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How to connect and remove tubing?

Smart Doser is designed to use with 1/4" quick-connect fittings. The following illustrations show how to connect and remove tubing.

Connect tubing

Firmly push one end of tubing into 1/4" quick-connect fitting. Please make sure that tubing is pushed all the way into fitting for complete seal.



• Remove tubing

While holding the round retention ring tightly against fitting, simultaneously pull the tubing out of the 1/4" quick-connect fitting.

Hold the round retention ring tightly









Can I replace the tubing with 1/4" Polyethylene RO Tubing?

Yes.

Smart Doser is equipped with 1/4" quick-connect fittings. It is compatible with 1/4" Polyethylene RO Tubing.

<Please note>

Polyethylene tubing is quite hard, performance may be affected if the tubing is bent. Insert the tubing into the Smart Doser smoothly and fully to ensure proper performance.



*Note : The Polyethylene RO Tubing should not be bended within around 7.87 inches (20 cm) from the 1/4" Quick Connector.







Can I replace the tubing with Silicon Tubing?

Yes.

You can purchase **1/4**" **Stem to 1/4**" **Hose Elbow** to use with Silicon Tubing.









How can I install the tubing to the supplement lid pin?

You can purchase 1/4" Tubing Reducer (TR-0403)* from AUTOAQUA.

Connect the thin part of Tubing Reducer to the supplement lid and connect the Smart Doser water tube to the width part.

*Reduce 1/4" tubing ID from 4mm to 3mm





Why is the supplement not moving when the pump is on?

The pump may be sucking in air.

 Please make sure the tube is inserted completely into the quick-connect fittings. (It will feel like pushing twice when you insert tubing completely in.)

 Check the supplement reservoir. Make sure the tubing is inserted completely into the quick-connect fittings.



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Smart Doser 4

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Smart Doser 4





- What can I do if my device cannot be found when trying to add a new device?
 - 1. Please check whether Device Bluetooth is ON. (Home Indicator flashing.)



If device Bluetooth is OFF (Home Indicator solid), please press and hold the Home Indicator button for at least 8 seconds until all the lights flash with a beep sound.

Device will go into Bluetooth mode and the Home Indicator will be flashing.

2. Press **search again** on the App and the device should now show up.

< Test	
Add New Device	
Tap to select a device to add to tank.	
Q	
No device found	
Please check your Bluetooth connection and that your device is nowered on, or search again	
Add Device	Back to Top





What can I do if the App installation failed?

- The distance between the device and the WiFi router might be too far. Please place the device near the router.
- Make sure your home network is 2.4 GHz rather than 5 GHz.
- Double check the WiFi password.
- The WiFi router signal might be too weak (Too many devices connect to same WiFi router.)
 Restart the router and try again.

Connecting Error	
Device detected but connection failed. Please try the following troubleshooting steps.	
t == t Alf0A0;JA	
There is a construction of the construction of	
Oops, could't connect to device	
 The distance between the device and the router is too far. The WiFi password is incorrect 	
 aquaLine is only compatible with 2.4GHz WiFi band. Please check 	
your WiFi settings.	Back t





> Why is my device connection unstable or keep showing "Fail" notice ?

The WiFi router signal might be too weak (too many devices connect to the same WIFI router) or the device may be too far from the router.

Restart the network router and try again or move the device closer to the router.







What is the difference between On Line Mode (WiFi) and Off Line Mode (BT)?

0	
2 Tanks 2 Devices	🛞 Off Line Mode (Bluetooth) :
Tank 1 Tank 2 All Devices(2) Image: Feed Mode	No active connection to network. Limited functions available. (Group & Feed Mode is not available in Off Line Mode.)
NUMBER Doser 2 ••• •1:0 ml P2:0 ml	Device is directly connected to your phone through Bluetooth.
Doser 4	
••••• P1 : 0 ml P2 : 0 ml P3 : 0 ml P4 : 0 ml	🕗 On Line Mode (WiFi) :
	Permanent network connection. Connected through your router and the cloud.
ြဲ ြ ေလ်ာ Home Notification Setting	Full Function available. Including monitoring & controlling the device from anywhere in the world.



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How do I switch from On Line Mode (WiFi) to Off Line Mode (BT) ?

Yes, after the device has been added to the app, you can switch to Off Line Mode (BT).

 Press and hold the Home indicator on device at least 8 second till all the indicators flashes with a beep sound. Home indicator turns from solid to flashing.

- 2. Switch the On Line mode to Off Line mode on the App.
 - Press and hold the cloud icon until dialog window pops open.
 - 2 Click "Yes".
 - **3** "Save" all the setting.











How do I switch from Off Line Mode (BT) to On Line Mode (WiFi)?

Please add device back to the App to switch to On Line Mode (WiFi).



Select "Add new device".









I don't have a WiFi router in my house, can I control my Smart Doser by Bluetooth Mode?

Yes, you can. Please follow below instruction to set up Smart Doser even there is no WiFi router in your house.

- Please find a place where having the WiFi router. Then bring the Smart Doser and power adapter with you to install the Smart Doser under its WiFi router.
- 2. Switch the Online Mode to Bluetooth Mode.
 - A. Press and hold the Home indicator on device at least 8 second till all the indicators flashes with a beep sound. Home indicator turns from solid to flashing.
 - B. Switch the On Line mode to Off Line mode*.
 - Press and hold the cloud icon until dialog window pops open.
 - 2 Click "Yes".
 - 3 "Save" all the setting.

*Note : Firmware cannot be updated in Off Line Mode (BT).











What should I do when the Home indicator is flashing but the App is showing On Line mode?

It might due to disconnection between device to the AWS Cloud. Please **restart the network router** then add the device back to the aquaLine app.







Can I change the network router or WiFi SSID even if the device has already connected to the App?

Yes.

Please follow below instruction to change the WiFi SSID.

 Press and hold the Home indicator for at least 8 second until all the indicators flash with a beep sound. Home indicator begins to flash.



Add the device back to the App.
 You can select desired WiFi SSID in the setup process.

2 Tanks 2 Devices	60	WiFi Setting
Tank 1 Tank 2 Devices(2)	Feed Mode	WiFi Network Name (SSID)
Doser 2	2	WiFi Network Password
•.•• P1 : 0 ml P2 :	0 ml 🚯	aquaLine is only compatible with 2.4GHz WiFi band.
Doser 4 ••••• P1 : 0 ml P2 : P3 : 0 ml P4 :	0 ml 🛞	Connect
	ξ ^Ω	





> What types of notifications does aquaLine send?

aquaLine will notify the below information to you :

- Empty Supplement
- Feed Mode has completed
- Device changed to another user
- An other mobile device accessed your account
- Password Change







Why does the Smart Doser keep detecting empty supplement while there is still supplement in the reservoir?

There might be bubbles/air in the inlet tube causing the sensor to detect that there is no supplement.

Please follow below steps to ensure that the supplement goes through the tube completely without any air inside.

- Move the inlet tube out of the supplement reservoir and perform a manual dose to drain all the supplement out of the tubing.
- Place Smart Doser and tubes in a VERTICAL position and organize the tubing to make sure there is no kinks or sharp turns.
 Vertical
- Place the inlet tube in the supplement reservoir and do a manual dose to let the supplement go through the tubing completely. Check to make sure there is no air in the tubing.





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Can I place Smart Doser in the horizontal position?

We highly suggest to place Smart Doser in vertical for the best performance.

Bubble/air can get stuck in the tubing easily when the Smart Doser is placed in a horizontal position. This can trigger the empty supplement alarm often since the sensors are detecting bubble/air.

If it is necessary to place Smart Doser in a horizontal position, please always place Smart Doser in a VERTICAL position when perform a manual dose after refilling the supplement to purge all bubbles/air from the tubing.

After supplement fully filled in the tube without any bubble/air, you can place Smart Doser back in a horizontal position.







How do I dismiss the audible alarm?

You can dismiss audible alarms by touching any button on the Doser or click (on the App.



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Device



Group

Manual

Calibration



How do I disable audible alarms?

You can switch the alert to silent mode on the App.

In Silent mode, the App will send a notification but no audible alarm when empty supplement is detected.







How do I disable empty supplement detection?

You can press and hold the original constraints in the "Sensor Disable" window opens. Press OK, then sensor detection will shift to "OFF" status.







Why is there no empty supplement alarm when there is no supplement left during manual dose?

There are 2 possibilities.

 If the daily dosing volume is zero, the App will disable the empty supplement detection for that channel.



 The empty supplement detection is turned off.
 Press and hold "OFF" to switch the detection on.







How do I know when there is an App or Firmware update?

For App update, it will show a red spot on the Setting page.

Setting > App Info > App Version

Click "App Version", it will connect to Apple Store/ Google Play update page.

ll Device	es(2)	HIN Feed Mode	C	Account	
n i	D 2			Email Address	lydia850/10(@gmail.com
• •	P1 : 0 ml	P2:0 ml	ß	Change Password	
				General	
Ac Lines	Doser 4		2	Notifications	>
••••••	P1 : 0 ml P3 : 0 ml	P2:0 ml P4:0 ml	8		
				App Info	
				About aquaLine	>
				APP Version	172 \$

For Firmware update^{*}, it will show a red spot on the Home Page. Home > Device > Firmware Update

Click "Update Now" to upgrade to the latest firmware.



*Note : Firmware updates must be in On Line Mode (WiFi).





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It is Smart Doser schedule time.



Day Time : Dosing will be done from 08:00 a.m. to 08:00 p.m.



Night Time : Dosing will be done from 08:00 p.m. to 08:00 a.m.



24 Hour : Dosing will be done in a 24 hour period.







How is the dosing schedule determined?

Our Smart Dosing Schedule follows the time table below. Regardless of the volume and the number of supplements being dosed, the Smart Doser intelligently calculates when and how much supplement needs to be dosed each time.

A 7-minute intervals is implemented between each dosing pump to avoid unwanted supplement mixing.

	Firmware	version	: 24061700	(Old)
--	----------	---------	------------	-------

08:00 a.m. to 08:00 p.m.

Daily Dosing Volume	Times / Day	Dosing Time
1-20 ml	Once / Day	14:00
21-50 ml	Twice / Day	12:00 \ 16:00
51-100 ml	4 times / Day	08:00 \ 11:00 \ 14:00 \ 17:00
101-999 ml	12 times / Day	08 : 00 ~ 19 : 00 (every hour)

🕓 08:00 p.m. to 08:00 a.m.

Daily Dosing Volume	Times / Day	Dosing Time
1-20 ml	Once / Day	02:00
21-50 ml	Twice / Day	00:00 \ 04:00
51-100 ml	4 times / Day	20:00 \ 23:00 \ 02:00 \ 05:00
101-999 ml	12 times / Day	20 : 00 ~ 07 : 00 (every hour)

24 hours

Daily Dosing Volume	Times / Day	Dosing Time
1-20 ml	Once / Day	12:00
21-50 ml	Twice / Day	08:00 \ 16:00
51-100 ml	4 times / Day	06:00 \ 12:00 \ 18:00 \ 00:00
101-999 ml	12 times / Day	02 : 00 ~ 00 : 00 (every 2 hour)





Firmware version : 24111200 (New)

Upgraded Version

08:00 a.m. to 08:00 p.m.

Daily Dosing Volume	Times / Day	Dosing Time
1 ml	Once / Day	14:00
2 ml	Twice / Day	08:00 \ 14:00
3 ml	3 times / Day	10:00 \ 14:00 \ 18:00
4 ml	4 times / Day	08:00 \ 11:00 \ 14:00 \ 17:00
5 ml	5 times / Day	10:00 \ 12:00 \ 14:00 \ 17:00 \ 19:00
6 ml	6 times / Day	08:00 \ 10:00 \ 12:00 \ 14:00 \ 16:00 \ 18:00
7 ml	7 times / Day	08:00 \ 09:00 \ 10:00 \ 12:00 \ 14:00 \ 16:00 18:00
8 ml	8 times / Day	08:00 \ 09:00 \ 10:00 \ 12:00 \ 14:00 \ 15:00 \ 16:00 \ 18:00
9 ml	9 times / Day	08:00 \ 09:00 \ 10:00 \ 11:00 \ 12:00 \ 14:00 \ 15:00 \ 16:00 \ 18:00
10 ml	10 times / Day	08:00 \ 09:00 \ 10:00 \ 11:00 \ 12:00 \ 14:00 \ 15:00 \ 16:00 \ 17:00 \ 18:00
11 ml	11 times / Day	08:00 \ 09:00 \ 10:00 \ 11:00 \ 12:00 \ 13:00 \ 14:00 \ 15:00 \ 16:00 \ 17:00 \ 18:00
12-999 ml	12 times / Day	08:00 \ 09:00 \ 10:00 \ 11:00 \ 12:00 \ 13:00 \ 14:00 \ 15:00 \ 16:00 \ 17:00 \ 18:00 \ 19:00





Upgraded Version

() 08:00 p.m. to 08:00 a.m.

Daily Dosing Volume	Times / Day	Dosing Time
1 ml	Once / Day	02 : 00
2 ml	Twice / Day	20:00 \ 02:00
3 ml	3 times / Day	22:00 \ 02:00 \ 06:00
4 ml	4 times / Day	20:00 23:00 02:00 05:00
5 ml	5 times / Day	22:00 \ 00:00 \ 02:00 \ 05:00 \ 07:00
6 ml	6 times / Day	20:00 \$ 22:00 \$ 00:00 \$ 02:00 \$ 04:00 \$ 06:00
7 ml	7 times / Day	20:00 \ 21:00 \ 22:00 \ 00:00 \ 02:00 \ 04:00 \ 06:00
8 ml	8 times / Day	20:00 \ 21:00 \ 22:00 \ 00:00 \ 02:00 \ 03:00 \ 04:00 \ 06:00
9 ml	9 times / Day	20:00 \ 21:00 \ 22:00 \ 23:00 \ 00:00 \ 02:00 \ 03:00 \ 04:00 \ 06:00
10 ml	10 times / Day	20:00 \ 21:00 \ 22:00 \ 23:00 \ 00:00 \ 02:00 \ 03:00 \ 04:00 \ 05:00 \ 06:00
11 ml	11 times / Day	20:00 \ 21:00 \ 22:00 \ 23:00 \ 00:00 \ 01:00 \ 02:00 \ 03:00 \ 04:00 \ 05:00 \ 06:00
12-999 ml	12 times / Day	20:00 \ 21:00 \ 22:00 \ 23:00 \ 00:00 \ 01:00 \ 02:00 \ 03:00 \ 04:00 \ 05:00 \ 06:00 \ 07:00



- 24 hours



Upgraded Version

Daily Dosing Times / Day **Dosing Time** Volume 1 ml Once / Day 12:00 2 ml Twice / Day 00:00 \ 12:00 04:00 \ 12:00 \ 20:00 3 ml 3 times / Day 4 ml 4 times / Day 00:00 \ 06:00 \ 12:00 \ 18:00 04:00 \ 08:00 \ 12:00 \ 18:00 \ 22:00 5 ml 5 times / Day 00:00 \ 04:00 \ 08:00 \ 12:00 \ 16:00 \ 20:00 6 ml 6 times / Day 00:00 \ 02:00 \ 04:00 \ 08:00 \ 12:00 \ 16:00 \ 7 ml 7 times / Day 20:00 00:00 \ 02:00 \ 04:00 \ 08:00 \ 12:00 \ 14:00 \ 8 ml 8 times / Day 16:00 \ 20:00 00:00 \ 02:00 \ 04:00 \ 06:00 \ 08:00 \ 12:00 \ 9 ml 9 times / Day 14:00 \ 16:00 \ 20:00 00:00 \ 02:00 \ 04:00 \ 06:00 \ 08:00 \ 12:00 \ 10 ml 10 times / Day 14:00 \ 16:00 \ 18:00 \ 20:00 00:00 \ 02:00 \ 04:00 \ 06:00 \ 08:00 \ 10:00 \ 11 times / Day 11 ml 12:00 \ 14:00 \ 16:00 \ 18:00 \ 20:00 00:00 \ 02:00 \ 04:00 \ 06:00 \ 08:00 \ 10:00 \ 12-999 ml 12 times / Day 12:00 \ 14:00 \ 16:00 \ 18:00 \ 20:00 \ 22:00





How is the dosing schedule determined in Group?

You can connect up to 8 dosing pumps in a group. Each pump operates with 7 minutes intervals.

If you set 8 pumps in a group, P1 will start at 00:00, P2 starts at 00:07, P3 starts at 00:14, P4 starts at 00:21, P5 starts at 00:28, P6 starts at 00:35, P7 starts at 00:42, P8 starts at 00:49.

For example, if every pump daily dosing volume is 60 ml, all in Dosing schedule will be as below :

Pump Number	Dosing Time
P1	08:00 \ 11:00 \ 14:00 \ 17:00
P2	08:07 \ 11:07 \ 14:07 \ 17:07
Р3	08 : 14 × 11 : 14 × 14 : 14 × 17 : 14
P4	08 : 21 \ 11 : 21 \ 14 : 21 \ 17 : 21
Р5	08:28 11:28 14:28 17:28
P6	08 : 35 、 11 : 35 、 14 : 35 、 17 : 35
P7	08:42 11:42 14:42 17:42
P8	08 : <mark>49 × 11 : 49 × 14 : 49 × 17 : 49</mark>





How is the dosing schedule effected in Group if one of the devices shuts down?

It will not affect the Group dosing schedule if one of the devices is shut down.







What will happen if I do a manual dose while the Smart Doser is in the middle of dosing?

The scheduled dosing will pause when performing a manual dose.

After manual dose is completed, the Smart Doser will wait 1 minute before it resumes dosing.

If there is no dosing schedule after 1 minute waiting, the Smart Doser will not dose.



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- According to the schedule, the Smart Doser should be dosing, but it isn't.
 - Check the device and App to see if any alarms have been triggered. Dismiss the red alarm (refill supplement if needed and the pump indicator will turn back to its original color). Smart Doser will resume operation after a 1-minute delay.
 - Check whether the daily volume or time is set correctly. •
 - The device may have become disconnected to the Cloud system (device Home indicator flashing). Please add the device back to the app again.



1 Click "+" icon.



Select "Add new device".





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How can I edit the Tank name, adjust Tank position, or delete Tank?

• Edit Tank name : Press and hold the tank name for around 3 seconds. A pop-up window will appear and allow you to modify the tank name.



Adjust Tank position & Delete Tank : Click i to overview all the tanks. Press and hold the tank then drag it to change position. Click i to edit tank name or delete tank.

2 Tanks	< All Tanks
2 Devices Tank 1 Tank 2 All Devices(2)	Tank 1
Doser 2_FF35 Control •• P1 : 0 ml P2 : 0 ml §	2 Devices
Doser 4 Image: Construction ••••• P1 : 0 ml P2 : 0 ml Image: Construction Image: Construc	



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How to edit my personal image or cover image?

- Personal Image : Click the avatar on the Home page.
- Cover Image : Click the Camera on the right top corner.







How can I edit device name, pump name, or indicator color?

- Device name or Home indicator color : Click the Device on the Home page → Click "Device" → Click
- Pump name or Pump indicator color : Click the Device on the Home page → Click "Device" → Click Pump data



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What to do if Feed Mode failed?

If showing (1), it means the device's Feed Mode is not set successfully.

Please click the Feed Mode icon (1) 00:59:58 again.









How does Smart Doser operate after a power outage?

Before a power outage, Smart Doser will memorize every App setting, includes daily dose volume, schedule time, indicator color, group setting, and so on.

After the power is back on, the Smart Doser will synchronize time to the Cloud system (in WiFI mode) and operate its dosing schedule.

In Bluetooth mode, the Smart Doser will synchronize time to your phone or tablet and operate its dosing schedule.



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How to reset and clear all the Doser settings?

Smart Doser 2 & 4

ASD-200 & ASD-400

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 Press and hold the Home indicator on the device for at least 8 second until all the indicators flash with a beep sound. Home indicator will turn to flashing.

2. Delete the Device on App. 2 > -

3. Add the device back to the App.

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Press and Hold

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Why can't I delete the device on the aquaLine App?

If you press any pump indicator **()** before deleting the device on the App, you will have to wait about **1 minutes** before the device can be deleted from the App.



