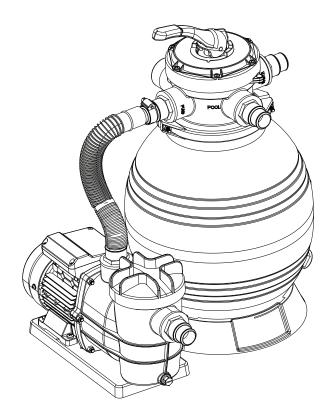


POOL PUMP AND SAND FILTER SYSTEM

0.75HP 115V 1-SPEED 13 INCH 4-WAY ABOVE-GROUND

ITEM: 75110



INSTALLATION AND USER'S GUIDE

Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury. Save all warnings and instructions for future reference.



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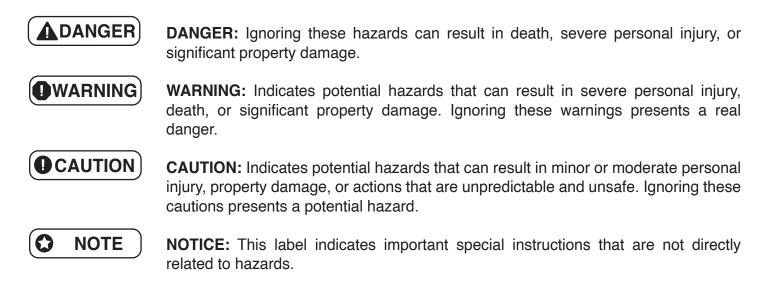
IMPORTANT SAFETY INSTRUCTIONS

This guide provides instructions for installing and using the product. If you have any questions about the product, please contact XtremepowerUS.

This guide contains important information about safely installing and operating this product. After installation, make sure to share this information with the owner/operator or leave it with them for their reference.

Legends and Symbols

When you come across the safety-alert symbol on the product or in this manual, pay attention to the following signal words and remain vigilant about the potential for personal injury.



USE OF NON-XTREMEPOWERUS REPLACEMENT PARTS VOIDS WARRANTY

ATTENTION INSTALLER: This manual contains vital information regarding the installation, operation, and safe use of this product. It is essential to provide this manual to the end user of the product. Failure to read and follow all instructions could lead to severe injuries.

Failure to comply with all instructions and warnings may lead to severe bodily injury or even death. It is strongly recommended that only a qualified pool service professional install and service this product. Prior to using this product, installers, operators, and owners must carefully review these warnings and all instructions provided in the owner's manual. It is essential to leave these warnings and the owner's manual with the pool owner for their reference and safety.



For safety reasons, children should not be allowed to use this product.

IMPORTANT SAFETY INSTRUCTIONS

EXANGER Risk of electrical shock. Connect this product solely to a branch circuit that is safeguarded by a ground-fault circuit interrupter (GFCI). If you are unable to confirm the presence of a GFCI protection on the circuit, please seek assistance from a qualified electrician.

Please note that this unit must only be connected to a supply circuit protected by a ground-fault circuit-interrupter (GFCI). The installation of a GFCI is the responsibility of the installer, and it should be regularly tested for proper functioning. To test the GFCI breaker, simply press the test button, which should interrupt power. Pressing the reset button should restore power. If the GFCI fails to operate as described, it is defective and should be replaced. If the GFCI interrupts power to the pump without pressing the test button, it indicates the presence of a ground current and the possibility of electric shock. In such cases, do not use the pump. Disconnect it immediately and seek the expertise of a qualified service representative to address and rectify the issue before resuming use (to test the GFCI breaker).

WARNING This product is specifically designed for use with permanent swimming pools and, if appropriately marked, can also be used with hot tubs and spas. However, it should not be used with storable pools. A permanently installed pool is one that is built in or on the ground, or within a building, making it incapable of being easily disassembled for storage. On the other hand, a storable pool is designed to be disassembled and reassembled for storage while maintaining its original integrity. Please ensure that this product is only used with permanent swimming pools and hot tubs or spas if appropriately indicated. Avoid using it with storable pools to prevent potential hazards and ensure optimal performance.

GENERAL SAFETY

- The pump and sand filter system is not designed to be submersible.
- Do not attempt to open the inside of the drive or motor enclosure, as there is a capacitor bank that can retain a potentially dangerous electrical charge, even when the unit is not powered.
- Disconnect the main power plug to turn off the pump before performing any maintenance on the pump and sand filter system.
- Before working on the filter, disconnect the power plug to the pump and release the air pressure to the filter tank.
- The sand filter is designed to operate with water temperatures between +32.0°F to +113.0°F (+0°C to +45°C). Operating the filter outside of this temperature range may cause damage.
- Chemical spills can damage pools/spas and malfunction equipment, risking injury or property harm. Avoid storing chemicals near equipment.
- This appliance is not intended for use by individuals (including children) with reduced physical, sensory, or mental capabilities, or those lacking experience and knowledge, unless they have received supervision or instruction regarding its safe usage from a responsible person.

- During installation, ensure proper drainage around the pump to prevent water from entering the electrical components.
- To ensure optimal performance, it is crucial to use the proper size pump for the specific application and install it correctly. Only through meticulous sizing and installation can the pump function as intended.
- The use of pumps that are improperly sized, installed, or employed for applications other than their intended purpose can lead to severe personal injury or even death. These risks encompass potential hazards such as electric shock, fire, flooding, suction entrapment, or critical injuries and property damage resulting from structural failures of the pump or other system components. It is essential to strictly adhere to the correct sizing, installation, and designated usage to mitigate these potential dangers and ensure the safety of all users and the surrounding environment.

The pump has the potential to generate significant levels of suction within the plumbing system's suction side. This heightened suction presents a considerable risk if individuals come too close to the suction openings. Being near these openings can result in severe injuries caused by the intense vacuum or may lead to entrapment and drowning.

IMPORTANT SAFETY INSTRUCTIONS



SUCTION ENTRAPMENT HAZARD

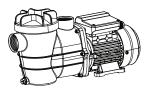
To minimize the risk of injury caused by suction entrapment hazards, please follow these safety guidelines:

- Use only properly installed and secured ANSI/ASME A112.19.8 approved anti-entrapment suction covers for each drain.
- Ensure that each suction cover is installed at least three (3') feet apart, measured from the nearest point to nearest point.
- Regularly check all suction covers for cracks, damage, and excessive weathering.
- Promptly replace any loose, cracked, damaged, broken, or missing cover with an appropriate certified one.
- Periodically replace drain covers as necessary since they deteriorate over time due to exposure to sunlight and weather.
- Avoid placing hair, limbs, or your body near any suction cover, pool drain, or outlet.

By adhering to these precautionary measures, you can significantly reduce the risk of injury associated with suction entrapment hazards.

OVERVIEW (PRODUCT INFORMATION)

OVERVIEW (PRODUCT INFORMATION) PACKAGE CONTENTS



PARTS # **15d** PUMP WITH STRAINER 1 PC(S)



PARTS # 1 4-WAY VALVE 1 PC(S)



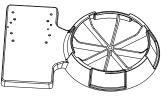
PARTS # 4 FILTER TANK 1 PC(S)



PARTS # 2 FLANGE CLAMP 1 SET(S)



parts # 6 FILTER DRAIN NOZZLE 1 SET(S)



PARTS # 7 PUMP & TANK BASE 1 PC(S)



PARTS # 13a HOSE 1 PC(S)



PARTS # 5 FILTER ASSEMBLY 1 PC(S)



PARTS # $\mathbf{3}$

LARGE O-RING

1 PC(S)

PARTS # 17 FUNNEL 1 ββΡC(S)



5 PC(S)

PARTS # **10** SMALL O-RING



PARTS # **11** HOSE ADAPTER 5 PC(S)



PARTS # 12 HOSE CLAMP 1 PC(S)



PARTS USER'S GUIDE 1 PC(S)



M6 x 25

PARTS # 8

SCREW & NUT

4 PC(S)

ST5.5 × 30 **PARTS # 9 SCREW & NUT** 2 PC(S)



PARTS # 18 PRESSURE GAUGE 1 PC(S)

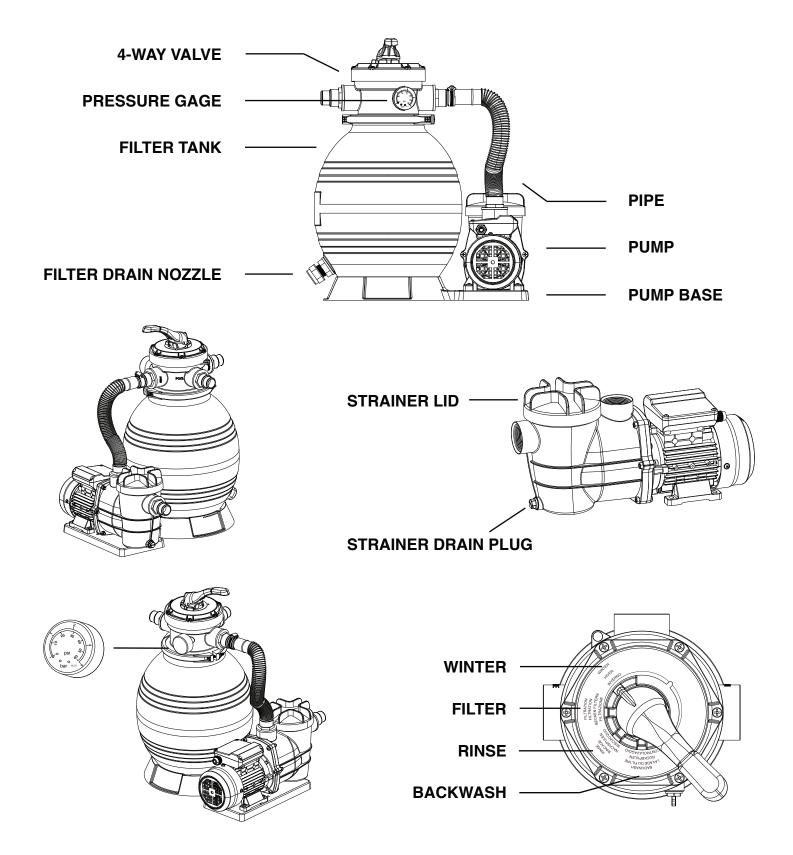


W/ O-RING 1 1/2''MIP **PARTS # 19 DRAIN PLUG** 1 PC(S)

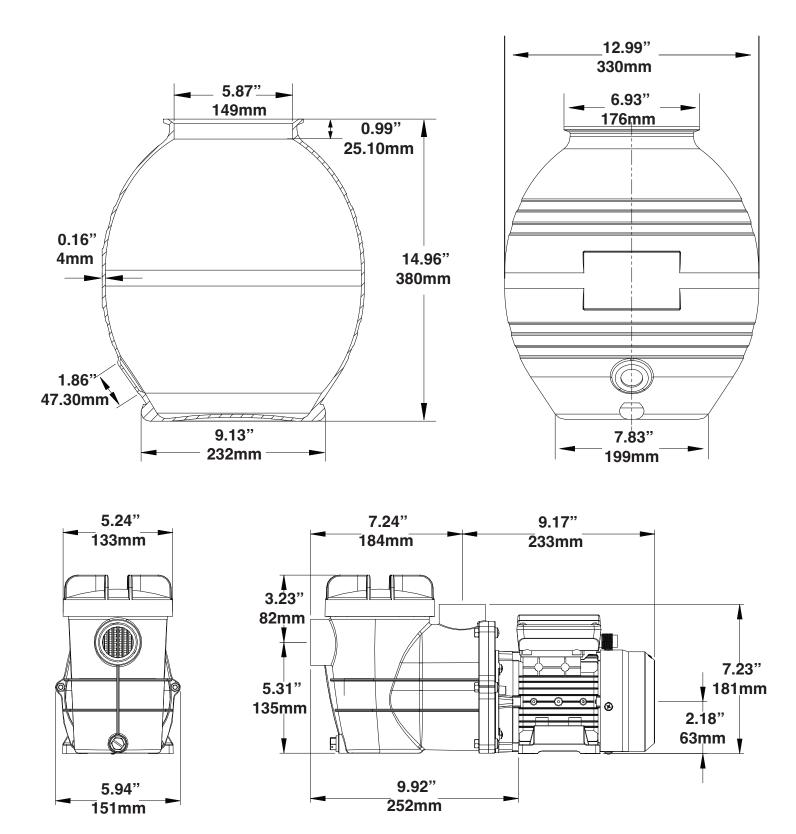


OVERVIEW (PRODUCT INFORMATION)

PUMP AND SAND FILTER SYSTEM



PRODUCT DIMENSIONS



SPECIFICATIONS

Input Voltage / Frequency		115 V / 60 Hz
Input Current		3.6 Amps
Speed		Single (1) Speed
RPM		3450 RPM
Horsepower		0.75 HP
Wire		14 AWG
Maximum Continuous Load		2400 GPH (Gallons Per Hour)
Ambient Conditions	Storage	-40°F to +140°F (-40°C to +60°C)
	Operating	+32°F to +122°F (0°C to +50°C)
	Humidity	Relative 0 to 95 % Non-condensing
	Water Temperature	+32.0°F to +113.0°F (0°C to 45°C)
Роој Туре		Above-Ground
Hmax (Maximum Head)		10M
Qmax (Maximum Flowrate)		40GPM (150L / Min)
WEF (Weighted Energy Factor	r)	5.9
Certification		UL Listed
		CSA Certificated
		ETL Listed
Feature		Thermal Protected
		Heavy-Duty Long-Lasting Case

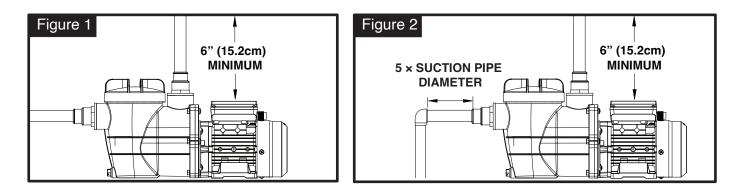
INSTALLATION

PUMP LOCATION

- This pump should not be installed within an outer enclosure or beneath the skirt of a hot tub or spa, unless there are specific markings indicating its suitability for such installation.
- It is essential to mechanically secure the pump and sand filter system to the pump base during installation. Proper mechanical securing ensures stability and safe operation of the pump during its use.

Ensure that the pump location satisfies the following requirements:

- Position the pump as close to the pool or spa as feasible. Ensuring it is placed on a dry, wellventilated surface away from direct sunlight. Consider the following factors:
 - Ensure proper drainage away from the pump.
 - Provide adequate ventilation for the pump motor.
 - Allow easy access for future servicing and winterizing needs.
 - Protect the pump from exposure to the elements.
- Ensure a minimum distance of 5 feet from the inside wall of the pool and spa during installation.
- Keep a minimum distance of 3 feet between the pump and the heater outlet.
- Avoid installing the pump at a location higher than 10 feet above the water level.
- Choose a well-ventilated site for the pump, offering protection from excess moisture, such as rain gutter downspouts or sprinklers.
- Allow a rear clearance of at least 3 inches during installation to enable easy motor removal for maintenance and repair. Refer to **Figure 1** and **Figure 2** for further details.



While the pump is designed for outdoor use, it is advisable to position both the pump and filter in the shade to shield them from continuous direct heat. Select a well-drained location that will not flood during rainy periods. Never install the pump and filter in a damp or poorly ventilated area. Keeping the motor clean is crucial, as pump motors require unrestricted air circulation to aid in cooling.

ELECTRICAL

RISK OF ELECTRICAL SHOCK OR ELECTROCUTION.



It's crucial to follow the National Electrical Code and all relevant local codes and ordinances. Going against these rules can result in a high risk of electrical shock, potentially leading to severe injury, death, or property damage for individuals involved. To prioritize safety and prevent potential hazards, adhering to electrical safety regulations and guidelines is crucial.

Always ensure the power to the pump is disconnected from the power source before performing any service or maintenance. Failure to do so can lead to severe injury or even death for service personnel, pool users, or others due to electric shock, and may also result in property damage. Prior to servicing the pump, ensure complete disconnection from the power source to ensure the safety of everyone involved and to prevent any potential hazards or accidents.

Prior to commencing any work on the pump, **thoroughly read and familiarize yourself with all servicing instructions.** This practice ensures your understanding of the proper procedures and precautions necessary for safe and effective pump servicing. Neglecting to do so may result in accidents, injuries, or damage to the pump or surrounding equipment. Prioritize safety by carefully reviewing all instructions before undertaking any maintenance tasks.

INSTALLATION INSTRUCTIONS

For detailed guidance on safe installation, please refer to the IMPORTANT SAFETY INSTRUC-TIONS. These instructions are vital to ensure the pump is set up correctly, maintaining safety and optimal performance.

Step 1: Pump Base Installation

A. Place the pump base on a flat surface.

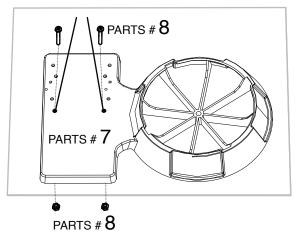
NOTE The equipment must be placed on a level surface with adequate ground hardness; if positioned on grass, a flat wooden board should be used as a base for leveling.

B. Secure parts# 7 pump base to a flat surface or platfrom. (*Figure A*)
 Using parts# 8 screws and nuts to secure parts# 15d pump to the parts# 7 pump base. (*Figure B*)

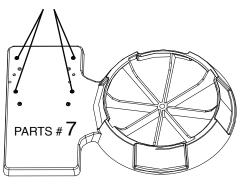
Figure A

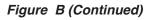
Figure B

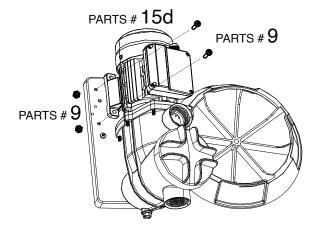
Pump Base Installation

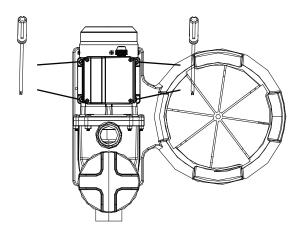


Pump Installation





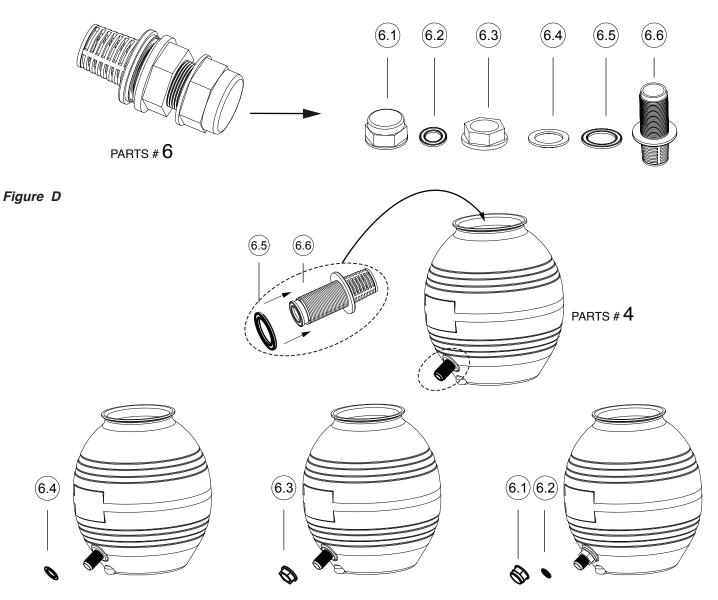




Step 2: Sand Filter Drain Installation

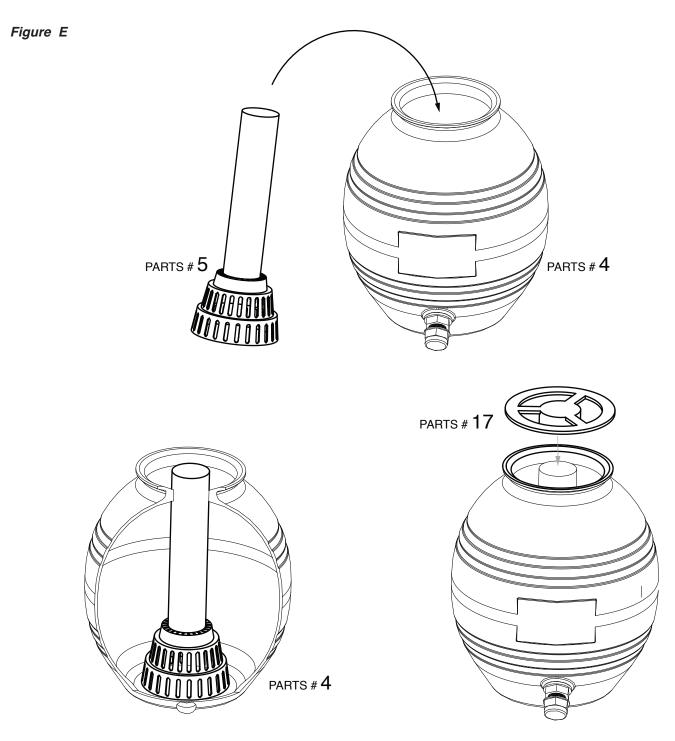
- A. Disassemble parts# 6 Filter Drain Nozzle, and arrange the drainage components in the following order as showing in *Figure C*: #6.1, #6.2, #6.3, #6.4, #6.5, and #6.6.
- B. Apply #6.5 onto #6.6 (*Figure D*). Then, insert the assembled #6.5 and #6.6 into parts# 4 filter tank's opening. On the out side of the filter tank, install other drainage components onto #6.6 in the following order: #6.4, #6.3, #6.2, and #6.1.
- C. Manually tighten all the components to secure the filter drain. Do not overtighten. No tools are required.

Figure C



Step 3: Adding Filter Media

- A. Place parts# 5 filter assembly in the center of parts# 4 sand filter , ensuring the pipe of parts# 5 remains upright during the media loading process. (*Figure E*)
- B. Place parts# 17 funnel at the top of parts# 4 filter tank by aligning it with parts# 5 filter assembly. (*Figure E*)



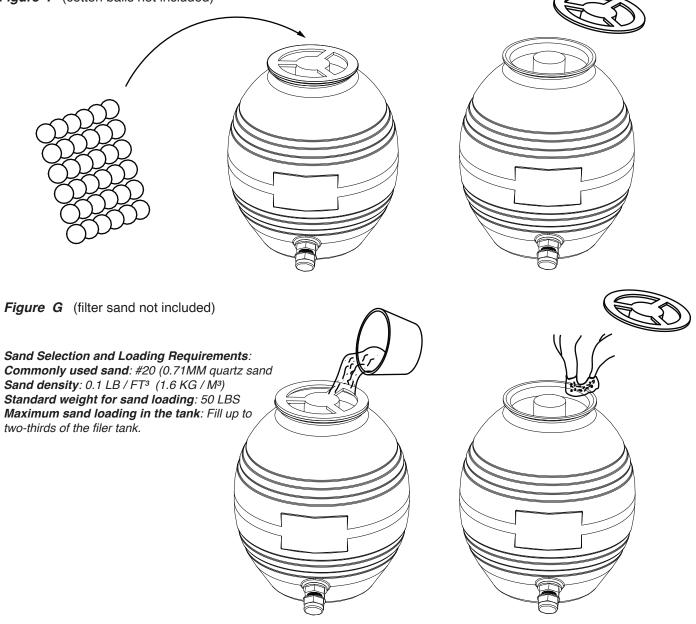
Step 3: Adding Filter Media (Continued) Cotton Ball -> Step 3: C.1

Sand -> Step 3: C.2

- C1. **Cotton Ball**: Fill the filter tank evenly with swimming pool filter cotton balls (not included), then remove parts# 17 funnel. (*Figure F*)
- C2. **Sand**: Add swimming pool filter sand (not included) to the tank evenly, remove parts# 17 funnel, and clean the tank's neck. (*Figure G*)

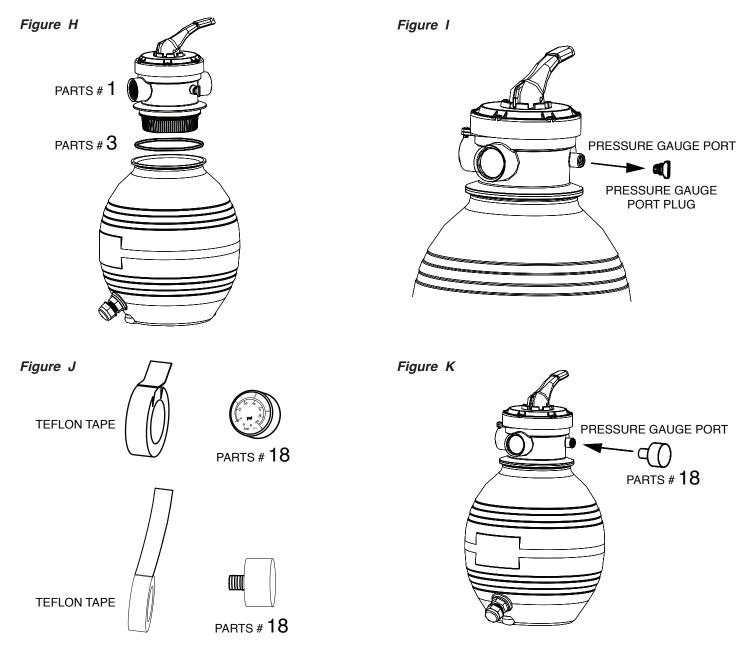
Use only **POOL FILTER SAND** for this step.

Figure F (cotton balls not included)



Step 4: Pressure Gauge Installation

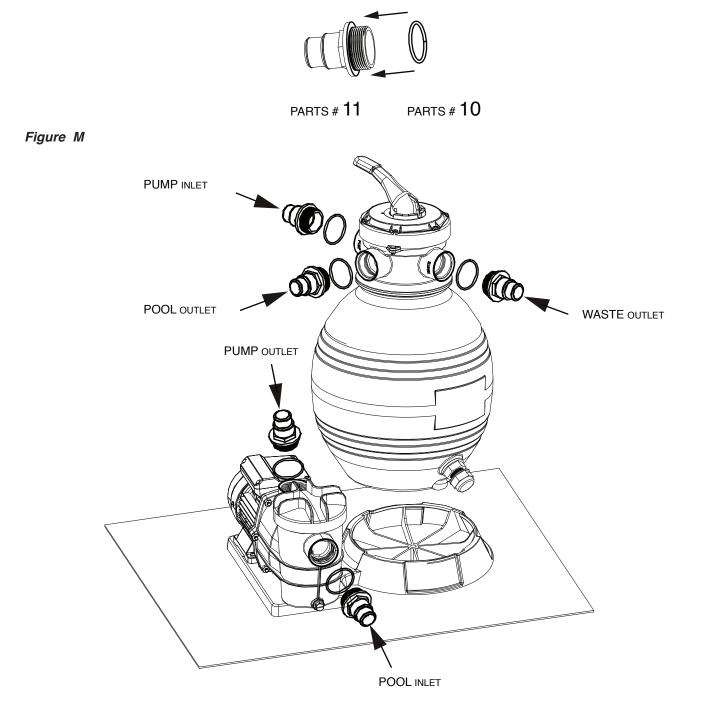
- A. Apply parts# 3 large o-ring at the bottom of parts# 1 valve and place them on the top of parts# 4 filter tank. (*Figure H*)
 Remove the pressure gauge port plug from the pressure gauge port on the side of parts# 1 valve. (*Figure I*)
- B. Clockwise wrap parts# 18 pressure gauge's thread with Teflon tape. (Figure J)
- C. Clockwise screw parts# 18 pressure gauge into the pressure gauge port on the side of the part #1 valve, and then tighten it manually. (*Figure K*)



Step 5: Hose Adapter Installation

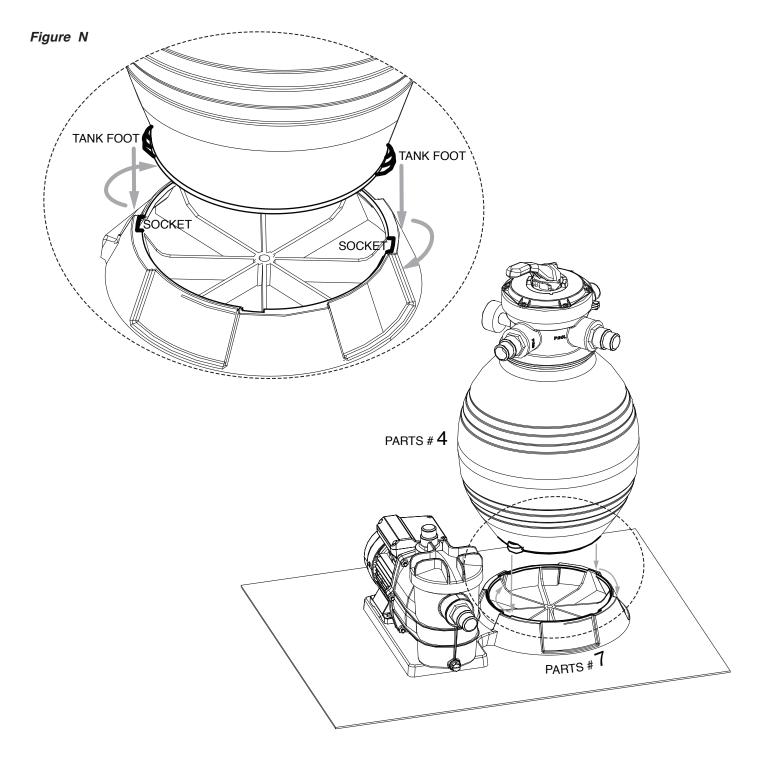
- A. Place parts# 10 small o-ring on the threaded end of each parts# 11 hose adapter. (*Figure L*)
- B. Install parts# 11 hose adapters onto the specified ports on part# 1 valve and part# 15d pump (*Figure M*), then manually tighten the hose adapters.

Figure L



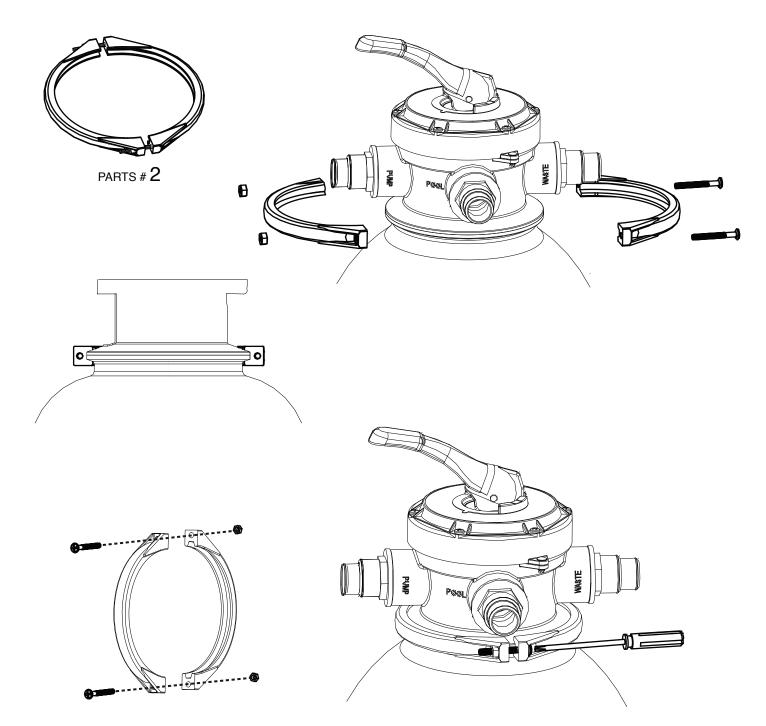
Step 6: Tank Attachment

- A. Attach parts# 4 tank to the pump and filter base by aligning and inserting the tank feet into the sockets on parts# 7 base. (*Figure N*)
- B. Twist clockwise to secure. (*Figure N*)



Step 7: Flange Clamp Installation

- A. Install and tighten part# 2 flange clamps around the neck of part# 4 filter tank. (*Figure O*)
- B. Securing both end screws. (*Figure O*)
- Figure O

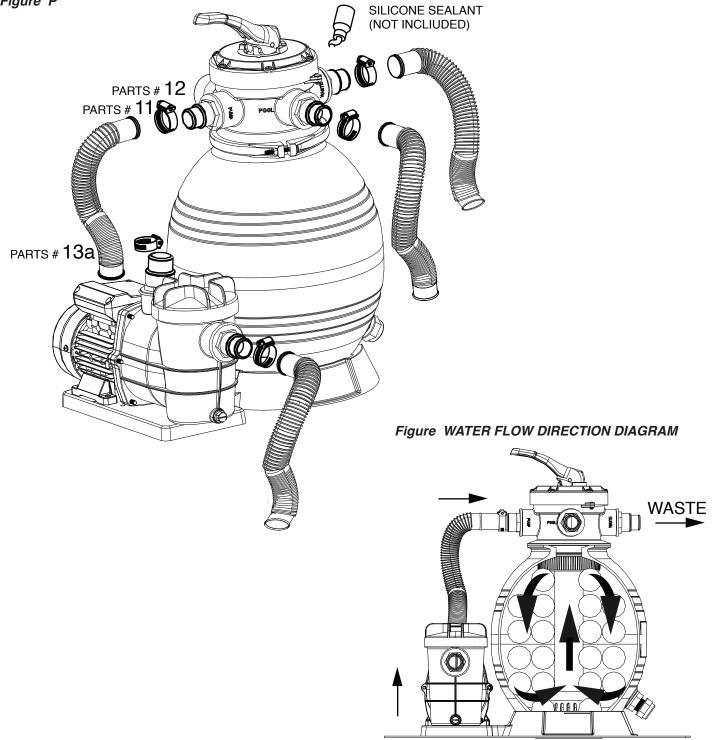


Step 8: Hose Attachment

A. Slide part# 12 hose clamp(s) onto part# 13a hose(s). (*Figure P*)

B. (Optional) Apply silicone sealant (not inclided) to part# 11 hose adapter(s) to prevent leaks.

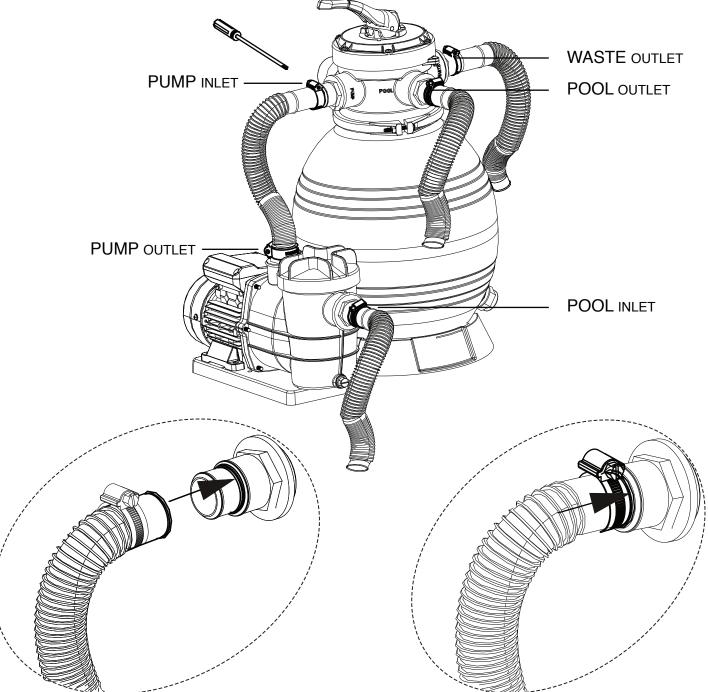
Figure P



Step 8: Hose Attachment (Continued)

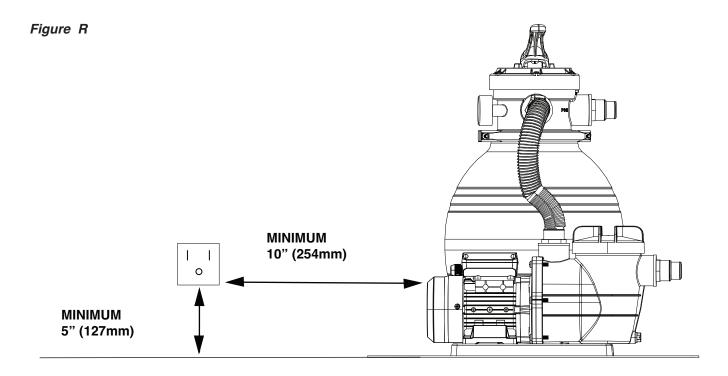
- C. Connect part# 13a hose(s) to part# 11 hose adapter(s) and tighten part# 12 hose clamp(s). (*Figure Q*)
- D. (Optional / Recommended) Attach a discharge hose (not included) to the "WASTE" port on the valve to divert water away from the pool bottom during flushing or backwashing.

Figure Q



Step 9: Power Connection

- A. Refer to the details below for the minimum distance in inches between the ground fault protection socket and the pump and sand filter system. (*Figure R*)
- B. Use an **18 AWG** extension cord capable of handling the electrical load of the filter pump.



Pump Running Time Suggestion Chart

Pool Capacity (Gallons)	Duration of Each Run (Hours)	Operating Frequency (Hours/Run)
300	0.5	4
600	1.0	4
900	1.5	4
1200	2.0	5
1500	2.5	5
2000	4.0	5
2500	5.0	6
3000	6.0	6

OPERATION

PRIOR TO START-UP

If it is necessary to perform a water pressure test before the initial use to ensure the plumbing system is functioning properly, the following criteria should be followed:

- Engage the services of a professional to perform the water pressure test. Their expertise will ensure accurate and safe testing of the plumbing system.
- Before conducting the test, ensure all XtremepowerUS pump and system components are removed from the plumbing system. This ensures that the test is performed independently of the pump and its components.

If the circulation equipment must remain in the plumbing system during the water pressure test, exercise caution and do not apply more than 10 psi pressure to the system. Additionally, before removing the pump strainer cover, be sure to release water pressure.

When starting the circulating pump system, ensure that all suction and discharge valves are OPEN, along with the filter air relief valve (if available) on the filter. This critical step is essential for proper pump operation and to prevent potential severe personal injuries.

Operate with caution: This pump and sand filter system operates simply by plugging in to turn on, and power starts immediately. To turn it off, simply unplug, and power is cut off immediately.

O NOTE

This pump and sand filter system is designed to work seamlessly with a Swimming Pool Outdoor Programmable Timer outlet, enhancing control and efficiency. Highly recommend using such a timer for optimized performance.

PRIMING THE PUMP

- To begin, fill the strainer housing with water up to the level of the suction pipe. If any water leakage is observed from the pump or filter, DO NOT start the pump. In such cases, it is essential to address the leakage issue before proceeding.
- If no leakage occurs, you may proceed to start the pump. However, ensure that you stand at least 10 feet away from the pump and/or filter after starting it.

Before operating the pump, ensure it has been properly primed as water is essential for cooling and lubricating the seal.

NEVER OPERATE THE PUMP WITHOUT WATER. Water cools and lubricates the mechanical shaft seal. Running the pump dry can damage the seals, causing leaks, flooding, and voiding the warranty.

Before removing the strainer cover, follow these steps:

- STOP the pump before proceeding.
- CLOSE the valves in the suction and outlet pipes.
- RELEASE ALL PRESSURE from the pump and piping system.
- After removing the strainer cover, fill the strainer housing with water.
- If necessary, clean and lubricate the strainer cover O-ring with silicone based lubricant.
- · Replace the strainer cover on the strainer housing.
- OPEN the suction and outlet pipe valves.
- Refill basket with water.

O NOTE

Avoid installing 90° elbows directly into the pump inlet or outlet. This will help maintain efficient pump operation.

Primng Instructions:

- Confirm that all connections are secure.
- Clean the pool thoroughly before filling to avoid damage to the pump and filter from excessive dirt and large particles.



- Ensure all suction and discharge valves are fully open before starting the system.
- Failure to do so could result in severe personal injury.
- Before starting the pump, make sure the filter vessel is filled with water.
- Starting the pump without water may cause damage to the pump.



Primng Instructions: (Continued)

- Open all pool suction and WASTE lines for free water flow to the WASTE line. Press down and turn the top mount valve handle to the "BACKWASH" position.
- Inspect the valve clamp for proper tightness.
- Prime and activate the pump to fill the filter tank with water.
- Observe the WASTE line for a steady flow of water. Operate the pump for a minimum of 2 minutes or until the backwash water runs clear, to eliminate impurities and fine sand particles from the media.
- Switch off the pump and adjust the valve to the "RINSE" position. Confirm that all pool suction and WASTE lines are open for unrestricted water flow. Avoid running the sand filter dry. Maintain a safe distance from the filter and start the pump.
- Continue running the pump for at least two minutes.
- Turn off the pump and switch the valve to the "FILTRATION" position. Check that all pool suction and RETURN lines are open, ensuring free water circulation to and from the pool. Keep clear of the filter and initiate the pump.
- The filter will begin its filtering cycle. Verify that water is circulating back into the pool and record the operating pressure with a clean filter.
- Inspect the system for leaks. In case of a leak, turn off the pump before addressing it.
- Monitor the filter pressure as it cleans the pool water. When the pressure gauge shows a 5-10 PSI (0.34-0.69 BAR, this value may change based on the pool's pump and piping) increase over the initial clean filter reading, initiate the BACKWASH cycle for the filter.

AFTER PRIMING THE PUMP

- Once the pump is primed, turn it on and open all suction and discharge line valves.
- Allow time for the pump to expel air from the suction lines.
- If there's no water flow within five minutes, stop the pump and re-prime it.
- Check for air leaks and refer to the Troubleshooting section if the pump isn't working correctly.

Checking for Air Bubbles:

- After running the pump for about ten minutes, check the return fittings for air bubbles.
- Continuous air bubbles may indicate a leak in the suction line; fix leaks promptly to avoid further problems.

Controlling Output:

- Keep the gate valve in the suction line fully open while the pump is running.
- To adjust the output, if necessary, use a valve on the return line.

Never operate the pump with closed suction or discharge valves.

VALVE FUNCTIONS

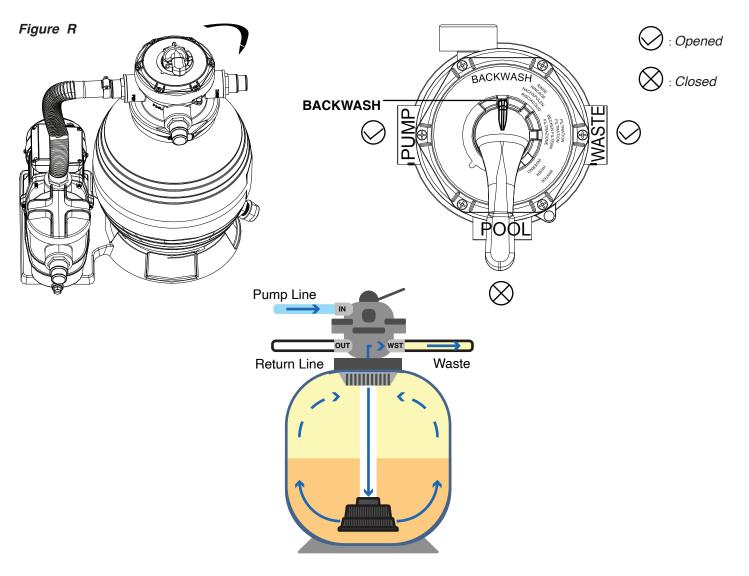


Never operate the pump without water.

BACKWASH (Initial Run)

Use this setting to clean the filter. When the filter pressure gauge rises 5-10 PSI (0.0.34-0.69 BAR, this reading may vary depending on the pool's pump and general piping system) above the start-up clean pressure.

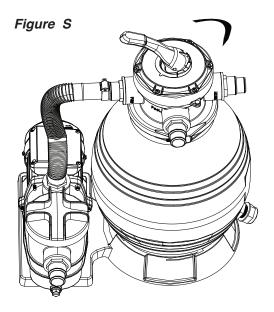
- Turn off the pump and set the valve to the "BACKWASH" position.
- Start the pump and backwash until the water in the sight glass is clear. This usually takes about 2 minutes or less, depending on the amount of dirt accumulated, and then turn off the pump. Proceed to "RINSE".

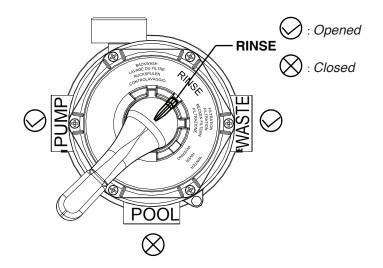


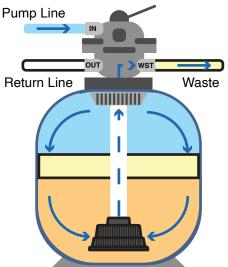
RINSE (Initial Run)

This ensures that all the dirty water from backwashing is rinsed out of the filter and goes to waste, preventing possible return to the pool.

- After backwashing, keep the pump off and set the valve to "RINSE" position and start the pump for about 0.5 to 1 minute.
- During rinsing, discharge water through the drain pipe. After sufficient rinsing, stop the pump, set the valve to "FILTRATION", and start the pump for normal filtering.





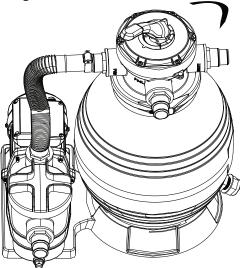


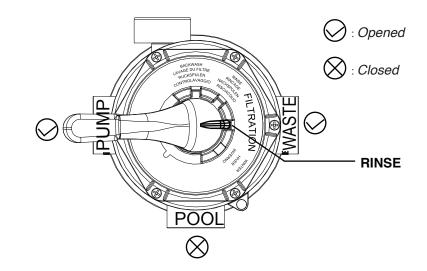
FILTRATION (Regular Operation)

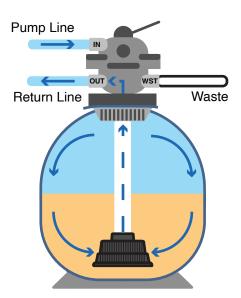
For normal filtering and regular vacuuming.

- Turn off the pump. Set the valve to the "FILTRATION" position for regular pool filtration. Then, start the pump.
- Occasionally check the pressure gauge to ensure pressure remains within the normal range 5-10 PSI (0.0.34-0.69 BAR), this reading may vary depending on the pool's pump and general piping system.
- After sufficient filtration, turn off the pump.

Figure T

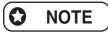






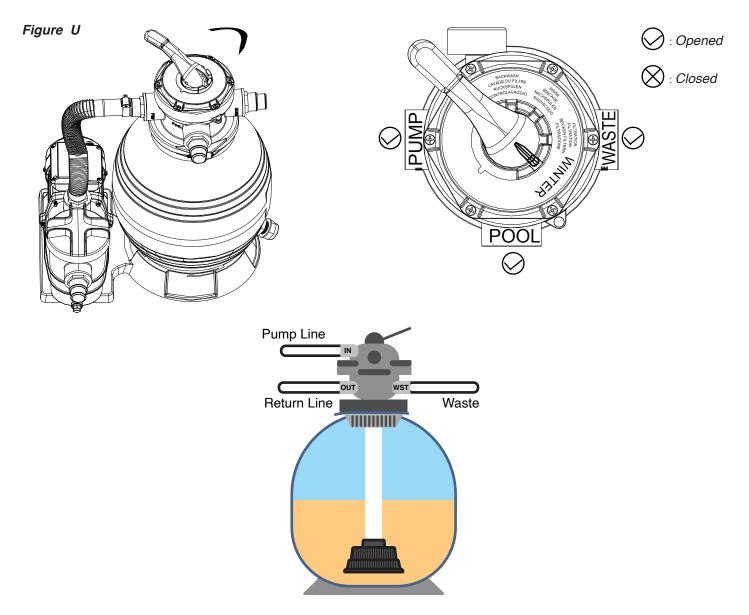
WINTER (For Winterizing)

Separate bonding surfaces to prevent freezing damage.



Clearing out all residual water will reduce the risk of freeze damage.

- Setting the Valve for Winterization
 - With the pump remaining off, set the valve to the "WINTER" position to open all ports to prevent residual water inside the machine from freezing and causing damage.



WINTER (For Winterizing) (Continued)

Before attempting any corrective actions, ensure that the pump is in the OFF position. To avoid any potential electrical hazards, wait until the remaining power in the capacitor is fully discharged before proceeding with any work on the pump.

- Storing Pump for Winterization
 - Turn off the power for the pump.
 - Drain Water.
 - For Sand Filter
 - Turn the valve to "BACKWASH" for 3 to 5 minutes.
 - Set the valve to "WINTER" position.
 - For Cotton Ball Filter
 - Turn off the pool pump power.
 - Locate and open the drain valve at the bottom of the filter tank.
 - Allow the water to drain from the filter.
 - Close the drain valve once draining is complete.
 - Set the valve to "WINTER" position.
 - Cover the motor to shield it from severe rain, snow, and ice.
 - Avoid wrapping the motor in plastic, as it can lead to condensation and rust on the inside of the motor.

TROUBLESHOOTING

DANGER Turn the pump OFF and disconnect the power source before any corrective work. Wait for the pump's capacitor to discharge completely to prevent electrical hazards.

ISSUE	CAUSE	CORRECTIVE ACTION
	Improper or loose wiring connections; open switches or relays	Check all connections
	Tripped circuit breakers	Reset tripped breakers
Down West's Obout	Blown fuses.	Replace blown fuses in the Circuit Breakers (Applies to older homes)
Pump Won't Start	Mechanical binding and electrical overload	Manually check rotation of motor shaft for free movement with no obstruction
	Using a pump timer	If using a pump timer try overriding, it to ensure the pump is receiving power. Also check the rocker switch on the back of the pump to confirm the power is on either high or low speed so that the timer can turn the pump on and off to the set speed
	Undersized wiring	Contact qualified professional to check that the wiring gauge is heavy enough. The wiring should be at least AWG14
	Loose connections	Check all connections
Pump Starts then	Low voltage at motor or power drop (frequently caused by undersized wiring or extension cord use)	Contact qualified professional to check that the wiring gauge is heavy enough. The wiring should be at least AWG14
Stops	Overheating	The pump shouldn't be running for more than 8 hours a day. Ensure that it is either well shaded or run during the cooler times of the day to prevent the bearings from drying out quickly.
	Mechanical binding	Manually check rotation of motor shaft for free movement with no obstruction
	Electrical overload	Ensure proper grounding and wiring voltage.

ISSUE	CAUSE	CORRECTIVE ACTION
	Incorrect Voltage	Check input voltage and wiring connection
	Incorrect Wiring	Check wiring connections
	Mechanical binding	Manually check rotation of motor shaft for free movement with no obstruction
Pump Hums but will Not Start	Pump Ran Dry	Ensure that the pump is properly primed before its first use. Also, check for any leaks at the connections or in your pipes. The pump basket should always be full while the pump is running;
	Capacitor failure	Have the capacitor tested by a pool pump repair company.
	Pump Ran Dry	Ensure that the pump is properly primed before its first use. Also, check for any leaks at the connections or in your pipes. The pump basket should always be full while the pump is running; any loss of water in the basket while running or when the pump turns off indicates a leak somewhere. A backflow device can be installed in the suction line of the pool pipes if needed.
Pump Won't Prime	Empty pump/strainer housing.	Make sure pump/strainer housing is filled with water and cover O-ring is clean. Ensure O-ring is properly seated in the cover O-ring groove. Ensure O-ring is lubricated, and that strainer cover is locked firmly in position. Lubricant will help to create a tighter seal. Lubricant will help to create a tighter seal. Fill with water and observe carefully to check for any leaks.
	Loose connections on suction side and/or outlet side.	Tighten pipe/union connections. (Any self-priming pump will not prime if there are suction air leaks. Leaks will result in bubbles emanating from return fittings on the pool wall or in the strainer basket.)
	Leaking O-ring or packing glands on valves.	Tighten, repair, or replace valves.
	Strainer basket or skimmer basket loaded with debris.	Remove strainer housing cover or skimmer cover, clean basket, and refill strainer housing with water. Tighten cover. (If strainer is equipped.)

ISSUE	CAUSE	CORRECTIVE ACTION		
		Contact a qualified repair professional.		
	Suction side clogged.	Block off the bottom port of the skimmer to determine if pump will develop a vacuum. You should have 5"- 6" of vacuum at the strainer cover (Only your Pool dealer can confirm this with a vacuum gauge).You may be able to check by removing the skimmer basket and holding your hand over the bottom port with skimmer full and pump running. If no suction is felt, check for line blockage. (If strainer is equipped.)		
Pump Won't Prime (Cont)		A. If pump develops a vacuum, check for blocked suction line. An air leak in the suction piping may be the cause.		
		 B. If pump does not develop a vacuum and pump has sufficient "priming water": 		
		 a. Re-check housing cover and all threaded connections for suction leaks. Disconnect from the breaker and check if all system hose clamps are tight. b. Check voltage to ensure that the motor is rotating at full RPM's. c. Open housing cover and check for clogging or obstruction in suction. Check impeller for debris. Remove and replace shaft seal only if it is leaking. 		
	Clogged or restricted pipe (line) and / or outlet line.	Contact a qualified repair professional.		
Low Flow	The pump's location is either too high above the pool water level and/or too far from the pool.	Make sure that the pump height and lines are not further than the manufacturer's recommended maximum distance.		
	Undersized pool piping.	Correct piping size.		
	Plugged or restricted discharge line of filter, valve partially closed (high gauge reading).	Sand filters – backwash as per manufacturer's instructions; D.E. filters – backwash as per manufacturer's instructions; Cartridge filters – clean or replace cartridge.		

ISSUE	CAUSE	CORRECTIVE ACTION
Low Flow	Air leak in suction (bubbles issuing from return fittings).	Re-tighten using Teflon tape.
(Cont)	Plugged, restricted, or damaged impeller.	Contact a qualified repair professional. Clear blockage and replace the impeller seal.
	Air leak in suction piping, cavitation caused by restricted or undersized suction line or leak at any joint, low water level in pool, and unrestricted discharge return lines.	Correct suction condition or throttle return lines, if practical. Holding hand over return fitting will sometimes prove this point or putting in a smaller eyeball fitting.
	Vibration due to improper mounting, etc.	Mount the pump on a level surface and secure the pump to the equipment pad.
Noisy Pump	Foreign matter in pump housing. Loose stones/debris hitting impeller could be cause.	Clean the pump housing.
	Squealing sounds that are getting louder over time	Bearings may become noisy over time if not properly maintained. They can be re-greased and should be done with regular pump maintenance, depending on usage. Check for leaks in the seals that may allow water, including chemicals, to work into the bearing ring and wipe out the grease. Any leaking seals should be replaced at once.
	Pipe blockage.	Check that all the pipe valves are in the open position.
High Pressure Reading	Pump blockage.	Check if there is any debris blocking inside of the pump.
	The filter cotton is hardened due to the excessive dirt inside the filter.	Run the pump in BACKWASH for 10 minutes
Water Leakage (Filter Tank's Locking Ring Area)	Pipe blockage.	Check if the locking ring screws are tightened, and if there are any foreign objects inside the locking ring position.

ISSUE	CAUSE	CORRECTIVE ACTION
Water Leakage (Inlet, Outlet, and Drainage Port)	The damaged o-ring installed.	Adjust or replace the o-ring.
	The locking ring is not properly installed.	Tighten the screws of the locking ring to ensure proper installation.
Water Discharging (From The Drain- age Port During Filtration)	The sealing ring of the 4-way valve is damaged.	Replace with a new valve.

MAINTENANCE

MAINTENANCE

PUMP MAINTENANCE

Always ensure the power to the pump is disconnected before starting any work.

- Motors are designed to be self-lubricating, eliminating the need for additional lubrication.
- Check the motor for any blockage of air vents on the motor shell. If any debris is found, remove it after turning off the power source.
- If any leakage is noticed, inspect the shaft seals, and replace them if they show signs of wear.

Pump Protection

- Protection from heat:
 - Shield the motor from direct sunlight by providing shade.
 - Ensure any enclosure used is well-ventilated to prevent overheating.
 - Promote ample cross ventilation to keep the motor cool.
- Protection against dirt:
 - Safeguard the motor from any foreign matter or splashing water.
 - Avoid storing pool chemicals near the motor to prevent potential damage.
 - Refrain from sweeping or stirring up dust near the motor while it's in operation.
 - Remember that motor damage caused by dirt will void the motor warranty.
- Protection against moisture:
 - Shield the motor from splashing pool water and lawn sprinklers.
 - Keep it protected from harsh weather conditions.
 - If the motor gets wet, allow it to dry completely before operating it again. Avoid using the pump if it has been flooded.
 - Note that water damage to the motor will void the motor warranty.

Never wrap the motor with plastic or any other airtight materials. While it's acceptable to cover the motor during a storm or for winter storage, it should never be covered while it is operating or expected to be in operation.

When replacing the motor, ensure that the motor support is correctly positioned to adequately support the size of the motor being installed.

MAINTENANCE

WATER CHEMISTRY

Maintaining proper water chemistry is essential for clean, sanitary water and to control algae growth in the pool or spa.

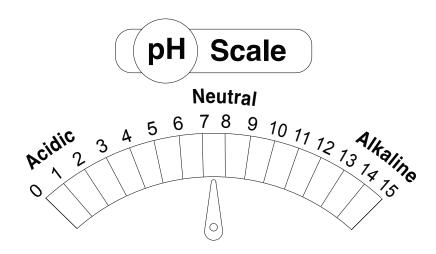
Chlorine

Use dry or liquid chlorine (calcium or sodium hypochlorite) daily to ensure clean and sanitary water. Chlorine dissipates due to dirt, germs, sunlight, and wind exposure.

pH Level

Maintain the correct level of acidity or alkalinity in the pool water. Desirable range: 7.2 - 7.4

Figure V

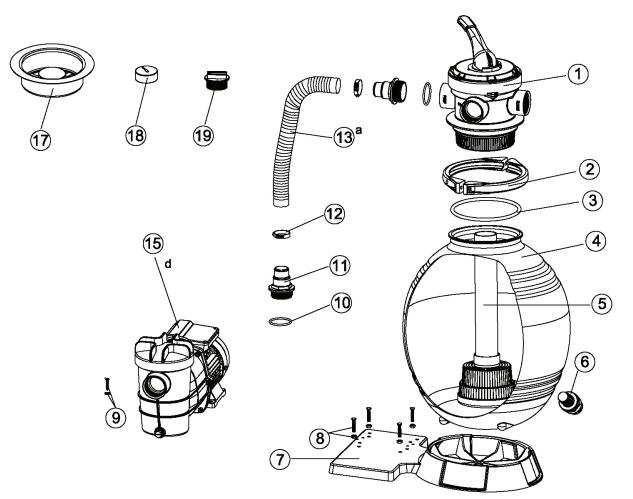


REPLACEMENT PARTS

REPLACEMENT PARTS

PARTS DIAGRAM

Pump and Sand Filter System



ITEM	PARTS NO.	DESCRIPTION	QTY
1	647303071001	4-WAY VALVE	1
2	647303076	FLANGE CLAMP	1
3	65431041080	O-RING	1
4	647303013931	FILTER TANK	1
5	647303074	FILTER ASSEMBLY	1
6	647303075	DRAIN PLUG	1
7	647303012	PUMP & TANK BASE	1
8	647201273000	SCREW M6X25 & NUT M6	4
9	647202272000	SCREW ST5.5X30 & NUT Ф16XФ6.5X1	2

ITEM	PARTS NO.	DESCRIPTION	QTY
10	65431021080	O-RING	5
11	647303014	HOSE ADAPTOR	5
12	97208	HOSE CLAMP	1
13a	65749014011	1 1/" (32MM)X45CM HOSE	1
15d	72715	0.75HP PUMP	1
17	65756006000	NECK FITTING	1
18	97202	PRESSURE GAUGE	1
19	91215	PLUG W/O-RING 1 1/2MIP	1

DISCLAIMER

DISCLAIMER PLEASE READ THE FOLLOWING CAREFULLY

The manufacturer and/or distributor have provided the parts list and assembly diagram in this manual for reference purposes only. They do not make any representation or warranty to the buyer that they are qualified to make repairs to the product or replace any parts of the product. In fact, the manufacturer and/or distributor expressly state that all repairs and parts replacements should be undertaken by certified and licensed technicians, and not by the buyer.

The buyer assumes all risk and liability arising from their repairs to the original product or replacement parts or arising from their installation of replacement parts. It is strongly advised that qualified professionals handle any repairs or replacements to ensure safety and proper functioning of the product. Improper installation and operation may result in injury, property damage, or voiding of warranty. The manufacturer and/or distributor shall not be held responsible for any accidents, damages, or malfunctions resulting from the buyer's installation and operation of the product. It is essential to follow all safety guidelines and recommendations provided in this manual and to seek professional assistance if unsure about the installation or operation procedures.

CUSTOMER SERVICE

If you have any questions about ordering our pool pumps and replacement parts or pool products, please feel free to contact us using the following contact information:

Customer Service and Technical Support

Phone: (909) 628-0880 Email: customer@xtremepowerusa.com Hours of Operation: Monday – Friday, 9AM – 4PM (CST)