

VITA-D-CHLOR™

DECHLORINATION METHODS

Three basic methods for applying dechlorination chemical.

CALL OR E-MAIL OUR SALES DEPARTMENT TO DISCUSS THE DECHLORINATION METHOD BEST SUITED TO YOUR SITUATION

| METHOD | APPROACH | EQUIPMENT | ADVANTAGES/DISADVANTAGES |
|--|---|--|--|
| Manual Less than \$100 | Tablets placed in flow stream. Or Chemical solution dripped into flow stream. Or Broadcast spreading of powder. | 1. Mesh sack, tablet sock, or tablet (Taby) mat. Or 2. Pail / bucket with faucet tapped into bottom. | Advantages: Small initial investment. Little setup time required. Disadvantages: Not as accurate as specialty devices in application of chemical. |
| Tablet Device \$700 - \$2,300 | Tablets placed in a dechlorination device with tablet chamber | 1. Diffuser with tablet chamber. Or 2. Venturi device with tablet chamber. Or 3. Separate tablet chamber with hoses to device. | Advantages: Quick, simple setup. Less costly than venturi device. Minimal operator training required. Greater control than manual method. Disadvantages: Less accurate chemical delivery than venturi. Diffuser design less effective for high chlorine level dechlorination. |
| Venturi Device \$1,200 - \$2,300 | Chemical solution metered into flow stream by vacuum produced by venturi effect of water flowing through device. | Venturi Injector Device, and Mixing / feed solution bucket, and Feed solution tubing | Advantages: Highly accurate chemical application Greatest flexibility. Can treat low or high chlorine levels Disadvantages: Operator training required. Setup/teardown longer than other methods. Higher initial equipment cost. |

So what should you do?

If you are starting out and don't have \$1000 in the budget to get started, then simply set up a drip system to mix with discharge water or suspend tablets in the flow stream and direct the water past them.

If all you want to do is treat your potable water hydrant flushes and you want a fast and easy method, then purchase a tablet device for each operator. They will be able to do their work at the same rate that they did before with less than \$20 of chemical usage per 30 minute flush.

If you want to do potable and super-chlorinated water with good accuracy to save money on chemical usage, then a venturi is for you. You will cut chemical usage for the 30 minute flush to less than \$5 and you will be able to do super-chlorinated treatment as well. It will take longer to set up and the operators will need training to set-up, operate the device, and figure out the concentration of solution to make. Most manufacturers of venturi devices supply a calculation sheet to figure out how to make the treatment solution.

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