

Limited Warranty

Products manufactured by Walrus Pumps Co (Walrus) are warranted to the first user only to be free of defects in material and workmanship for a period of 12 months from date of installation, but no more than 24 months from date of shipment. Walrus' liability under this warranty shall be limited to repairing or replacing at our election, without charge, FOB Walrus' distribution center or authorized service agent. Walrus will not be liable for any cost of removal, installation, transportation or any other charges that may arise in connection with warranty claim.

The warranty period commences on the date of original purchase of the equipment. Proof of purchase and installation date, failure date, and supporting installation data must be provided when claiming repairs under warranty.

This warranty is subject to due compliance by the original purchaser with all directions and conditions set out in the installation and operating instructions. Failure to comply with these instructions, damage or breakdown caused by fair wear and tear, negligence, misuse, incorrect installation, inappropriate chemicals or additives in the water, inadequate protection against freezing, rain or other adverse weather conditions, corrosive or abrasive water, lightning or high voltage spikes or through unauthorized persons attempting repairs are not covered under warranty.

Walrus will not be liable for any incidental or consequential damages, losses, or expenses, arising from installation, use, or any other causes. There are no express or implied warranties, including merchantability or fitness for a particular purpose, which extend beyond those warranties described or referred to above.

Certain states do not permit the exclusion or limitation of incidental or consequential damages or the placing of limitations on the duration of an implied warranty, therefore, the limitations or exclusions herein may not apply. This warranty sets forth specific legal rights and obligations, however, additional rights may exist, which may vary from state to state.

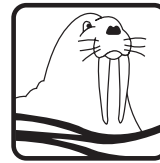
Supersedes all previous publications



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WALRUS®

SUBMERSIBLE PUMP

PW Series **INSTRUCTION MANUAL**



ISO 9001 Certified

Walrus America Inc

● Operation & Notices :

1. Prior to Operation

- Check for proper supply voltage to make certain it corresponds to nameplate data.
- Make sure that outlet, gasket and outlet lid are tightened; drainage line is properly connected and fixed.
- During normal operation, the pump is immersed in water. When water or moisture presents, do not touch the wet area until all power has been turned off.
- To prevent possible electrical shock hazard, be certain it is connected to a properly grounded, grounding type receptacle. A separated branch circuit is recommended.
- Never start up the pump when someone stands in water. The power must be turned off prior to touching, servicing or repairing the pump.

2. During Operation

- Turn power on and check if there is a rated discharge flow out of the outlet pipe.
- When pump runs normally but does not discharge liquid, please check if the water level is too low, lift is too high for the pump or base strainer is clogged.
- The pump is equipped with automatic resetting protector and may restart unexpectedly. Protector tripping is an indication of motor overloading as a result of wrong voltage, low discharge flow, etc.
- Do not run the pump when the water level is too low.

3. After Operation

- When working on pump or switch, always unplug pump power cord.
- For long term storage, wash the pump with clean water and dry it out.

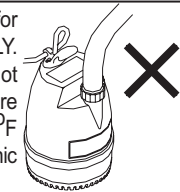
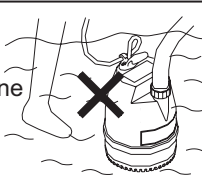
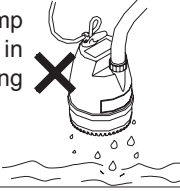
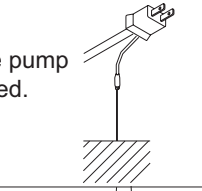
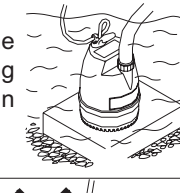
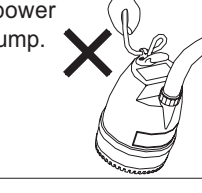

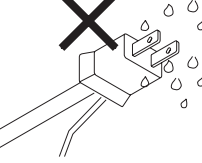
● Troubleshooting :

Failure	Cause	Remedy
Pump does not turn on.	1. Circuit breaker is not connected.	Connect it.
	2. Pump not plug in.	Plug in pump.
	3. Broken cable.	Replace it.
	4. No power supply.	Turn on the power source.
	5. Defective motor.	Repair or replace it.
	6. Impeller clogged.	Clean it and make sure it turns freely after cleaning.
Pump stop suddenly or slow down.	1. Impeller is clogged.	Clean it.
	2. Circuit breaker trip.	Reconnect circuit breaker.
	3. Motor failure.	Repair or replace it.
Pump runs normally, but does not deliver rated capacity.	1. Water level too low.	Stop the pump and unplug.
	2. Impeller clogged.	Clean or replace it.
	3. Discharge pipe runs too long.	Correct it in reference to rating table.
	4. Strainer blocked.	Clean it.

● Specification :

Model	PW100,PW100R	PW250	PW400	PW500R
Output(W)	100	250	400	500
Frequency(Hz)	60	60	60	60
Voltage(V)	115 or 230			
Phase	1			
Pole(P)	2			
Outlet dia Inch	1"	1½"	2"	2"
Total head(ft)	19.6	32.8	29.5	39.4
Total capacity(GPM)	21.1	39.6	68.7	55.4
Package size(in.)	7.1x7.1x10.2	7.9x6.7x13.5	7.9x7.2x15.8	9.1x7.7x16.1
Gross weight(lbs)	9.2	15.4	17.6	20.3

● Attention :

<p>1. PW series is designed for pumping clean water ONLY. Do not pump oil, hot water (Liquid temperature range is 39.2°F(4°C)~104°F(40°C)) and other organic solvent liquids.</p> 	<p>2. Never start up the pump when someone stands in water.</p> 
<p>3. Make sure that the pump is always immersed in the water. Dry pumping is strictly prohibited.</p> 	<p>4. Make sure that the pump is properly grounded.</p> 
<p>5. Place filter beneath the pump to avoid sucking in dirt when used in lake or river.</p> 	<p>6. Do not use the power cord for lifting the pump.</p> 
<p>7. Never drop off the pump to the ground.</p> 	<p>8. Always keep the power plug dry.</p> 

- The PW100, PW250 and PW400 are strictly used for water. For salt water application, such as sea fish breeding, please choose PW100R and PW500R.
- The PW100R and PW500R are not suitable for liquids with insecticides or chemical.