

INTEX SF40220 Krystal Clear Sand Filter Owner's Manual

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INTEX SF40220 Krystal Clear Sand Filter



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
- Children must stay away from this product and electrical cord(s).
- Children shall not play with the 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
- · Assembly and disassembly by adults
- 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
- The plug must be accessible after product is
- Do not bury the electrical cord. Locate the cord where it will not be damaged by lawn mowers, hedge trimmers and other
- 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
- 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

- Do not attempt to plug in or unplug this product while standing in water or when your hands are
- · Keep this product more than 2m away from the
- Keep this product more than 5m away from the pool (for France only).
- Keep the plug of this product more than 5m away from the pool.
- Position this product away from the pool, so as to prevent children from climbing on it and accessing the
- Do not operate this product when pool is
- 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
- 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
- Never play or swim near suction 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
- Never operate this product above the maximum working pressure stated on the filter
- Hazardous Pressure. Improper tank valve cover assembly could cause the valve cover to blow off and cause serious injury, property damage or
- This product is intended to be used only for the purposes described in the manual!

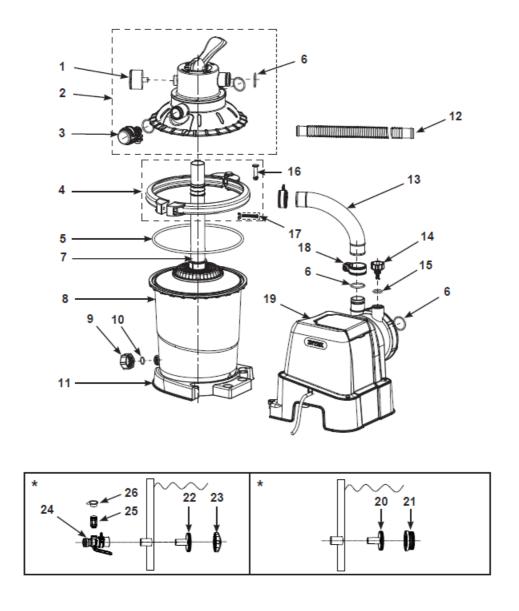
FAILURE TO FOLLOW THESE WARNINGS MAY RESULT IN PROPERTY DAMAGE, ELECTRIC SHOCK, ENTANGLEMENT OR OTHER SERIOUS INJURY OR DEATH.

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.

- 1. Dual color temperature feature with steeples adjustment, color range 3200K~5600K, with 1216 lamp bead, helping to restore and enrich the color of the object, and providing you with natural and vivid shooting effect.
- 2. APP intelligent control system, which can be controlled by your smart mobile device.
- 3. With LCD screen display and stable system, supporting 360 ° rotation, it can effectively control the light. It is also equipped with the standard cover, which can avoid redundant light and make the light more concentrated. Custom control fill light, allowing you to easily shoot the desired results.



" * ": 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.

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

REF. NO.	DESCRIPTION		SPARE PART NO.
1	PRESSURE GAUGE		13078
2	TANK COVER & 4-WAY VALVE SET	1	13079
3	DRAIN OUTLET COVER	1	13080
4	CLAMP ASSEMBLY	1	13081
5	TANK O-RING	1	13083
6	HOSE O-RING	5	12947
7	CENTER PIPE WITH FILTER GRID	1	13084
8	SAND FILTER PUMP TANK	1	13082
9	DRAIN VALVE CAP	1	11456
10	DRAIN VALVE O-RING	1	11385
11	SAND FILTER PUMP TANK BASE	1	13085
12	HOSE	2	10399
13	SAND FILTER INTERCONNECETING HOSE	1	13086
14	AIR RELEASE VALVE	1	10725
15	AIR RELEASE VALVE O-RING	1	10264
16	CLAMP PIN	1	11726
17	CLAMP SCREW	1	11727
18	HOSE CLAMP	6	11489
19	PUMP MOTOR	1	13090
20*	STRAINER CONNECTOR	1	11070
21*	STRAINER GRID	1	12197
22*	INLET STRAINER CONNECTOR	1	12365
23*	POOL INLET JET NOZZLE	1	12364
24*	POOL INLET AIR ADAPTOR	1	12368
25*	AIR JET VALVE	1	12363
26*	AIR JET VALVE CAP	1	12373

[&]quot; * ": 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.

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.

Power: 220-240 Volt AC

· Wattage: 90 W

Maximum working pressure: 1.0 bar (15 psi)

• Effective filtering area: 0.03 m2 (0.35 ft2)

Pump flow rate (at pump outlet): 3.5 m3/h (925 GPH)

• Recommended filtering media: No. 20 silica sand or glass sand. Particle size

• (Not included) range 0.45 to 0.85 mm (0.018 to 0.033 inches). Uniformity Coefficient less than 1.75.

• Recommended filtering media quantity: No. 20 silica sand 6.5 Kg (14.5 Lbs) or glass sand 5.0 Kg (11 Lbs).

· Limited Warranty: see "Limited Warranty"

SETUP INSTRUCTIONS

TOOLS REQUIRED: One (1) Phillips screwdriver Pump location and mounting:

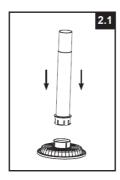
- The system must be installed on a solid level and vibration-free base.
- Provide a location protected from the weather, moisture, flooding and freezing temperature.
- Provide adequate access, space and lighting for routine maintenance.
- Pump motor requires free circulation of air for cooling. Do not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

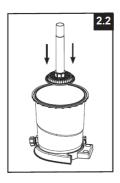
A team of 2 or more people is recommended for setting up this product. The appliance is intended only for household use.

Sand tank installation:

- 1. Place the tank support base at the selected location.
- 2. Place the tank on the tank support base (see drawing 1).
- 3. Vertically insert the center pipe into the filter grid (see drawing 2.1).
- 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 2.2).







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.

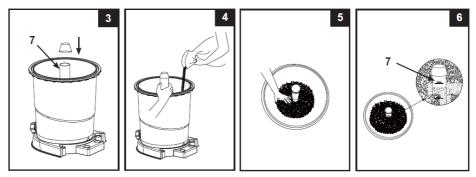
Only use the filter media specified by the manufacturer.

NOTE: Before loading the tank with sand, ensure the sand filter grid and center pipe assembly is securely in place on the tank bottom, and the center pipe (7) 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 3).

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



- 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 from excessive shock (see drawing 5).
- 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 5 & 6).
- 5. Remove the protective cup from the center pipe top opening.
- 6. Wash away all sand around the top edge of the tank.

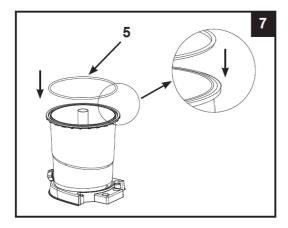
IMPORTANT: Ensure the center pipe (7) remains centered after sand loading is completed before proceeding to the next step.

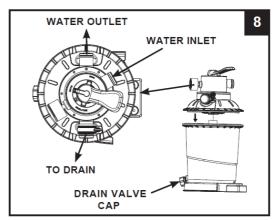
WARNING

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

way valve installation:

- 1. Make sure the tank o- ring (5) is in place (see drawing 7). NOTE: Ensure the tank o- ring is free of sand or debris.
- 2. Lower the 4-way valve cover over the tank slowly, and ensure the bypass pipe protruding underneath the 4-way valve cover fits securely into the center pipe (7) top opening (see drawing 8). Make sure the tank o- ring is securely fitted between the top edge of the tank groove and the 4-way valve cover edge. IMPORTANT: Ensure the 4-way valve cover ridge is aligned with the groove on the tank rim

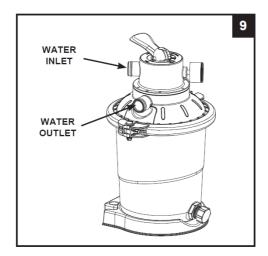


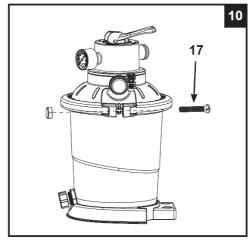


IMPORTANT: There are three hose connection ports on the 4-way valve, ensure the outlet connection (from

filter to the pool) on the valve is facing towards the pool (see drawing 9).

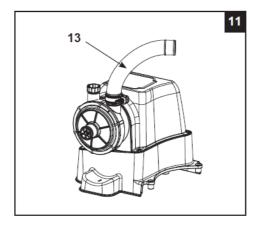
3. Remove the screw, and install the clamp around the tank and 4-way valve flanges, then replace the screw and use a Philips screwdriver (not included) to tighten it (see drawings 9 & 10).

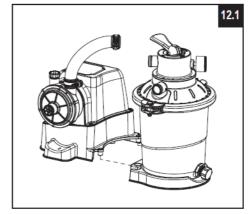


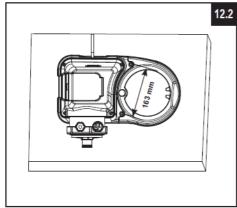


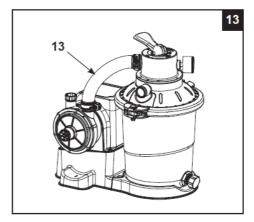
Motor installation:

- Make sure a hose o- ring (6) is on the pump motor outlet. Connect the sand filter interconnecting hose (13) to the pump motor outlet with a hose clamp (see drawing 11).
- Connect the pump motor unit to the tank support base (see drawing 12.1).
 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 12.2. 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 163 mm apart.
 - Use two bolts and lock nuts with a maximum of 6.4 mm in diameter.
- Make sure a hose o- ring (6) is on the 4-way valve inlet connection. Connect the sand filter interconnecting
 hose (13) to the 4-way valve inlet connection with a hose clamp (see drawing 13).







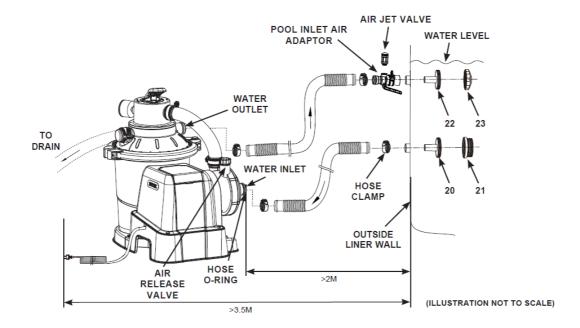


WARNING

- Keep this product more than 2 m away from the pool.
- Keep this product more than 3.5 m away from the pool (for France only).
- Keep the plug of this product more than 3.5 m 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 4-way valve has three hose connection ports.

- 1. Connect one hose (12) end to the pump motor inlet and the other end of the hose to the lower connector with the strainer. Ensure the hoses are securely tightened.
- 2. Connect the second hose (12) between the 4-way valve water outlet and the upper connector with the inletnozzle. Ensure the hoses are securely tighten.
- 3. The third hose connection port (drain/waste outlet) on the 4-way valve shall be directed to a proper draining receptacle using a hose or pipe (not provided). Make sure the drain outlet cover is removed before attaching the drain/waste hose or pipe.
- 4. The sand filter pump is now ready to filter the pool.



According to the International Standard, IEC 60364-7-702, on electrical installation of swimming pools and other basins equipment, the following installation distances must be respected:

- The filter pump must be positioned more than 2 m away from the pool walls.
- The power cord plug to the 220-240 volt electrical power source of the filter pump must be positioned more than 3.5 m away from the pool walls.

Check your local authorities to determine the appropriate standard and requirements for "electrical installation of swimming pools and basins equipment". The following table is for reference only:

Country/Region	Standard Number
International	IEC 60364-7-702
France	NF C 15-100-7-702
Germany	DIN VDE 0100-702
The Netherlands	NEN 1010-702

OPERATING INSTRUCTIONS

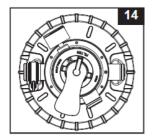
WARNING

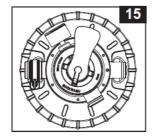
- Risk of electric shock. Connect this product only to a grounding type receptacle protected by a ground-fault
 circuit interrupter (GFCI) or residual current device (RCD). Contact a qualified electrician if you cannot verify
 that the receptacle is protected by a GFCI/RCD. Use a qualified electrician 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 4-way valve position.

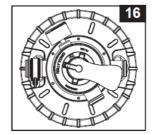
- Operating this product without water flowing through the system can cause a build up of hazardous pressure which can result in an explosive situation, serious injury, property damage or death.
- Never test this pump with compressed air. Never operate the system with water temperature above 35°C (95°F).

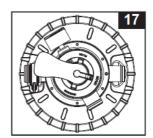
4-way valve positions and function:

Valve Position	Function	Water Flow Direction
FILTER (see drawing 14)	Normal filtration and regular vacuuming of po ol	From pump through filter media to pool
BACKWASH (see drawing 15) Reverses water flow to clean filter media		Fr om pump through filter media to valve wast e/drain outlet
RECIRCULATE (see drawing 16) For circulating water back to pool without going through the filter media		From pump through valve to pool bypassing the filter media
DRAIN (see drawing 17)	For vacuuming directly to waste, lowering po ol level or to drain the pool	From pump to valve waste/drain outlet byp assing the filter media









Control panel description:

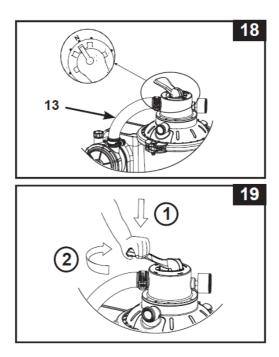
ON / OFF button	LOCK / UNLOCK button	TIMER button
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LED Reading	Definition	
00	Stand-by mode (start-up / operating cycle finished)	
01	Minimum operating hour (1 hour remaining)	
02-11	Operating hours (2 – 11 hours remaining)	
12	Maximum operating hours (12 hours remaining)	
FP	Timer OFF (pump operating continuously)	
•	Power saving mode	

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).



- 1. Release air from the system Ensure the drain/waste outlet on the 4-way valve is not covered and directed to a proper draining receptacle, and the pump is off. Turn the 4-way valve to the "N" position and unscrew the air release valve (14) from the motor housing (see drawing 18). When water starts flowing out of the air release valve hole, close the air release valve back.
- 2. **BACKWASH** Ensure the pump is off, depress the 4-way valve and turn it to the "BACKWASH" position (see drawings 15 & 19).

IMPORTANT: To prevent damage to the 4-way valve, always depress the valve handle before turning. Always switch off 1 pump before changing the 4-way valve position.

3. Press to switch on the system, and then press to set 2 the operating TIMER hours (see "Operating the system under TIMER mode or manually" section for details). 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.

NOTE: If the LED display flashes "00", the device is in stand-by mode and the pump will not operate. The initial backwash of the filter is recommended to remove any impurities or fine sand particles in the sand media.

- 4. Switch off the pump, change the 4-way valve to "FILTER" position (see drawing 14).
- 5. 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. For the initial startup, it is recommended setting the system to a longer TIMER operating hours or "FP" for the pump to operate continuously without the TIMER.
- 6. 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. Intext 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.

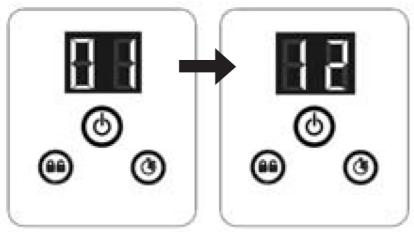
7. Monitor the pressure gauge reading, and check that the inlet and outlet openings are not obstructed on a weekly basis. If the pressure gauge indicates yellow it is time to backwash the filter media.

Operating the system under "TIMER" mode or manually: To operate the sand filter pump in "FILTER" mode under "TIMER" control:

1. Activate the unit: Press button. Flashing code "00" appears on the LED display, indicating that the unit is ready to be programmed.



2. Set operating hours: With code "00" flashing, press button to set the desired operating hours. See the "Operating Time Table" for the required operating hours related to each pool size. Pressing will increase the time from 01 to 12 hours maximum. If you have selected too many hours keep pressing to repeat the cycle. The built-in timer will now activate the Sand filter pump, at the same time each day, for the number of hours you have set.



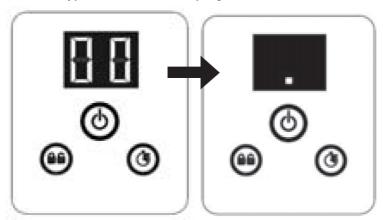
(1 to 12 hours max per cycle)

3. Lock keypad controls: With the desired hour value showing, press button until you hear a "beep". Locking the control buttons into this setting prevents unauthorized changing of the operating cycle.

NOTE: If you forget to lock the keypad controls, the system will automatically lock it and start working 10 seconds later.

The sand filter pump is now filtering the water and will stop after the operating hours are completed.

4. Readjust operating time if necessary: The operating hours can be re-adjusted if necessary. Press button until you hear a "beep" to unlock the keypad and the current programmed time will flash. Repeat steps 2 to 3.



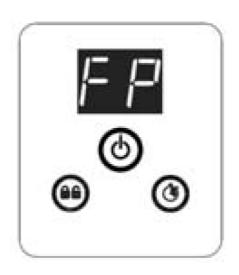
- 5. Stand-by/power saving mode:
 - When the cycle ends, the LED display shows "00". The system is now in Stand-By mode. After 5 minutes the system goes into Power Saving mode and the LED display shows ".". The system will automatically turn itself back on in 24 hours.
 - While the system is in Power Saving mode, press any button and the system will briefly display the programmed time and then "00".

To view the TIMER preset hours:

While the pump is operating, press "" button, the display will briefly flash the preset hours for 10 seconds and then display back the remaining operating hours.

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

- 1. To run the pump alone without the "Timer", press button to turn on the pump, then press button until the LED displays "FP", this indicates that the TIMER is off and the pump is now operating continuously.
- 2. To stop the pump, press button again.



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. 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)		Sand filter pump operating time (
		(Gals)	(Liters)	(Hours)
INTEX ABOVE GI	ROUND POOLS (AGP's)	-		
	183cm x 51cm (6' x 20")	232	880	1
	244cm x 61cm (8' x 24")	513	1942	1
	244cm x 76cm (8' x 30")	639	2419	2
	305cm x 61cm (10' x 24")	813	3077	2
EASY SET® PO	305cm x 76cm (10' x 30")	1018	3853	2
OL	366cm x 76cm (12' x 30")	1485	5621	3
	396cm x 84cm (13' x 33")	1926	7290	4
	457cm x 84cm (15' x 33")	2587	9792	5
	457cm x 107cm (15' x 42")	3284	12430	6
	457cm x 122cm (15' x 48")	3736	14141	7
	244cm x 51cm (8' x 20")	483	1828	1
ROUND METAL FRAME POOL	305cm x 76cm (10' x 30")	1185	4485	3
	366cm x 76cm (12' x 30")	1718	6503	4
	457cm x 122cm (15' x 48")	4440	16805	8

	305cm x 76cm (10' x 30")	1185	4485	3
	366cm x 76cm (12' x 30")	1718	6503	4
ULTRA FRAME	366cm x 99cm (12' x 39")	2270	8592	5
POOL	427cm x 107cm (14' x 42")	3357	12706	7
	457cm x 107cm (15' x 42")	3861	14614	7
	457cm x 122cm (15' x 48")	4440	16805	8
	300cm x 175cm x 80cm (9'10" x 5'9" x 31½")	935	3539	2
PRISM FRAMET	400cm x 200cm x 100cm (13'1½" x 6' 6¾" x 39½")	1806	6836	4
M RECT. POOL	400cm x 200cm x 122cm (13'1½" x 6' 6¾" x 48")	2224	8418	4
	488cm x 244cm x 107cm (16' x 8' x 42")	2873	10874	6
	220cm x 150cm x 60cm (7'25%" x 4'11 " x 235%")	439	1662	1
SMALL RECT. F RAME POOL	260cm x 160cm x 65cm (8'6½" x 5'3" x 25%")	603	2282	2
	300cm x 200cm x 75cm (9'10" x 6'6¾ " x 29½")	1013	3834	2
	450cm x 220cm x 84cm (14'91/4" x 7'2 %" x 33")	1883	7127	4

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 (Fo r one cycle)
(Gals)	(Liters)	(Hours)
1000	3785	2
1500	5678	3
2000	7570	4
2500	9463	5
3000	11355	6
3500	13248	7
4000	15140	8
4500	17033	8

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.
- European standard EN16713-3 lists some additional pool water quality and water treatment information that can be found at www.intexcorp.com/support.

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.

- 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 remove the strainers from the pool wall.
- 4. In a counter clockwise motion unscrew the drain valve cap (9) 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 with petroleum jelly for long term storage:
 - Hose o- rings (6).
 - Air release valve o- ring (15).
- 8. Depress the 4-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 4-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).
- 11. Cover the tank with a tarpaulin or plastic sheet to protect it from the weather.

TROUBLESHOOTING GUIDE **TROUBLE CAUSE SOLUTION** •Line cord must be plugged into a 3 wire outlet that is protected by a Class A Ground Fault Cir •The motor is not plugged in. cuit Interrupter, or RCD. The GFCI/RCD circuit breaker is tri •Reset circuit breaker. If circuit breaker trips re FILTER MOTOR FAILS pped. peatedly, your electrical system may have a def TO START •Motor too hot and overload protecti ect. Turn off circuit breaker and call an electrici on is shut off. an to correct the problem. •Let the motor cool down and restart again.

FILTER DOESN'T CLE AN POOL	 Improper chlorine or pH levels. No filtering media in tank. Wrong 4-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 PUM P WATER OR FLOW I S VERY SLOW	 Trapped air in the system. Clogged inlet or discharge. An air leak on the intake line. Excessively dirty pool. Sand media clogged with dirt. Nozzle and strainer connections ar e reversed. Crusting or caking on the filtering s and surface. Pool vacuuming device attached to the system. Inlet threaded air connector connected to the wrong hole on the liner. 	 Release the air, see operating instructions section. Clear any obstructions in the intake hose by discharging it inside pool wall. Tighten hose clamps, check hoses for damage, check pool water level. 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. Make sure the inlet threaded air connector is connected to the pool inlet upper hole.
PUMP DOESN'T WOR K	 Low water level. Strainer screen clogged up. An air leak on the intake hose. Faulty motor or the impeller is jam med. 	 Fill pool to correct water level. Clean strainer screens at pool inlet. Tighten hose clamps, check hose for damage. Contact Intex service center.
4-WAY VALVE/ COVER LEAKING	 Sand tank o- ring missing. Sand tank o- ring dirty. Flange clamp not tight. 4-way valve damage. 	 Remove 4-way valve cover and ensure the oring is in place. Clean sand tank o- ring with garden hose wat er. Tighten securely. Contact Intex service center.
HOSE LEAKING	 Hose clamps are not well-fitted. Hose o- ring dislodged when conne cting the hose. Hose broken. 	•Tighten or reinstall hose clamps. •Put the o- ring back into the groove. •Replace a new hose.

TIMER IS INACCURAT E OR TIMER CAN'T B E SET	Possible inner timer defective.	Turn off the pump and restart 5 minutes later. Re-set the timer Contact Intex service center.
PRESSURE GAUGE D OESN'T WORK	•Clogged inlet of the pressure gaug e. •Pressure gauge damage.	Clear any obstructions in the intake by unscrewing it from the 4-way valve. Contact Intex service center.
SAND IS FLOWING B ACK INTO THE POOL	Sand is too small.Sand bed is calcified.	•Use only No. 20 silica sand with particle size r ange 0.45 to 0.85 mm (0.018 to 0.033 inches) and a Uniformity Coefficient less than 1.75. •Change sand.
AIR JET VALVE LEAKI NG	 Air jet valve is not tight and facing up. Air jet valve internal seal blocked Air jet valve internal seal dirty. Air jet valve broken. 	 Tighten air jet valve and make sure it's facing up. Turn pump ON and run for few seconds, then turn OFF, repeat 3 times. Remove air jet valve, flush dirt out with water a nd replace valve back. Replace a new air jet valve.
SMALL LEAK FROM A IR JET VALVE WHEN PUMP IS ON	Accessories attached to the water circulation line.	•Remove all the accessories (such as solar mat , auto pool cleaner, LED light) from the water ci rculation line and place the air jet valve cap (26) over the air jet valve (25). Do not cover the air jet valve (25) with the valve cap (26) under nor mal situation or when the pump is operating.

	COMMON POOL PROBLEMS				
PROBLEM DESCRIPTION CAUSE SOLUTION					

GENERAL AQUATIC SAFETY				
SURFACE D EBRIS	• Leaves, insec ts etc.	Pool too close to trees.	Use Intex pool skim mer.	
SEDIMENT ON POOL B OTTOM	Dirt or sand o n pool floor.	Heavy use, gett ing in and out of p ool.	Use Intex pool vacu um to clean of pool.	
CHRONIC L OW WATER LEVEL	• Level is lower than on previous day.	 Rip or hole in po ol liner or hoses. The drain valves are loose. 	Repair with a patch kitFinger tighten all caps	
FLOATING MATTER IN WATER	• Water is clou dy or milky.	 "Hard water" ca used by a too high pH level. Chlorine content is low. Foreign matter i n water. 	 Correct the pH level. C heck with your pool de aler for advice. Adjust the chlorine level. 	
COLORED WATER	 Water turns b lue, brown, or b lack when first treated with ch lorine. 	• Copper, iron or manganese in water being oxidiz ed by the added c hlorine.	 Adjust pH level to the recommended level. Run filter until water is clear. 	
ALGAE	 Greenish wat er. Green or blac k 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. Corre ct pH to your pool store 's recommended level. Vacuum pool bottom. Maintain proper chlori ne level. 	

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 pr oduct, package and package insert warnings and instructions. Remember, however, that product warnings, instructions and safety guidelines cover so me common risks of water recreation, but do not cover all risks and or dang ers.

For additional safeguards, also familiarize yourself with the following gener al 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 aroun d the pool.
- Learn to swim.
- Take the time to learn CPR and first aid.
- Instruct anyone who is supervising pool users about potential pool hazard s and about the use of protective devices such as locked doors, barriers, e tc.
- Instruct all pool users, including children what to do in case of an emerge ncy.
- Always use common sense and good judgement when enjoying any wate r 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 and accessories listed below. This limited warranty is in addition to, and not a substitute for, your legal rights and remedies. To the extent that this warranty is inconsistent with any of your legal rights, they take priority. For example, consumer laws across the European Union provide statutory warranty rights in addition to the coverage you receive from this limited warranty: for information on EU-wide consumer laws, please visit the European Consumer Center website at

http://ec.europa.eu/consumers/ecc/contact_en/htm. The provisions of this limited warranty apply only to the original purchaser and are not transferable. This limited warranty is valid for the period noted below from the date of the initial retail purchase. Keep your original sales receipt with this document, as proof of purchase will be required and must accompany warranty claims or the limited warranty will be invalid.

- Sand Filter Pump Warranty 2 Years
- Hoses & Fittings Warranty 180 days

If you find a manufacturing defect in the Sand Filter Pump during the warranty periods noted above, please contact the appropriate Intex Service Center listed in the separate "Authorized Service Centers" sheet. If the item is returned as directed by the Intex Service Center, the Service Center will inspect the item and determine the validity of the claim. If the item is covered by the provisions of the warranty, the item will be repaired or replaced, with the same or comparable item (at Intex's choice) at no charge to you. Other than this warranty, and other legal rights in your country, no further warranties are implied. To the extent possibly in your country, in no event shall Intex be liable to you or any third party for direct or consequential damages arising out of the use of your Sand Filter Pump, or Intex or its agents' and employees' actions (including the manufacture of the product). If your country does not allow the exclusion or limitation of incidental or consequential damages, this limitation or exclusion does not apply to you.

You should note that this limited warranty does not apply in the following circumstances:

- If the Sand Filter Pump is subject to negligence, abnormal use or application, accident, improper operation, improper voltage or current contrary to operating instructions, improper maintenance or storage;
- If the Sand Filter Pump is subject to damage by circumstances beyond Intex's control, including but not limited to, ordinary wear and tear and damage caused by exposure to fire, flood, freezing, rain, or other external environmental forces:
- To parts and components not sold by Intex; and/or
- To unauthorized alterations, repairs or disassembly to the Sand Filter Pump 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.

Read the owner's manual carefully and follow all instructions regarding proper operation and maintenance of your Sand Filter Pump. Always inspect your product prior to use. This limited warranty will be void if use instructions are not followed.

Documents / Resources



INTEX SF40220 Krystal Clear Sand Filter [pdf] Owner's Manual SF40220, Krystal Clear Sand Filter, SF40220 Krystal Clear Sand Filter, Filter

References

- II INTEX: The leader in Above Ground Swimming Pools, Air Mattresses and Inflatable Spas
- Intex Support

Manuals+.