

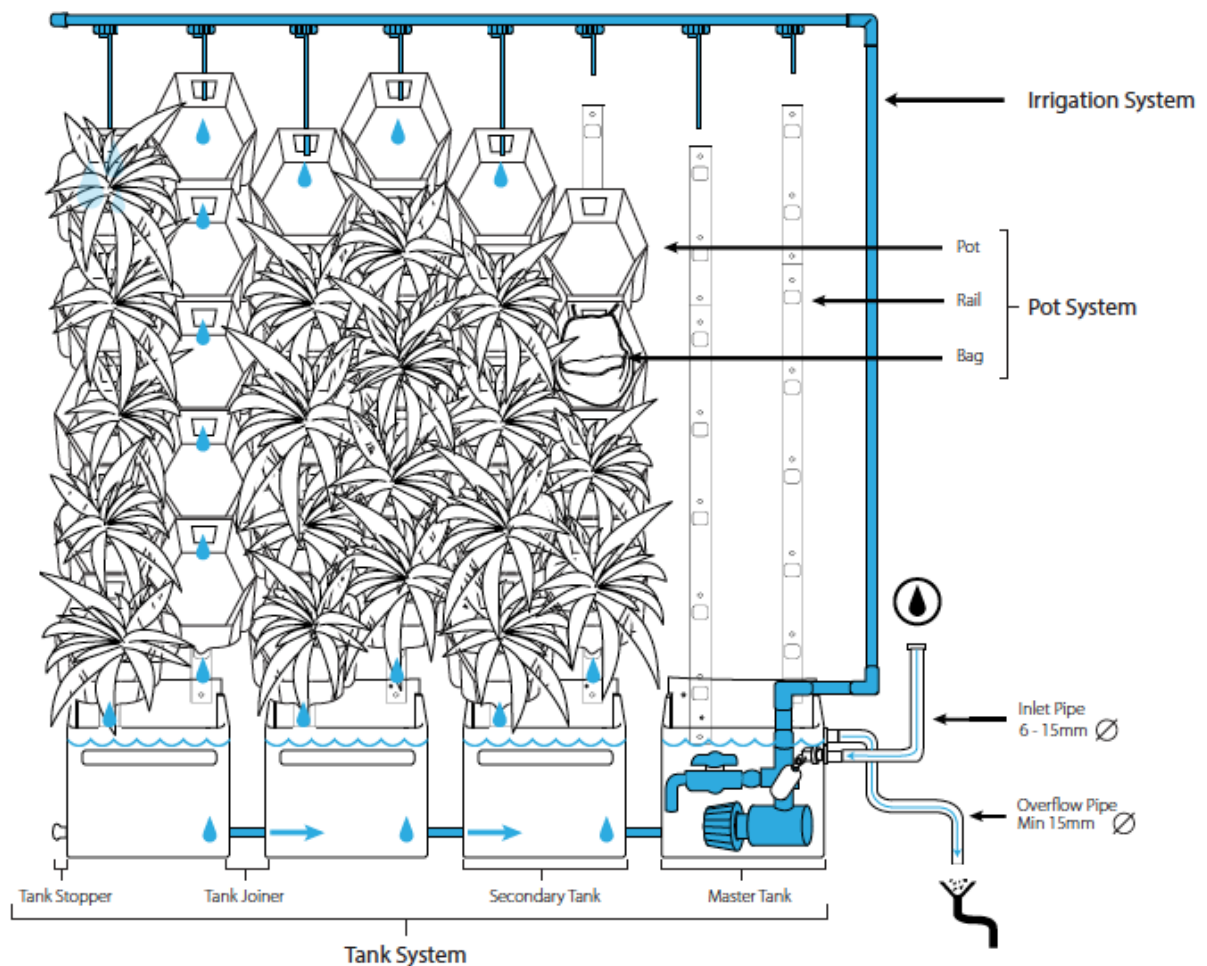
System Overview

The GrowUp Green Wall system is developed for indoor or outdoor use and is suited to both high-end decorative installations and high intensity farming operations; and anything in between.

The system is configurable both in terms of size (see solutions from 10 to 2,000 pots) and sophistication (simple hand watered systems to electronic and remote monitoring solutions).

Whatever your vertical growing requirements we have the solution.

Typical Configuration





Watering options

The simple irrigation system is designed to feed water to the top of each row of pots and the water then drips down through each pot, into the one below it. Water dripping from the bottom pot can be:

- a) Caught in our specially designed catch tanks and pumped back to the top of the wall (as shown in the illustration above), or
- b) Allowed to run off into a drain or flower bed below the wall. When this system is used a pump is not required and the irrigation is connected directly to a water source with an irrigation timer installed.

Installation

The vertical rails are designed to be connected directly to a wall (we supply waterproof plastic sheeting to avoid any risk of water getting to the wall). Installers have also used the following options:

- a) Attaching a plywood sheet to the wall and connecting the rails to the sheet. This allows fewer screws being drilled into the existing wall and allows the plywood sheet to be connected to the wall studs
- b) Applying 1" x 6" boards to the wall at the height at which the rails will be connected. This is ideal for outdoors or where a solid board may not be appropriate.
- c) A freestanding structure made from wood or steel, allowing the connection of the rails and catch tanks
- d) There are many other customized designs for corners, curves etc that we can help specify before the project goes live.

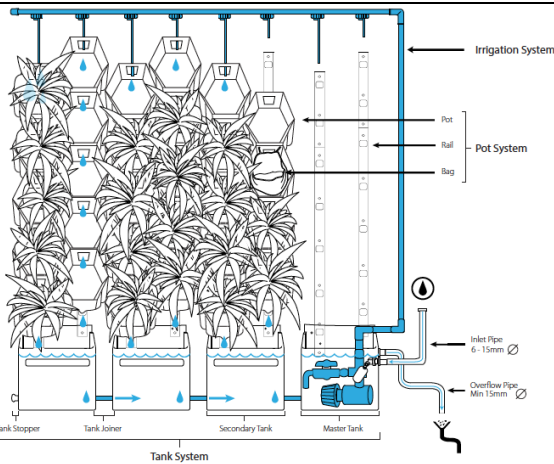
The solution has an average weight of under 11lb/sqft

You can watch a system overview video [here](#).

SYSTEM BENEFITS

Honeycomb design

The system's honeycomb design allows the pots to be packed really close together making optimal use of space available. In decorative walls there are no gaps between plants and the wall has a finished look from the minute it is planted.



Drip Irrigation

The pots are designed to drip into each other and for the water to move down through the system. By flooding each pot and allowing it to drain the plants receive as much water as they need without overwatering.

This also makes for easy installation as the irrigation is only run to the top of the wall and not to each horizontal row of pots.

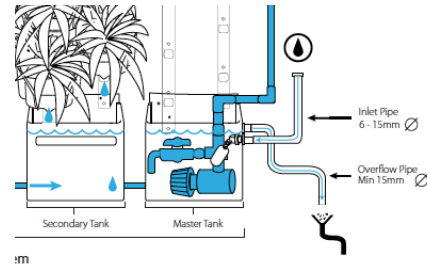
Soil based

Plants are grown in soil, the way they grow naturally, a truly organic solution. Planting in soil also substantially reduces maintenance compared to the common hydroponic vertical garden. The water is stored in the soil for a longer period of time ensuring longevity of the plants, should there be any system failures.



Water recycling

By capturing all water runoff and recycling it through the system no water is wasted in the process. Water input is regulated by a float valve and an overflow protection system is available in case of system failure



Energy Efficient

Using the flood irrigation system the pump is only running for 1 to 2 hours per day and therefore uses far less electricity than traditional hydroponic solutions

Automation

Automation of the whole system is simple to install. The pump is connected to a timer set to allow for the correct amount of watering time depending on climate and plant types being grown. The water input is connected to the master tank and controlled by a float valve that allows the system to refill as needed.

The instant effect, throughout the wall is a highlight of all projects. No visible plastic, no growing in time = profitable projects and happy clients



Visit our website for some more pictures of completed projects - [Click here](#)