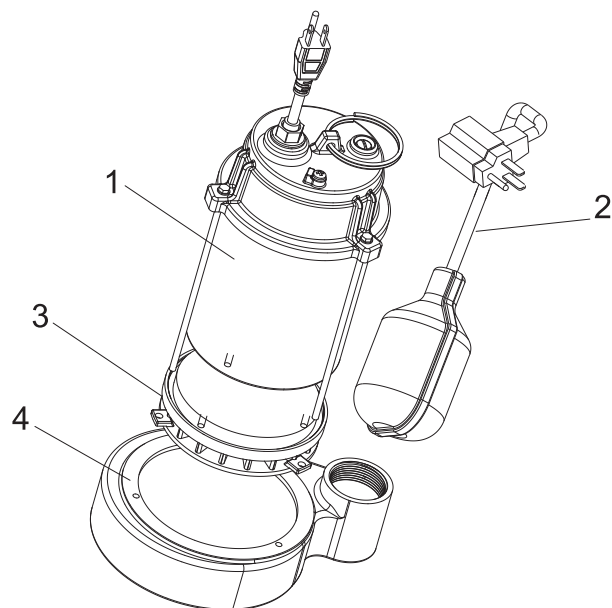


PARTS DIAGRAM



PARTS LIST

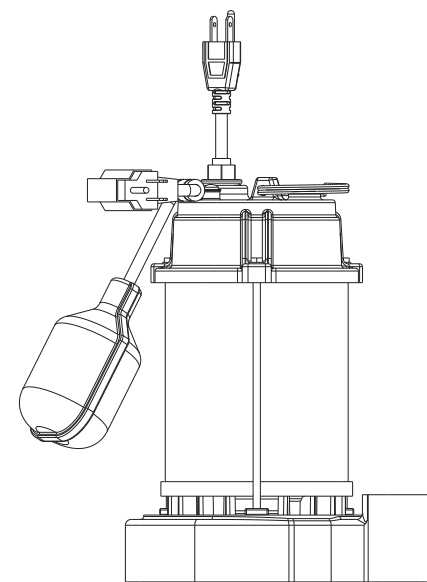
Part No	Description
1	Motor house
2	Piggy-back float switch
3	Impeller
4	Pump base

AQUASTRONG™

Email:
service01@aquastrong.it

Web:
www.aquastrong.it

MANUAL DEL PROPRIETARIO
SUBMERSIBLE SUMP PUMP
Modelo:SES050 SES075



Model:SES050 SES075

▲ WARNING: Please read and fully comprehend all ASSEMBLY AND OPERATION INSTRUCTIONS before use. Failure to adhere to the safety guidelines and other fundamental safety measures may lead to severe personal injuries.

If you have any **INQUIRIES, ISSUES, MISSING COMPONENTS**, please contact our customer service department prior to returning the product to your retailer.

TECHNICAL SPECIFICATIONS

Model:SES050

Property	Specifications
Voltage	115V/60Hz
Horse Powe	1/2 HP
Amps	5A
Max.Head (ft.)	25ft
Max.Flow (GPH)	3830GPH
Discharge Size(in.)	1-1/2 in
Power cord length (ft.)	20 ft

PERFORMANCE

Model	GPH of water@Total Ft.Head				Max.Head
	5 ft	10 ft.	15 ft.	20 ft.	
SES050	3830	3750	3050	2250	25ft

TECHNICAL SPECIFICATIONS

Model:SES075

Property	Specifications
Voltage	115V/60Hz
Horse Powe	3/4 HP
Amps	7A
Max.Head (ft.)	30ft
Max.Flow (GPH)	4890
Discharge Size(in.)	1-1/2 in
Power cord length (ft.)	20 ft

PERFORMANCE

Model	GPH of water@Total Ft.Head				Max.Head
	5 ft	10 ft.	15 ft.	20 ft.	
SES075	4890	4360	4000	3450	30ft

SAFETY INFORMATION

⚠WARNING:

⦿ Do not pump flammable or explosive liquids such as oil, gasoline, kerosene, ethanol, etc. Avoid using this pump in the presence of flammable or explosive vapors. Using this pump with or near flammable liquids can lead to explosions or fires, resulting in severe personal injury and property damage. Always disconnect the pump from its power source before installation, inspection, maintenance, or repairs.

⦿ Avoid standing in water while the pump is connected.

⦿ Refrain from touching the pump housing while it is operational, as it may become hot and can cause serious skin burns.

⦿ Do not disassemble the motor housing. The motor has no user-serviceable internal components, and disassembling it may lead to oil leakage or hazardous electrical wiring issues.

⚠CAUTION:

⦿ This pump is specifically designed for home sump applications and is equipped with a 3-prong grounding-type power cord. The motor shaft's ball bearings require no lubrication.

⦿ Constructed from high-strength, corrosion-resistant materials, this pump will offer trouble-free service for an extended period when properly installed, maintained, and used. However, inadequate electrical power to the pump or obstructions caused by ice or debris may result in pump failure, potentially causing additional water damage. To minimize the risk of water damage due to pump failure, carefully review the manual and follow the pump troubleshooting instructions provided within.

Important Safety Information:

. This pump has not undergone testing or received approval for use in swimming pools or saltwater marine environments.

. Furthermore, it is not designed for continuous operation as a "fountain" or "waterfall" pump.

. Due to the oil-filled motor, it is imperative NOT to use this pump in water containing fish. This pump should be used exclusively for water pumping purposes.

. In terms of safety, the pump motor is equipped with an automatic resetting thermal protector. This protector will automatically shut off the pump if it overheats. Excessive reliance on this feature can cause damage to the pump and void the warranty.

. Once the thermal protector senses that the pump has cooled to a safe temperature, it will allow the pump to resume normal operation. It's important to be aware that if the pump remains plugged in, it may restart unexpectedly.

ADDITIONAL SAFETY PRECAUTIONS

1. Familiarize yourself with the pump's applications, limitations, and potential hazards.
2. Ensure that the electrical power source meets the pump's requirements.
3. ALWAYS disconnect the power supply to the pump before performing any servicing.
4. Release all pressure (drain all water) within the system before servicing any component.
5. Secure the discharge line before starting the pump. An unsecured discharge line may whip and could potentially cause personal injury or property damage.
6. Position the pump on a stable base to maintain its vertical orientation and keep it above mud and sand during operation. This will maximize pumping efficiency and prevent clogging and premature pump failure.
7. Verify that all pipe connections are securely tightened to minimize the risk of leaks.
8. Connect the pump DIRECTLY to a grounded GFCI outlet.
9. Avoid using extension cords, as they may not provide sufficient voltage to the pump motor. Damaged insulation or submerged connection ends can pose a life-threatening safety hazard.
10. Ensure that the electrical circuit supplying power to the pump is protected by a 15 Amp or larger fuse or circuit breaker.
11. Periodically inspect the pump and system components to ensure that the pump inlets are free from mud, sand, and debris. **ALWAYS DISCONNECT THE PUMP FROM THE POWER SUPPLY BEFORE INSPECTING.**
12. Wear safety glasses whenever working with pumps.
13. Adhere to all electrical and safety codes, including the National Electrical Code (NEC), and, in workplace settings, the Occupational Safety and Health Act (OSHA).
14. This unit is designed for use with 115 volts (single phase), 60 Hz power and is equipped with an approved 3-conductor cord and a 3-prong grounded plug. NEVER REMOVE THE GROUND PIN UNDER ANY CIRCUMSTANCES. The 3-prong plug must be directly inserted into a properly installed and grounded 3-prong, grounding-type receptacle. Do not use this pump with a 2-prong wall outlet. Replace the 2-prong outlet with a properly grounded 3-prong receptacle (a GFCI outlet) installed in accordance with the National Electrical Code and local codes and ordinances. All wiring should be performed by a qualified electrician.
15. Protect the electrical cord from sharp objects, hot surfaces, oil, and chemicals. Avoid kinking the cord, and do not use damaged or worn cords.

PREPARATION

⚠ WARNING: Always utilize the handle to lift the pump. Never employ the power cord for lifting the pump. To prevent skin burns, disconnect the power and allow the pump to cool down after prolonged use.

Estimated Assembly Time (For new installation): 30 minutes (or longer if setting up a new sump pit).

Materials Needed for Assembly (not included):

Flexible connector, check valve, PVC pipe, PVC elbow, thread tape, PVC purple primer, and PVC cement.

Tools Needed for Assembly (not included):

Wrench, Phillips screwdriver.

INSTALLATION INSTRUCTIONS

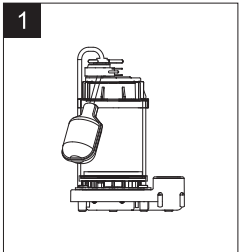
1. Minimum Sump Size:

.Vertical switch models: 12" (305mm) diameter by 12" (305mm) depth

.Tethered switch models: 18" (457mm) diameter by 18" (457mm) depth

.Construct the sump pit using tile, concrete, steel, or plastic materials, ensuring compliance with local building codes.

.Ensure no clay, earth, sand, or gravel is present in the sump, as they may clog the pump. Keep the pump inlet screen clear.



2. Install Discharge Plumbing and Check Valve:

.Use Teflon tape for sealing, not pipe joint cement.

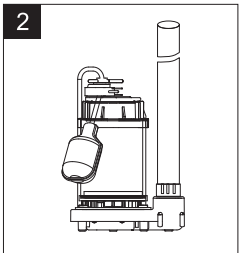
.Place the check valve in the vertical discharge pipe to prevent backflow when the pump shuts off.

.If the check valve lacks a 1/8" anti-airlock hole, drill one in the discharge pipe just below the valve. Ensure the flow direction is away from the pump (an arrow on the valve will indicate this).

.Hand-tighten the pipe into the pump and add 1-1/2 turns.

.To prevent air locking in the pump, drill a 1/8" (3.2mm) hole in the discharge pipe just above where it connects to the pump discharge. Place the check valve above this hole, close to the pump, ensuring it is below the waterline and beneath the check valve.

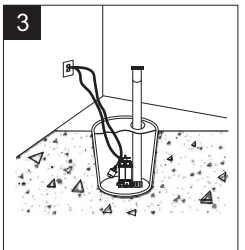
.To reduce noise and vibration, cut the discharge pipe near the pump and secure a short length of rubber hose (1-7/8" or 48mm I.D., e.g., radiator hose) with hose clamps.



3. Position the Pump in the Sump:

.Ensure no obstructions interfere with the switch operation.

⚠ CAUTION: Prevent the pump from moving within the sump. Movement may cause piping or sump wall interference, hindering the switch and potentially leading to pump malfunction and flood risk.



4.Complete Plumbing Installation:

.Follow the safety precautions and curing time provided in the pipe glue manufacturer's instructions.

5.Power Supply:

.This pump requires a dedicated 115V, 60Hz, 15-amp individual branch circuit that is properly grounded.

.The pump includes a 3-wire cord set with a grounding-type plug. Insert the switch plug directly into the outlet, then plug the pump into the back of the switch plug.

▲ CAUTION: To prevent the risk of electrical shock, always ensure that the pump is properly grounded to an appropriate electrical ground, such as a grounded metal water pipe, a correctly grounded metallic raceway, or a ground wire system. Do not remove or tamper with the round ground pin on the pump or switch plugs.

6. Verify Pump Operation:

Test the pump's functionality by filling the sump with water and observing the pump's operation throughout one complete cycle.

▲ CAUTION: Failure to perform this operational check may result in improper operation, premature failure, and potential flooding.

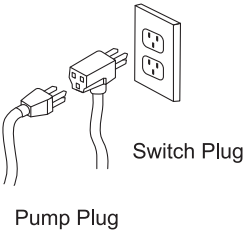
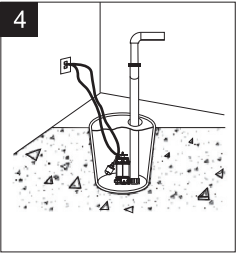
▲ WARNING:Inspect Work Area: Before each use, thoroughly inspect the work area. Ensure it is clean, dry, free of clutter, and well-lit. Cluttered, damp, or poorly illuminated workspaces can lead to injuries. When using the tool in confined spaces, exercise caution as you may be in close proximity to other cutting tools and rotating components.

.Check for Damaged Parts: Prior to each use, carefully examine the pump to ensure proper operation and functionality. Promptly replace any damaged or worn-out components. Never operate the pump if any part is damaged.

.Avoid Flammable Environments: Do not use the pump in areas where there is a risk of fire or explosion, such as in the presence of flammable liquids, gases, or dust. The tool can generate sparks that may ignite dust or fumes.

.Keep the Area Clear: While operating the pump, keep children and bystanders away from the work area. Do not permit children to handle the pump.

.Beware of Hazards: Remain vigilant regarding power lines, electrical circuits, water pipes, and other potential mechanical hazards within your work area. Some of these dangers may be concealed below the work surface and not immediately visible. Accidental contact with these hazards could lead to personal injury or property damage.



TROUBLESHOOTING

▲ CAUTION: Avoid disassembling the motor housing. This motor contains no serviceable internal components, and attempting disassembly may result in oil leakage or hazardous electrical wiring problems.

Problem	Possible Cause	Corrective Action
Pump does not start or run	1.Blown fuse 2.Tripped circuit breaker 3.Disconnected plug 4.Corroded plug 5.Thermal overload 6.Motor malfunction	1.Replace the fuse. 2.Reset the circuit breaker. 3.Ensure the plug is securely connected. 4.Clean the plug prongs. 5.Disconnect the pump from the power source for 30 minutes, then reconnect. 6.Reach out to our customer service for a replacement.
Pump operates but pumps little or no water	1.Pump screen or screen cover obstructed. 2.Impeller loose on the shaft. 3.Damaged impeller. 4.Loose pipe or hose.	1.Clean the screen. 2.Reassemble the impeller. 3.Get in touch with our customer service for a replacement. 4.Ensure the pipe or hose is properly secured.