



3/4HP 3100GPH POOL SAND FILTER 16" W/ PUMP

ITEM: 75131



OWNER'S MANUAL AND SAFETY INSTRUCTIONS

SAVE THIS MANUAL: KEEP THIS MANUAL FOR SAFETY WARNINGS, PRECAUTIONS, ASSEMBLY, OPERATING, INSPECTION, MAINTENANCE AND CLEANING PROCEDURES. WRITE THE PRODUCT'S SERIAL NUMBER ON THE BACK OF THE MANUAL NEAR THE ASSEMBLY DIAGRAM (OR MONTH AND YEAR OF PURCHASE IF PRODUCT HAS NO NUMBER).

FOR QUESTIONS PLEASE CALL OUR CUSTOMER SUPPORT: (909) 628 0880 MON-FRI 9AM TO 3PM PST



GENERAL SAFETY WARNINGS

SERIOUS BODILY INJURY OR DEATH CAN RESULT IF THIS PUMP AND SAND FILTER IS NOT INSTALLED AND USED CORRECTLY. INSTALLERS, POOL OPERATORS AND POOL OWNERS MUST READ THESE WARNINGS AND ALL INSTRUCTIONS BEFORE USING THIS PUMP AND SAND FILTER.

Most states and local codes regulate the construction, installation, and operation of public pools and spas, and the construction of residential pools and spas. It is important to comply with these codes, many of which directly regulate the installation and use of this product. Consult your local building and health codes for more information.

IMPORTANT: Attention Installer: This Installation and User's Guide contains important information about the installation, operation and safe use of this pump and sand filter. This Guide should be given to the owner and/or operator of this equipment.

- The sand filters are designed to work with water temperature $> 0^{\circ}\text{C}$ and $<$ than 45°C . The filter should never be operated outside of these temperatures or damage may occur. The installation should be carried out in accordance to the safety instructions of swimming pools and the specific instructions for each facility.
- A pool or spa pump must be installed by a qualified pool and spa service professional in accordance with the National Electrical Code and all applicable local codes and ordinances. Improper installation may create an electrical hazard which could result in death or serious injury to pool users, installers, or others due to electrical shock, and may also cause damage to property
- To reduce the risk of injury, do not permit children to use or operate this pump and sand filter.
- **DO NOT** store chemicals around your pool. Chemical spills and fumes can weaken swimming pools and/or spas.
- Any modifications of this equipment of the filter requires prior consent from the supplier's original replacement and accessories authorized by the manufacturer to ensure a high level of safety. The supplier assumes no liability for any damage or injuries caused by unauthorized replacement parts and/or accessories. In the even of defective operation or fault, contact the supplier or the nearest authorized service agent.
- When setting up pool water turnovers or flow rates the operator must consider local codes governing turnover as well as disinfectant feed ratios
- **DO NOT** increase pump size; this may increase the flow rate through the system and exceed the maximum flow rate stated on the drain cover.
- Pumps improperly sized or installed or used in applications other than for which the pump was intended can result in serious personal injury or death. These risks may include but not be limited to electric shock, fire, flooding, suction entrapment or serious injury or property damage caused by a structural failure of the pump or other system component

IMPORTANT SAFETY INFORMATION

WARNING

HIGH PRESSURE FROM THE SAND FILTER CAN CAUSE SEVERE INJURY OR MAJOR PROPERTY DAMAGE DUE TO TANK SEPARATION. RELEASE ALL PRESSURE AND READ INSTRUCTIONS BEFORE WORKING ON THE SAND FILTER. IF THE FILTER CLAMP IS ADJUSTED UNDER PRESSURE, THE TANK CAN SEPARATE, CAUSING SERIOUS INJURY OR MAJOR PROPERTY DAMAGE.

PUMPS REQUIRE HIGH VOLTAGE WHICH CAN SHOCK, BURN, OR CAUSE DEATH. BEFORE WORKING ON PUMP! ALWAYS DISCONNECT POWER TO THE POOL PUMP AT THE CIRCUIT BREAKER BEFORE SERVICING THE PUMP. FAILURE TO DO SO COULD RESULT IN DEATH OR SERIOUS INJURY TO SERVICE PERSON, POOL USERS OR OTHERS DUE TO ELECTRIC SHOCK.

⚠ DANGER SUCTION ENTRAPMENT HAZARD



POOL AND SPA PUMPS MOVE LARGE VOLUMES OF WATER, WHICH CAN POSE EXTREME DANGER IF A PERSON'S HAIR COMES IN PROXIMITY TO A DRAIN THAT IS NOT THE PROPER SIZE FOR THE PUMP OR PUMPS.

The Virginia Graeme Baker Pool and Spa Safety Act imposes certain new requirements on owners and operators of swimming pools and spas. Pools or spas constructed on or after December 20, 2008, shall utilize:

(A) No submerged suction outlets, a gravity drainage system with ASME/ANSI cover(s), one or more unblock-able outlets; or

(B) A multiple main drain system without isolation capability with suction outlet covers that meet ASME/ANSI A112.19.8 Suction Fittings for Use in Swimming Pools, Wading Pools, Spas, and Hot Tubs and either:

(i) A safety vacuum release system (SVRS) meeting ASME/ANSI A112.19.17 Manufactured Safety Vacuum Release Systems (SVRS) for Residential and Commercial Swimming Pool, Spa, Hot Tub, and Wading Pool Suction Systems and/or ASTM F2387 Standard Specification for Manufactured Safety Vacuum Release Systems (SVRS) for Swimming Pools, Spas and Hot Tubs or

(ii) A properly designed and tested suction-limiting vent system or

(iii) An automatic pump shut-off system.

Pools and spas constructed prior to December 20, 2008, with a single submerged suction outlet shall use a suction outlet cover that meets ASME/ANSI A112.19.8 and either:

(A) A multiple main drain system without isolation capability, or

(B) A safety vacuum release system (SVRS) meeting ASME/ANSI A112.19.17 and/or ASTM F2387, or

(C) A properly designed and tested suction-limiting vent system, or

(D) An automatic pump shut-off system, or

(E) Disabled submerged outlets, or

(F) Suction outlets shall be reconfigured into return inlets.

IMPORTANT SAFETY INFORMATION

WARNING

This filter operates under high pressure. When any part of the circulating system (e.g., clamp, pump, filter, valves, etc.) is serviced, air can enter the system and become pressurized. Pressurized air can cause the lid or control valve to separate which may result in serious injury, death, or property damage. To avoid this potential hazard, follow these instructions.

1. Before repositioning valves and before beginning the assembly, disassembly, or adjustment of the clamp or any other service of the circulating system:
 - (a) Turn the pump off and shut off any automatic controls to ensure the system is not inadvertently started during the servicing;
 - (b) Open manual air relief valve;
 - (c) Wait until all pressure is relieved, pressure gauge must read zero (0).
2. Whenever installing the filter clamp, follow the filter valve and clamp installation instructions exactly.
3. Once service on the circulating system is complete, follow system restart instructions exactly.
4. Maintain circulation system properly. Replace worn or damaged parts immediately.

WARNING

Failure to operate your filter system or inadequate filtration can cause poor water clarity obstructing visibility in your pool and can allow diving into or on top of obscured objects, which can cause serious personal injury or drowning.

This filter operates under pressure. With the valve clamped properly and operated without air in the system, this filter will operate in a safe manner. Air entering the filter and the valve not clamped correctly can cause the valve to separate, which could cause serious personal injury and/or property damage.

ALWAYS turn pump off before changing valve positions. Changing valve positions while the pump is running can damage the control valve, which may cause serious injury or property damage.

Chemical fumes and/or spills can cause serious corrosion to the filter and pump structural components. Structurally weakened components can cause filter, pump or valve attachments to separate and could cause serious bodily injury or property damage.

High voltage can cause serious or fatal injury. Always install a suitable GFCI at the power source of this unit as an added safety precaution. Article 681-31 of the NEC requires that a GFCI be used if this pump is used with a storable pool.

NEVER work on the pump while it is running or power is still connected. High voltage can cause serious or fatal injury. A suitable ground fault interrupter should always be installed at the power supply source of this unit. Be sure to ground the motor before connecting to electrical AC power supply. Failure to ground the motor can cause serious or fatal electrical shock hazard. **DO NOT** ground to a gas supply pipe line.

FOR CORD AND PLUG CONNECTED UNITS: Connect only to a ground type receptacle protected by a Ground Fault Circuit Interrupter (GFCI). Contact a qualified electrician if you cannot verify that the receptacle is protected by GFCI. Do Not Bury Cord. Locate cord to minimize abuse from lawn mowers, hedge trimmers, and other equipment. To reduce the risk of electrical shock, replace damaged cord immediately. To reduce the risk of electrical shock, Do Not Use an extension cord to connect unit to electrical supply; provide a properly located outlet.

FEATURES AND SPECIFICATIONS



BACKWASH AND RINSING PORT: Waste port for backwashing and rinsing.

MULTI-PORT VALVE: Controls flow in and around the tank.

PRESSURE GAUGE: Indicates PSI of the pump.

STAND PIPE ASSEMBLY: Allows filtered water to exit the tank.

LATERAL ASSEMBLY: Allows water to enter the stand pipe, keeps the sand inside the tank.

CONNECTING HOSE: Connects the pump to the valve.

DRAIN CAP: Drains water from the tank.

FEATURES AND SPECIFICATIONS

- Designed for up to 15,000 gallon swimming pools
- Requires 42lbs of filter sand (not included)
- Features 4-way valve (Filter, Backwash, Rinse & Winter)
- Pump: 110V 1/2HP pump.
- Self-priming, ultra quiet pump.
- 50GPM Flow Rate
- Weather and heat resistant
- Capacitor start feature

Assembled Product Dimensions (L x W x H) 26.00 x 17.00 x 21.00 Inches

INSTALLATION

SAND FILTRATION WORKING PRINCIPLE

Incoming water from the piping system is automatically directed by the multi-port valve to the top of the filter bed. As the water is pumped through the filter sand, dirt and debris are trapped by the filter bed, and filtered out. The filter water is returned from the bottom of the filter tank., through the multi-port and back through the piping system .

PREPARATION BEFORE INSTALLATION

1. Position the filter as close to the swimming pool / spa as possible.
2. The filter should be placed on a level concrete slab, very firm ground, or equivalent. Ensure that the ground will not subside to prevent any strain to the attached plumbing.
3. Position the filter so that the piping connections, Multi-Port Valve and winter drain is convenient and accessible for operation, servicing and winterizing.
4. Ensure that the compliance label is facing the front to allow easy identification in the case of service difficulties.

WARNING: This product should be installed and serviced only by a qualified professional.

1. Put the filter tank on the base. Turn the filter tank to the right to tighten it. Position the outlet drain plug so it is facing outside for easy operation.
2. Before filling the filter media into the filter vessel, do a visual check of the laterals. Look for broken or loose laterals. Replace if necessary. The laterals of side-mount valve sand filter are all installed.
3. Match the Raised Point of the laterals to Folding Umbrella lateral holder, insert the laterals and turn 90° clockwise. Listen for a sound to confirm the lateral is in place.
4. Make sure the air release hose is running along side the body of the lateral holder. One end of the air release hose **MUST** be out of the sand. **DO NOT** bury the air release hose in the sand.
5. To eliminate stress on the laterals, fill the filter vessel with enough water to provide a cushioning effect when the filter sand is poured in.
6. Use Sand Shield to protect the filter top mount and make sure the central stem pipe has been fully covered.
7. Carefully pour the exact amount of sand into the filter vessel. **DO NOT** allow sand to go into the stem pipe. **DO NOT** damage the filter top mount or it can cause a leak.
8. Put the O-Ring on the top mount valve and then connect the valve on the filter vessel. The stem pipe should be straight and aligned with the top mount valve. Tighten the flange clamp on the valve. **NOTE:** The flange clamp should be in place and tight or it could cause injuries.
9. To connect the pump to the base, use the screws from the pump hardware pack.
10. Adjust the valve position. The pressure hose connects to the pump output/input valve.
11. The other two connection ends of the valve connect to the swimming pool and the drain outlet hose.

INSTALLATION

INSTALLATION NOTES

1. Make sure the filter is operating under the working pressure and using a pressure control valve when the system is using a booster pump.
2. To aid in winterization and maintenance it is recommended that a separate gate valve be installed.
3. Minimize the length of pipe and the number of fittings to minimize friction loss to ensure maximum efficiency.
4. Connect all plumbing to the Multiport Valve taking care that all joints are glued or tightened securely to prevent leaking.
5. To prevent breakage and damage to the pump and Multiport Valve, use only pipe sealants specifically formulated for plastics.
6. Ensure solvents are not excessively applied to fittings as this could run into O-Rings and create sealing problems.
7. Do not over tighten fittings or adapters.

MULTIPORT VALVE INSTALLATION

Top Mount Sand Filters are supplied with a screw down Multiport Valve. Supplied with the Multiport Valve are Flange clamp, screws and O-Ring.

1. Screw the barrel unions onto the threaded ports on the Multiport Valve.
2. When rotating the Multiport Valve into position on a Top Mount Filter, leave some leeway for better alignment of plumbing.
3. Once the Multiport Valve is in position and the plumbing is aligned, apply the thread tape to the barrel union thread.
4. Using a roll of Teflon tape, wrap the Teflon tape around the thread (tail) of the barrel union in a clockwise direction.
5. Screw the barrel union into the thread of the Multiport Valve and hand tighten. The barrel union should be firmly threaded into the Multiport Valve and there should be no play between the thread.
6. Once you have done this tighten the barrel union with an appropriate tool until it is tight.
7. Repeat steps until all barrel unions are firmly onto the Multiport Valve.
8. Glue the plumbing to the Barrel unions and allow 24 hours for glue (solvent) to set before starting the filter.
9. Test the filter and check for leaks around the threads. If leaking occurs disconnect plumbing and repeat the steps 2 to 6 until the leak has stopped.

INSTALLATION

INITIAL STARTUP OF FILTER

Be sure correct amount of filter media is in tank and that all connections have been made and are secure.

1. Depress Multiport Valve handle and rotate to the **BACKWASH** position. **NOTE:** To prevent damage to control valve seal, always depress handle before turning.
2. Switch on the Pump. (OPTIONAL) If a gate valve is installed open the valve before turning on the pump, allowing the filter tank to fill with water.
3. Once water flow is steadily exiting the waste line, run the pump for at least one minute. The initial backwashing of the filter is recommended to remove any impurities or fine sand particles in the filter media.
4. Turn the pump off. Set the Multiport Valve to the **RINSE** position. Switch on the Pump and allow it to run until water in sight glass is clear - approximately 10 to 15 seconds.
5. Switch off the Pump. Set the Multiport Valve to the **FILTER** position and Switch on the Pump. Your filter is now operating in the normal filter mode.
6. Adjust pool suction and return valves to achieve desired flow. Check the plumbing and filter for water leaks and tighten connections, bolts, and nuts, as required. **NOTE:** During initial clean-up of the pool water, it may be necessary to backwash frequently due to the unusually heavy initial dirt load.
7. Record the pressure gauge reading (start up pressure) during initial operation. After a period of time, the accumulated dirt and debris in the filter causes a resistance to flow, and the flow diminishes. The pressure will start to rise and the flow of water will start diminishing. When the pressure gauge reading is 8-10 PSI higher than the initial "Start up" pressure, it is time to backwash (clean) the filter.

CAUTION: All suction and discharge valves must be open when starting the pump. Failure to do so could cause severe personal injury and/ or property damage. **NOTE:** If a pump is installed, switch the pump on and off, instead of closing and opening the optional gate valve.

NOTE: To prevent unnecessary strain on piping system and valve, always shut off the pump before switching filter control valve position. To prevent damage to the pump and filter and for proper operation of they system, clean pump strainer and skimmer baskets regularly.

BACKWASHING CONDITIONS

The function of backwashing is to separate the deposited particles from filter media grains and flush them from the filter bed. Backwashing is achieved by reversing the flow of water through the filter bed at a fairly high flow rate. This high flow rate expands the filter bed and the water collects the debris taking it to waste.

Time for backwashing is determined by the following conditions:

1. The flow rate through the filter bed decreases until it is insufficient to meet the demand.
2. The removal efficiency of the filter bed decreases to the point where the effluent quality deteriorates and is no longer acceptable.
3. When the pressure gauge reading is 8-10 PSI higher than the start up pressure.
4. If the filter is connected to the water main, pressure rise is not an accurate indicator as water main pressure tends to fluctuate. It is best to rely on the actual flow rate. **NOTE:** We recommend that you backwash a swimming pool sand filter in a residential installation at least once a month.

IMPORTANCE OF BACKWASHING

The importance of backwashing cannot be overstated. Dense filter media can become “packed” without proper and frequent enough backwashing. Debris will remain trapped and create channelling within the filter bed. This will result in the filter bed exhausting early. Moreover, if debris is not flushed from the media grains, the filter bed will become dirtier and dirtier as time goes on until the filter operation fails.

BACKWASHING INSTRUCTIONS

1. Switch off the Pump. Close the Inlet Valve. **NOTE:** If a pump is installed, switch the pump on and off, instead of closing and opening the Gate Valve.
2. Release the filter’s pressure by loosening Pressure Release Valve until the Pressure Gauge needle drops to zero <0>.
3. Re-tighten Pressure Release Valve.
4. Depress and turn Handle to the **BACKWASH** position. In the **BACKWASH** position, the water flow is automatically reversed through the filter so that it is directed to the bottom of the filter vessel, up through the sand, flushing the previously trapped dirt and debris out the waste line.
5. Switch on the Pump. Backwash water will flow out through drain pipe.
6. When the backwash water in the sight glass appears clear, switch off the Pump.
7. Depress and turn the handle to the **RINSE** position. In the **RINSE** position, the water flow is directed through the filter bed and out of the filter through the backwash outlet. This process settles the filter media bed into place and ensures any dirt or debris is rinsed out of the filter, preventing possible return to the pool.
8. Switch on the Pump. Rinse water will flow out through the drain pipe.
9. When the rinse water in the sight glass appears clear. Switch off the Pump.
10. Depress and turn the handle to the Filter position and switch on the Pump.

PUMP SAFETY WARNINGS

WARNING

Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in injury and/or property damage. Save all warnings and instructions for future reference.

The warning and safety instructions in this manual are not meant to cover all possible conditions and situations that may occur. Common sense, caution and care must be exercised when operating or cleaning tools and equipment. Always contact your dealer, distributor, service agent or manufacturer about problems or conditions you do not understand before operating the product.

- To reduce the risk of injury, children should be supervised to ensure that they do not play with or around the appliance.
- Avoid leaking of electricity. Do not pull the cables when moving the pump.
- Do not use the appliance to pump flammable or corrosive liquids such as gasoline, fuel, kerosene etc.
- When the pump is working, the water levels should not be lower than the pump. If the motor does not have enough water to keep it cool, the motor temperature will raise and burn the motor.
- Do not bury the pump in mud or sand. Do not let anything obstruct or block the pump. Confirm you can see the bottom of the pump. If you cannot see the bottom of the pump, place something under it like a concrete slab
- The joint part of the wire should NEVER be placed in water.
- Never run the pump dry. Running the pump dry can damage the seals, causing leakage and flooding. Confirm the pump has water before starting the motor.
- Do not put chemicals into the suction inlet of the pump directly. Doing so will damage the pump.
- The suction relief valve must be opened before starting the circulation system of the pump. Doing so may result in injury.
- Always wait at least 5 minutes before restarting the pump. Starting the pump too soon can damage the pump.
- To prevent electric shock, cut off the power supply to the pump before draining it.
- If water leakage happens, remove the connector, clean up the raw material belts and increase one or two laps of new raw material belts, then reinstall the connector.

SAVE THESE WARNINGS.

Pump Placement

Install the pump in a a solid, flat surface. The ground must be solid sturdy, horizon-tal, and no vibration. For the purpose of periodic maintenance, do not move the pump as far as possible once installation finished. The pump should be kept out of direct sunlight and should be protected from inclement weather. Do not install in damp or stuffy place; a free flow of air is necessary to prevent motor from overheating.

Installation

The pump uses advanced technology and an automatic timing controller. In accordance with these simple and effective preventive measures when installing the pump.

1. The anchor bolts must be tightened during installation in order to avoid coming loose from vibration when the pump starts.
2. The suction hose of pump should be larger than 40mm and its diameter must be equal or larger than the diameter of release hose.
3. Do not allow air to run into the pump.
4. Pump must be connected to the correct power supply and voltage which is shown on the nameplate.
5. All connections must be made by qualified electrician.
6. The suction hose must be continuously straight, tilted upward from the bottom. The joint must be tight but not too tight.
7. The ideal temperature for working pump is 0 °C to 40 °C . If the temperature is too high or too low, the pump will stop working, and damage may occur.
8. The ground lead must be used to protect the motor.
9. To avoid deforming the pump, the weight of installed houses should not be added to the pump.


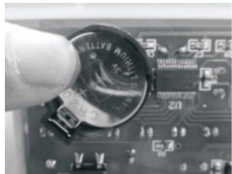



Power Connection

Please check whether voltage used corresponds to the required voltage on the nameplate. The voltage for the motor should not exceed 10% or below the requirement on the sticker on the voltage; otherwise motor will overheat, and lead to overload trip and shorten the life of the component. All connection must be operated by qualified electrician. All wires must comply with applicable local and national laws or regulations. Leakage of the circuit breaker must be configured to avoid electric shock when deterioration of insulation occurs because of product age.

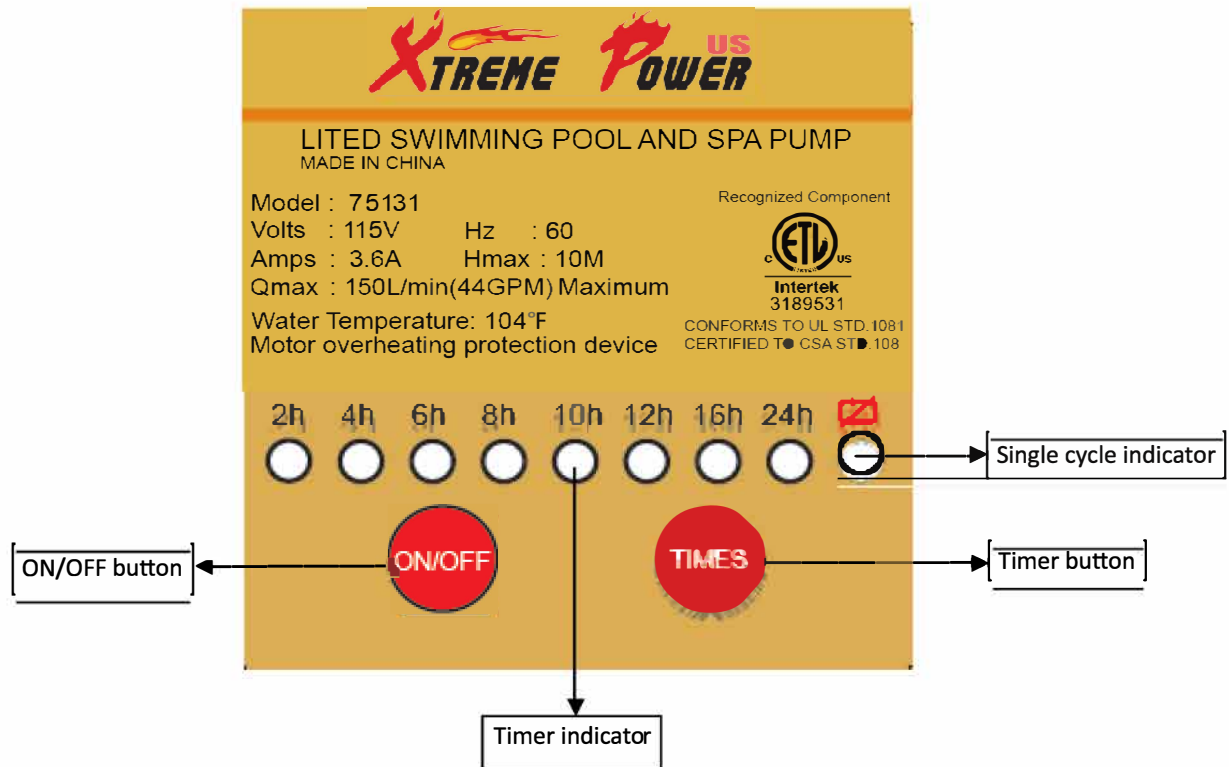
Instruction for Control Panel

Timer initiation:

Note: Make sure the power supply is cut off

				
Unscrew the 4 screws on the lid of the terminal box and remove the lid.	Remove the battery	Remove the rubber film on the surface of the battery	Replace the batter and lid back the rubber film	Replace the lid of the terminal box and tighten the 4 screw-driver

PUMP INSTALLATION



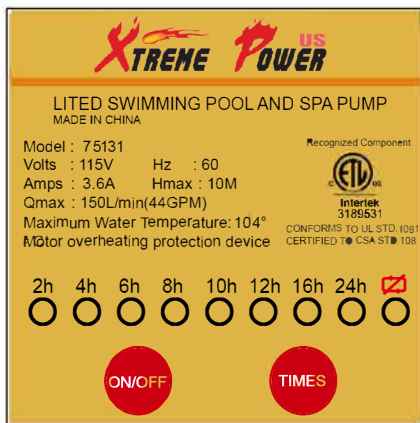
Button instruction: Start/Stop pump

ON/OFF button	Set the desired operation period; transform among
Timer button	2h 4h 6h 8h 10h 16h 24h

Press the **TIMER.** button more than 10 seconds and the single cycle indicator light will flash (When the timer indicator light flashes in 24h, a single cycle indicator light did not work)
Press the **TIME** button to adjust time, the pump must be stopped; otherwise the time cannot be adjusted. There are two operation modes in control panel: **CONTINUOUS** mode and **SINGLE CYCLE** mode.

Continuous mode:

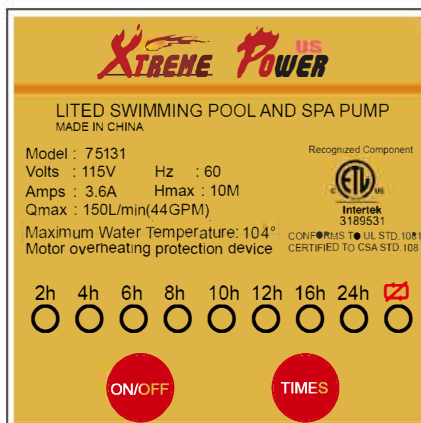
After turning the pump on, the default setting is 24 hours continuous operation (indicator lights flashing in 24h). To set the desired operation period, this can be done by pressing the **TIMER** button; the indicator lights cyclical flash among 2h 4h 6h 8h 10h 12h 16h 24h. Then press the **ON/OFF** button, the pump starts running. The running time is what the timer indicator light shows.



For example, if you set the timer to 4h and press [ON] at 8:00, the pump will operate for 4 hours and stop at 12:00, and the indicator light will stop flashing. The pump will start again for 4 hours at 8:00 the following days.

Single cycle mode:

When press the timer button more than ten seconds, Single cycle indicator light will flash and switch to single cycle mode. In the single cycle mode, after pressing [ON], the pump will work and stop when it run out the setting time and it will work again until the power supply is reconnected. To change setting time, press timer button (2h 4h 6h 8h 10h 12h 16h 24h)



For example, if you set the timer to 4h in single cycle mode, the pump will stop automatically after running for 4 hours and it will not start again until you cut off the power and reconnect the power supply.

Regular inspection and maintenance

1. Confirm whether screws in the baseboard are installed tightly. If any are loose, tighten the screws.
2. Confirm whether the power cords and insulation parts are broken. If so, you should have a qualified technician repair or replace them to prevent leakage of electricity.
3. Pump should be stopped at once when the temperature are too high. Find out the reason and repair it. Pump can be used only after repaired.
4. Pump should be stopped at once when the noise is too loud. Have a qualified technician repair it. The pump can be used only after it is repaired.

Warning:

1. Do not let the water run into the motor and other electric components.
2. To avoid electric shock, damaged wires should be replaced immediately. The position of the wire should not be connected to grass mower, pruning shears or other equipments.
3. If it is necessary to separate the pump, the power supply should be cut off and wait for the pump to stop entirely.
4. Make sure power is connected correctly, and that there is no damage to the power cord and insulation parts before starting the pump.
5. Cut off the power before draining to avoid electric shock.

Troubleshooting

Motor does not work:

1. Check the timer to make sure it is working correctly.
2. The power cord might be connected improperly or loose. The power switch is not turning on or the relay or breaker is tripped. There is electricity leakage in the power switch or the fuses are broken down.

Solution: check that all connections, breaker and fuses are working correctly.

Motor turns off automatically:

1. The power is too low for the motor to properly work. The voltage is too low for the power supply; the power wire is too long or too short.

Solution: Have a qualified technician check the power voltage whether the power cord is long enough or not.

2. The motor of the pump is equipped with an “automatic overheat protector”. When the temperature of the motor is too high, it may lead to the winding burning out. The motor will automatically turn off or drop the supply. The “automatic overheating protector” will restart automatically after the motor is cooled down. It will continue to switch between on and off and stop until the problem is solved.

Motor roars, but does not work:

Check whether the impeller is blocked by debris. Have a qualified technician open the motor and remove the debris.

Low flow – general check:

1. Check the filter or hose is blocked or not.

Solution: Connect with a professional cleaner.

2. The hose is too small. **Solution:** Change to a correct size hose.

3. The impeller is blocked, limited or damaged.

Solution: Replace new components including sealing components.

Pump making loud noise:

1. Shaking means there was improper installation.

Solution: Install the pump on the horizontal ground and tighten the screws.

2. There is blockage in the pump, small rocks or fragments struck the impeller.

Solution: Clean the filter.

3. Overheating due to rust, leakage of sealing components or because of corrosion and penetration caused by chemicals.

Solution: Replace all leaking sealing components

DISCLAIMER

PLEASE READ THE FOLLOWING CAREFULLY

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Record Product's Serial Number Here: _____

Note: If product has no serial number, record month and year of purchase instead.

Note: Some parts are listed and shown for illustration purposes only and are not available individually as replacement parts.



SAVE THESE INSTRUCTIONS.

The material in this manual is for informational purposes only. The product(s) it describes are subject to change without prior notice, due to the manufacturer's continuous development program. XtremePowerUS makes no representations or warranties with respect to this manual or with respect to the products described herein. XtremePowerUS shall not be liable for any damages, losses, costs or expenses, direct, indirect or incidental, consequential or special, arising out of, or related to the use of this material or the products described herein.

Questions, issues or missing parts?

Before returning to your retailer, our customer service team is here to help.



Call Us: 909.628.0880

Email Us: customer@xtremepowerusa.com

Hours of Operation: 9am - 3pm PST Monday - Friday

PRODUCT MADE IN CHINA