool dealer for advice. - Adjust the chlorine level.
CHRONIC LOW WATER LEVEL	Level is lower than on previous day.	- Rip or hole in pool liner or hoses. - The drain valves are loose.	- Repair with a patch kit. - Finger tighten all caps.
SEDIMENT ON POOL BOTTOM	Dirt or sand on pool floor.	Heavy use, getting in and out of pool.	Use Intex pool vacuum to clean bottom of pool.
SURFACE DEBRIS	Leaves, insects etc.	Pool too close to trees.	Use Intex pool skimmer.

IMPORTANT

If you continue to experience difficulty, please contact our Consumer Service Department for assistance. See back cover for contact information.

COMMON PROBLEMS

GENERAL AQUATIC SAFETY

Water recreation is both fun and therapeutic. However, it involves inherent risks of injury and death. To reduce your risk of injury, read and follow all product, package and package insert warnings and instructions. Remember, however, that product warnings, instructions and safety guidelines cover some common risks of water recreation, but do not cover all risks and or dangers.

For additional safeguards, also familiarize yourself with the following general guidelines as well as guidelines provided by nationally recognized Safety Organizations:

- Demand constant supervision. A competent adult should be appointed as a "lifeguard" or water watcher, especially when children are in and around the pool.
- Learn to swim.
- Take the time to learn CPR and first aid.
- Instruct anyone who is supervising pool users about potential pool hazards and about the use of protective devices such as locked doors, barriers, etc.
- Instruct all pool users, including children what to do in case of an emergency.
- Always use common sense and good judgement when enjoying any water activity.
- Supervise, supervise, supervise.

LIMITED WARRANTY

Your Sand Filter Pump 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 Sand Filter Pump.

The following provision is only valid within the European member states countries: The legal regulation of Directive 1999/44/EC will not be effected by this Intex warranty.

The provisions of this Limited Warranty apply only to the original purchaser and is not transferable. This Limited Warranty is valid for a period of two (2) years from the date of the initial retail purchase. Keep your original sales receipt with this manual, as proof of purchase will be required and must accompany warranty claims or the Limited Warranty is invalid.

If a manufacturing defect is found within this two (2) years period, please contact the appropriate Intex Service Center listed in this manual. The Service Center will determine the validity of the claim.

IMPLIED WARRANTIES ARE LIMITED TO THE TERMS OF THIS WARRANTY AND IN NO EVENT SHALL INTEX, THEIR AUTHORIZED AGENTS OR EMPLOYEES BE LIABLE TO THE BUYER OR ANY OTHER PARTY FOR DIRECT OR CONSEQUENTIAL DAMAGES OR LIABILITIES. Some countries, or jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This Limited Warranty does not apply if the Sand Filter Pump is subject to negligence, abnormal use or operation, accident, improper operation, improper voltage or current contrary to operating instructions, or to damage by circumstances beyond Intex's control, including but not limited to, ordinary wear and tear and damage caused by exposure to fire, flood, freezing, rain, or other external environmental forces. This Limited Warranty applies only to those parts and components sold by Intex. The Limited Warranty does not cover unauthorized alterations, repairs or disassembly by anyone other than Intex Service Center personnel.

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

For service questions or to order replacement parts, please contact the appropriate office listed below or visit www.intexdevelopment.com for answers to most frequently asked questions.

AREAS	LOCATION	AREAS	LOCATION
• ASIA	INTEX DEVELOPMENT CO. LTD. 9TH FLOOR, DAH SING FINANCIAL CENTRE, 108 GLOUCESTER ROAD, WANCHAI, HONG KONG TEL: 852-28270000 FAX: 852-23118200 E-mail: xmservicesupport@intexcorp.com.cn Website: www.intexdevelopment.com	• ARGENTINA	JARSE INDUSTRIAL Y COMERCIAL S.A. MANUEL GARCIA N°124, PARQUE PATRICO, BUENOS AIRES, ARGENTINA TEL: 4942-2238 (interno 106); TEL: 4942-2238 (interno 145) E-mail: Martin Cosoleto: mcosoleto@jarse.com.ar E-mail: Daniel Centurion: dcenturion@jarse.com.ar Website: www.jarse.com.ar
• EUROPE	INTEX TRADING B.V. POSTBUS 1075, 4700 BB ROSENDAAL, THE NETHERLANDS TEL: 31-(0)165-593939 FAX: 31-(0)165-593969 E-mail: service@intexcorp.nl Website: www.intexcorp.nl	• PERU	COMEXA S.A. AVENIDA COMANDANTE ESPINAR 142, MIRAFLORES, LIMA, PERÚ TEL: 446-9014
• FRANCE	UNITEK / INTEX SERVICE FRANCE S.A.S 52, ROUTE NATIONALE, 39190 BEAUFORT, FRANCE TEL: 08 90 71 20 39 (0,15€/min) FAX: 03 84 25 18 09 Website: www.intex.fr	• SAUDI ARABIA	SAUDI ARABIAN MARKETING & AGENCIES CO. LTD. PRINCE AMIR MAJED STREET, AL-SABA DISTRICT, JEDDAH, KINGDOM OF SAUDI ARABIA TEL: 966-2-693 8496 FAX: 966-2-271 4084 E-mail: toy@samaco.com.sa Website: www.samaco.com.sa
• GERMANY	STEINBACH VERTRIEBSGMBH C/O WEBOPAC LOGISTICS GMBH INTER-LOGISTIK-PARK 1-3 87600 KAUFBEUREN TEL: 0180 5 405 100 200 (0,14€/min aus dem Festnetz, Mobilfunk max. 0,42€/min) FAX: + 43 (7262) 61439 E-mail: service@intexcorp.de Website: www.intexcorp.de	• AUSTRIA	STEINBACH VERTRIEBSGMBH AISTINGERSTRASSE 2 4311 SCHWERTBERG TEL: 0820 - 200 100 200 (0,14€/min aus allen Netzen) FAX: + 43 (7262) 61439 E-mail: service@intexcorp.at Website: www.intexcorp.at
• ITALY	VIA RAFFAELLO SANZIO 20058 VILLASANTA (MI) TEL: 199 12 19 78 FAX: +39 039 2058204 E-mail: info@intexitalia.com Website: www.intexitalia.com	• CZECH REPUBLIC / EASTERN EUROPE	INTEX TRADING S.R.O. BENESOVSKA 23, 101 00 PRAHA 10, CZECH REPUBLIC TEL: +420-267 313 188 FAX: +420-267 312 552 E-mail: info@intexcorp.cz
• UK	TOY BROKERS LTD MARKETING HOUSE, BLACKSTONE ROAD, HUNTINGDON, CAMBS. PE29 6EF, UK TEL: 0844 561 7129 FAX: 01480 414761 E-mail: sales@toybrokers.com Website: www.intexspares.com	• BELGIUM	N.V. SIMBA-DICKIE BELGIUM S.A. MOESKROENSENTEENWEG 383C, 8511 AALBEKE, BELGIUM TEL: 0800 92088 FAX: 32-56.26.05.38 E-mail: intex@nicotoy.be E-mail: intexsupport@nicotoy.be Website: www.nicotoy.be/downloads.htm
• SWITZERLAND	GWM AGENCY GARTEN-Ü. WOHNMOBEL, RAFFELSTRASSE 25, POSTFACH, CH-8045 ZÜRICH/SWITZERLAND TEL: 0900 455456 or +41 44 455 50 60 FAX: +41 44 455 50 65 E-mail: gwm@gwm.ch Website: www.gwm.ch	• DENMARK	K.E. MATHIASSEN A/S SINTRUPVEJ 12, DK-8220 BRABRAND, DENMARK TEL: +45 89 44 22 00 FAX: +45 86 24 02 39 E-mail: intex@keleg.dk Website: www.intexnordic.com
• SPAIN / PORTUGAL	Nostrum Iberian Market S.A. Av. de la Albufera, 321 28031 Madrid, Spain TEL: +34 902101339 FAX for Spain: +34 9 029 089 76 Email for Spain: sat@intexiberian.com FAX for Portugal: +351 707 506 090 Email for Portugal: spv-pt@intexiberian.com Website: www.intexiberian.com	• SWEDEN	LEKSAM AB BRANDSVIGSGATAN 6, S-262 73 ÄNGELHOLM, SWEDEN TEL: +46 431 44 41 00 FAX: +46 431 190 35 E-mail: intex@leksam.se Website: www.intexnordic.com
• AUSTRALIA	HUNTER PRODUCTS PTY LTD LEVEL 1, 225 BAY STREET, BRIGHTON, VICTORIA, AUSTRALIA TEL: 61-3-9596-2144 or 1800-224-094 FAX: 61-3-9596-2188 E-mail: enquiries@hunteroverseas.com.au Website: www.hunterproducts.com.au	• NORWAY	NORSTAR AS PINDSLEVEIEN 1, N-3221 SANDEFJORD, NORWAY TEL: +47 33 48 74 10 FAX: +47 33 48 74 11 E-mail: intex@norstar.no Website: www.intexnordic.com
• NEW ZEALAND	HAKA NEW ZEALAND LIMITED UNIT 4, 11 ORBIT DIVE, ALBANY, AUCKLAND 0757, NEW ZEALAND TEL: 649-4159213 / 0800 634434 FAX: 649-4159212 E-mail: geoff@hakanz.co.nz Website: www.hakanz.co.nz	• FINLAND	NORSTAR OY SUOMALAISTENTIE 7, FIN-02270 ESPOO, FINLAND TEL: +358 9 8190 530 FAX: +358 9 8190 5335 E-mail: info@norstar.fi Website: www.intexnordic.com
• MIDDLE EAST REGION	FIRST GROUP INTERNATIONAL AL MOOSA GROUP BUILDING, 1ST FLOOR, OFFICE 102 & 103, UMM HURAIR ROAD, KARAMA, DUBAI, UAE TEL: 00971-4-800INTEX(46839) / +971-4-3373322 FAX: 00971-4-3375115 E-mail: intex@firstgroupinternational.com Website: www.firstgroupinternational.com	• RUSSIA	LLC BAUER KIEVSKAYA STR., 20, 121165 MOSCOW, RUSSIA TEL: 099-249-9400/8626/9802 FAX: 095-742-8192 E-mail: intex.russia@gmail.com Website: www.intex.ru
• SOUTH AFRICA	WOOD & HYDE 15-17 PACKER AVENUE, INDUSTRIA 2, CAPE TOWN, SOUTH AFRICA 7460 TEL: 27-21-0800-204-692 FAX: 27-21-505-5600 E-mail: ygoldman@melbro.co.za COMEXA S.A. EL JUNCAL 100, PARQUE INDUSTRIAL PORTEZUELO, QUILICURA, SANTIAGO, CHILE. TEL: 600-822-0700 E-mail: serviciotecnico@silfa.cl	• POLAND	KATHAY HASTER UL. LUTYCKA 3, 60-415 POZNAN TEL: +48 61 8498 334 FAX: +48 61 8474 487 E-mail: inx@kathay.com.pl Website: www.intexpoland.pl
• CHILE / URUGUAY		• HUNGARY	RECONTRA LTD./RICKI LTD. H-1113 BUDAPEST, DARÓCZI ÚT 1-3, HUNGARY TEL: +361 372 5200/113 FAX: +361 209 2634 E-mail: service@recontra.hu
		• BRASIL	KONESUL MARKETING & SALES LTDA RUA ANTONIO DAS CHAGAS, 1.528 - CEP. 04714-002, CHACARA SANTO ANTONIO - SÃO PAULO - SP - BRASIL TEL: 55 (11) 5181 4646 FAX: 55 (11) 5181 4646 E-mail: sacintexbrasil@uol.com.br
		• ISRAEL	AL FIT TOYS LTD MOSHAY NEHALIM, MESHEK 32, 49950, ISRAEL TEL: +972-3-9076666 FAX: +972-3-9076660 E-mail: michald@chagim.co.il