

Water Pumps

for Portable Sinks



Model:

#600PHSPUMP

Note:

Please read the manual thoroughly prior to equipment setup, operation, and maintenance.

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Performance

Item #	HP	GPH of Water @ Total Feet of Lift					Max. Lift
		0 ft.	10 ft.	20 ft.	30 ft.	42 ft.	
600PHSPUMP	1/10	320 GPH	280 GPH	190 GPH	90 GPH	0 GPH	42 ft.

Safety Instructions

1. Do not pump flammable or explosive liquids such as oil, gasoline, kerosene, ethanol, etc. Do not use in the presence of flammable or explosive vapors. Using this pump with or near flammable liquids can cause an explosion or fire, resulting in property damage, serious personal injury, and/or death.
2. ALWAYS disconnect the power to the pump before servicing.
3. Do not touch the motor housing during operation. The motor is designed to operate at high temperatures. Do not disassemble the motor housing.
4. Do not handle the pump or pump motor with wet hands or when standing on a wet or damp surface, or in water before disconnecting the power.
5. Release all pressure and drain all water from the system before servicing any component.
6. Secure the discharge line before starting the pump. An unsecured discharge line will whip, possibly causing personal injury, and/or property damage.
7. Extension cords may not deliver sufficient voltage to the pump motor. Extension cords present a life threatening safety hazard if the insulation becomes damaged or the connection ends fall into water. The use of an extension cord to power this pump is not permitted.
8. Wear safety goggles at all times when working with pumps.

9. This unit is designed only for use on 115 volts (single phase), 60 Hz, and is equipped with an approved 3 conductor cord and 3 prong grounded plug. Do not 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.
10. Protect the electrical cord from sharp objects, hot surfaces, oil, and chemicals. Avoid kinking the cord. Do not use damaged or worn cords.
11. Failure to comply with the instruction and designed operation of this unit may void the warranty. ATTEMPTING TO USE A DAMAGED PUMP can result in property damage, serious personal injury, and/or death.
12. Ensure that the electrical circuit to the pump is protected by a 5 amp minimum (15 amp max.) fuse or circuit breaker.
13. Do not lift the pump by the power cord.
14. Know the pump and its applications, limitations, and potential hazards.
15. Periodically inspect the pump and system components to ensure the pump suction screen is free of mud, sand, and debris. Disconnect the pump from the power supply before inspecting.
16. Follow all local electrical and safety codes, along with the National Electrical Code (NEC). In addition, all Occupational Safety and Health Administration (OSHA) guidelines must be followed.
17. The motor of this pump has a thermal protector that will trip if the motor becomes too hot. The protector will reset itself once the motor cools down and an acceptable temperature has been reached. The pump may start unexpectedly if it is plugged in.
18. Ensure the electrical power source is adequate for the requirements of the pump.
19. Before using the pump, check the hose for holes or excess wear, which could cause leaks, and ensure the hose is not kinked or making sharp angles. A straight hose allows the pump to move the greatest amount of water quickly, and also check that all hose connections are tight to minimize leaks.
20. This pump is made of high-strength, corrosion-resistant materials. It will provide trouble-free service for a long time when properly installed, maintained, and used. However, inadequate electrical power to the pump, dirt, or debris may cause the pump to fail. Please carefully read the manual and follow the instructions regarding common pump problems and remedies.

Pre-Installation

Application

This pump is designed for operating portable hand washing stations by transferring clean water from storage tanks to the sink faucet.

Specifications

Power Supply	115V • 60 Hz
Liquid Temperature Range	32–95°F
Discharge Connection	¾" Garden Hose Thread Connection ½" NPT adaptor included to connect to your water heater or faucet
Power Cord	SJTW, 18AWG/3C, 6 ft.

Installation

The pump must be installed in a stationary position with either:

- A fixed pipeline
- A flexible hose

NOTE: Do not allow the pump to hang suspended by the power cord, inlet pipe, or hose. The pump must be set on a stable surface or suspended from the handle. To ensure that the pump works properly, keep the intake area free from sludge and dirt of all kinds.

Power Supply

WARNING: To prevent death from electric shock, pump must be connected only to a GFCI protected outlet.

WARNING: If the power cord or plug is damaged, do not use the pump. The power cord or plug may only be repaired by a certified electrician.

1. The pump is equipped with a shock-proof plug according to regulations. The pump is designed to be connected to 120 VAC, 60 Hz GFCI protected socket.
2. Make sure that the socket is sufficiently secured and is in excellent condition.

Areas of Use

1. This pump is designed to pump clear water only.
2. This pump should be used for transferring clean water within the portable hand washing station.

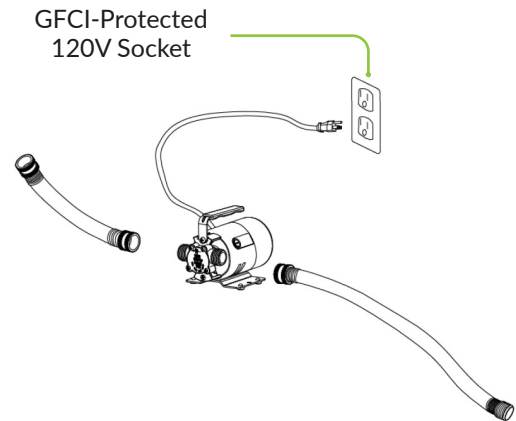
Installation Instructions

1. Attach hose to pump intake port. Attach second hose to pump discharge port.
2. Position pump on solid surface so that both hoses are free from kinks.
3. Place unused end of intake hose in water to be transferred. Place unused end of discharge hose as needed to direct the water discharge at least 3 feet away from the source.

Operation

After reading these instructions, consider the following points before starting the pump:

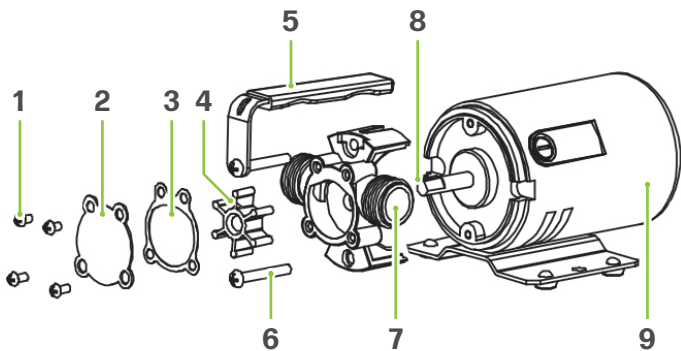
1. Verify that the discharge pipe is properly connected.
2. Verify that the electrical connection is 120 VAC, 60 Hz.
3. Verify that the electrical socket is GFCI protected and in good condition.
4. Test GFCI protected outlet before use.
5. Verify that water and moisture cannot get near the power supply socket.
6. Verify that the pump is installed so as to prevent running dry.
7. Once plugged in, the pump will continue pumping until it is unplugged.



Care & Cleaning

NOTE: Do not disassemble the motor housing. This motor has NO repairable internal parts, and disassembly may cause leakage or dangerous electrical wiring issues.

NOTE: Do not lift up the pump by the power cord.



Item	Description	Qty
1	Screw	4
2	Impeller Cover	1
3	Gasket	1
4	Impeller	1
5	Handle	1
6	Screw	2
7	Pump Body	1
8	Shaft	1
9	Motor	1

If the Pump is Not Running Properly

1. Remove the Impeller Cover Screws (1).
2. Remove the Impeller Cover (2).
3. Inspect the Gasket (3) and Impeller (4). If the Impeller wears out, replace it. The brushes could run up to 200 hours. If the brushes have been worn off, replace the brush.
4. The brush must enter the square hole. Match the Brush curve to the armature curve.

Troubleshooting

Problem	Possible Cause	Corrective Action
The pump does not start or run	The fuse is blown	Replace the fuse
	The breaker is tripped	Reset the breaker
	The plug is disconnected	Secure the plug
	The plug is corroded	Clean the plug prongs
	The brushes are worn	Replace the brushes
	The motor is overheated	Unplug from power and wait for 30 minutes, then plug power cord back in
The pump does not prime	The suction line is leaking air	Repair the suction line by tightening hose connection or replacing hose washer if necessary
	The impeller is clogged	Remove the blockage
	The impeller is worn or damaged	Replace the impeller
	The impeller is dry	Add water to the pump inlet
The flow rate is too low	The hose is kinked or coiled	Straighten the hose
	The strainer or hose is blocked	Clean the strainer or hose
	The discharge hose is too long	Shorten the hose (50 ft. max.)
	The impeller is worn	Replace the impeller