

CCH2O CLEANING & SANITIZATION PROCEDURES

Products



BioSafe Systems

ZeroTol 2.0
is a Hazardous Material:
recommended for **commercial** applications only.



BioSafe Systems

ZeroTol HC
is a **Non-Hazardous Material:**
recommended for **residential** applications.

DO NOT USE WITH PLANTS



Personal Protective Equipment (PPE)

Always use the appropriate PPE, for detailed recommendations review the BioSafe website @ www.biosafesystems.com
Personal Protection Equipment is also listed on **BioSafe Systems Product Labels**.

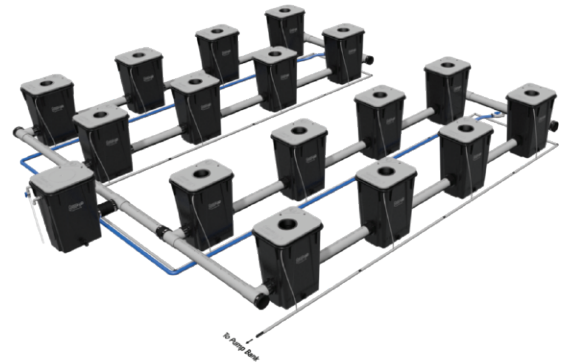
Calculating System Volume & Dilution Ratios

8 Gallon Systems: Total # of Growth Modules + Epicenter X 6.6 gallons. **Example:** (12 Growth Modules + 1 Epicenter) = 13 X 6.6 = 86 gallons
13 Gallon Systems: Total # of Growth Modules + Epicenter X 11 gallons. **Example:** (24 Growth Modules + 1 Epicenter) = 25 X 11 = 275 gallons

1:100 Ratio: Divide system volume by 100. **Example:** 275 gallon system volume ÷ 100 = 2.75 gallons ZeroTol
1:150 Ratio: Divide system volume by 150. **Example:** 275 gallon system volume ÷ 150 = 1.83 gallons ZeroTol
1:250 Ratio: Divide system volume by 250. **Example:** 275 gallon system volume ÷ 250 = 1.1 gallons ZeroTol
1:300 Ratio: Divide system volume by 300. **Example:** 275 gallon system volume ÷ 300 = 0.92 gallons ZeroTol
1:500 Ratio: Divide system volume by 500. **Example:** 275 gallon system volume ÷ 500 = 0.55 gallons ZeroTol

Post-Harvest Under Current[®] System Sanitization

1. Remove plants, root masses, and all debris from the system.
2. Turn off circulation pump, leave air pump(s) running.
3. Pull air stones from the system and set aside for separate disinfection process.
4. Turn off the air pump(s).
5. Top off system to full capacity with water.
6. Add ZeroTol 2.0 or HC - *For best results introduce ZeroTol solution at multiple points throughout the system.
7. Recommended dosage:
 - ZeroTol 2.0**
 - o 1:500 ratio (for normal post-harvest residual)
 - o 1:250 ratio (for heavy sedimentation or bacterial residuals)
 - ZeroTol HC**
 - o 1:300 ratio (for normal post-harvest residual)
 - o 1:150 ratio (for heavy sedimentation or bacterial residuals)
8. Initiate circulation pump.
9. Allow solution to circulate for 2 hours.
10. Turn off circulation pump, let solution sit for 30 minutes.
11. Drain the system completely via drain out plumbing.
12. Wipe airlines to remove any nutrient films (use dilute ZeroTol solution). **Continue on next page** —>



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CURRENT H₂O
CULTURE

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Post-Harvest Under Current[®] System Sanitization (continued)

13. Drain or wet vac away any remaining solution as needed.
14. Wipe down outside of growth modules, water hoses, epicenter and adjacent components (use dilute ZeroTol solution).
15. Allow system to air dry.
16. Process complete, the system is now ready for use.

CCH2O Lid and Net Pot Sanitization

1. Fill large tub (large enough to fit desired contents) with water.
2. Add ZeroTol 2.0 or HC
3. Recommended dosage:
 - ZeroTol 2.0**
 - o 1:100 ratio (for normal post-harvest residual)
 - ZeroTol HC**
 - o 1:150 ratio (for normal post-harvest residual)
4. Allow lids and net pots to soak for 15 minutes.
5. Remove from solution and allow to air dry.
6. No rinse is needed.



Airstone Sanitization

1. Remove airstones from 1/4" air lines.
 2. Fill large tub (large enough to fit desired contents) with water.
 3. Add ZeroTol 2.0 or HC
 4. Recommended dosage:
 - ZeroTol 2.0**
 - o 1:100 ratio (for normal post-harvest residual)
 - ZeroTol HC**
 - o 1:150 ratio (for normal post-harvest residual)
 5. Allow airstones to soak for 2-4 hours.
 6. Remove and rinse with clean water.
 7. Allow to air dry completely before being reused (60+ days is recommended).
- *Airstones should be rotated from cycle to cycle.**



Floor & Wall Sanitization

1. Sweep or vac away all plant debris.
 2. Fill sprayer with water.
 3. Add ZeroTol 2.0 or HC
 4. Recommended dosage:
 - ZeroTol 2.0**
 - o 1:300 ratio (for normal post-harvest residual)
 - ZeroTol HC**
 - o 1:150 ratio (for normal post-harvest residual)
 5. Spray all floors, walls and surfaces.
 6. Allow to solution to sit for 15 minutes.
 7. ***Optional:** Mop floor and wipe surfaces with clean water.
 8. Allow to air dry.
- *After use, this non-toxic sanitization solution can be sent down municipal drains. Solution breaks down into oxygen and water.**

