



# GHE

Biopole - 32500 FLEURANCE - France - Tél.: 33 - (0)5 62 06 08 30 - Fax : 33 - (0)5 62 06 64 04  
E-Mail : info@eurohydro.com

## THE AEROFARM

***Congratulations for your new AeroFarm system. This is the smallest and most efficient aeroponic unit you can find today. Easy to assemble and to maintain, it allows you an easy start to aeroponics at little expense.***



Of course the Tripack promotion applies to the AeroFarms as well !



**1 to 5 plants  
46 cm x 46 cm x 43 cm  
+/- 45 L**



With the safety of our environment in mind, and the desire to protect our planet, our units are made to last, with recycled, heavy-duty plastics. They are UV resistant and contain a light barrier to protect roots, and prevent algae from growing in the reservoirs.

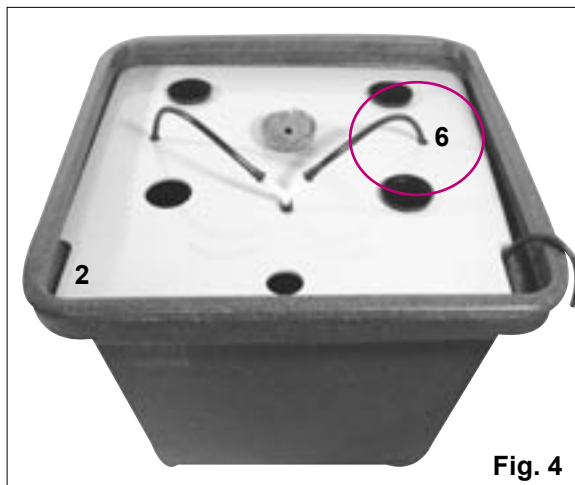
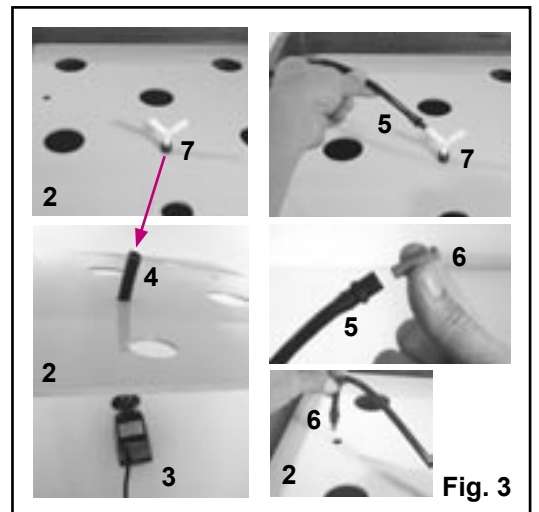
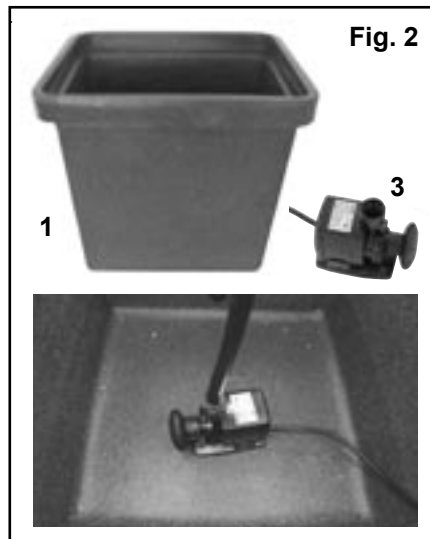
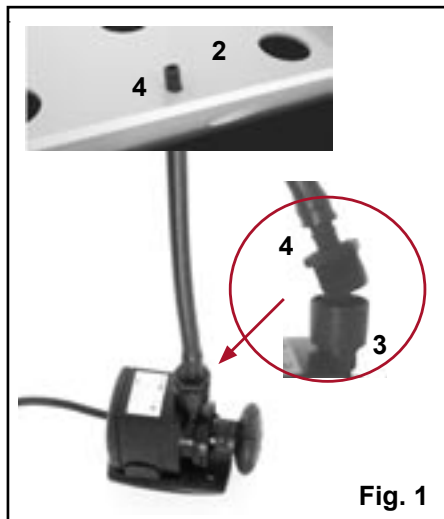
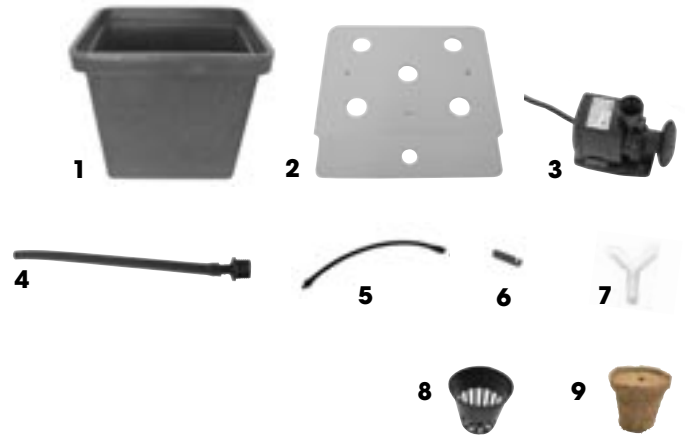
**To operate your system successfully:**

- *Get a water analysis from your local water company: to use the fertilizer best adapted to your water (hard or soft), it is important to know its content.*
- *Keep the water temperature under 24° C. Ideally between 16 & 20° C and humidity between 65 & 75%.  
Notice: for cuttings, keep your temperature between 24 & 25° C and your humidity level between 80 & 95%.*
- *Give your plants good lighting, excellent ventilation and adequate humidity.*
- *Always clean your system thoroughly between crops.*
- *Adapt your growing space to the plants you grow, as different plants have different needs.*
- *If you have questions about your water or about the development of your crop, please don't hesitate to contact us. We guarantee free technical support and advice to all our customers.*

## **Bringing Nature and Technology Together**

**PARTS:**

1. Reservoir container (45 liters capacity)
2. 1 cover
3. Submersible Pump
4. Pump connexion
5. 2 tubing with connectors
6. 2 red sprayers
7. 1 Y white plastic
8. 5 net pots
9. Cocotek samples



**ASSEMBLY**

Assemble your AeroFarm in just a few minutes

Fig. 1: Assemble the pump and its connection (3 + 4).

Introduce the connexion through the cover and let it stand out slightly. (4 + 2).

Fig. 2: Place the pump on the bottom of the reservoir

Fig. 3: Introduce the Y in the pump's connection (7+4). Introduce the sprayers at the end of the distribution tubing (6+5).

Fig. 4: Introduce them in the holes drilled to this effect (6+2).

Your AeroFarm is ready to start.



## LOCATION

Abundant light, proper temperature and adequate ventilation are crucial to fast growth, healthy plants and higher yields. Place the system in a warm, well-lit, well-ventilated location, such as an outdoor garden, sunlit window, patio or greenhouse. And of course, keep your AeroFarm. away from areas where the inevitable dripping that occurs during filling, draining and pH adjustment could cause water damage.

## TRANSPLANTING

**Note:** Plants must be sturdy with established roots before being transplanted into the AeroFarm.. As much as possible, use young plants: they will recover quickly from transplant shock while older plants may not survive the move.

**Step 1:** If your plant was growing in soil or peat moss, gently remove it from its pot and carefully rinse off as much soil as possible from the roots, before transplanting. Although this method of transplanting from soil to hydroponics is somewhat risky (soil can contain disease organisms that proliferate in the rich hydroponic solution), we always were successful in using it, and encourage you to try. Or, you can avoid these problems by starting plants from cuttings in the RainForest.

**Step 2:** Once your roots are clean, put them in the net pots and fill the pot with clay pebbles for best support.

**Step 3:** Fill the reservoir with fresh nutrient solution. Plug in the pump to start nutrient spray.

## THE NUTRITIVE SOLUTION

The AeroFarm reservoir contains +/- 45 litres of solution. You can mix your solution directly in the reservoir or in any other container. You can prepare a solution in a large container and keep it to top-off the system when needed.

In hydroponics it is important to know the quality of your water. Get a water analysis from your local water company and don't hesitate to contact your dealer, or us directly, if you need help to interpret it.

For your cuttings and in small units like the CuttingBoard and the AeroFarm.s, you can use 1/2 tap water and 1/2 rain or demineralised water.

Two nutrients systems, Flora-series and One Part are adapted to your system. You will find detailed application charts on the labels. Other products are available to help you optimise your crops: Diamond Nectar, Ripen, Mineral Magic and the pH regulators. Flora-series was specially formulated to allow you to closely monitor your plant's growth at all stages. The following formula is one favoured by many growers, in BC (Canada), in the US and in Australia. It is used for fast flowering annuals with amazing results on crop quantity and quality.

	FloraGro	FloraMicro	FloraBloom
<b>Cuttings</b>	1	1	1
<b>Vegetative stage</b>	3	2	1
<b>Fruiting and Flowering stage</b>	1	2	3

EC range for your hydroponic mixes :

Cuttings	0.4 to 0.8 EC
Vegetative stage	1.0 to 1.3 EC
Fruiting and Flowering stage	1.0 to 1.8 EC

This range is a starting solution in hydroponics. In soil use an approximate 1/2 strength dilution and use every other watering.

Last days before harvesting add only water with adjusted pH, or use Ripen.

Before mixing, adjust your water to a pH of 5.5 to 6.5. Check after mixing and readjust if needed. Use our pH Up and Down solutions. These formulas are adapted to our nutrients. They are very economical too, as you use the same formula for the vegetative as well as the flowering stages of your plants.

For measuring, use a 10 or 20 L bucket and a graduated syringe.

It is easy to use the cap of your 1litre bottles too: 1 cap = 10 ml.

**Example: For 20 Litres of pure water:**

**1 cap FGro + 2 caps FMicro + 3 caps FBloom = +/- 1.00 to 1.50 EC,  
depending on the quality of your water**

Our nutrients are extremely concentrated. Very little is needed for your crop: To avoid any precipitation when you mix your solution, make sure to rinse your measure after pouring each component and never mix the components together.

City water is often quite hard. It is recommended to change your solution every 10 to 15 days.

# Bringing Nature and Technology Together

## GROROX™ : THE CLAY PEBBLES

Clay pebbles are a clean substrate, reusable and recyclable. Well chosen, they are one of the components of your success. Before using Grorox, it is important that you wash off all dust and residues.

There are different qualities of rocks, the best ones are neutral (which don't influence your solution's pH).

### Before use:

- It is important to wash your rocks correctly to get rid of the dust and other particles and residues.
- It is best to check the rock's pH. Put some pebbles in a glass of distilled water. Stir well and let it rest. Measure the pH. If it is high (7 or higher), soak overnight in an acidic solution (use our pH Down liquid or powder). Then rinse thoroughly to wash the acid off and remove any sand or other particles. If it is neutral (7.0), soak them in plain tap water and rinse well.

### After the crop:

- With good quality Grorox you only need to wash your pebbles well with plain tap water.
- If needed, specially if you had a disease or an insect infestation, it is recommended to disinfect thoroughly. Soak in pH Down (liquid or powder) overnight and rinse thoroughly (see labels).

*A big advantage to using Grorox is that, unlike rockwool, they are totally harmless to our environment. They are completely bio degradable and can be used several times, crop after crop. They can then be recycled into your garden where they will help lighten your soil.*

## COCOTEK

**New :** We selected for you a new line of products made with 100% natural coconut fiber and latex. You will find a sample with your systems. For more info, please call your dealer or contact us directly.



Fig. 1

The coconut pots exist in Ø 5 & 7 cm (fig. 1). You can use them with your choice of substrate (fig. 2) (clay pebbles, lava rocks, perlite, vermiculite, coconut substrate, etc... or with your own mix of substrate. You can choose no substrate at all, and use a coconut cover alone (fig. 3).

**MAINTENANCE :** There is nothing special to do before harvest. But after the harvest, and as always, you have to clean the pots thoroughly (see § Grorox).

After removing the pots or the cubes from your system, get rid of as much of the roots as possible, rinse well, then let them dry well, and shake the debris off.

**The CocoTek line is adapted to several growing methods. It can be used in aero-hydroponics, drip irrigation and soil. Pots and cubes can be used to germinate seeds and grow seedlings and young plants. They can then be planted directly in soil or in a soilless gardening unit, without removing the substrate and stressing the plant. CocoTek is biodegradable: in 3 years in soil it will completely compost and feed the garden.**



Fig. 2



Fig. 3

## OPERATION

Your AeroFarm. pump does not need to run constantly. Oxygen is needed during photosynthesis which happens with daylight. A simple timer allows you to turn off the pump when the light is off.

**Notice :** If you have another substrate than Grorox, use a timer to adapt your watering cycles to your substrate: indeed, some media, like oasis or rockwool need less watering than Grorox. They will retain more humidity around the stems, and may be a disease factor for your plants. In these cases watering must be intermittent. Don't hesitate to contact us, or your dealer, for more info.

Use mild to normal strength nutrient solution and avoid strong or aggressive formulas. As your plants consume nutrient solution, the level in the reservoir will drop. From time to time top off with half-strength solution or plain water (the pump is more efficient when the reservoir is full).

Every couple of weeks, empty the reservoir and replace the solution. Use the discarded solution (added to water with adjusted pH) to water your house plants, they will look great. When changing or topping off solution, pour directly over the clay pebbles (rather than into the reservoir itself) to flush out excess salts.

## PREPARATION FOR REPLANTING

After harvest and before replanting your AeroFarm., dismantle the system and clean all parts with hot water and Chlorine or pH Down. Clean your clay pebbles, either by soaking them in water and chlorine, or by boiling them in water. Before using again, rinse all components very well and let sit overnight to evaporate the Chlorine.

# Bringing Nature and Technology Together



## IMPORTANT NOTICE

- 1 - In summer, when using lights in an enclosed space, and in order to avoid extreme temperatures, you could turn your lights on at night, to take advantage of the cooler air.
- 2 - The grow room should be well ventilated. Outside weather allowing, continuous ventilation will eliminate excess humidity and bring in the much needed CO<sub>2</sub> to your plants.

Circulation fans will homogenate the air in the room, eliminating pockets of hot, humid air.

- 3 - If plants are not growing well and you suspect "hard water":
  1. It is important to get a water analysis from your water company.  
If you need help, please contact us, we will be glad to advice you.
  2. Inquire about our Hard Water formulas.
  3. Collect rainwater or try distilled or purified water. Or use a reverse osmosis filter, a costly but sometimes welcome device.

### **Plants, like all living organisms can be infected with a variety of diseases.**

The best way to avoid sick plants is to maintain clean conditions and correct environmental factors (light, temperature, humidity, ventilation, etc.) for a given crop. Give each plant the space and environment it needs as different plants like different environments.

Start with clean seeds and cuttings. Before you suspect plant disease use Mineral Magic or BioMagix, it will help you prevent fungi and other pathogens from attacking your plants.

### **If white salt deposits form on the clay pebbles:**

1. Try using a milder nutrient solution and topping off with plain water only.
2. Occasionally drain your system, refill with plain water and run the pump overnight. After the overnight rinse, empty the reservoir and refill with fresh nutrient solution.
3. When topping off, and to avoid salt accumulation and/or food toxicity, always use a very mild solution: do not exceed .08 EC.

### **If nutrient solution stops flowing from the injectors:**

1. Check to ensure that pump is plugged in and reservoir is filled with nutrient solution.
2. Make sure the whole irrigation line (all the way from the pump) is clear. Rinse well.
3. Blow into the distribution tubing and injectors to make sure they are unclogged. Too much clogging may indicate that you have "hard" water or too strong a nutrient solution.

## GENERAL HYDROPONICS EUROPE

Biopole - 32500 FLEURANCE - FRANCE

Ph. 33 - (0)5 62 06 08 30 - Fax : 33 - (0)5 62 06 64 04

Email : [info@eurohydro.com](mailto:info@eurohydro.com)

# Bringing Nature and Technology Together