

Benefits NG2.0

NG2.0 brings new benefits in addition to the advantages already offered by Next Generation Technology.

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1 Faster initial wetting
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2 Quick and effective distribution of water and nutrients
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3 Better use of the entire substrate

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Grodan supplies innovative, sustainable stone wool substrate solutions for the professional horticultural sector based on Precision Growing principles. These solutions are used in the cultivation of vegetables and flowers, such as tomatoes, cucumbers, sweet peppers, egg plants, roses and gerberas. Grodan offers stone wool substrates together with tailor-made advice and tools to support Precision Growing, facilitating the sustainable production of healthy, safe, and tasty fresh produce for consumers.

NG2.0 technology is now available in your region!
 Discover which growing media are available in your specific region and contact your sales representative.

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Growing has never been so precise

with
NG2.0
 Technology



All our information and advice is compiled with the greatest possible care and in accordance with state of the art technology. However we are unable to assume any liability for the contents. – May 2018



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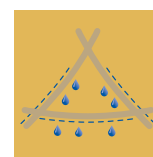
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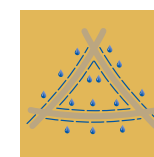
Next Generation 2.0 (NG2.0) is the latest substrate technology from Grodan. This technology enables propagators and growers to produce more while using less water, nutrients and space. It creates optimal growing conditions for a whole season, and allows roots to make better use of the entire substrate. NG2.0 is available in plugs, blocks and slabs to help growers and propagators produce sustainably, healthy fresh produce for a growing population.

The next step in Precision Growing

NG2.0 is the successor of the Next Generation Technology and adds new benefits. Water distribution is more uniform and a better utilisation of the entire substrate volume by the crop is ensured. Continuous growth of new roots in both block and slab result in a healthy and vigorous crop throughout the growing season. These benefits translate to higher yields, improved fruit quality and reduce the sensitivity of the crop to diseases. After a phased introduction, this technology is now worldwide available and covers the complete product range of Grodan.



Without
NG2.0
technology



With
NG2.0
technology

Up to 15% savings of water

NG2.0 technology enables optimal usage of the entire substrate volume. Uniform distribution in the block and slab ensures that all the water and nutrients are available to the plant. The necessary reductions in EC can therefore be achieved with less water.

15%

Savings during cultivation

A joint trial at the Improvement Center, "restricting irrigation and emissions", in which the Grotop Master (10 cm high) was used with NG2.0 technology, demonstrated water savings of 15% compared with various other irrigation regimes. In particular, more precise irrigation is possible during the winter months.

The key benefits during cultivation:

- Fast and vigorous root development – thanks to rapid and uniform distribution of water and nutrients, and optimal usage of the entire slab volume, especially in the top layer
- More direct steering of water and nutrients – thanks to better use of the functionalities of the substrate volume and the greater uniformity within blocks and slabs
- More balanced water and nutrient uptake – giving better distribution of finely branched roots in the slab
- Optimal control of the EC level in the slab, particularly important during changing weather conditions – thanks to rapid 'refreshment' of nutrients
- Steering for generative growth – due to better water and nutrient distribution, particularly in the top layer of the substrate
- Better performance on uneven surfaces – thanks to the improved re-saturation capacity of the slab
- Opportunities for improved yields in the second half of the year – thanks to continuous development of new roots in the blocks and slabs



Crop-specific substrates to optimize growth

Growers around the world are looking for ways to optimize their growing strategy with solutions that are customized to the crops they grow. Grodan anticipated this and began developing substrates for one or more crop types. We now have a unique portfolio of substrates that are tailored to the characteristics of each crop, such as Grodan Supreme for the cultivation of sweet peppers. All Grodan substrates have a tick mark on the appropriate crop icon to make it easy for growers to choose the right substrate.

Savings during propagation

During initial wetting of blocks, it has been shown that the water volume required for uniform saturation of the blocks is 15% lower due to the rapid water absorption. This means a significant reduction in water consumption can be achieved, which will also help to meet future emissions standards.

The key benefits during propagation:

- No dry spots in plugs and blocks – thanks to fast and reliable initial saturation which again saves time, water and nutrients
- More balanced steering of water and nutrients – thanks to better use of the functionalities of the substrate volume and the greater uniformity within the plugs and blocks
- Improved uniformity within batches of plants for delivery to growers – thanks to improved utilization of the substrate volume, which means that watering can sometimes be postponed (generative management)
- Ideal rooting over the full height of the block – thanks to rapid and uniform initial distribution of water and nutrients and optimal usage of the full block volume
- Rapid rooting throughout the slab – thanks to better water and nutrient distribution in the top layer of the substrate, which also optimizes utilization of the full column height (block and slab)