

OPTIMIZED SYSTEM

To optimize the growth of your plants, here are our recommendations:

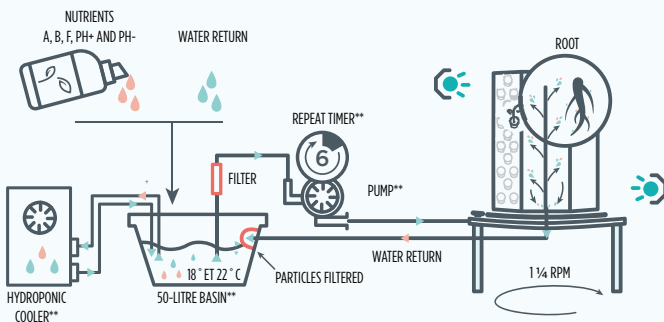
Under the support of each device is a basin containing 50 litres of water* to which nutrients (A, B, F, pH+, and pH-) are added. Please note that controlling the pH is important in order to optimize the yield.

The water from the basin enters the hydroponic cooler (water chiller) and returns to the basin to maintain the water temperature between 18 °C and 22 °C (64 °F and 72 °F), to prevent the formation of algae and contaminants.

The timer activates or stops the pump every six minutes and collects the water to spray it on the roots. The excess water then drips into the bottom drain of the concave base and returns to the water basin.

*It is possible to install a series of devices on the same water basin.

OPERATION



**The pump, basin, timer, cooler, piping, and lighting are not included.

INDOOR AEROPONIC CULTURE

OPT FOR PROFITABILITY AND QUALITY!

BENEFITS

- Up to **60 %** savings in lighting 💡
- Substantial savings on **air conditioning**
- Ergonomic** working environment
- Easy** assembly
- Designed to be installed in series
- Savings** up to **90%** on **water** 💧 and up to **40%** on **fertilizer** 🌱
- More** culture, for less space

Rayonled



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Strawberries



Herbs



Lettuce



Medicinal plants



Tomatoes



GROW INDOORS

Healthy, pesticide-free food •
Year-round production •
Unaffected by outside temperatures

FEATURES

The most efficient growing method on the market

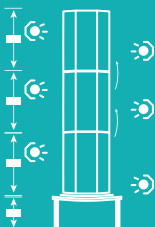


1 1/4 RPM

Easy assembly of four panels. The rotary system allows lighting on all surfaces using less light. It also eliminates excessive heat that can accumulate on plants and cause damage.



Each device is installed on a 3.5 ft x 2 ft support. A 50-litre water basin must be installed under the support with two lights.



Double or triple your yield capacity by adding one or two levels. This configuration requires four to six lights.

AEROPONIC CULTURE

Unlike hydroponic culture where plants are constantly soaked in water, aeroponic culture allows you to manage all the nutrient levels, namely their concentration, quantity, pH, and temperature.

Our systems offer you two aeroponic watering methods; either by microdrops using nozzles installed on a column in the centre of the device, or by drops using a cross-shaped piece with several small openings.

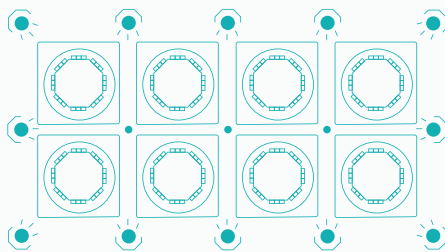
The roots, being exposed inside the device, rapidly oxygenate thanks to the darkness of the cylindrical chamber. This allows better absorption of nutrients and accelerates plant growth.

PROFITABILITY

Thanks to Speeding Gardens, you can improve your yield, quality, and productivity with aeroponic culture. Depending on the model, this system will allow you to produce 32 mature plants, 152 small plants or 1,040 cuttings.

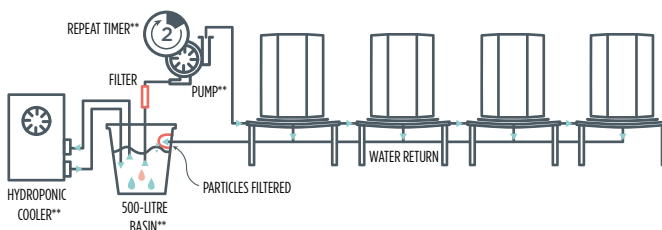
The serial installation of the system is surrounded by lights (as shown in the diagram). These are either high-pressure sodium vapour lamps or LED lighting. This configuration will allow you to maximize space and reduce operating costs.

For optimal growth, install the lights around the devices, as shown in this diagram. It is possible to add lower intensity lights in the centre aisle, as needed.



MULTIPLE SYSTEMS IN THE SAME NETWORK

As they are designed to be installed in series, these systems are perfect for greenhouses and warehouses. Maximize your time and workforce by supporting up to eight systems with the same 500-litre water basin.



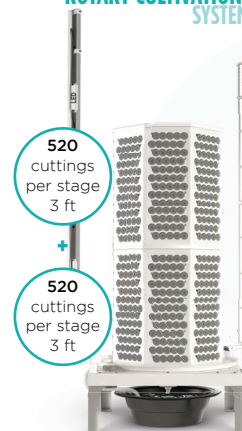
VISIT OUR WEBSITE FOR SPECIFICATIONS
ACCORDING TO THE QUANTITY OF DEVICES.

SG-Biotech.com

MODELS AVAILABLE

For all models, you can add another tower on top of the device to increase your crop yield and maximize your space.

ROTARY CULTIVATION* SYSTEM



CUTTINGS

Capacity: $520 + 520 = 1,040$ cuttings
Height: $3 + 3 = 6$ ft

It is the largest cutting system available on the market.

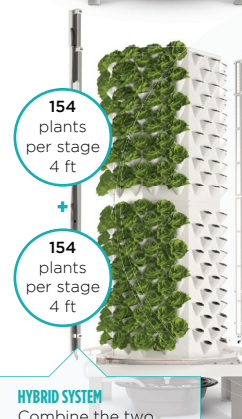
- Accommodates up to 520 cuttings on an area of 3.5 ft x 3.5 ft stackable
- Perfect for making cuttings from cannabis parent plants grown in our mature plant system

SMALL PLANTS

Capacity: $154 + 154 + 154 = 462$ plants
Height: $4 + 4 + 4 = 12$ ft

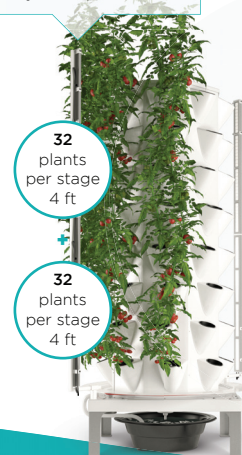
Perfect for smaller plants, such as medicinal plants, herbs, and lettuce.

- Accommodates up to 154 small plants per 4 feet on an area of 3.5 ft x 3.5 ft
- It is possible to add pieces of rock wool to keep the plants in place and preserve moisture; in this case, the neoprene discs will not be required



HYBRID SYSTEM

Combine the two systems panels in one.



MATURE PLANTS

Capacity: $32 + 32 + 32 = 96$ plants
Height: $4 + 4 + 4 = 12$ ft

Perfect for large plants, such as flowers, strawberries and cannabis mother plants.

Perfect for cannabis mother plants where the cuttings will be taken from stems to be installed in the cutting cultivation system.

- Cavities of 5 in or 6 in diameter
- Each pot requires a substrate of clay balls and pieces of rock wool
- Accommodates up to 32 small plants on an area of 3.5 ft x 3.5 ft

* Support with a 304-gauge stainless steel base and agrifood-grade welds

