



Simple, easy-to-use controls

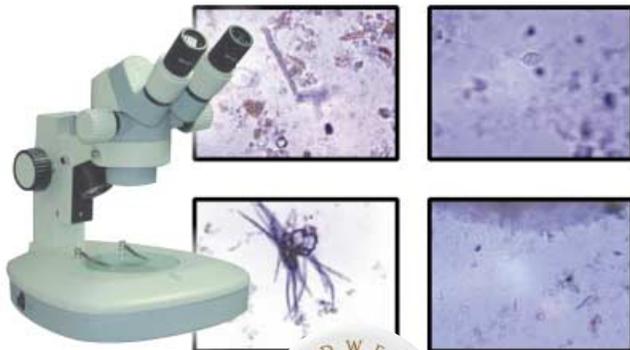


Stainless steel construction, including piping and water pump

# The Aeromaster TE-500 Compost Tea Extraction System

Compost tea, or compost extract, is an economical way to deliver many of the benefits of high-quality compost efficiently and effectively. Compost tea made with the TE-500 is a water-based extraction of the soluble minerals, humic substances, and microbes from high-quality compost. A food source is also added to the compost tea to stimulate microbial activity and reproduction. High-quality compost tea is a source of diverse beneficial microbes which, along with microbial food sources, multiply numerous times on

crop leaves and in the crop's root zone. Compost tea is typically applied to the soil by a side dressing in the furrow, as a foliar by spraying or through an irrigation system to the leaves of a growing crop, or sprayed on crop residue to capture the nutrients. The diverse microbial profile in compost tea help the plant's leaves absorb nutrients from the air, and as they find their way into the soil, they help the plant's root system extract nutrients from the soil.



*Maintaining microbial diversity in the extraction process is essential for maximum effectiveness. If the tea-making process favors only a few species, some beneficial species may be crowded out and not available to help the crop grow.*



Midwest Bio-Systems • 28933-35 E St. • Tampico, IL 61283  
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## The Process Makes the Difference

The quality of any compost tea is dependent on the quality of the compost used. The method of production, however, also impacts the stability and effectiveness of the final tea product. The two most commonly used methods for producing compost tea are **tea brewing** and **tea extraction**. While both methods are effective in their own right, extraction does provide distinct advantages that are worth noting.

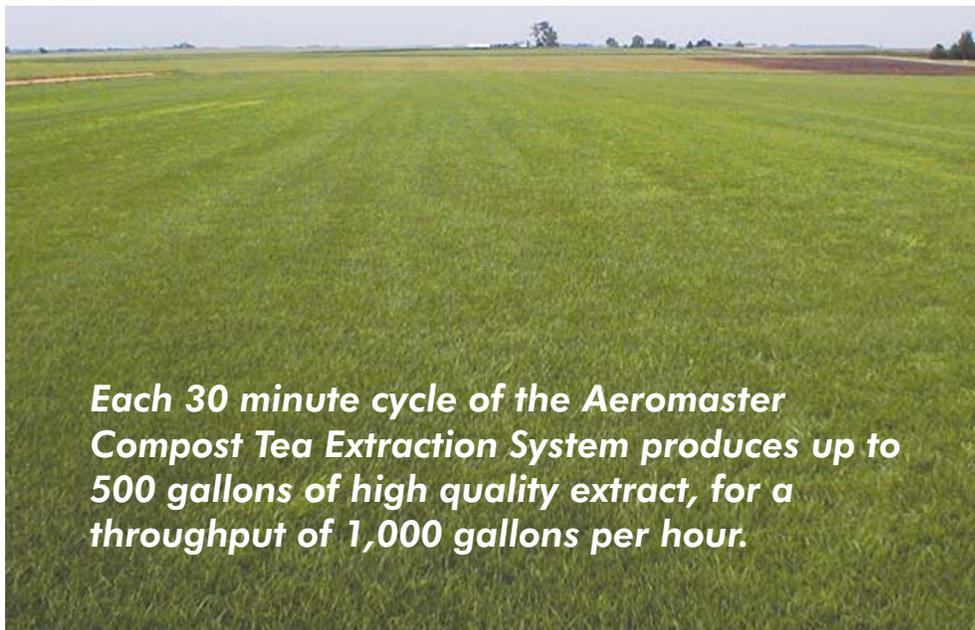
**The Aeromaster® Compost Tea Extraction System** is a high production compost tea process. The basic principle of the extraction system is to use more high-quality compost, effectively extracting the soluble minerals, humus, and microbiology. No food sources are added immediately, allowing the inactive microbes to remain inactive, thus conserving oxygen. This extends the useful life of the tea to two to four weeks. Because the microbial population was not made active by adding food, the microbial diversity that existed in the compost is preserved. **Aeromaster Tea Activators** are added to the compost tea just prior to application. The Activators are specific food sources that “wake up” the microbial population causing it to become active and begin rapid

reproduction. The active microbes are immediately applied to the crop where they continue to multiply in a natural environment that favors preserving the original microbial diversity.

The extraction process, along with the higher volume of high-quality humus compost is also unique in its ability to extract a vital species of fungi which gives stress tolerance to plants.

### Why We Use Extraction

- Microbial diversity maintained
- Longer useful life
- Stable product
- Fungi available
- Quicker process
- Higher throughput capacity



*Each 30 minute cycle of the Aeromaster Compost Tea Extraction System produces up to 500 gallons of high quality extract, for a throughput of 1,000 gallons per hour.*

The TE-500 produces compost continuously as 500 gallons of water passes through the extraction system. When the 500 gallon cycle is complete, the spent compost sludge is flushed from the system. Even though the spent compost sludge does not amount to a large volume, it is often put into a beginning windrow as an ingredient. Once a fresh charge of compost is put in the extractor, production of the next cycle can begin. **Each 30 minute cycle of the Aeromaster Compost Tea Extraction System produces up to 500 gallons of high quality extract, for a throughput of 1,000 gallons per hour.**

*Compost tea brewing is based on removing the soluble mineral nutrient and humus portion of a small amount of compost, along with the diverse microbe population held by the compost, using water and air pressure to brew. Microbial food sources are added to the tea solution, causing the microbes to become active and rapidly multiply. Brewed compost tea must be applied to the crop within 24 hours. Brewing equipment is typically capable of producing one batch of compost tea each 24 hours.*



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