



# SMART ATO

Intelligent Aquarium Automation

## Manual



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Model






SATO-100P

## Controller & Accessories

### Smart Controller

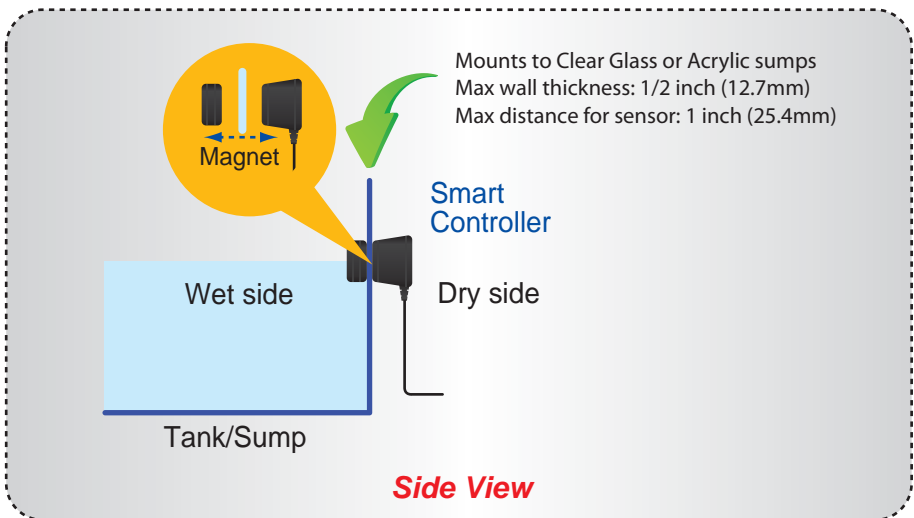
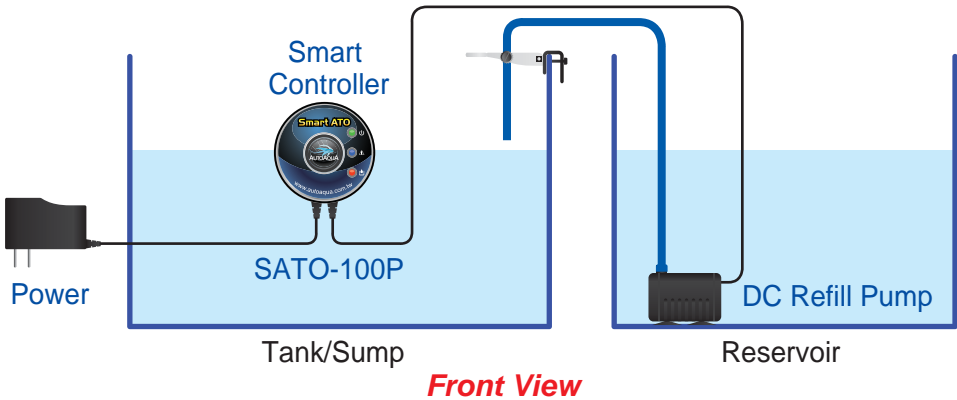
- ① Smart Controller Dry side
- ② Smart Controller Wet side
- ③ Power DC Jack
- ④ Pump DC Jack
- ⑤ Power (Green Led)
- ⑥ Alarm (Blue Led)
- ⑦ Pump (Red Led)



Item	Pictures	Description
SMART Controller		Sense & Control AUTO TOP OFF (All In One)
Power Adapter		Universal Power Supply for Controller
DC Refill Pump		Head : 6.5 feet (200 cm)
Water Tube 2M		Used with DC Refill Pump
Universal Holder		Fix the water tube

## Installation

1. Clean the surface and mount the controller on the wall of the Tank/Sump.
2. Position the Smart controller higher than the original water level.
3. Connect the DC pump wire into the controller and install the water tubing.
4. Connect the power adapter into an AC socket and the controller will begin initializing.
5. Verify the PUMPING initialization and adjust the water level as you require.



## LED indicator

- Green LED (POWER) :
  - Light on : Power on
  - Flashing Slowly : Refilling
- Blue LED (ALARM) : Return to normal after Refilling/Pumping
  - Flashing slowly with an audible alert : Non-Fill issue.
- Red LED (PUMP) : Need to reset the system
  - Light on with a music alert : Water Empty, Bubble noise...
  - Flashing quickly with an audible alert : Poor contact of the PUMP
- All LEDs (INITIALIZE) :
  - Flashing slowly with an audible alert : Initializing
  - Flashing quickly with an audible alert : Initializing fails issue. Need to check mis-alignment & water level setting(higher than the original water level) of the Smart Controller.

## AFS Technology

AFS(Auto Feedback Security) Technology is a dynamic & real-time fail safe protection against failure. The security time out is triggered by the previous pumping on/off period.

- Over-Fill Alert : Water empty, Micro-bubble ...
  - Ta : Over-Fill Security Time Out (Minimum : 15s except Ta1)
  - T<sub>1</sub>,T<sub>2</sub>,T<sub>3</sub>... : **Pumping On Period**

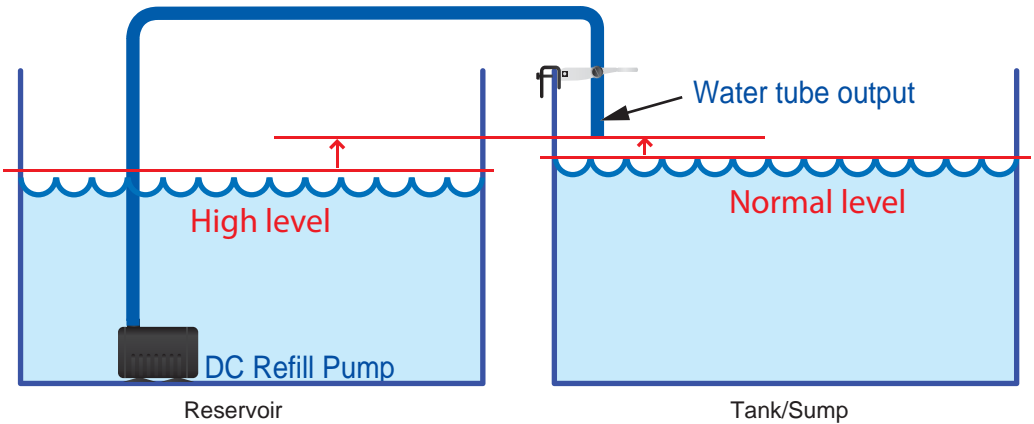


- Non-Fill Alert : Mis-alignment, Algae ...
  - Tb : Non-Fill Security Time Out (Minimum : 24 hrs except Tb1)
  - T<sub>12</sub>,T<sub>23</sub>,T<sub>34</sub>... : **Pumping Off Period**



## Notice

1. Please read the manual in detail before installation
2. Keep the power adapter dry and away from water to avoid any safety issues.
3. Please clean the sensor every 6 months to prevent non-fill issue.
4. Avoid installing controller in an area with micro bubbles or direct lighting.
5. The "Water Tube Output" must be higher than the "Normal Level" in the Tank/Sump and "High Level" in the reservoir to avoid a siphon issue.



## Holder Exchange Procedure (Rimless Tank → Rimed Tank)



## Specifications

1. Power Input : 100-240VAC 50-60HZ
2. DC PUMP :
  - Head : 6.5 ft (200 cm)
  - Flow Rate : 74 gph (280 lph)
3. Mounts to Glass or Acrylic walls
  - Max Wall Thickness by Magnet: 1/2 inch (12.7mm)
  - Max Distance to Sense: 1 inch (25.4mm)

## Warranty Card

1. This product is guaranteed for two years from the date of purchased at normal operation.
2. The warranty is not transferable.
3. Any incorrect operation will not be warranted and will result in a repair fee.
4. All warranty repairs are performed by the distributor. Please contact the distributor to obtain a Return Authorization number when sending a warranted unit.
5. This guarantee is effective at the date listed on your sales receipt.

### Purchased Date

(Y/M/D)

### Warranty Period

Two years from the purchased date

### Place of Purchase

(Store name, phone, email, address)

### Service

AUTOAQUA Technologies Co., Ltd.  
7F-7.,NO.229,Fuxing 2nd Rd.,Zhubei City,  
Hsinchu County,Taiwan  
E-mail : [service@autoaqua.com.tw](mailto:service@autoaqua.com.tw)  
<http://www.autoaqua.com.tw>