

# VitaStim Dynamic Duo

Quickly Restores Nitrification and Lowers Ammonia



## VitaStim Ammonia Assimilators

VitaStim Ammonia Assimilators contains heterotrophic nitrifying bacteria that utilize both carbon and a high fraction of nitrogen. In systems with high organic loading or low dissolved oxygen the Ammonia Assimilators are the first step in ammonia removal.

## VitaStim Nitrifiers

VitaStim Nitrifiers contains high concentrations of autotrophic ammonia- and nitrite-oxidizing bacteria, such as *Nitrospora*, *Nitrosomonas*, *Nitrospira*, and *Nitrobacter* as well as a micronutrient helpful to the growth and reproduction of nitrifying bacteria.



VitaStim Dynamic Duo provides two pathways for ammonia removal, making it the fastest way to restore nitrification.

After a typical 10 day treatment, the nitrifying bacteria continue to multiply, meaning there's no continued need to add the product. For systems with chronically high ammonia, consult an Aquafix Technical Rep to address the root causes.

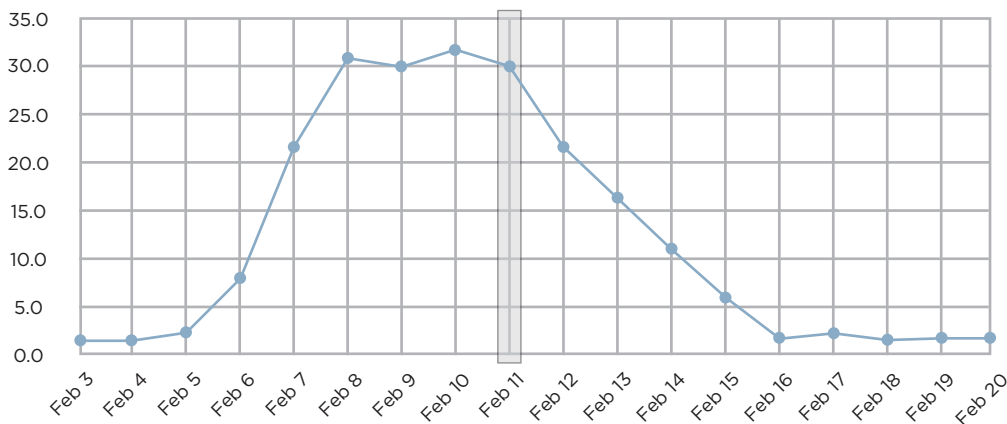
100% Success Rate  
**Guarantee**

After Treatment Nitrifiers Continue to  
**Multiply on Their Own**

Best Nitrifier for  
**Cold Water**

Figure 1:

Example of nitrification recovery



Left: Dynamic Duo added February 11th.

Quickly restores nitrification to former levels.



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# Dose Rates

## Dynamic Duo



### Dynamic Duo Dosing:

- Add both parts daily to aeration basin
- Typical treatment lasts 10 days
- **Refrigerate** product when not in use

### For Best Results:

- pH 7-8
- DO 2-3 mg/L
- Good BOD removal
- Adequate alkalinity

### Available Sizes:

- 2 Quart Box (1 of each)
- 2 Gallon Case (1 of each)

### Water Temperature Below 60°F (15.6°C)

Flow Rate Gallons per day	Days 1-10 Once per day
10,000 GPD	15 oz
100,000 GPD	30 oz
300,000 GPD	96 oz
500,000 GPD	1.25 gal
1 MGD	2.5 gal

### Water Temperature Between 60–72°F (15.6–22.2°C)

Flow Rate Gallons per day	Days 1-4 Once per day	Days 5-10 Once per day
10,000 GPD	40 mL	5 mL
100,000 GPD	12 oz	1.5 oz
300,000 GPD	36 oz	3.5 oz
500,000 GPD	60 oz	6 oz
1 MGD	1 gal	12 oz

### Water Temperature Above 72°F (22.2°C)

Flow Rate Gallons per day	Days 1-2 Once per day	Days 3-10 Once per day
10,000 GPD	40 mL	5 oz
100,000 GPD	12 oz	1.5 oz
300,000 GPD	36 oz	3.5 oz
500,000 GPD	60 oz	6 oz
1 MGD	1 gal	12 oz