



Smart ATO Duo

Manual



Model

SATO-280P

List of Parts (Can Be Purchased Separately)

Item	Picture	Description
Smart ATO Duo Controller	 A black, circular smart ATO controller with a blue LED display in the center showing 'Duo'. It has a blue sensor probe attached to the top.	<ol style="list-style-type: none">1. Auto Top Off with Dual Sensors2. Max Mounting Thickness : 1/2 inch (12.7 mm)
Universal Power Adapter	 A black, rectangular power adapter with a three-prong AC plug on one end and a DC output cable on the other.	Input : 100-240 VAC 50-60 Hz Output : DC 12 V / 1 A
DC Refill Pump	 A black, rectangular DC refill pump with a power cord and a tube connection point.	Head : 8.2 feet (250 cm)
Universal Tube Holder	 A black, U-shaped plastic tube holder with two adjustable clamps on the sides.	For rimmed or rimless aquariums up to 1/2 inch (12.7 mm)
Siphon Break	 A white, cylindrical siphon break connector with a textured surface.	A connector to break the siphon
Tubing 6.5 feet (200 cm)	 A coiled, clear plastic tubing.	Used with DC refill pump

Installation

1. Mount the dual sensors at the normal water level (with the water level reaching the lower one) on the tank/sump with the magnet.*
2. Connect one tube with the pump. Plug the siphon break into tubes, keep it higher than the water level of the reservoir, and set up the water tube by the universal holder.
3. Connect both of the DC pump and power adapter with the controller and then connect power.

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



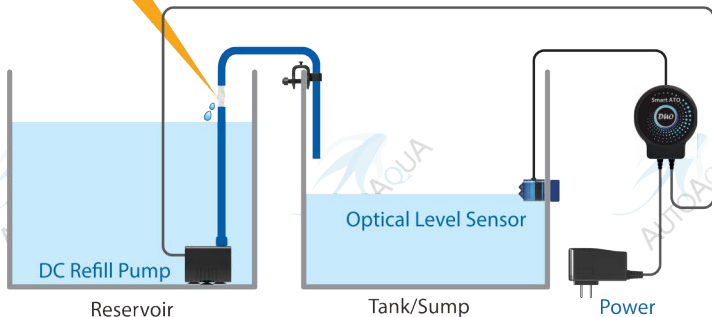
Caution : Risk of Injury from Strong Magnets



Siphon break must be higher than the water level in the reservoir.

Air In : Siphon break allows air in to break the siphon when the pump turns off.

Water Out : Water drops out of the hole are normal when the pump is on.



LED Indicator

LED Color	Status	Description	Action
Blue LED	Solid	Power on	N.A.
	Circulating	Filling/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 detects the water level changes.	1. Clean the sensor. 2. Check the set-up of siphon
Alternating Blue & Orange LED*	Flashing with audible alerts	QST alarm : 1. Bubble interference 2. Empty reservoir	1. Clean the sensor or move it to an area away from micro bubbles. 2. Refill the reservoir.
Orange LED*	Flashing	72-hour non-filling reminder	1. Clean the sensor. 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.

Specifications

- Power Input : 100-240 VAC 50-60 Hz
- DC Pump :
 - Head : 8.2 feet (250 cm)
 - Flow Rate : 74 gph (280 lph)
- Max. Mounting Thickness : 1/2 inch (12.7 mm)

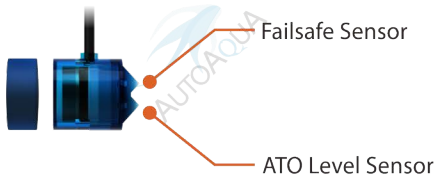
Quick Security Technology (QST)

Smart ATO Duo 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.*

QST can detect the malfunction of the sensor or the controller, and the empty reservoir to avoid the pump running dry. For example, if the first refilling time is 10 sec, it will alert when any other refilling time is over 60 sec.

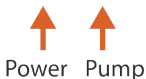
***No security time control for the first refilling.**

Touch Button & Dual Sensors



Duo Button : Switch off the QST alarm.*

***Touching the Duo button will not clear the QST memory. Please unplug and plug it back in to clear the QST memory.**



Limited Warranty

1. Limited warranty is provided by AUTOAQUA only if your AUTOAQUA Product ("Product") was purchased from an authorized distributor or an authorized reseller.
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 AUTOAQUA.
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

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7F-7.,NO.229,Fuxing 2nd Rd.,Zhubei
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* Please go to AUTOAQUA website to get the distributor information.

