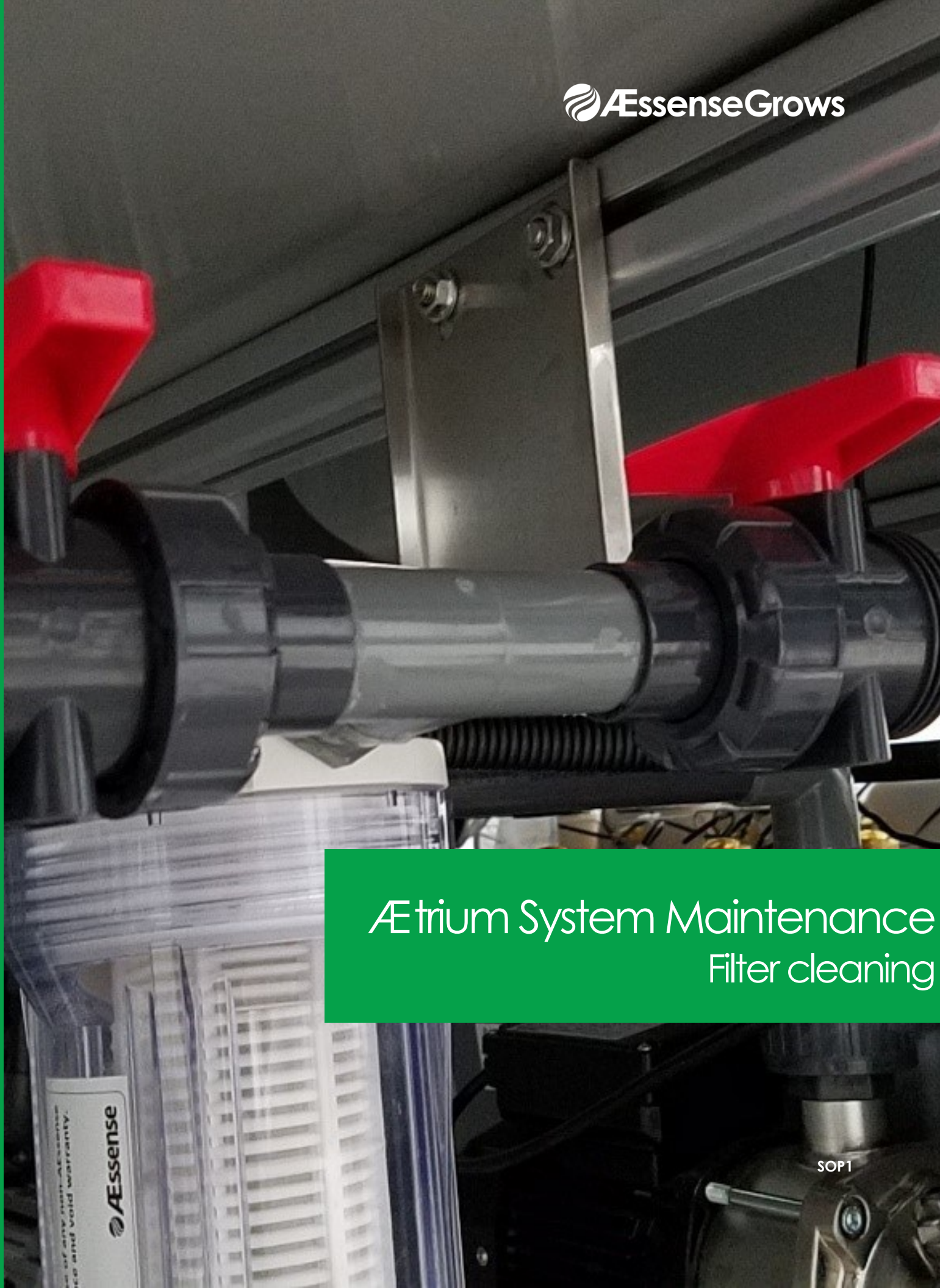


Ætrium System Maintenance

Filter cleaning

SOP1

Filter cleaning is a simple, yet essential step to ensure proper functionality of the Ætrium system. The primary filters on the Ætrium SmartFarm and the Ætrium-4 should be cleaned once per week. If filters are not regularly cleaned, pressure may be reduced in the irrigation lines resulting in potentially inadequate pressure and output from the spray manifolds.

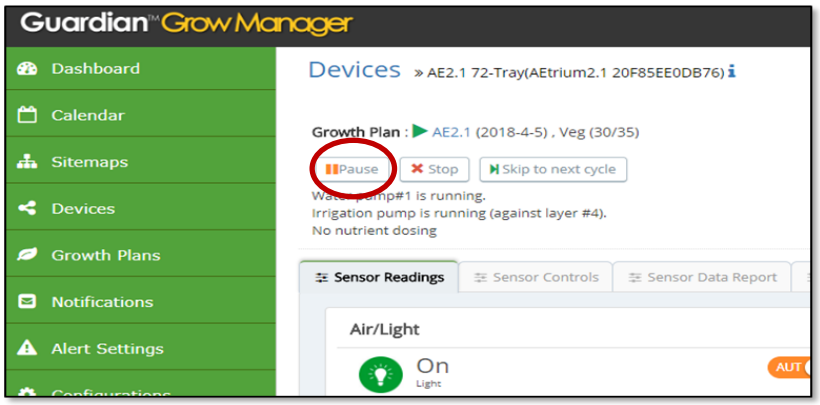
Fabric sock filters are on the main drain line as well as the drain pipe from the matriarch. These are designed to capture larger debris that may come off of the roots before entering the reservoir. Fabric sock filters should be evaluated throughout the growing cycle, but will need to be cleaned or replaced after each grow cycle at a minimum. Failing to do so may slow water returning to the reservoir and triggering unnecessary water filling.

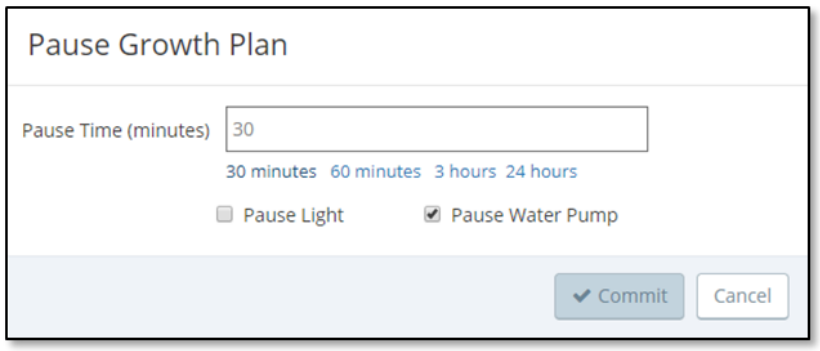
Changing and Cleaning the Water Filter in the Ætrium SmartFarm

1. **Pause the Grow Plan**

   a. Pause the Growth Plan from the **Device Page**

   b. In the **Pause Growth Plan** pop-up window select the ***Pause Time*** (choose from options in blue or enter custom time in window), select ***Pause Water Pump*** check box (only pauses water pump and does not interrupt light cycle), and click ***Commit***. You will then see a ***Pause Successfully*** notification. The system will automatically resume after the amount of time specified.





There are two primary filters (fig. 3) on the Ætrium SmartFarm, both of which are located underneath the reservoir on the front of the Ætrium Dosing Unit (ADU). It is recommended to use a tray to collect any discharge or leaked water while removing filters.

2. Remove filters from ADU in order to properly clean.

a. Close the red valves (fig. 4) on both sides of the filter by turning the handle perpendicular to the irrigation line. This will restrict draining from reservoir.

b. Remove black sleeve from around the filter housing.

c. Unscrew filter housing from ADU by rotating clockwise (fig. 5).

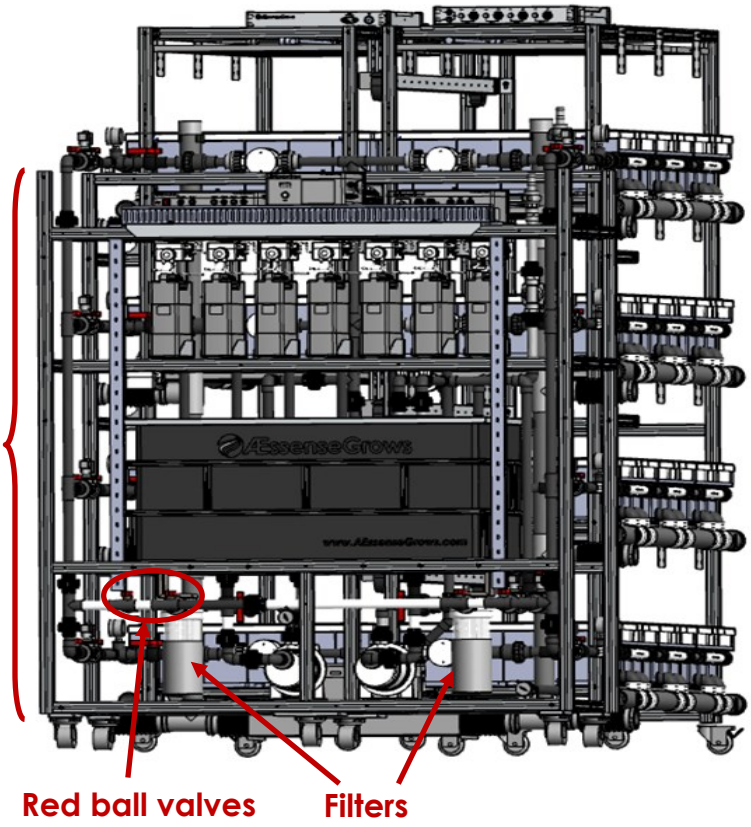


Fig. 3: Ætrium SmartFarm Ætrium Dosing Unit (ADU)

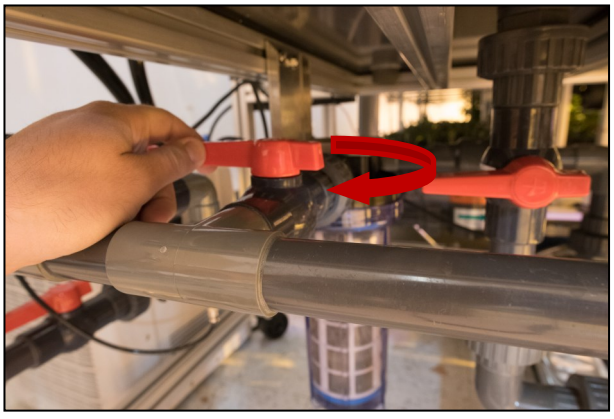


Fig. 4: Close red ball valve



Fig. 5: Remove filter housing

3. Clean the filter

a. To clean the dirty filter, pull the filter (fig. 6) from the clear housing and remove the end caps.

b. Rinse in sink and gently scrub with soft bristle brush

c. Replace endcaps

d. Make sure not to lose rubber seals on each endcap



Fig. 6: Filter inside of housing

4. Replace filter housing

a. Make sure that rubber gasket (fig. 7) is in place.

b. Open the red valves by rotating them counterclockwise to align parallel with irrigation pressure line (fig. 8).



Fig. 7: Rubber gasket inside filter housing

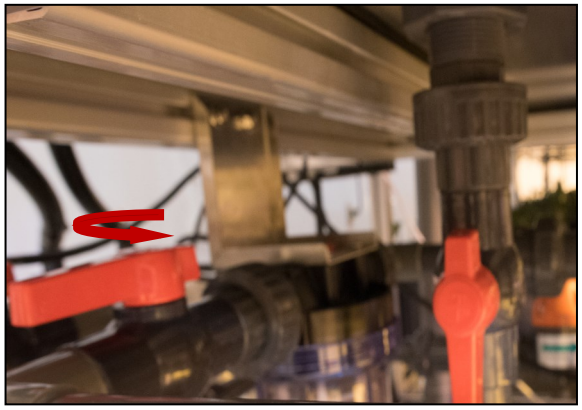


Fig. 8: Open valves

5. Resume Growth Plan

a. System will resume Growth Plan after the set amount of time has expired.

b. Or, resume system prematurely by selecting the **Resume** button (fig. 9) on the device page.

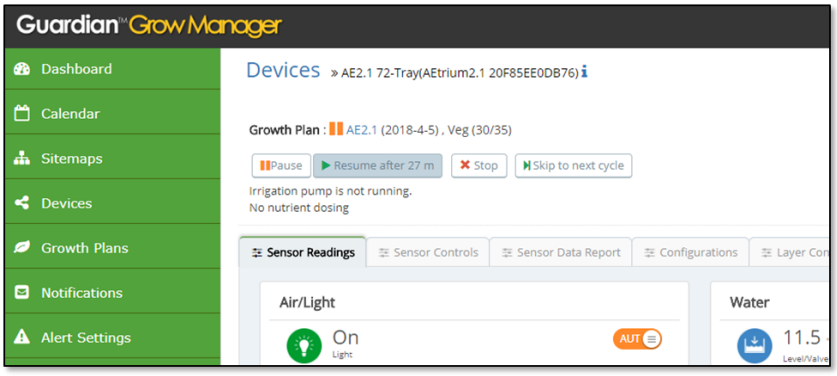


Fig. 9: Resume growth plan in Guardian Grow Manager

Changing and Cleaning the Water Filter in the Ætrium-4

There is one primary filters (fig. 10) on the Ætrium-4, both of which are located underneath the first daughter tub. It It is recommended to use a tray to collect any discharge or leaked water while removing the filter.

For removal and cleaning process for the primary filter of the Ætrium-4, follow steps 2-5 from above.

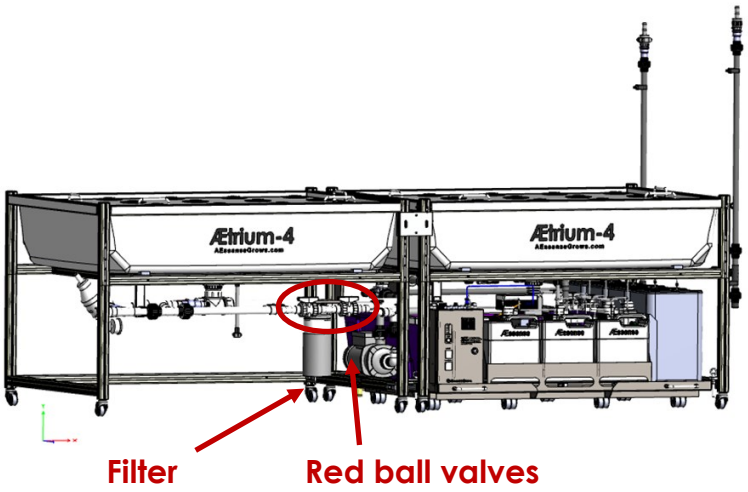


Fig. 10: Ætrium-4 matriarch (r) and daughter tub (l)

Changing and Cleaning the Sock Filter in the Ætrium-4

The two sock filters are located beneath the matriarch tub. One sock filter is located at the end of the primary drain line, and the other is located in the drain line from the matriarch tub.

1. **Remove the two socks from the drain lines**
    - **a.** Depress tab on zip tie to remove zip tie from drain line (fig. 12).
    - **b.** Remove socks, remove debris and sanitize.
    - **c.** Replace if necessary.

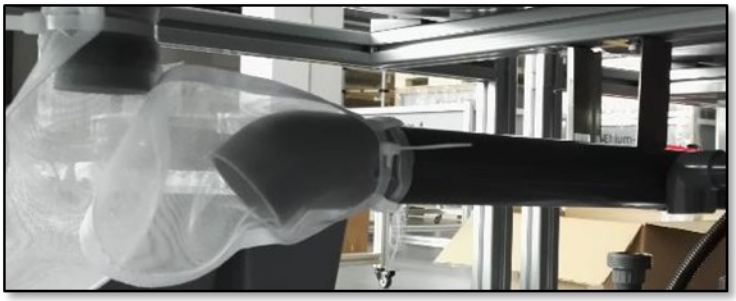


Fig. 11: Two sock filters below matriarch tub from tub (l) and main drain line (r)

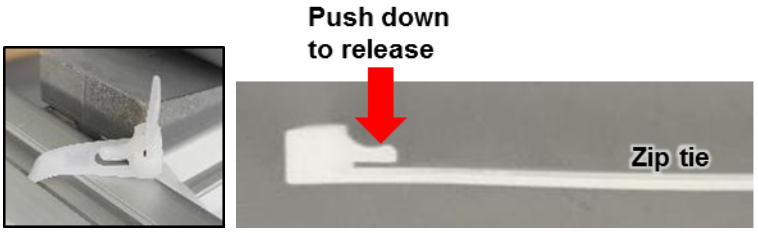


Fig. 12: Zip tie fastener on filter socks

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