



P U M P

OPERATION, PERFORMANCE,
SPECIFICATIONS and
PARTS MANUAL

Pool And Spa Utility Pumps

- Thank you for purchasing this pump. Take the time to read the instructions carefully before using this product. We strongly recommend that you keep this instruction manual in a safe place for future reference.
- Please refer to our website and the Products Center for additional installation and operation instructions and replacement parts information.

MARKS AND MEANING:

⚠ DANGER "Danger" indicates an imminent hazardous situation which, if not avoided, WILL result in death or serious injury.

⚠ WARNING "Warning" indicates an imminent hazardous situation which, if not avoided, MAY result in death or serious injury.

⚠ CAUTION "Caution" indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate injury.





Pool and Spa Utility Pumps General Safety


Important Safety Instructions


Carefully read and follow all safety


instructions in this manual and on pump. SAVE THESE INSTRUCTIONS – This manual contains important instructions that should be followed during installation, operation, and maintenance of the product.


Save this manual for future reference.

Safety Labels

 This is the safety alert symbol. When you see this symbol on your pump or in this manual, look for one of the following signal words and be alert to the potential for personal injury!

 **DANGER** Indicates a hazard which, if not avoided, will result in death or serious injury.


 **WARNING** Indicates a hazard which, if not avoided, could result in death or serious injury.


 **CAUTION** Indicates a hazard which, if not avoided, could result in minor or moderate injury.


NOTICE indicates practices not related to personal injury.


Keep safety labels in good condition. Replace missing or damaged safety labels.


General Safety

 **DANGER** Risk of electrical shock. Disconnect and lockout power supply before removing old pump or installing or servicing this pump

 **DANGER** Risk of electrical shock. This pump is supplied with a grounding conductor and grounding type attachment plug. To reduce the risk of electrical shock, be certain that it is connected only to a properly grounded, grounding type receptacle. For added safety, it is highly recommended to connect this pump to a GFCI (Ground Fault Circuit Interrupter) outlet

 **WARNING** The installation of this pump must be in accordance with the National Electrical Code (NEC), Uniform Plumbing Code (UPC), International Plumbing Code (IPC) as well as all applicable local codes and ordinances.

 **CAUTION** Do not install this pump in any location classified as hazardous by the National Electrical Code, ANSI/NFPA70.

 **CAUTION** Do not use this pump to pump flammable or explosive fluids such as gasoline, kerosene, etc. Do not use this pump in flammable or explosive environments. Use only with liquids compatible with pump component materials



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Pool and Spa Utility Pumps General Safety

⚠ WARNING Risk of electrical shock. This pump has not been investigated for use in swimming pool or marine areas.

⚠ WARNING Risk of electrical shock. **NO NOT** use the power cord to install or carry the pump. Always use the handle. The cord may pull apart exposing bare wires which could cause a fire or electrical chock. Use the handle supplied with the pump for installing and transporting the pump.

⚠ WARNING Do not run pump dry. this pump relies on water for cooling. Running the pump dry can cause the pump to overheat and the possibility of burns to anyone that handles the pump. Running the pump dry will void the warranty.

⚠ WARNING Make certain that the electrical outlet is within the reach of the power supply cord. **DO NOT USE AN EXTENSION CORD.** Extension cords that are too long or too light do not deliver sufficient voltage to the pump motor. More importantly, they present a safety hazard if the insulation were to become damaged or the connection end were to fall into the water.

⚠ CAUTION This pump motor is equipped with an automatic resetting thermal protector and may restart unexpectedly.

⚠ WARNING Do not use this pump for potable/drinking water. Use only in applications for which the pump is designed for.

⚠ WARNING According to the state of California (Prop65), this product contains chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.

⚠ WARNING Keep hands clear of suction & discharge openings. To prevent injury, never insert fingers into pump while it is plugged in.

⚠ WARNING Do not handle this pump with wet hands or while standing on wet or damp surfaces or in the water.

⚠ NOTICE This pump is not designed as a waterfall, pond or fountain pump. Use of this pump for waterfalls, ponds or fountains will void the warranty.



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Pool and Spa Utility Pumps Safety Information

Description

This non automatic submersible utility pump is designed to remove water from flooded basements, window wells, pools, hot tubs and stock tanks, etc. The permanent split capacitor motor is oil filled and hermetically sealed for cooler operation. The pump comes equipped with a 3-prong grounding type power cord.

Model	SSMD75	SSMD100	SSU50	SSU100
HP	3/4	1	1/2	1
Volts	120 Volt AC	120 Volt AC	120 Volt AC	120 Volt AC
Amps	11.5	13	8.5	12.5
Hz	60 Hz	60 Hz	60 Hz	60 Hz
Phase	1	1	1	1
Motor Duty	Continuous*	Continuous*	Continuous	Continuous
Circuit Requirements	15 Amp Minimum	15 Amp Minimum	15 Amp Minimum	15 Amp Minimum
Discharge Size	1-1/2" NPT	1-1/2" NPT	1-1/2" NPT	1-1/2" NPT
Max. Solids Handling	1/2" (12.7mm) Spherical	1/2" (12.7mm) Spherical	3/8" (9.5mm)	3/8" (9.5mm)
Max. Liquid Temperature	120°F (49°C)	120°F (49°C)	120°F (49°C)	120°F (49°C)
Cord Length	25' (7.62m)	25' (7.62m)	25' (7.62m)	25' (7.62m)
Min. Drain Diameter	8" (20.32cm)	8" (20.32cm)	N/A	N/A
Warranty	1 Year	1 Year	1 Year	1 Year
Pump Construction	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Impeller Material	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Motor Shaft	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Shaft Seal	Mechanical	Mechanical	Mechanical	Mechanical



Pool and Spa Utility Pumps Installation, Operation, Maintenance

Installation

1. Install the pump on a hard level surface in the water. If necessary, place bricks or patio blocks under the pump to raise it off the bottom. Do not place the pump directly in mud, sand or silt or on rocky surfaces as these materials can clog or cause damage to the pump.
2. Connect a hose to the pump discharge. Use either the supplied garden hose adapter or other hose fitting (sold separately). Choose the best size hose or pipe for your application. NOTE: to keep friction loss as low as possible, do not use a hose that is smaller than 3/4"

Operation

1. Connect the plug into a 120 volt AC grounded outlet. The use of the GFCI is strongly recommended.
2. The pump will start pumping in approximately 1" of water and will drain down to approximately 1/8"-1/4" of the surface.
3. Do not let the pump run dry. The pump depends on water for cooling lubrication. Operating the pump, without water may cause the motor to overheat or cause damage to the internal parts. It may also shorten the life of your pump.
4. The pump motor is thermally protected. It is not recommended for pumping liquids over 120°F (49°C). The thermal overload protector will automatically shut down the pump in an overheat/overload situation. The pump will reset itself once the pump cools down. This overload is designed as a safety device and it will fail after repeated use. Normal operation is for fluids between 32°F & 120° (0°C - 49°C).

Maintenance



Risk of electrical shock. Always disconnect the power supply before attempting to install, service or perform maintenance on the pump.



All repairs must be made by an authorized service center.



This submersible pump contains oil which may become pressurized and hot under normal operating conditions-allow the pump to cool for 2-3

hours before servicing.

1. The pump motor is hermetically sealed in the housing and does not require any service. Disassembly of the motor housing or modification of the power cord voids the warranty.
2. Periodically check the intake screen for obstructions. Clean if necessary.
3. Inspect the impeller for signs of wear and obstructions.
4. Inspect the power cord for signs of damage or wear. Do not operate the pump if cord is damaged or worn.

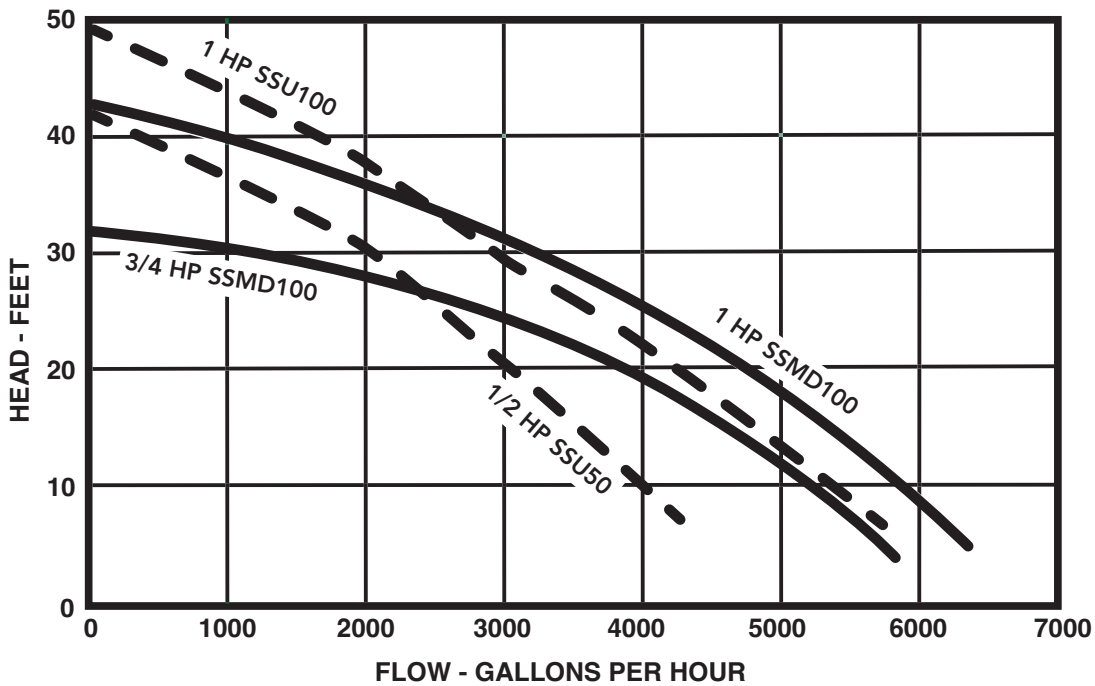


Pool and Spa Utility Pumps Performance

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Performances

Height, pipe diameter restriction and hose length will reduce the pump output performance. It is recommended to use the same size or larger pipe/hose as the pump discharge for optimum performance. The performance listed below were obtained by using 1-1/2" pipe. The use of a garden hose will reduce the output depending on size and length of hose used. To keep friction as low as possible, hose must be 3/4" or larger. Use the shortest length of hose possible for your application.



MODEL #		Discharge Height						
		0'	5'	10'	15'	20'	25'	30'
SSMD75	GPH	5580	5280	4800	4200	3720	2700	1260
SSMD100	GPH	6180	5940	5760	5220	4500	3780	3000
SSU50	GPH	4440	4200	3840	3420	3000	2520	1860
SSU100	GPH	5580	5460	5100	4680	4200	3600	3000



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Pool and Spa Utility Pumps Troubleshooting



Risk of electric shock. Always disconnect the power supply before attempting to install, service or perform maintenance on the pump.

<p>If the pump does not start or run</p>	<p>Pump is not plugged in, switch or breaker is off</p> <p>Check for blown fuses or tripped circuit breakers or tripped GFCI outlets</p> <p>Motor thermal protector tripped</p>	<p>Plug pump in or turn on switch/breaker</p> <p>Replace fuse, reset breaker, reset GFCI outlet</p> <p>Allow pump to cool. Pump will automatically reset.</p>
<p>If the pump runs but moves little or no water</p>	<p>Closed intake screen</p>	<p>Clean screen</p>
	<p>Closed discharge hose/pipe</p>	<p>Remove clog</p>
	<p>Impeller obstructed</p>	<p>Remove obstruction/debris</p>
	<p>Frozen discharge hose/pipe</p>	<p>Allow hose/pipe to thaw</p>
	<p>Pump is airlocked</p>	<p>Clean out airlock hole with a paper clip or pipecleaner</p>
	<p>Low line voltage</p>	<p>Check wire size and increase if necessary</p>
	<p>Worn, damaged or clogged pump parts</p>	<p>Inspect for Wear, damage or clog and clean or replace if necessary</p>
	<p>Discharge head exceeds pump capacity</p>	<p>If pump height is over 38', the pump will not move water. See performance chart</p>



Pool and Spa Utility Pumps Warranty

Retain Original Purchase Receipt for Warranty Eligibility

Limited Warranty

Manufacturer warrants to the original consumer purchaser ("Purchaser" or "You") that its products are free from defects in material and workmanship for a period of twelve (12) months from the date of the original consumer purchase. If, within twelve (12) months from the original consumer purchase, any such product shall prove to be defective, it shall be repaired or replaced at manufacturer's option, subject to the terms and conditions set forth herein. Note that this limited warranty applies to manufacturing defects only and not to ordinary wear and tear. All mechanical devices need periodic parts and service to perform well. This limited warranty does not cover repair when normal use has exhausted the life of a part or the equipment.

The original purchase receipt and product warranty information label are required to determine warranty eligibility. Eligibility is based on purchase date or original product – not the date of replacement under warranty. The warranty is limited to repair or replacement of original purchased product only, not replacement product (i.e. one warranty replacement allowed per purchase).

Purchaser pays all removal, installation, labor, shipping, and incidental charges.

Claims made under this warranty shall be made by returning the product to the retail outlet where it was purchased or to the factory immediately after the discovery or any alleged defect. Manufacturer will subsequently take corrective action as promptly as reasonably possible. No requests for service will be accepted if received more than 30 days after the warranty expires. Warranty is not transferable and does not apply to products used in commercial/rental applications.

General Terms and Conditions; Limitations of Remedies

You must pay all labor and shipping charges necessary to replace product covered by this warranty. This warranty does not apply to the following: (1) acts of God; (2) products which, in manufacturer's sole judgment, have been subject to negligence, abuse, accident, misapplication, tampering, or alteration; (3) failures due to improper installation, operation, maintenance or storage; (4) atypical or unapproved application, use or service; (5) failures caused by corrosion, rust or other foreign materials in the system, or operation at pressures in excess of recommended maximums.

This warranty sets forth manufacturer's sole obligation and purchaser's exclusive remedy for defective products. MANUFACTURER SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, OR CONTINGENT DAMAGES WHATSOEVER. THE FOREGOING LIMITED WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS AND IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE FOREGOING LIMITED WARRANTIES SHALL NOT EXTEND BEYOND THE DURATION PROVIDED HEREIN.

Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to You. This warranty gives You specific legal rights and You may also have other rights which vary from state to state.



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Honest, Professional, Dependable

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