



Smart ATO Lifter

Manual



Model

SATO-272D

List of Parts (Can Be Purchased Separately)

Item	Picture	Description
Smart ATO Lifter Controller		<ol style="list-style-type: none"> 1. Auto Top Off with Square Dual Sensor 2. Max. Mounting Thickness : 1/2 inch (12.7 mm)
AQUA Lifter Pump		<p>Replaceable Diaphragm Pump with Built-In Anti-Siphon Valve</p>
Universal Power Adapter		<p>Input : 100-240 VAC 50-60 Hz Output : DC 12 V / 1 A</p>
AQUA Lifter Pump Holder		<ol style="list-style-type: none"> 1. Used with AQUA Lifter Pump 2. For rimmed or rimless aquariums up to 1/2 inch (12.7 mm)
Prefilter		<p>A cleanable connector to remove particles in the reservoir</p>
Prefilter Base		<p>A weighted base keeps the Prefilter in the water</p>
Tubing 6.5 feet (200 cm)		<p>Used with Diaphragm Pump and Prefilter</p>

AQUA Lifter Pump & Square Dual Sensor

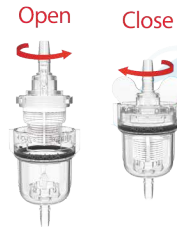


- 1 Water Inlet
- 2 Water Outlet
- 3 Mounting Hole
- 4 Failsafe Sensor
- 5 ATO Level Sensor

Prefilter Base Assembly



Cleanable Prefilter



Specifications

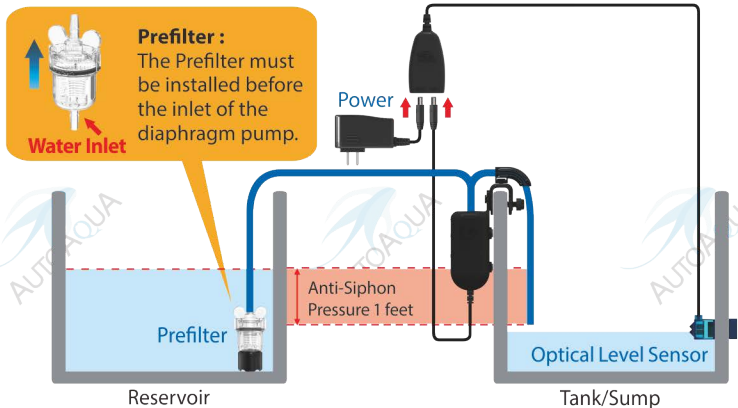
1. Power Input : 100-240 VAC 50-60 Hz
2. Diaphragm Pump
 - Suction Head : 6.5 feet (200 cm)
 - Flow Rate : 3.2 gph (12 lph)
 - Built-In Anti-Siphon Pressure : 1 feet (30cm) of water. The height from water level of reservoir to tube outlet must be smaller than 1 feet (30cm).
 - Power : 2 W @ 12 VDC
 - Cable Length : 6 feet (180 cm)
 - Pump Connector : DC 5.5 x 2.5 mm Male
3. Tubing I.D. : 5/32 inch (4 mm) / O.D. : 1/4 inch (6.4 mm)

Installation

1. Mount the square dual sensor on the tank/sump with the magnet, and adjust the lower sensor to the desired water level.*
2. Fix the AQUA Lifter Pump Holder on the tank/sump and mount the AQUA Lifter Pump.
3. Cut the tube to a proper length. Connect the water inlet tube with the Prefilter and put it in the reservoir. Then insert the tube into the inlet of pump.
4. Connect the water outlet tube and fix it with the AQUA Lifter Pump Holder.
5. Connect the pump and the power adapter with the controller.
6. Connect power and do one-time filling to check there is no water dripping from reservoir to tank/sump (forward siphon) after the pump stops.**
7. Unplug and plug the power adapter back in for reset.

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

**If there is still water dripping, please lower the level of reservoir, or adjust the tube outlet higher, or purchase an Anti-Siphon Valve to connect it to the tube outlet.



LED Indicator

LED Color	Status	Description	Action
Blue LED	Solid	Power on	N.A.
	Flashing	Filling / Pumping	N.A.
	Flashing quickly for a short time**	The failsafe sensor detects water level changes.	N.A.
Red LED*	Flashing with audible alerts	QST alarm : 1. Bubble interference 2. Empty reservoir 3. The prefilter is clogged. 4. Diaphragm pump is clogged or its lifetime comes to an end.	1. Clean the sensor or move it to an area away from micro bubbles. 2. Refill the reservoir. 3. Clean the prefilter. 4. Replace the diaphragm pump.

*After fixing the issues, please unplug the power adapter and plug it back in to reset the device.

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

Quick Security Technology (QST)

Smart ATO Lifter uses QST for real-time protection against any failure situation. The controller will give a 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.

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

Notice

1. Please read the manual before installation. Keep the controller and power adapter dry and avoid any contact with water to prevent malfunctions.
2. Make sure the water flows through the tubing smoothly.
3. Please open and clean the Prefilter every 3 to 6 months for best filter performance.
4. Please visit AUTOAQUA's website to know how to replace the pump.

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

AUTOAQUA Technologies Co., Ltd.
7F-7.,NO.229,Fuxing 2nd Rd.,Zhubei
City, Hsinchu County,Taiwan
E-mail : service@autoaqua.com.tw
www.autoaqua.com.tw

* Please go to AUTOAQUA website to get the distributor information.

