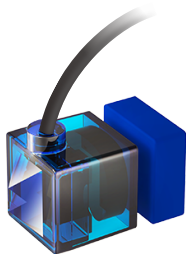




Duetto² ATO

Manual



Model

DATO-202P

Thank you for purchasing the XP Aqua Duetto² ATO.

The Duetto² is the world's smallest dual-sensor ATO, as well as the easiest to install. Our proprietary dual-optical sensor utilizes the bottom sensor for normal top-off operation. The top sensor, along with our intelligent QST programming, are used for overflow protection.

The new Duetto² Controller features updated circuitry that further protects the controller from electrical variances. The new square sensor features improved protection against moisture intrusion: making your Duetto² ATO more reliable and more durable than ever.







Not only will the Duetto² ATO maintain a super-precise water level in your sump, it will also keep your sump safe from overflows caused by over filling.

The Duetto² ATO is plug-and-play and all parts are included for most installations. No programming or adjustments are required.

These instructions will guide you through the installation and explain how the system will operate.

Thank you for choosing XP Aqua!

List of Parts

Item	Picture	Description
Duetto ² ATO Controller		Auto Top Off with Dual Sensors
Universal Power Adapter		Input : 100-240 VAC 50-60 Hz Output : DC 12V / 1A
ATO DC Pump		Max. Head : 8.2 feet (250 cm)
Universal ATO Tubing Holder		For rimmed or rimless aquariums up to 1/2 inch (12.7 mm)
Siphon Break		A connector to break the siphon
Tubing 6.5 feet (200 cm)		Used with ATO DC Pump



Caution : Risk of Injury from Strong Magnets

Quick Security Technology (QST)

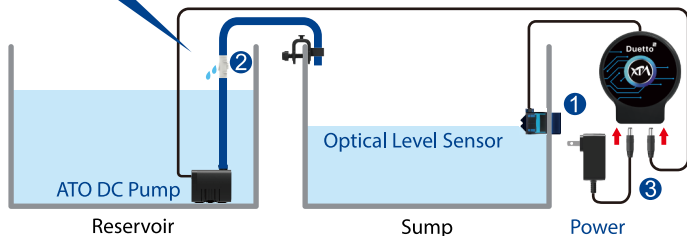
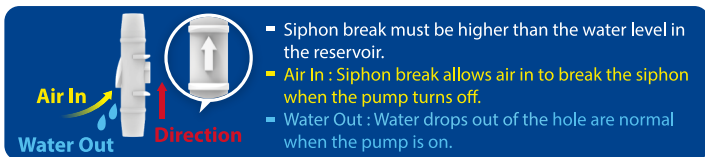
Duetto² ATO uses QST for real-time protection against any failure situation. The controller will give an audible and visual alert when it senses any other refilling time is 6 times longer than the first refilling time.* For example, if the first refilling time is 10 sec, it will alert when any other refilling time is over 60 sec.

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

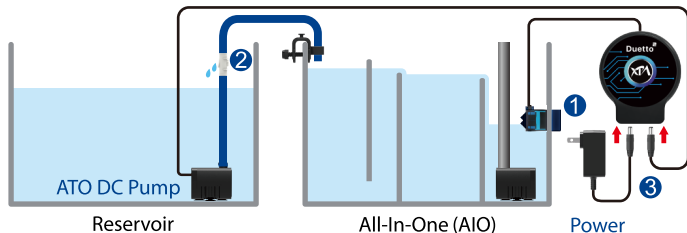
Installation

- 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 ATO refill tube (pump ⇔ siphon break ⇔ tubing holder).
- 3 Connect both of the DC pump and power adapter with the controller and then connect power.

*Please set the sensor away from direct infrared light or sun light to avoid malfunction.



*Make sure all plugs are snug and all wiring have drip-loops for safety.



*For AIO aquariums, the sensor should be placed in the return chamber.
ATO refill tube should be placed in a different chamber, away from the sensor.

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 detects the water level changes.	<ol style="list-style-type: none"> 1. Clean the sensor. 2. Check the set-up of siphon break and tubes.
Alternating Blue & Orange LED*	Flashing with audible alerts	QST alarm: <ol style="list-style-type: none"> 1. Bubble interference 2. Empty reservoir 	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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 small aquariums and AIO (All-In-One) aquariums, water may fill up to the top sensor, or slightly above the top sensor due to their small volume. 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. DC Pump :
 - Max. Head : 8.2 feet (250 cm)
 - Max. Flow : 74 gph (280 lph)
3. Max. Mounting Thickness : 1/2 inch (12.7 mm)

Limited Warranty

Notice: Read the entire Limited Warranty prior to purchasing, installing or using this product. By purchasing, installing or using this product, you are acknowledging that this Limited Warranty is part of the sale terms.

XP Aqua products are warranted to be free from defects in defects and workmanship for one year from the date of original purchase from an authorized reseller to the original purchaser. This Limited Warranty is not transferable.

XP Aqua is not responsible for, and the Limited Warranty does not cover the following: product failures or damage due to normal wear and tear, damages caused by heat/moisture/neglect/improper installation/misuse/abuse/modifications/corrosive chemicals.

Limitation of Liability – this Limited Warranty covers only the repair or replacement of the product when damage or failure is a direct result of a defect of the materials or workmanship. In no event will XP Aqua be liable to you or any other party for any direct, indirect, incidental, consequential or other damages arising out of the use of the product. XP Aqua does not cover personal injury, personal loss, or other damages associated with the use of the products. In no case will XP Aqua's liability exceed the amount you paid for the product. If you disagree with these terms and conditions, do not use the covered products.

All warranty repairs or replacements are performed by the authorized distributor in the region where the Product was first shipped by XP Aqua. To request warranty service, please email us through our website, www.xpaqua.com or service@xpaqua.com. You will receive instructions on how to return the Product for repair or replacement. A copy of the original purchase receipt will be required and buyer shall be responsible for shipment and insurance costs to send the Product to XP Aqua for warranty service. International and/or expedited shipping are not covered under your XP Aqua warranty.

