



SWIMMING POOL PUMP



USER MANUAL

Table of contents

1.	Introduction	1
2.	Safety Precautions	2
2.1	Warnings	2
2.2	Attention	2
2.3	Safety	3
3.	Specifications	4
3.1	Operating condition and range	4
3.2	Technical parameters	4
3.3	Dimensions	5
4.	Installation	6
4.1	Pump Location	6
4.2	Installation Guidance	7
4.3	Installation	7
5.	Operation	8
5.1	Starting the pump	8
5.2	Operating Instructions	8
5.3	Pump lid removal	8
6.	Maintenance	9
7.	Troubleshooting	10
8.	Warranty	11

1.Introduction

Congratulations on the purchase of your AquaSolis Pool Pump.

The AquaSolis Pool Pump has been specifically designed for Pool & Spa applications ensuring optimum performance and many years of trouble-free operation.

Please read and understand this user manual before attempting to install your AquaSolis Pool Pump.



Please record the information below during installation as this will be required for any service/warranty related work that may be required.

Model Number_____
Serial Number_____
Date of Purchase_____
Place of Purchase_____
Invoice Number_____

Phone: 1300 250 553

Email: info@aquasolis.com.au

Website: www.aquasolis.com.au

2.Safety Precautions

We have provided important safety information in this manual for the installation and maintenance of your pool pump.

Please thoroughly read and obey all safety information in this manual.

2.1 Warnings



This WARNING sign denotes a hazard. It calls attention to a potential hazard or condition requiring special attention that, if not correctly performed or adhered to, could result in personal injury or injury to a third party.

2.2 Attention

- a. Please read the following instructions before installation, use and maintenance.
- b. Installation must be carried out by a competent person in accordance with this manual.
- c. Check all plumbing before operating the pool pump, ensuring there are no water leaks.
- d. Have adequate drainage to prevent pump being immersed in water due to flooding.
- e. Protect the pump from dust, weather, excess moisture, and vermin.
- f. Allow access for servicing the pump.
- g. Ensure adequate ventilation (100mm min) at the rear of the motor housing.
- h. Do not use electrical extension cords.
- i. This pump is not suitable for connection to mains water.

2.3 Safety

- a. Please keep the main power supply out of reach of children.
- b. If a power failure occurs during operation, take caution as the pool pump may automatically restart once power is restored.
- c. Please switch off the main power supply in stormy weather to prevent damage that may be caused by a lightning strike.
- d. This pool pump is not intended for use by persons (including children) with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, unless supervised or given instruction on correct use of the pool pump.
- e. Never run the pump dry. Running the pump dry may damage seals and is not covered under warranty.
- f. Pump suction is hazardous and can trap and drown bathers. Do not operate this pool pump if suction covers are blocked, missing, or broken.

3.Specifications

3.1 Operating condition and range

- a. Max working pressure 300kPa
- b. Water temperature range 4°C~50°C.
- c. Max ambient temperature 50°C
- d. IP Rating IPX5
- e. Optimal pH range 7.2 – 7.8

3.2 Technical Parameters

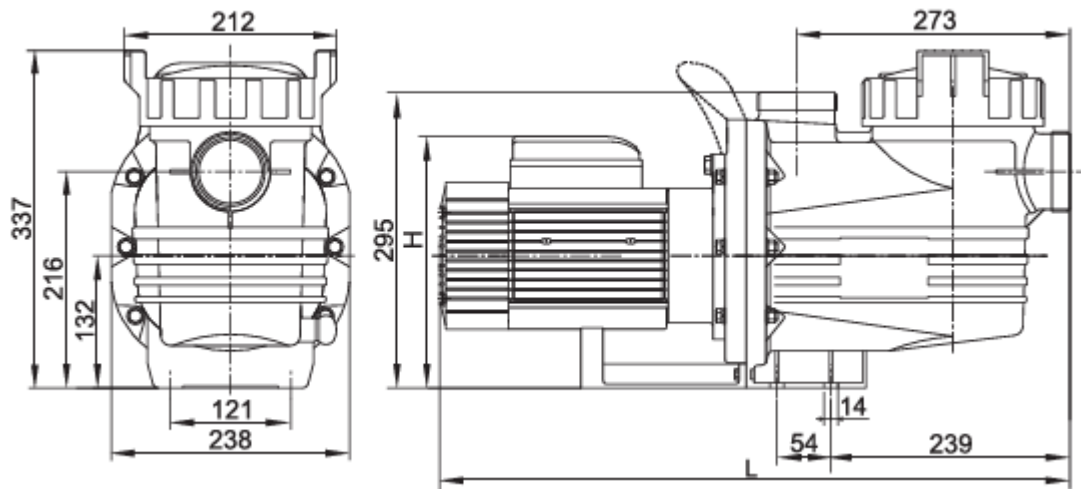
Model	Qmax (l/min)	Hmax (m)	Power (P)		Amps
			kW	HP	
APS230	310	15	0.75	1.0	3.8
APS280	380	17	0.9	1.2	4.6
APS430	480	20	1.5	2.0	7.0
APS500	540	21	1.85	2.5	8.6

*The above models are designed to be plugged directly into a 10-amp domestic power supply.



WARNING: Any electrical work must be performed by a licensed electrician or similarly qualified person in accordance with national, state, or local codes, regulations, and standards.

3.3 Dimensions



Model	H (mm)	L (mm)	Weight (kg)	Pipe Size (mm)
APS230	237	583.5	14	40/50
APS280	237	583.5	14.5	40/50
APS430	251	606	17.5	40/50
APS500	251	606	19	40/50

*All measurements are in mm

*Above data is subject to modification without notice.

Note: The table above lists relevant pump dimensions for the purposes of installation. Dimensions are subject to change without notice.

4. Installation

4.1 Pump Location

Only competent people are authorized to install this pool pump and should be educated with the relevant building codes and standards of their state or local governing body. All electrical connections must be performed by a licensed electrician or similarly qualified person.

- a. The GPO is to be installed in accordance with the relevant requirements of Australian Wiring Rules AS/NZS 3000-2018.
- b. Install the pump within reach of a GPO in an easily accessible location in the event of equipment or power failure.
- c. Place the pump on a solid foundation. To reduce vibration the pump can be bolted to the foundation.
- d. Ensure there is adequate drainage to prevent the pump motor being immersed if flooding occurs.
- e. Make sure the pump has adequate ventilation at the rear of the motor housing (100mm min) to prevent the pump motor from overheating. Overheating due to lack of cooling is not covered under warranty.
- f. Leave a clear area around the pump to allow access for any maintenance.
- g. Do not store pool chemicals near the pump.



Do not store pool chemicals near your pump. This can cause corrosion of the pump resulting in equipment failure and is not covered under warranty.

This pump is for use with permanently installed pools. Do not use it for storable pools.

4.2 Installation Guidance



When pool equipment is located below the pool surface, leaks can result in water loss or flooding. AquaSolis cannot be responsible for water loss or flooding, or damage caused due to either occurrence.

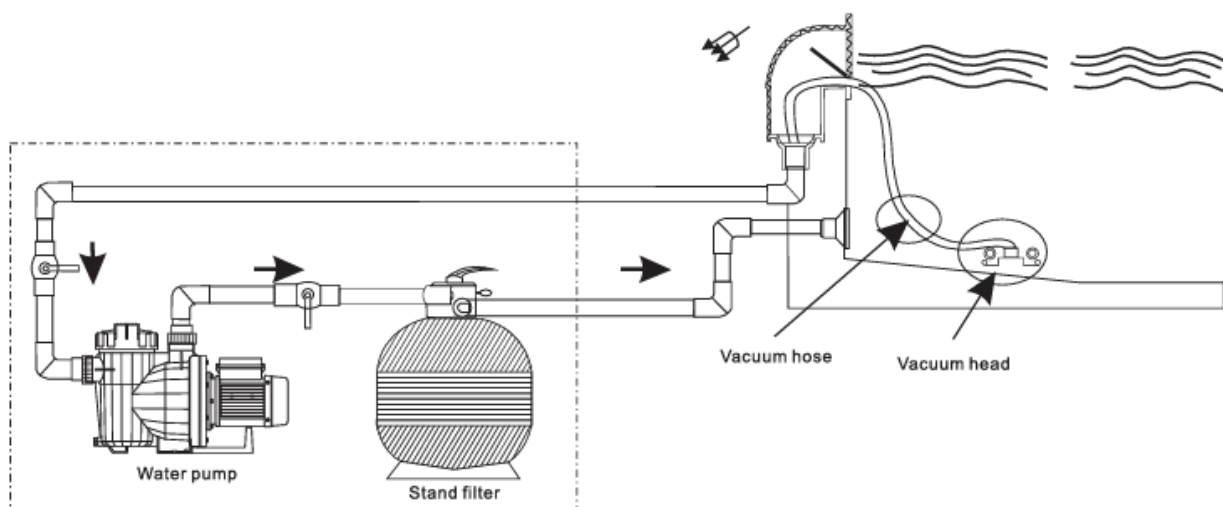
- a. Install the pump within 300mm above the water level. If the pump is to be located below the water level, isolation valves must be installed on both suction and return lines to prevent water loss during maintenance.
- b. Use as few fittings as possible and limit the use of 90-degree elbows. (Sweep Elbows offer the greatest efficiency) Each additional fitting increases flow resistance, causing the pump to work harder.
- c. Ensure piping is well supported and not placed under stress.
- d. To prevent difficulty priming, avoid plumbing the suction line where at any point it is above the inlet of the pump.
- e. The pump must be connected to at least 2 functioning suction outlets.



Pump suction is hazardous and can trap and drown bathers. Do not use or operate the pump if a suction cover is missing, broken or loose.

4.3 Installation

- a. Install the pump on a solid level foundation.
- b. To reduce vibration, bolt the pump to the foundation.
- c. Install isolation valves on the suction and return lines if the pump is below water level.
- d. For installations where the pump is 500mm above water level, a check valve is required.
- e. The suction and discharge pipes should have a diameter equal to or greater than the inlet.



Please note: Water connections may differ from this diagram; to be used as a guide only.

5.Operation

5.1. Starting The Pump



Never run the pump without water. Running the pump “dry” can cause severe damage to both the pump and motor and will void warranty.

For new pool installations, make sure all piping is clear of debris and has been pressure tested. The filter should be checked for correct installation, verifying that all connections are secure according to manufacturer’s recommendations.



To avoid risk of property damage, severe personal injury, or death, verify that power is turned off before starting this procedure.

5.2 Operating instructions

a. Pump Priming

- 1) If the pump is located below the water level, open the filter pressure relief valve to prime the pump with water. Once all air has left the filter, close the relief valve.
- 2) If the pump is located above the water level, remove the lid, and fill the basket with water before starting the pump.

b. Before replacing the lid, check for debris around the lid O-ring. This can cause air to enter the pump making it difficult to prime.

c. Hand-tighten the lid to make an air-tight seal. Do not overtighten. Make sure all unions are tight and all valves are open.

d. Turn on power to the pump.

e. If water flow is not visible within 1-2 minutes, turn off the pump and prime the pump again. After 3 attempts at priming, turn off the pump and check for leaks.

f. If no leaks are evident a check valve may be required to hold water for priming.

5.3 Pump Lid Removal

a. Make sure that the pump is switched off.

b. Ensure all necessary isolation valves are closed to prevent water from reaching the pump.

c. Turn the locking ring anti-clockwise and remove the lid and locking ring once undone.

6.Maintenance

6.1 Routine Maintenance

Inspect the pump filter basket for debris by looking through the pump lid. As debris accumulates it will start to block the flow of water through the pump. Keep the basket clean to maintain performance.

- a. Turn off the power to the pump. If the pump is located below water level, close the isolation valves to prevent the backflow of water.
- b. Remove the pump lid and lift the basket out of the pump.
- c. Dispose of any debris and clean the basket using a garden hose ensuring all holes are clear.
- d. Replace the basket in the pump aligning the opening with the suction pipe.
- e. Check the lid seal for any debris such as sand or dirt as this can allow air to enter the system.
- f. Replace the pump lid and turn the locking ring clockwise. Hand-tighten only.
- g. Open isolation valves
- h. Open pressure relief valve on the filter
- i. Turn on power to the pump. Once all air has left the filter, close the relief valve.

6.2 Maintenance Recommendations

- a. Keep the lint basket clean. Blocked baskets can cause overheating and pump damage due to no water flow.
- b. Apply suitable waterproof grease to the lid O-ring to enable a positive seal.
- c. Ensure rear of pump remains clear for adequate cooling airflow to prevent overheating of motor.
- d. Maintain water in good chemical balance.
- e. Do not overtighten the pump lid.
- f. Do not add chemicals directly to the skimmer. This may result in damage to the pump and could void your warranty.

7. Troubleshooting



WARNING

- a. If repair or removal is required, please contact an authorized service center.
- b. Do not attempt to work on the equipment by yourself. Improper operation may cause injury.

8.1 Failure solutions

Failure	Reason	Solution
Pump is Noisy or Humming	It could be the impeller, bearings, mechanical seal, or capacitor	Call for service
Pump Not Running	The power is off	Check power is available
	The motor is burnt out	Call for service
Low or No Flow	Impeller is blocked	Remove the blockage
	Pump is not primed	Prime the pump
	Baskets blocked	Clean baskets
	Filter requires cleaning	Clean filter
	Water cannot return to the pool	Check position of valves
Air Bubbles in System	Pump drawing in air	Check pump lid and O-ring
	Leak in suction piping	Check piping and connections
If the above solutions do not work, please contact your installer with detailed information and your model number. Do not try to repair it yourself.		

8.Warranty

AquaSolis guarantees all products sold will be (under normal use and maintenance) free of defects in material and workmanship for a minimum period of one year from the date of original purchase by the customer as marked on the invoice. For specific product warranty periods please refer to the table below.

AquaSolis products come with guarantees that cannot be excluded under Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are entitled to have the goods repaired or replaced if goods fail to be of acceptable quality and the failure does not amount to a major failure. No unauthorized personnel can make any warranty representation on behalf of AquaSolis without written permission.

Model	Parts	Mechanical Seal	On-site Labour
All	3 Years	1 Year	1 Year

This warranty does not cover the following:

- normal wear and tear
- been subjected to misuse, neglect, negligence, damage, or accident
- been used, operated, or maintained other than in accordance with AquaSolis instructions
- not been installed in accordance with the Installation Instructions or by suitably qualified personnel
- been modified or altered from original specifications or in any way not approved by AquaSolis
- had repairs attempted or made by other than AquaSolis or its authorized dealers
- been subject to abnormal conditions such as incorrect voltage supply, lightning, or high voltage spikes, or damages from electrolytic action, cavitation, sand, corrosive, saline or abrasive liquids and natural disasters

To make a warranty claim:

- If the product is suspected of being defective, stop use and contact the original place of purchase.
- If requested, return the product and/or provide further information with respect to the claim. Returning the product to the place of purchase is at your cost and is your responsibility.
- The warranty claim will be assessed by AquaSolis based on their product knowledge and reasonable judgement and will be accepted if:

- a relevant defect is found

- the warranty claim is made during the relevant warranty period; and none of the excluded conditions listed above apply

- The customer will be notified of the warranty decision in writing and if found to be invalid the customer must organize collection of the product at their expense or authorize its disposal.

If the claim is found to be valid AquaSolis will, at its option, repair or replace the product free of charge.

On Site Service

Onsite service is available within the operating area of an Authorized Service Center, service outside this area will incur a traveling fee.

