

AEROPONIC FARM

- ▶ Plants in this farm take up nutrients not from water and soil, but from mist. This form of cultivation is very economic. It consumes only 5% of the water that we would use to water a regular farm. Tuber vegetables are particularly suited for this type of cultivation. We especially recommend growing potatoes.

- ▶ **NECESSARY MATERIALS:**

- A. A cultivation container**

- You can use any non-transparent container with a lid.

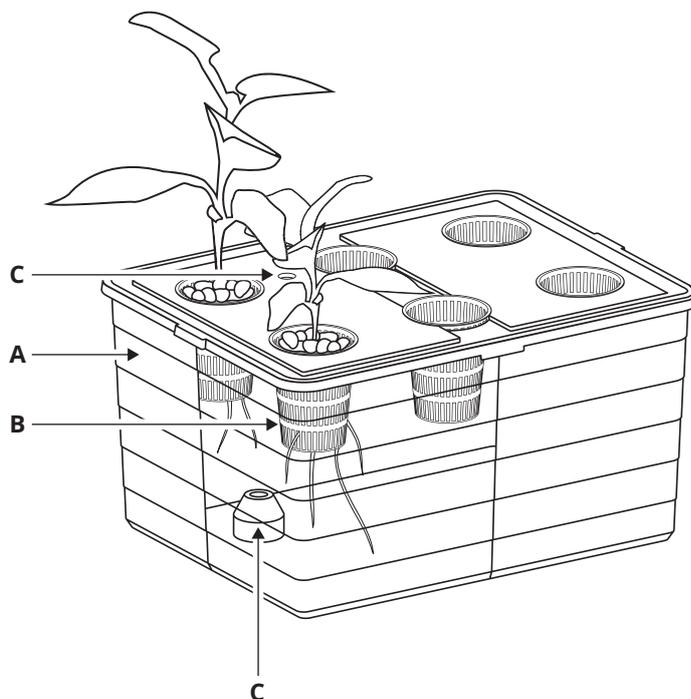
- ▶ 1 SOCKERBIT container 38 x 51 x 30 cm
 - ▶ expanded clay aggregate, e.g. ODLA
 - ▶ aquarium silicone adhesive
 - ▶ fertiliser for hydroponics

- B. Flower pots**

- ▶ 6 hydroponics net pots, approx. 80 mm in diameter for herbs or 100 mm in diameter for vegetables, available in gardening shops

- C. Mist generator**

- ultrasonic diffuser, cut a hole for a power cord in its lid



- ▶ **STEP 1** Find a well-sunlit place at home. If no such place is available, to build an aeroponic farm you will need to install LED lighting that will allow the plants to grow. Timer of the lighting should be set to 14-16 hours.
- ▶ **STEP 2** Cut holes in a selected container. Their diameters should be only slightly smaller than the diameter of the net pots you have chosen. Cut a small hole for a cord supplying power to the mist generator.
- ▶ **STEP 3** Place the mist generator on the bottom of the container, fill the container with water to a level recommended by the manufacturer. As a rule, it is 3-5 cm above the device. Add fertiliser for hydroponics to the water in proportions suggested on the packaging. Cover the container with a lid.
- ▶ **STEP 4** Fill the net pots with expanded clay aggregate and add the seedlings you have chosen, e.g. strawberries, salad or tomatoes. Clean the seedlings' roots before planting. Put the net pots in appropriate places in the container's lid.
- ▶ **STEP 5** Switch on the mist generator. Check water level regularly and add water whenever needed. As the roots get bigger, make sure that the mist generator does not touch them. Vibrations can damage their delicate structure.