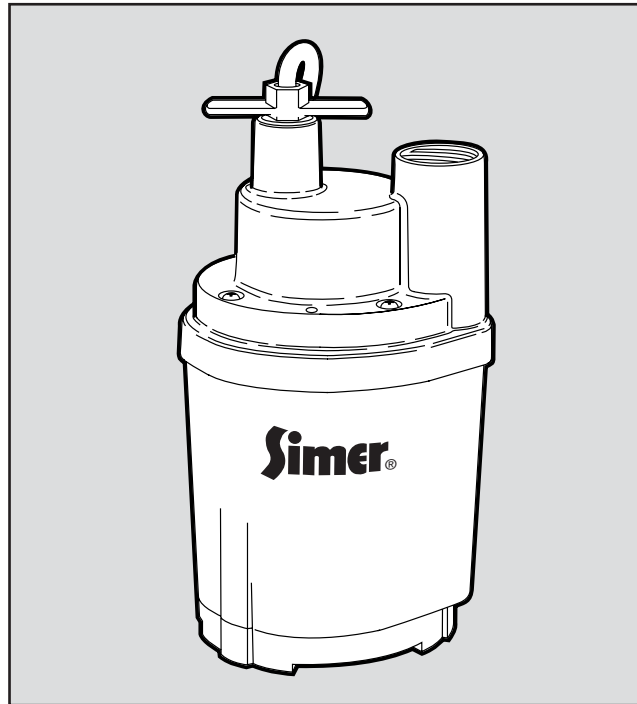




OWNER'S MANUAL
Smart Geyser™
Submersible Utility Pump

293 Wright St., Delavan, WI 53115
Phone: 1-800-468-7867
1-800-546-7867
Fax: 1-800-390-5351



MODEL 2330-03

Installation/Operation/Parts

*For further operating, installation,
or maintenance assistance:*

Call 1-800-468-7867

English Pages 2-4

GENERAL SAFETY

Electrically powered utility pumps normally give many years of trouble-free service when correctly installed, maintained, and used. However, unusual circumstances (interruption of power to the pump, dirt/debris, flooding that exceeds the pump’s capacity, electrical or mechanical failure in the pump, etc.) may prevent your pump from functioning normally. To prevent possible water damage due to flooding, consult your retailer about a secondary AC pump, a DC backup pump, and/or a high water alarm. See the “Troubleshooting Chart” in this manual for information about common pump problems and remedies. For more information, see your retailer or call Simer customer service at 1-800-468-7867.

1. Know the pump application, limitations, and potential hazards.

▲WARNING Do not use in explosive atmospheres. Pump water only with this pump. Failure to follow this warning can result in personal injury and/or property damage.

2. Make certain power source conforms to requirements of your equipment.
3. Disconnect power before servicing.
4. Release all pressure within system before servicing any component.
5. Drain all water from system before servicing.
6. Secure discharge line before starting pump. An unsecured discharge line will whip, possibly causing personal injury and/or property damage.
7. Check hoses for weak or worn condition before each use, making certain all connections are secure.
8. Periodically inspect pump and system components. Keep pump and system free of debris and foreign objects. Perform routine maintenance as required.
9. Provide means of pressure relief on pumps whose discharge line can be shut-off or obstructed.
10. Personal Safety:
 - a. Wear safety glasses at all times when working with pumps.
 - b. Keep work area clean, uncluttered and properly lighted – replace all unused tools and equipment.
 - c. Keep visitors at a safe distance from the work area.
 - d. Make workshop child-proof – with padlocks, master switches, and by removing starter keys.
11. When wiring an electrically driven pump, follow all electrical and safety codes, as well as most recent National Electrical Code (NEC) and Occupational Safety and Health Act (OSHA).

▲WARNING Pump motor is equipped with an automatic resetting thermal protector and may restart unexpectedly.

12. **▲WARNING** Risk of electric shock. This equipment is only for use on 115 volt (single phase) and is equipped with an approved 3-conductor cord and 3-prong, grounding-type plug.

▲WARNING To reduce risk of electric shock, be certain that it is connected to properly grounded, grounding-type receptacle.

Where a 2-prong wall receptacle is encountered, it must be replaced with properly grounded 3-prong receptacle installed in accordance with the National Electrical Code and local codes and ordinances.

13. All wiring should be performed by a qualified electrician.
14. Protect electrical cord from sharp objects, hot surfaces, oil, and chemicals. Avoid kinking cord. Replace or repair damaged or worn cords immediately.
15. Use wire of adequate size to minimize voltage drop at motor. Refer to most recent National Electrical Code.
16. Do not touch an operating motor. Modern motors can operate at high temperatures.

SPECIFICATIONS

Power supply required115V, 60 HZ.
 Motor dutyContinuous
 Liquid Temp. RangeMax. 77°F (25°C)
 Operation PositionVertical
 Individual Branch Circuit Required15 Amp
 Operating Depth Beginning min.....3/4"
 (water level) Ending max.1/4"
 Discharge1" NPT (25 mm)

DESCRIPTION

The submersible pump is designed for water removal in home applications. Pump can be used for emergency service and dewatering. Unit is constructed of hi-impact corrosion resistant plastic. Screened inlet prevents large solids from entering pump.

NOTICE: This unit is not designed for applications involving salt water or brine! Use with salt water or brine will void warranty.

PERFORMANCE

GPH (LPH) AT TOTAL FEET (M)						
3'	5'	10'	15'	18'	20'	22'
(0.91)	(1.52)	(3.05)	(4.57)	(5.49)	(6.09)	(6.70)
1600 gal	1524 gal	1260 gal	924 gal	648 gal	372 gal	0 gal
(6 057 L)	(5 769 L)	(4 770 L)	(3 498 L)	(2 453 L)	(1 408 L)	(0 L)

INSTALLATION

▲WARNING Do not use power cord to lift motor.

Always use handle.

1. Pump should be located and should rest on level solid foundation. Do not suspend pump by means of discharge pipe or power cord. Keep pump inlet screen clear.
2. Thread outlet pipe into pump body carefully to avoid stripping or crossing threads.
 - a. To install with garden hose, install adapter provided with pump.
NOTICE: To keep friction as low as possible, hose must be 5/8" or larger. Keep hose as short as possible.
 - b. To install with rigid pipe, use plastic pipe. Wrap thread with Teflon tape or use Plasto Joint Stik*. Screw pipe into pump hand tight +1 - 1-1/2 turns.
3. If, in your application, backflow is a problem when the pump stops, prevent it by installing a 1" NPT check valve in the pump discharge.
4. Power Supply: Pump is designed for 115V., 60 HZ. operation and requires an individual branch circuit of 15 amperes or more capacity. It is supplied with a 3-wire cord set with grounding-type plug for use in a 3-wire, grounded outlet. 3 wire extension cord, of at least 14 AWG (2mm²) size is suggested, with larger sizes for runs over 25 ft (7M). For safety, pump should always be electrically grounded to a suitable electrical ground such as a grounded water pipe or a properly grounded metallic raceway, or ground wire system. Do not cut off the round grounding prong.

▲WARNING The pump motor is equipped with automatic resetting thermal protector and may restart unexpectedly. Protector tripping is indication of motor overloading as a result of operating pump at low heads (low discharge restriction), excessively high or low voltage, inadequate wiring, incorrect motor connections, or a defective motor or pump.

OPERATION

▲WARNING Risk of burns or death from electric shock. Do not handle pump or pump motor with wet hands or when standing on wet or damp surface, or in water. Disconnect power from pump before handling, servicing, or attempting to repair pump.

The Smart Geysers™ is fully automatic in operation. The "smart" controller starts the pump every 2-1/2 minutes and causes it to run for 5 seconds. If it senses that there is no water to the pump, it stops. If it senses water, it continues to run until the water is pumped down to 1/4" deep, and then it stops. It then goes into a 7-minute quick-detection cycle, starting 4 times the first minute, twice the second minute, and once a minute for the next 5 minutes. If by the last check it has not detected water, it resumes its cycle (running 5 seconds every 2-1/2 minutes) until it senses water again.

NOTICE: When you plug the pump into the wall outlet, it will start and run for 5 seconds. It will then cycle as described above.

If the unit is put in the water and started, interrupting the water flow into the pump during the 5-second water-sensing run will cause it to wait 2-1/2 minutes before restarting (instead of 15 seconds).

1. The motor is equipped with an automatically resetting thermal overload protector. If the motor gets too hot, the overload protector will stop the motor before it is damaged. When the motor has cooled sufficiently, the overload protector will reset itself and the motor will restart.

NOTICE: If the overload protector stops the pump repeatedly, disconnect the power from the pump and check it to find the problem. Low voltage, long extension cords, clogged impeller, too much back pressure in the discharge hose (as when pumping through 50' (15 M) of coiled hose), or extended running of pump with no load, can all cause overheating.

2. The water being pumped cools the motor, allowing the pump to run continuously at any depth of water above 1/4". However, if the motor overload stops the pump, allow it to cool for one hour before restarting. Motor will not restart before the overload has cooled.

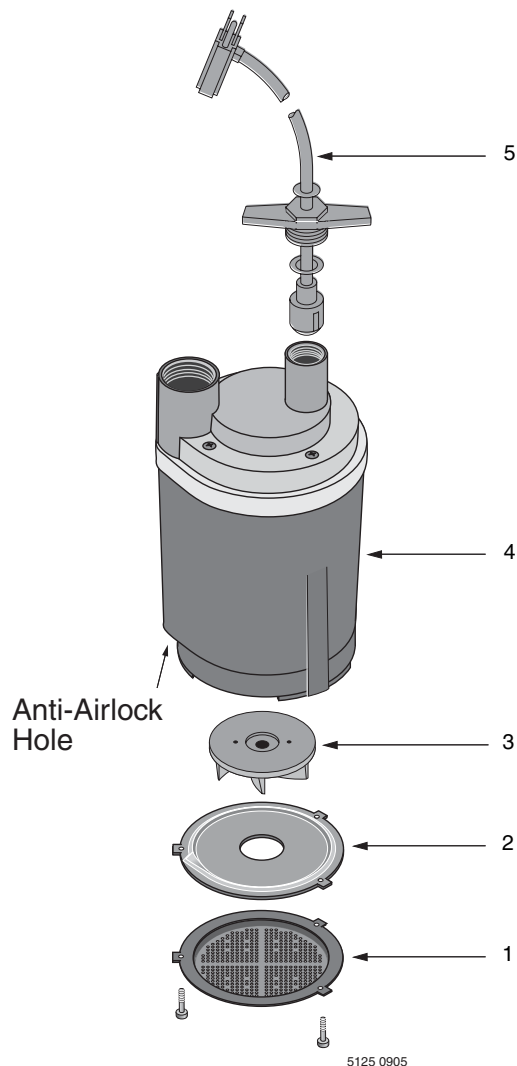
AIRLOCKS

When a pump airlocks, it runs but does not move any water. An airlock will cause the pump to overheat and fail. This pump has an anti-airlock hole in the bottom of the pump body. If you suspect an airlock, unplug the pump, clean out the anti-airlock hole with a paper clip or piece of wire, and restart the pump.

NOTICE: If the outlet of the discharge hose/pipe is submerged you must have a 1/8" hole in the discharge hose/pipe to prevent airlock. This hole must be open to air.

NOTICE: If you move the pump or the pump airlocks, be sure to drain the hose before trying to restart the pump.

* Lake Chemical Co., Chicago, Illinois



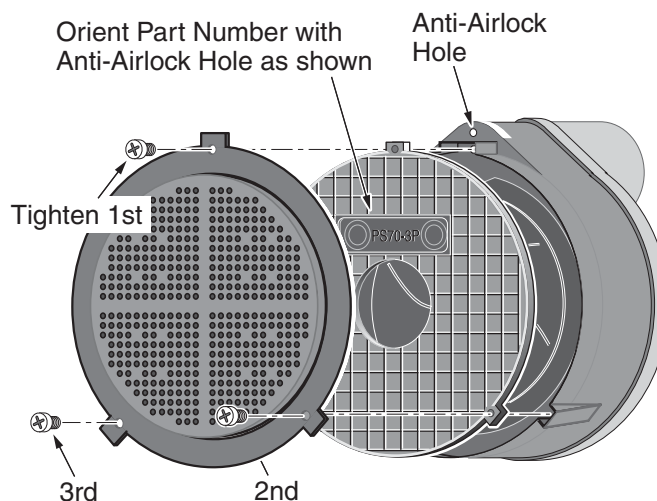
REPAIR PARTS

Key	Part Description	Qty.	Part No.
1	Screen	1	PS8-6P
2	Shield	1	PS70-3P
3	Impeller	1	PS5-25P
4	Motor	1	**
5	Power Cord	1	PS117-51-TSU
•	Garden Hose Adapter	1	FT0013-43

NOTICE: To purchase a check valve, call Customer Service at 1-800-468-7867 and order part number PW73-63.

** If motor fails, replace entire pump.

• Not Illustrated.



Assemble Screen and Shield as shown.

TROUBLESHOOTING

⚠ WARNING Risk of electrical shock and sudden start.

Disconnect electrical power to pump before attempting to troubleshoot or work on it.

SYMPTOM	POSSIBLE CAUSE(S)	CORRECTIVE ACTION
Pump won't start or run	Blown fuse Low line voltage Defective motor Impeller	If blown, replace with fuse of proper size If voltage under recommended minimum, check size of wiring from main switch on property. If OK, contact power company. Replace pump Remove screen, locate source of binding
Pump operates but delivers little or no water	Low line voltage Something caught in impeller Small diameter garden hose or long discharge line Check valve installed without vent hole Air lock Coils or bends in hose	Use only 14 gauge or larger extension cords. Use short extension cords when necessary Clean out impeller Use larger diameter garden hose or 1" flexible pipe. Eliminate any excess hose. Short hoses work best Drill a 1/16" - 1/8" (1.6 - 3.2 mm) dia. hole between pump discharge & check valve Turn off pump for a few seconds, clean out anti-airlock hole and restart pump Straighten hose