



# Sumplless ATO

Manual



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Model

SATO-200P

Thank you for purchasing the XP Aqua Sumpless ATO.

Not only is the XP Aqua Sumpless ATO the first and only ATO designed specifically for aquariums without sumps, it also doubles as a surface skimmer and media reactor.













With XP Aqua's proprietary dual-optical sensor, the Sumpless ATO dependable keeps your aquarium topped off and saves you the hassle of daily water additions.

Working together with the dual-optical sensor is the included Flexi Surface Skimmer & Media Reactor. The Flexi draws the oily water from the aquarium surface and process the water through its chambers where activated carbon can be used to clean/polish water. Other filtration media can also be used based on your preference and goals.

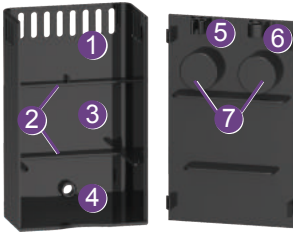
These instructions will guide you through the installation and operation of the Sumpless ATO.

Thank you for choosing XP Aqua!

## List of Parts

| Item                           | Picture   | Description   |
|--------------------------------|---|---|
| Flexi Overflow Box             |    | Box x1<br>Flexi Filter Plate x2   |
| 1-der Stick Ultra Media        |    | Mixed bed, super efficient chemical filtration media.   |
| Flexi Reversible DC Pump       |    | Drain the water from the overflow box   |
| Outer Waterproof Magnet        |    | Max mounting thickness : 1/2 inch (12.7 mm)  |
| Duetto ATO Controller          |    | Auto Top Off with Dual Sensors and a dry side magnet*   |
| ATO DC Pump                    |    | 1. Refill overflow box<br>2. Head : 8.2 feet (250 cm)   |
| Power Adapter for Sumpless ATO |    | 1. Universal Power Supply : 110 V-240 V<br>2. Male connector- Duetto ATO Controller; Female connector- Flexi DC Pump          |
| Siphon Break                   |    | A connector to break the siphon   |
| Elbow Adapter                  |   | Connect tubes   |
| Tubing 6.5 feet (200 cm)       |  | Used with ATO DC Pump   |
| Universal Tube Holder*         |  | For rimmed or rimless aquariums up to 1/2 inch (12.7 mm)  |

\*The dry side magnet and the universal tube holder are needed only if you use Duetto ATO solely, i.e. without the overflow box.



Flexi Overflow Box

1. Overflow Holes
2. Brackets for Flexi Filter Plates
3. Media Chamber
4. Water Inlet/Outlet
5. Cable Clamp
6. Tube Holder
7. Magnets ⚠️



Flexi Reversible DC Pump

8. Water Inlet
9. Water Outlet

⚠️ Caution : Risk of Injury from Strong Magnets

## Notice

1. Please read the manual before installation. Keep the power adapter dry and avoid any contact with water to prevent malfunctions.
2. It is not necessary to rinse the 1-der Stick media before use. The 1-der Stick can be used for up to 3 months and varies with different tank environments. Replace the 1-der Stick as needed for best filter performance. \*note: you can also use a media bag and your filter media of choice in place of the 1-der Stick.
3. It is normal that there are small bubbles coming out of the overflow box when initially installed. They will disappear over time.
4. Please note the water level must always be higher than the overflow holes, or the pump will run dry. Damage in such manner is not covered by warranty.

## Quick Security Technology (QST)

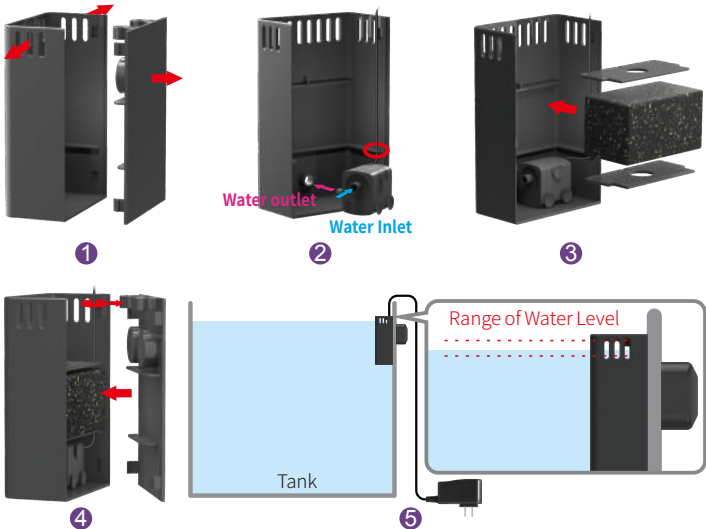
Duetto ATO uses QST for real-time protection against any failure situation. The controller will give an audible and visual alert when it senses any other refilling time is 6 times longer than the first refilling time.\* For example, if the first refilling time is 10 sec, it will alert when any other refilling time is over 60 sec.

\*No security time control for the first refilling

## Installation

### I. Overflow Box (Surface Skimmer)

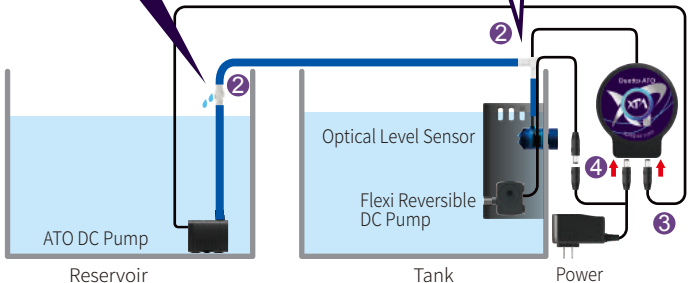
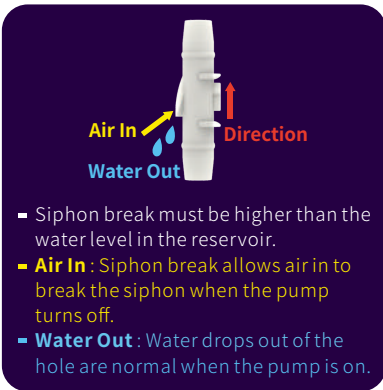
- 1 Open the overflow box by spreading two short sides a little and pulling out the back cover.
- 2 Check if Flexi DC Pump is installed correctly. The water outlet should be connected to the box with the water inlet facing the left side. Then fix its power cable in the gap on the right side.
- 3 Put the filter plates on the brackets in the overflow box (short side outwards) and the 1-der Stick Ultra Media between the plates.
- 4 Close the overflow box, then fix the power cable of the pump with the cable clamp.
- 5 Mount the overflow box on the wall of the tank with the magnetic box holder. The best water level is about 1/4 inch (64 mm) higher than the lower edge of the overflow holes to keep its balance in the tank and the overflow box.



## II. Auto Top Off

- 1 Mount the Dual Optical Level Sensor with the magnet in the overflow box and fix its cable with the cable clamp.
- 2 Connect ATO refill tube (ATO DC Pump ↔ siphon break ↔ elbow adapter ↔ tube holder in the over flow box).
- 3 Connect the ATO DC Pump with the controller.
- 4 Connect the male connector of the power adapter with the controller, and the female connector of it with the Flexi DC pump. Then connect power.

\*Please avoid setting up the sensor in an area with micro bubbles or direct light.



## LED Indicator

| LED Color                      | Status                              | Description  | Action   |
|--------------------------------|-------------------------------------|--|--|
| Blue LED                       | Solid                               | Power on   | N.A.   |
|                                | Circulating                         | Refilling / Pumping  | N.A.   |
|                                | Flashing with audible alerts        | Pump connection failure                                    | Check the connection of the pump and the controller.   |
|                                | Flashing quickly for a short time** | The fail-safe sensor senses the water level changes.       | 1. Clean the sensor<br>2. check the set-up of siphon break and tubes.                          |
| Alternating Blue & Orange LED* | Flashing with audible alerts        | QST alarm:<br>1. Bubble interference<br>2. Empty reservoir | 1. Clean the sensor or move it to an area away from micro bubbles.<br>2. Refill the reservoir. |
| Orange LED                     | Flashing                            | 72-hour non-filling reminder                               | 1. Clean the sensor.<br>2. Check if the pump functions properly.                               |

\* Please follow the instruction above to fix issues and then unplug the power and plug it back in.

\*\*For very small aquariums, the top sensor may be triggered after each top off. This is normal and no action is required.

## Touch Button



● Touch Button : Switch off the QST alarm.

\*Note : Touching the button will not clear the QST memory. Please unplug the power and plug it back in to clear the QST memory.

## Specifications

1. Power Input : 100-240 VAC 50-60 Hz
2. Flexi Reversible DC Pump :
  - Head : 6.5 ft (200 cm)
  - Flow Rate : 74 gph (280 lph)
3. ATO DC Pump :
  - Head : 8.2 ft (250 cm)
  - Flow rate : 74 gph (280 lph)
4. Flexi Overflow Box : 3.94 x 2.17 x 6.3 inch (100 x 55 x 160 mm)
5. Max Volume of Media Chamber : 3.74 x 1.99 x 1.97 inch (95 x 50.5 x 50 mm)
6. 1-der Stick Ultra Media : 3.54 x 1.5 x 1.89 inch (90 x 38 x 48 mm)
7. Max Mounting Thickness : 1/2 inch (12.7 mm)

## Limited Warranty Policy

1. Limited warranty is provided by XP Aqua only if your XP Aqua Product ("Product") was purchased from an authorized distributor or an authorized reseller. This limited warranty is not transferable.
2. All warranty repairs or replacement are performed by the authorized distributor or authorized reseller in the region where the Product was first shipped by XP Aqua.
3. The limited warranty is valid for a period of 1 year under proper installation and normal use from the date of the original purchase listed on the proof of purchase or sales receipt.
4. In the event of a limited warranty claim, proof of purchase or sales receipt (issued to the original purchaser) is required.

Purchase Date

(Y/M/D)

Warranty Period

One year from the purchase date

Place of Purchase

Store name/phone/email/address

Service

Expert Aqua Co., Ltd.  
 service@xpaqua.com  
 www.xpaqua.com

