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Symbio
BioBrewer



User Manual

15L



INTRODUCTION

Thank you for your purchase of the 15L Bio-Brewer and welcome to the growing number of growers and sports turf managers who wish to improve the quality of the soils they manage in our delicate environment.

Our Compost Tea BioBrewer has been designed with affordability, ease of use and application in mind, so that you can quickly and easily add beneficial, naturally occurring microbes to your soil. Compost Tea can also be applied as a foliar spray to help reduce the damage caused by pests and diseases.

- ✓ **Reduce fertiliser, pesticide and water use.**
- ✓ **Degrade thatch, stubble and organic matter in soil and growing medium.**
- ✓ **Improve soil friability for better drainage, root development.**
- ✓ **Create the correct soil biology for your plants.**
- ✓ **Aids natural plant health, resistance to disease and drought stress**
- ✓ **Improves soil quality.**
- ✓ **Easy to use and apply.**

Soil microbes form an essential part of the soil food web, assisting in the natural growth and health of all types of plants, vegetables and grasses.

These beneficial microbes work in a symbiotic partnership with the plants, improving the availability of water and nutrients to the root, promoting plant growth and health. This reduces the amount of fertiliser and water required to produce fantastic results.

HEALTH & SAFETY

- Working with electricity and water is dangerous. Please follow the manufacturer's recommendations supplied with the air pump.
- Always switch off the air pump before handling the BioBrewer
- Keep the air pump above the water level at all times
- Wash hands after use
- If products come in contact with the skin - wash affected area with soap and water
- Do not ingest - If ingested drink plenty of water, do not induce vomiting and seek medical advice.
- Avoid contact with eyes – if contact occurs, wash well.
- When sterilising / washing with bleach please follow manufacturer's recommendations.

MAINTENANCE

Cleaning your BioBrewer

Cleanliness of your BioBrewer is very important. Any residue dirt may harbour plant pathogenic bacteria and fungi. Therefore, clean the brewer immediately after a tea has been produced.

Follow the steps below to clean the brewer:

Cleaning the BioBrewer Container

- Wash the brewer after every use.
- Wash the bucket out with clean water to remove any residues.
- Fill the brewer with a little water and add soap. Wipe with a sponge or cloth until clean.
- Rinse out with clean water to remove any soap residue.
- Avoid staining and residual build up in the brewer
- Every few months fill the brewer with water and add 100ml of bleach
- Allow to stand overnight and rinse thoroughly.

Cleaning the Air stone

- Clean the air stone after every use
- Wash off surface soiling.
- Make a up solution of 10% bleach 100ml normal household bleach in 1 litre of cold water
- Place the air stone in the solution and leave for 15 mins. 20 mins for badly soiled air stones.
- Replace the bleach solution with clean cold water and immerse the air stone for 15mins to rinse.
- Connect the air stone to the pump to blow through for 10 /15 mins.
- The air stone will then be ready to re-use.

APPLICATION GUIDELINE

ASSEMBLY GUIDE

YOU CANNOT OVERDOSE COMPOST TEA

Soil Application:

Apply approximately 15 litres of Compost Tea to 1,500 sq.m. Add to enough water to drench the root zone of your plants.

Recommended Application Rates

Soil Football Pitch	30L Compost Tea in 400L water
Bowling Green	15L Compost Tea in 100L water
Cricket Square	7.5L Compost Tea in 50L water

For soils that have been subjected to heavy inorganic fertiliser and pesticide use, apply every 7 days for the first three applications and then every 2 or 3 weeks. If the sward has traditionally been subject to bad attacks of disease, increase the frequency of application just before disease usually attacks and during times when disease is usually prevalent.

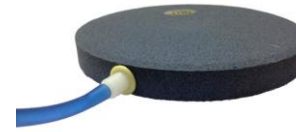
For soils which have had fewer inorganic fertiliser inputs, apply every two weeks for the first two applications, then on a monthly basis.

Compost Tea is not a pesticide but plants growing in healthy soil are less susceptible to many common diseases.

The application instructions in this guide are for use with a Symbio 50L Compost Tea pack.

ASSEMBLY GUIDE

The BioBrewer comes with an air stone, air pump and air hose



STEP 1 - ATTACH THE AIR STONE

Remove the air stone packaging. Connect one end of the air hose to the air stone.



STEP 2 - ATTACH THE AIR PUMP

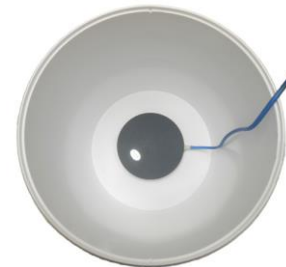
Attach the other end of the air hose to the pump.

Make sure that during the Compost Tea brewing process that the pump is kept dry and away from any source of water.

The pump must be kept above the water level to avoid back flow

WORKING WITH ELECTRICITY AND WATER CAN BE DANGEROUS

Please read and follow the air pump safety instructions fully before proceeding. Use a circuit breaker. Switch off the pump before touching the brewer or water.



STEP 3 - FINISH THE ASSEMBLY

Place the air stone in the middle of the BioBrewer container

The BioBrewer is now ready to use

HOW TO BREW A COMPOST TEA



STEP 1 - FILL THE BIOBREWER WITH WATER

Fill the brewer with no more 15 litres of water (approximately 3/4 full). This can be from the tap or collected rain water from a water butt.



STEP 2 - DISSIPATE THE CHLORINE

Tap water contains chlorine and it is necessary to remove this as it kills the microbes in Compost Teas. To remove the chlorine, bubble air through the water via the pump and air stone for 20 - 30 minutes or until the smell of chlorine has gone.

Turn off the air pump for the next step.



STEP 3 - ADD THE COMPOST

Add approximately 1/3 of 1 bag of Compost per 1500m²



STEP 4 - ADD THE ACTIVATING NUTRIENTS

Add 1/3 of the Activating Nutrient and Activating Plant Extract sachets included in the Symbio Compost Tea 50L pack to the BioBrewer.



STEP 5 - TURN ON THE AIR PUMP. THE COMPOST TEA IS NOW BREWING.

TIP : *If you find the brewer is producing a lot of froth add a tablespoon of vegetable oil.*



STEP 6 - BREWING TIME

After 18 - 24 hours the mixture will be ready for use. The liquid compost should give off a sweet earthy smell.

Turn off the pump and leave the mixture to settle for 10 minutes.



STEP 7 - DECANT THE BREW

The Compost Tea brew is now ready to use, decant the recommended amount into sprayer and dilute with the recommended amount of water. (15L Compost Tea Brew with 100 litres of water per 1,500m² green).

Tip *If using a sprayer you will need to filter the liquid, (a pair of ladies tights stretched over a bucket is a perfect strainer or a 200-micron mesh).*



STEP 8 (optional) - ADDING THE FERTILISER

You may mix organic fertilisers and biostimulants with the Compost Teas. Half fill the sprayer or can with compost tea and water, add the organic fertilisers or biostimulants and fill up with water.

IMPORTANT: Compost Tea is a live solution and has a shelf life of around 4-6 hours after brewing. After this time many of the organisms will no longer be able to thrive and will become un-viable.

Full application instructions for Golf, Football, and Agriculture can be found on the Symbio Compost Tea 50L pack label