

Smart AWC Lite SAWC-470D



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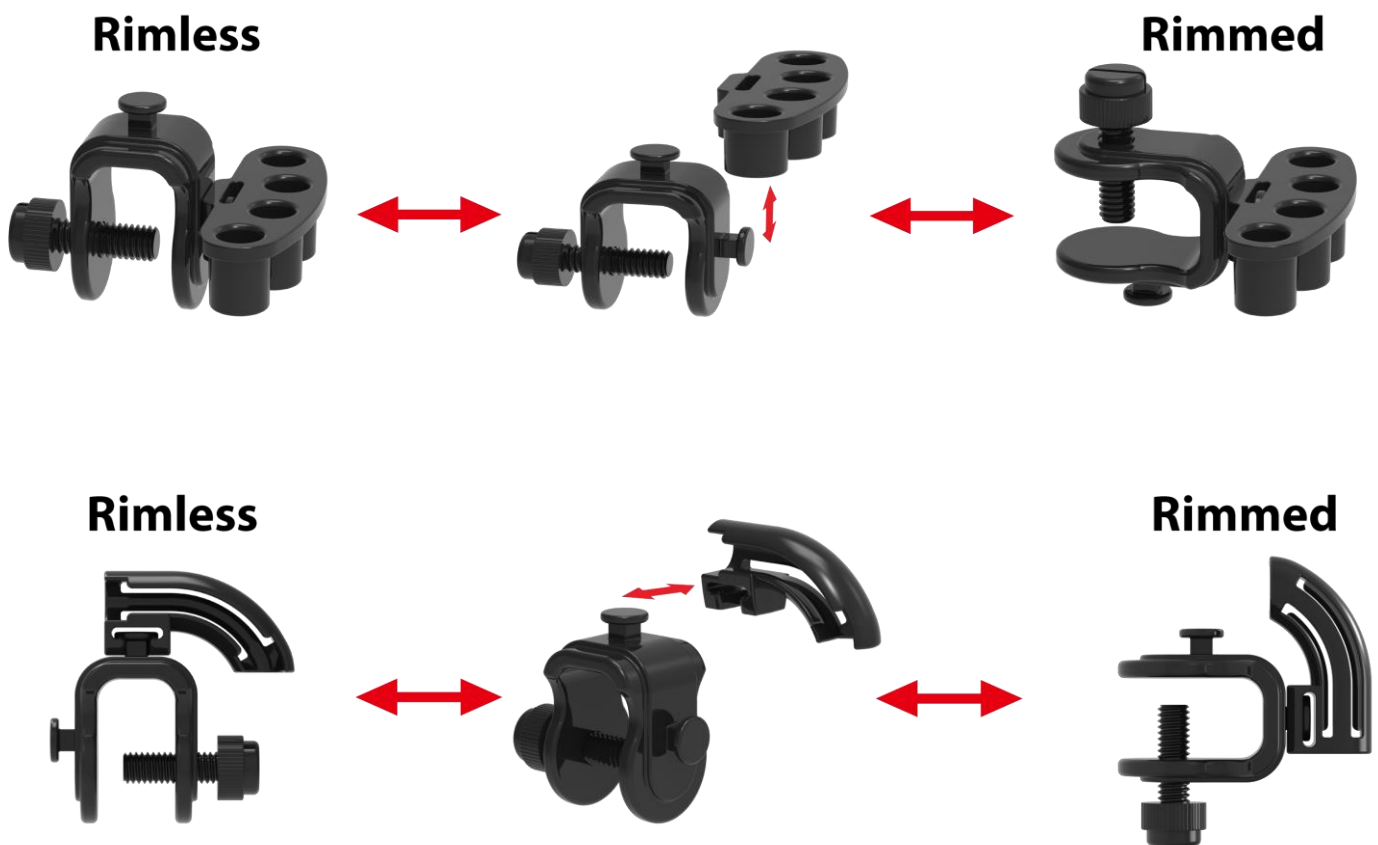


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➤ Can I fix the tube holder on a rimmed tank/sump?

Yes. You can pull out the ring of the tube holder and install it on another nail to fix it on a rimmed tank/sump.



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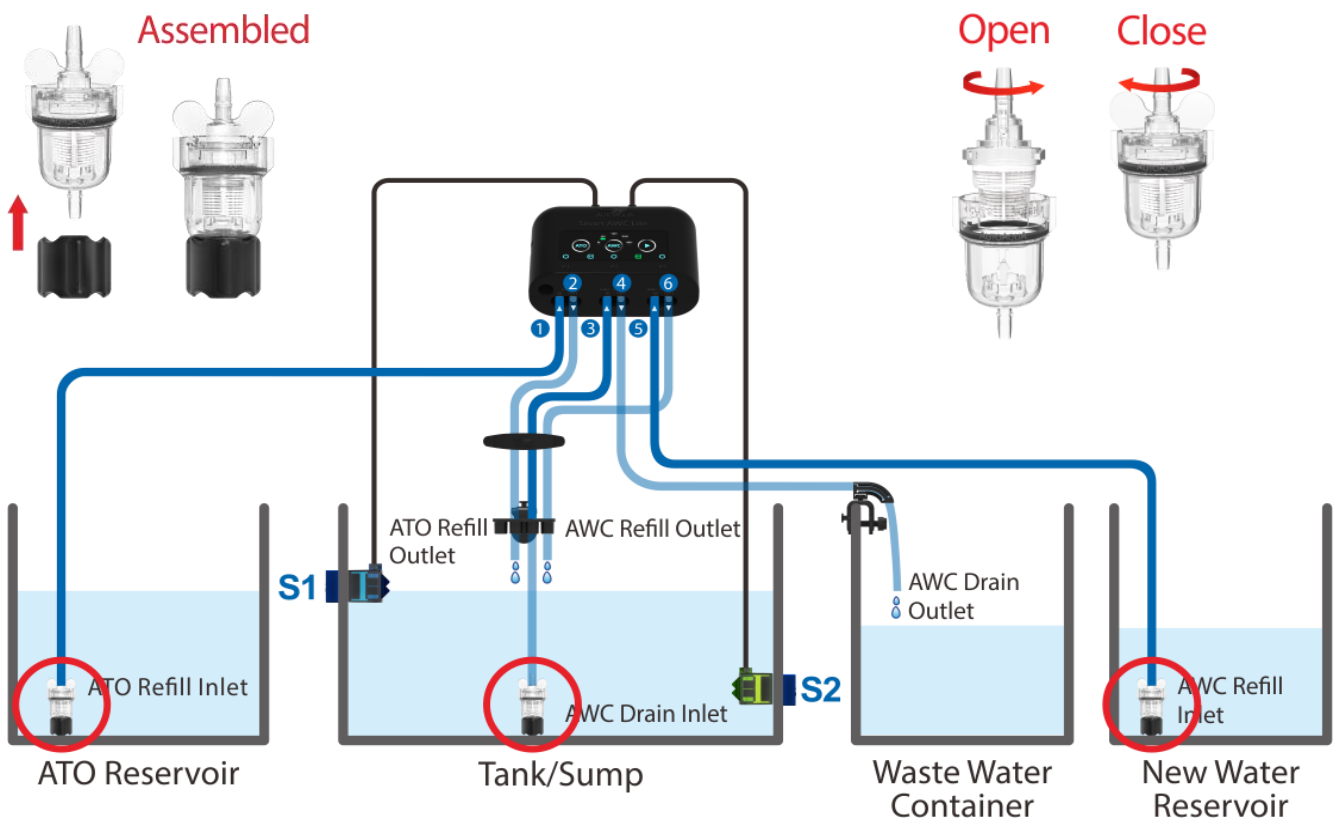
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➤ How to install the prefilter properly?

First, please connect the prefilter base to the prefilter.
Then, install the prefilter **before the diaphragm pump** (Inlet Tube 1, 3, and 5) to protect it from clogged and damaged.

Note : please clean it every 3 to 6 months for the best filtration performance.



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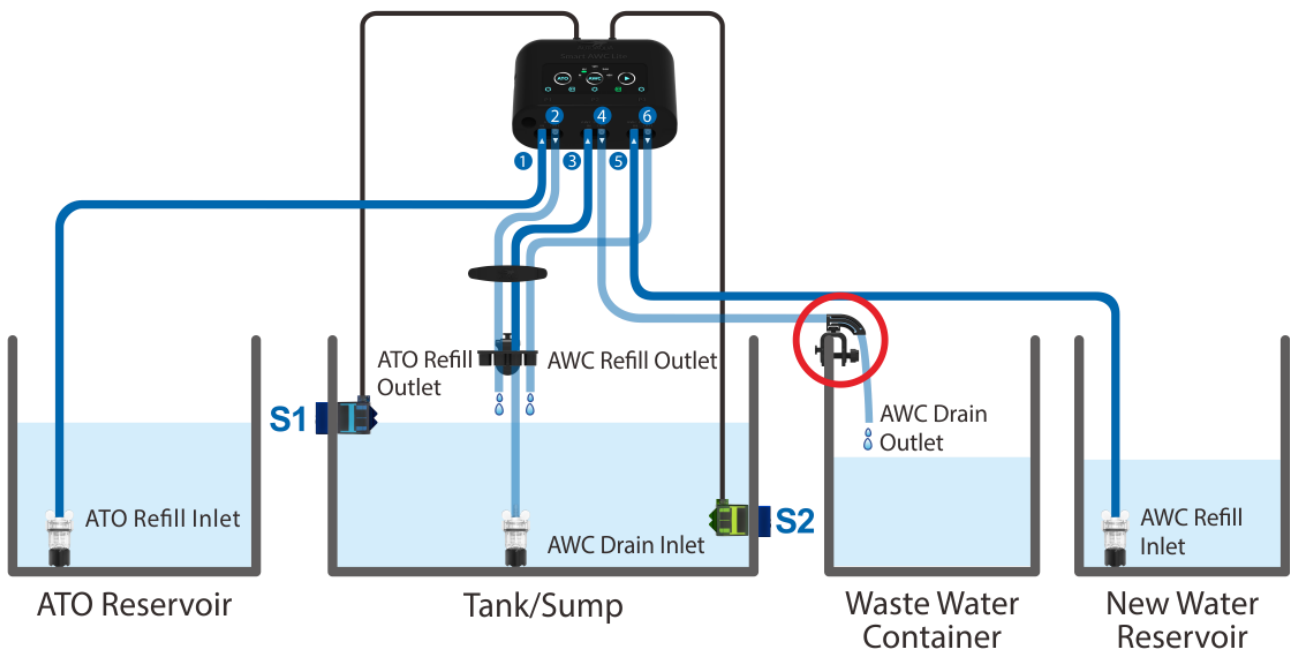


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➤ Where should I place the Lifter Pump Holder?

We suggest to place Lifter Pump Holder at the waste water reservoir, where the tube might be drift in the water.



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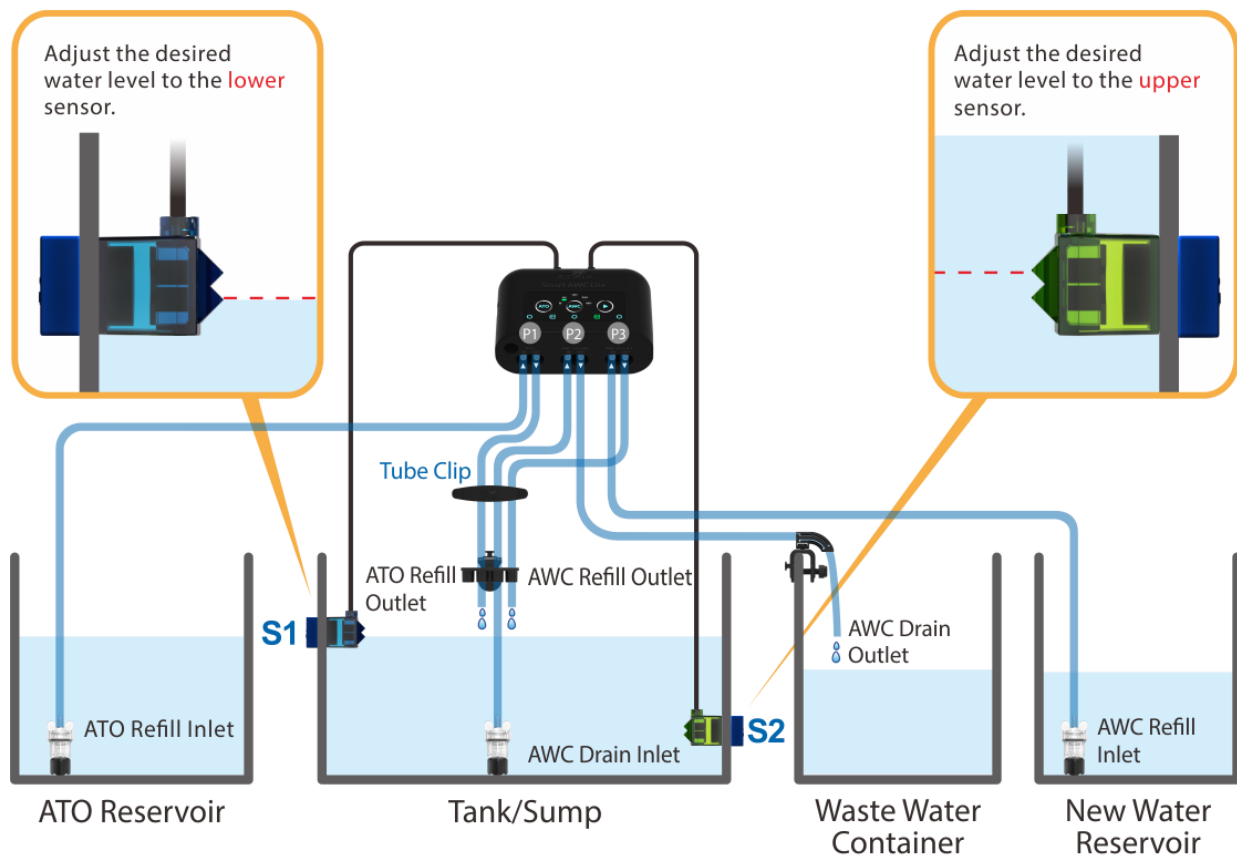
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➤ Where should I place the sensor?

Place the sensor to the water level you desired.

***Please note :** Set the sensor away from water outlet and direct light to avoid bubble interference or malfunctions.



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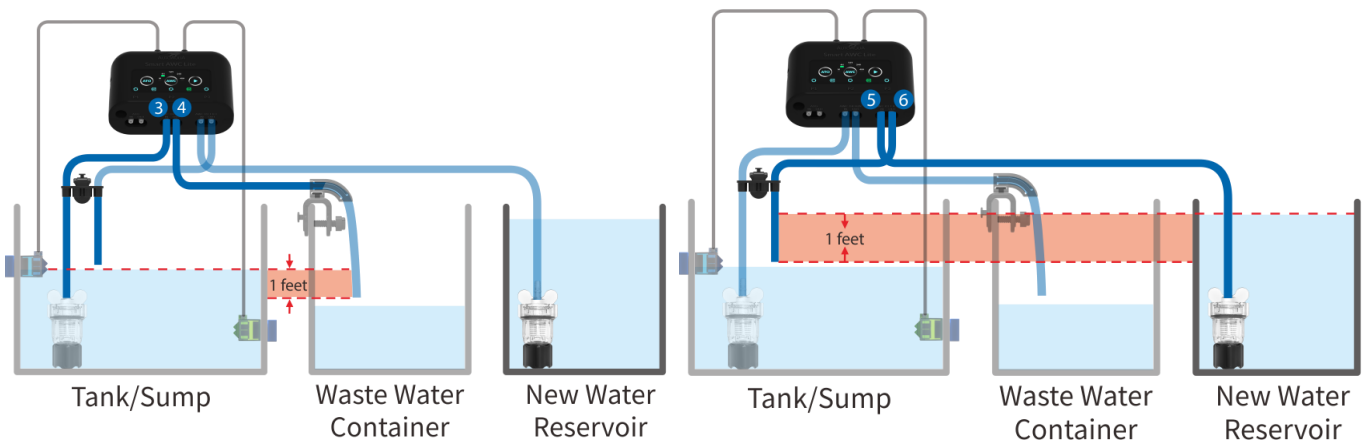
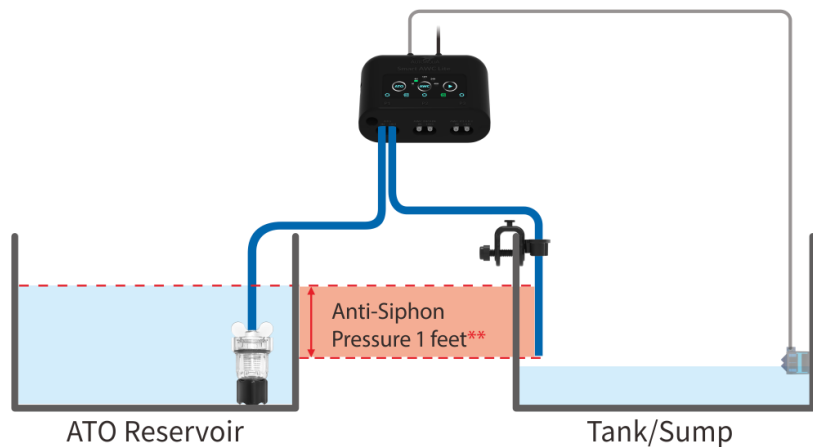
➤ What is the Anti-Siphon Pressure Height?

There will be forward siphon when pump stops if the inlet tank of water level is higher than the outlet tube.

To avoid forward siphon, the outlet tube must less than 1-ft (30cm) below the water level of inlet tank.

Outlet must ALWAYS be out of water.

If you desired higher anti-siphon pressure height, you can buy AUTOAQUA Anti-Siphon Valve. One anti-siphon valve can stop about 60cm of water of the forward siphon pressure.



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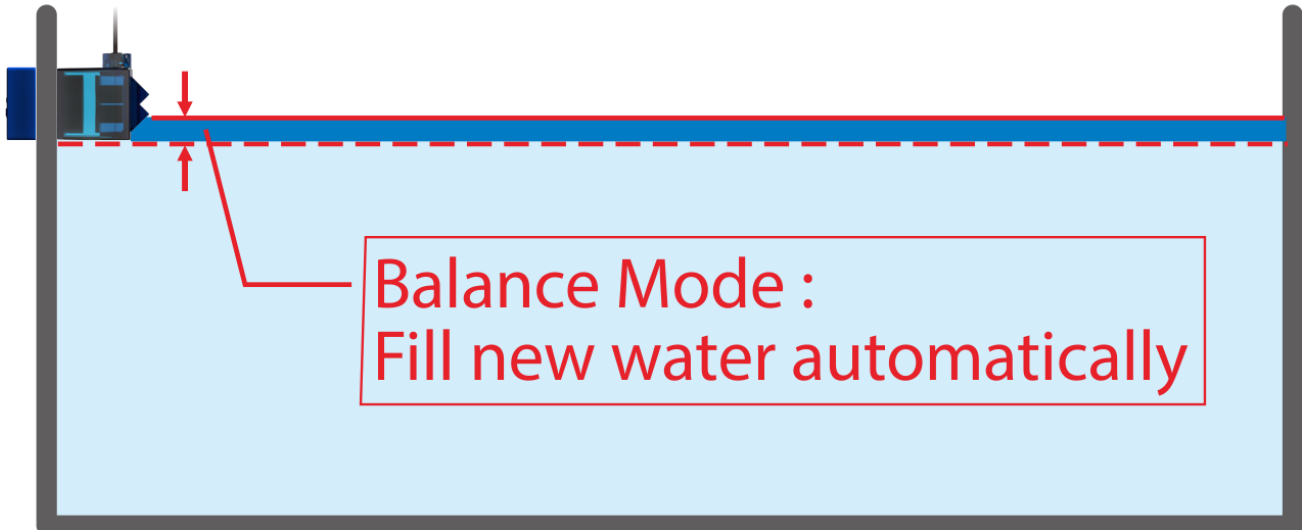
➤ What is AWC Balance Mode?

After P3 pumps the new water in the tank, there will be a “AWC Balance Mode” for 3 minutes with faded green AWC mode (Manual/ 4H/ 12H/ 24H/ 48H) indicator.

Water level might get down when refill water distributed goes through the whole tank.

Therefore, in balance mode, it will fill new water automatically if the water level is lower than the sensor.

The final water level will be more accurate.



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➤ What is the benefit of using Diaphragm Pump?

- Add water smooth & consistent flow to reach the desired water level accurately.
- Lessen the pressure to aquarium ecosystem.
- No wire in the tank for tidy aquarium.
- Able to run dry without damage for safety aquarium.



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➤ How to replace diaphragm pump?

- Step 1 : Press **the release button** on the side and open the top cover.



- Step 2 : Disassemble the PCB screw and the pump wire. Then, remove the PCB and take the diaphragm pump out.

- Step 3 : Place the new diaphragm pump back in and assemble pump wire, PCB, and PCB screw back.



- Step 4 : Put the sensor wires in the correct position.



- Step 5 : Make sure the springs are all in the correct position before close the cover.



- Step 6 : Plug the power in, **reset the device**, and test all the buttons function. If the button works improperly, please open the cover and adjust the spring to the accurate position.

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➤ Why does the water keep dripping after pump has stopped?

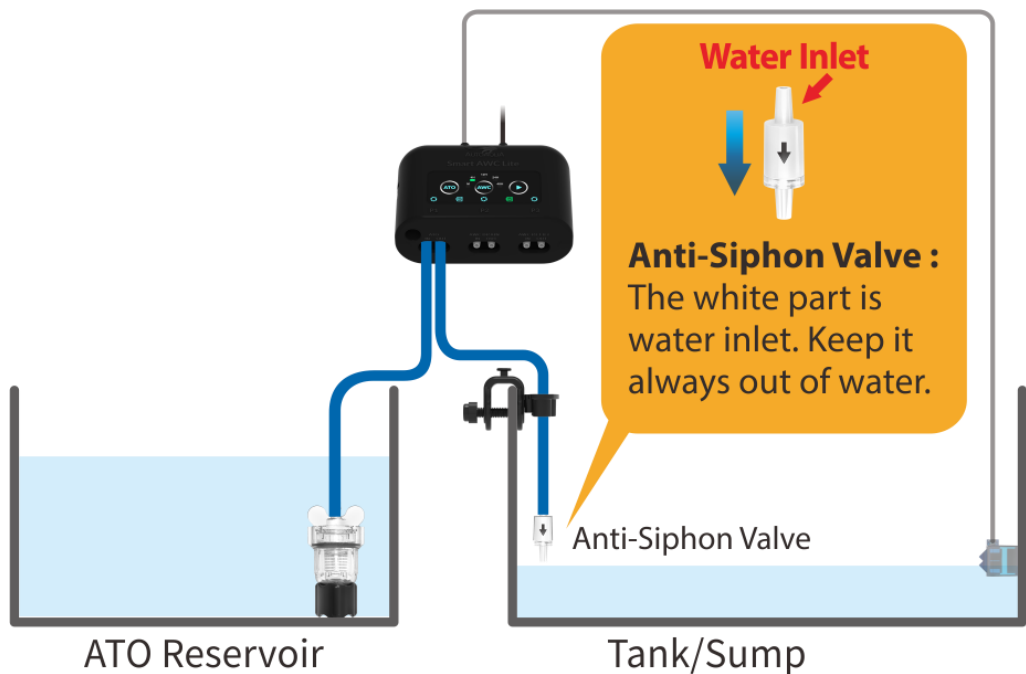
The forward siphon pressure is too high.

Please lower the water level in the corresponding reservoir, or adjust the outlet tube higher.

If neither is an option, you can purchase AUTOAQUA Anti-Siphon Valve(s) and connect it to the outlet tube(s).

One anti-siphon valve can stop about 60cm of water of the forward siphon pressure.

***Connect three or more anti-siphon valve will prevent the pump from working properly.**



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➤ Why is the water level always little higher/lower than the sensor?

	Water Level Higher than Sensor	Water Level Lower than Sensor
Scenario	<p>Direct Light to the Sensor Please set the sensor away from direct light or the sun.</p>	<p>Water Drop Please wipe the sensor with soft towel.</p>
	<p>Bubble Interference Please set the sensor away from micro bubble.</p>	<p>Algae Please clean the sensor with soft brush.</p>
	<p>Algae Please clean the sensor with soft brush.</p>	
	<p>S1 Normal Sensor Failed (If the water level stops at the fail-safe sensor) Highly recommend replace the sensor.</p>	<p>S2 Normal Sensor Failed (If the water level stops at the fail-safe sensor) Highly recommend replace the sensor.</p>



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➤ Why does Smart AWC Lite power on for only a short while and give an audible alert?

QST is not set correctly.

Please reset Smart AWC Lite according to the reset procedure in user manual, p10.

Next, mount the blue sensor at the normal water level (with lower sensor indicating the water level) before connecting the power and do not move it afterwards. If you want to move the sensor or change the water level, you have to reset Smart AWC Lite and unplug and plug it back in again.



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- **Why the pump stops with beeping alarm and orange light but the water level hasn't reach the sensor?**

It is QST function.

For ATO, QST will alarm as water refill time is 6 times longer than the first refill time.

For AWC, QST will alarm as water change time is 3 times longer than the first water change time.

If you would like to increase the QST tolerance, please **clear QST memory** and **extend the first time ATO refill time or AWC water change time**.

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➤ Can Smart AWC Lite detect empty reservoir?

Yes.

With AUTOAQUA Quick Security Technology (QST), it can detect empty reservoir **without extra sensor**.

If there is too little or no water in reservoir, it will trigger QST. The system will shut itself off and stop the pump.

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➤ What can QST do for you?

With AUTOAQUA QST function, it can detect below scenario **sensorless** and without extra setting.

- **Empty Reservoir Detection**

If there is too little or no water in reservoir, it will trigger QST. The system will shut itself off and stop the pump.

- **Pump Failure**

When pump fails, causing no water replenishment, the QST will alarm as ATO is 6 times longer than the first time/ AWC is 3 times longer than the first time.

- **Sensor Failure**

If both normal and fail-safe sensor fail, it will trigger QST and shut itself off.

- **Others Device Failure**

If above 3 scenario have been excluded, it might be other device failure (ex. Return pump, Skimmer...etc.). Please check others device in your aquarium system.

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➤ What is the difference between AWC Lite and AWC Duo?



	Smart AWC Duo SAWC-400P	Smart AWC Lite SAWC-470D
Function	ATO + AWC	ATO + AWC
Ideal Tank	Salt/Fresh Water Any size of tank	Salt Water Tank under 150 gallons
Optical Sensor	Optical Dual Sensor in Circle	Optical Dual Sensor in Square
Pump	DC Refill Pump	DC Diaphragm Pump (Built-in Anti-Siphon)
Optional Water Refill Device	<ul style="list-style-type: none"> DC Solenoid Lifer Pump Lifer Pump Premium (for high head) AC Switch 	N.A.
Time Setting	Max. 99 D 23 H Min. 1 H	4H/12H/24H/48H
Mode	Manual/Auto	Manual/Auto
Built-in QST	Yes	Yes
Audible Alarm	Yes	Yes
Benefits	<ol style="list-style-type: none"> Various water refill device option Various Time Setting Suitable for any size of tank Suitable for Salt/Fresh Water No need to turn off Return Pump during water change 	<ol style="list-style-type: none"> Easiest & Simplest Time Setting Say goodbye to tangled wires Smooth & Consistent Water Flow No need to turn off Return Pump during water change

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