

## Trouble Shooting

The following is a list of common problems that may cause your pump to work improperly. If you feel that your pump is malfunctioning due to other reasons please call our customer service department at 978-281-0573

Symptom	Possible Cause	Cure
Pump only runs for a few seconds	Insufficient water  Clogged strainer or jammed impeller  Blocked discharge line	The automatic control system tests for water approximately every few minutes. If the water level detected is only about 3/4", the pump will shut off after a few seconds. Every few minutes thereafter, it will automatically check the water level and will only continue pumping if sufficient water is present.  Disconnect pump from power source and remove strainer (some models contain stainless steel inner strainers). Remove debris from strainer(s) and surrounding area. Remove any debris from the impeller.  Disconnect pump from power source and remove blockage from pipes/hoses and discharge port.
Pump does not run	Electrical connections	Check electric receptacle for power. Check fuse and/or circuit breaker. Is the receptacle a three prong grounded outlet in good condition? Is the plug making good contact in the receptacle?
Pump runs, but does not pump water	Air lock	Check discharge hose. Is it running level or continuously downwardly once the hose starts downwardly? Are there any loops in the hose?

## Congratulations!

You have just purchased one of the finest quality pumps available in the industry. It was developed after years of experience, research and testing by our research staff. Its motor, electronics and seals were specifically designed and manufactured by Rule Industries to give years of reliable, trouble-free performance.

## How This Pump Works

Rule Automatic Sump and Utility Pumps turn on and check for water approximately every 2-1/2 minutes. During this "check", the pump runs for about one second and checks for resistance or drag against the impeller. If resistance (water) is found, it will run for as long as water is present. When all the water is pumped out, the pump shuts off and returns to its 2-1/2 minute test cycle. The pump can be started at any time by disconnecting it from the power source, waiting five seconds and reconnecting.

**Please read and follow the instructions carefully and your pump will provide you with the maximum output for which it was designed.**

Thank You for Purchasing a Rule Pump



## The Rule Guarantee

We guarantee all our pumps from factory defect or malfunction for three full years from purchase date.



All returns must be shipped to:

Rule Industries, Inc.  
Cape Ann Industrial Park  
Gloucester, MA 01930

## King Pumps inc.

253 NW 54 Street \* Miami, Florida 33127-1799  
Phone: (305) 754-0677 \* Fax: (305) 754-6477  
Website: <http://www.kingpumps.com>



## INSTRUCTION GUIDE

## FULLY AUTOMATIC PUMP

Thermally Protected Enclosure 3

This pump has only been tested for use as a submersible sump pump and for draining pool covers.

**Models A53S, A53S-24**  
1800 GPH, 110 VAC, 60HZ, 1.0 AMP



## Important Safety Instructions

### Read and follow all instructions before installation

**WARNING** —To reduce the risk of injury, do not permit children to use this product.

**WARNING** —Risk of electric shock. This pump should not be used to drain the pool cover if there are people in the pool.

**WARNING** —Risk of electric shock. This pump is provided with a 3-prong grounding plug for use with a 110 volt AC 3-prong outlet. A shock hazard exists if the plug is connected to an ungrounded outlet. Connect only a grounding type receptacle protected by a ground-fault circuit-interrupter (GFCI). Contact a qualified electrician if you cannot verify that the receptacle is protected by a GFCI.

**Do not bury cord.** Visibly locate cord to minimize possible damage by lawn mowers, hedge trimmers and other equipment.

**Warning** —To reduce the risk of electric shock do not use if cord is damaged.

**Warning** —To reduce the risk of electric shock, do not use extension cord to connect unit to electric supply; provide a properly located outlet.

**Do not plug the pump into an outlet while standing in water or on a damp surface.**

### WARNING

This pump is designed for use with fresh and salt water only. Use with any medium, including particularly hazardous, caustic or corrosive substances, could result in damage to the pump, the surrounding environment and injury to persons or property, including possible exposure to hazardous substance.

This pump is for water applications only.

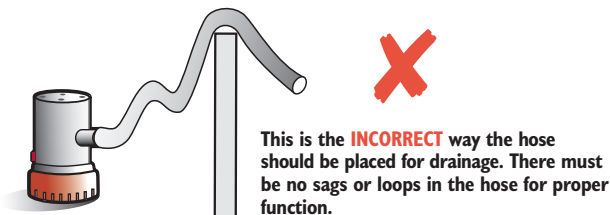
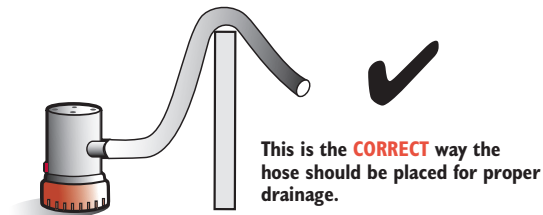
## Installation Instructions

1

Remove the strainer from the bottom of the pump by depressing the lock tabs on both sides of the pump.

2

Determine the location for the pump. For sump/utility use, the pump can be placed in a sump 12" in diameter or on a flat floor where the water is the deepest. For pool cover use, place where the water would be the deepest. In all applications, the installation must allow for complete drainage of the hose. All air/water pockets must be eliminated by having the garden hose or discharge hose, once it has started running downwardly, run level or continuously downwardly. There must be no loops or "sags" in the hose that would trap water.



## Installation Instructions

3

Position the strainer so that the pipe or hose is in the desired location. Locate the stainless steel strainer (available in some models) so it is seated properly in the plastic strainer base.

4

For pool cover use, additional pump stability may be desired. In that case, attach the strainer to a base about 1/4" x 12" X 12" which is rounded at the corners so there are no sharp points to tear the pool cover.

For sump/utility use, attach the strainer to a wood base. If mounting the pump onto concrete, first fasten a piece of wood to the concrete and then attach the strainer to the wood.

5

Mount the pump on the strainer so that both lock tabs "snap" into place.

**Caution:** Pump must always be properly attached to the strainer before running the unit.

6

Use 1-1/8" I.D. hose or 1" pipe with the included elbow pipe adapter or use standard garden hose with included garden hose adapter adapter. On the Rule 2800 pump, attach a 1-1/2" I.D. hose to the discharge nozzle and fasten with a stainless steel clamp (not included), or use the included elbow pipe adapter and a 1-1/4" pipe.

**Note:** Restricting the flow from a Rule pump by using a smaller pipe or hose size (such as a garden hose) does not damage the pump, but will result in a reduction in flow. For maximum flow, use the shortest length of the largest diameter hose available.

## Performance/Maintenance

### Break-in period

A break-in period of up to 10 hours is required to achieve maximum pumping capacity.

### Periodic Maintenance (very important)

It is imperative that you keep the strainers clean and free of debris. We recommend that you remove any debris that may accumulate in and around the plastic strainer, and around the internal stainless strainer (available in some models) located under the plastic base strainer.

*Note: To expose the inner stainless strainer, first remove the plastic strainer by pressing the two tabs and lifting the pump from the strainer base.*

### Freezing/Impeller Jamming

The Rule 1800 & 2800 pumps are equipped with a protective circuit that prevents damage to the pump in the event that it becomes embedded in ice or the impeller becomes jammed with debris.

Should the impeller jam due to ice, no action is necessary. The pump will resume its normal operation when the ice thaws. The pump will continue to check for water every few minutes while frozen and automatically shut itself off after each check. To prevent unnecessary wear, it is recommended, but not necessary, to disconnect the pump if it is frozen in ice for an extended period of time.

Should the impeller jam due to debris, the debris should be removed as soon as possible to allow the pump to return to its normal automatic pumping mode.

**Save these instructions.**