

BioPuck GT

An Enviro-Safe Solution for Kitchen Grease Traps

Disposes Greases, Fats, Proteins & Detergents

1-4 Pucks Per Month for Typical Grease Traps

Works in Water Temperature of 41° to 113°F

Remedy for Kitchen Grease Traps & Drains

All-Natural Product for Use in Traps & Pipes

Water Maze's BioPuck GT is an easy and effective way to dramatically reduce grease, oils, and fats typically found in a kitchen or food processing facility.

Because kitchen greases and fats are not water soluble, they float and adhere to all surfaces creating maintenance headaches. For instance, grease accumulation clogs sewer lines, pipes and drains. This is why restaurants, commercial kitchens, supermarkets and fast-food locations are required to

install grease traps. If the grease is left untreated it must be pumped and hauled away as often as once or twice a month.

The BioPuck GT naturally consumes grease, oils and fats, thus reducing the disposal frequency and fees usually associated with hauling grease trap contents.

The BioPuck GT consists of a special blend of non-pathogenic and non-toxic bacteria for typical wash-water applications. These bacteria actually break down and metabolize the

HOW MANY PUCKS YOU'LL NEED

| Grease Trap Size | Pucks Per Month | Applied How Often |
|------------------|-----------------|-------------------|
| Small | 1 | 1 Each Month |
| Medium | 2 | 1 Every 2 Weeks |
| Large | 4 | 2 Every 2 Weeks |



The Bio-Puck GT comes in a box of 20 pucks, in a 4-puck package (above) with containment nets and in a package of Fizzytabs, which are mixed with water to make a solution for pouring down pipes

kitchen greases as they accumulate. There are no hazardous by-products as the bacteria converts grease to carbon dioxide and water.

HOW SAFE IS THE BIO-PUCK GT?

The BioPuck GT was formulated with efficiency and safety in mind. The bacteria utilized in this product are classified by the American Type Culture Collection (ATCC) as Class 1 organisms.

Class 1 organisms are defined as:

1. Naturally Occurring: natural bacteria, endemic to earth, not genetically engineered;
2. Non-Pathogenic: will not cause disease;
3. Non-Opportunistic: will not cause disease in a compromised host.

All Water Maze bioremediation products are routinely tested and are guaranteed to be salmonella-free.

CONDITIONS FOR OPTIMUM OPERATION

- Temperature: working range 5°C-45°C (41°F-113°F); optimum range 28°C (82.4°F)
- pH: working range 6.5 - 8.5; optimum range 7.0 – 7.5
- Nutrients: Nitrogen 50-100 ppm
- Phosphorous: 50-100 ppm
- BioPuck GT Is Especially Effective in Degrading:

| | |
|----------|-------------|
| Grease | Lipids |
| Fats | Detergents |
| Oils | And more... |
| Proteins | |

BioPuck GT

Environmentally Safe and Simple Remedy for Messy Kitchen Grease Traps

Only 1 - 4 Pucks per Month for a Grease Trap | Grease and Fats Turned to Water and CO₂ | Works in 41° to 113°F Water

FIZZY TABS: SOLUTION FOR DRAINS



The BioPuck GT also comes in another form to attack grease build up in drains and pipes.

The Fizzytab is a tablet that can be dropped into a gallon of water. Once the tablet is dissolved, pour the water down all drains or pipes exposed to kitchen greases, oils and fats.

Each tablet releases into the plumbing millions of beneficial bacterial, which immediately begin digesting excessive fats, oils,

greases, protein, starch and other organic matter that can accumulate in kitchen drains, pipes and grease traps creating maintenance headaches.

For optimum performance and minimal maintenance, it is recommended that one gallon of the Fizzytab water be mixed each day, pouring a little down every drain and pipe in the kitchen.

Each package comes with 30 all-natural tablets.

TESTIMONIALS

Here are just two examples of how the BioPuck GT was effective in dealing with wastewater in a kitchen application:

■ **Sanitary Surcharge Eliminated:** A restaurant in Houston, TX was discharging 325,000 gallons of wastewater through a 1,000-gallon grease trap each month until they were assessed surcharges of \$1,100 per month for unacceptable levels of BOD (biochemical oxygen demand) and TSS (total suspended solids). After two months of using BioPuck GT the monthly surcharge was reduced by 70%. Within a year the BOD level dropped from 2328 mg/l to 200 mg/l and the TSS went from 2660 mg/l to 240 mg/l eliminating the sanitary sewer surcharge altogether. And, just as importantly, the restaurant reduced the number of times it had the grease trap pumped and hauled from every two weeks to once per quarter.

■ **Dramatic Drop in BOD, TSS and FOG:** Another restaurant, this one in San Antonio, TX, was discharging 75,000 gallons of wastewater per month through a 1,000-gallon grease trap. After introducing five gallons of BioPuck GT each month for only six months, the BOD (biochemical oxygen demand) level dropped dramatically from 404 mg/l to 196 mg/l, the TSS (total suspended solids) plunged from 407 mg/l to 142 mg/l, and the FOG (fats, oils and greases) was reduced significantly from 122 mg/l to 66 mg/l.

| | BOD mg/l | TSS mg/l | FOG mg/l | pH | Temp |
|-----------------|-------------|-------------|-------------|------|------|
| 6 months BEFORE | 404 | 407 | 122 | 7.85 | 89°F |
| 6 months AFTER | 196 | 142 | 66 | 7.6 | 91°F |

These Are the Elements That Must Be Present for Bioremediation to be Effective

- **Energy:** Hydrocarbons act as an energy source.
- **Carbon:** Hydrocarbons in the waste stream also serve as the carbon source. Carbon is needed for proteins, DNA, RNA and cell walls.

- **Oxygen:** Very important! Four pounds of oxygen is required for each pound of hydrocarbon.
- **Nitrogen:** Needed for amino acids, proteins, DNA, RNA and cell walls.
- **Phosphate:** Needed for DNA, RNA and energy reactions.
- **Minerals:** The bacteria use some of the same minerals you'd typically find in a multi-vitamin pill or supplement.

Distributed by:

waterMaze
WATER TREATMENT SYSTEMS

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