"Grow as many hyperlocal plants as possible."

Marco Tidona Inventor and director at aponix



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aponix vertical barrel / 3D-NFT V3

urban cultivation systems / soil-less or substrate based



Irrigation options



Working through integration partners

aponix provides usable, flexible,

Components are regarded as infrastructure building blocks for and market their own solutions and





B1) Drain to external

Modular stackable system

Vertical cultivation system

- Modular stackable vertical drip system/3D-NFT.
- Assemble ring segments from 6 compact ring segment pieces.
- Provides twelve standard 2" net pot soilless grow spaces for each 15 cm added.
- Stack any number of ring segments into a vertical cylinder / barrel corpus.
- Chain any number of vertical barrels into an urban production line.
- Attach irrigation to each unit on the top, add pump, connect drain to reservoir to set up your farm.
- Grow lettuce, herbs, fruit and exotics > 60 plants per sqm.
- Version 3 adding many other components and accessories.
- 5 years in development.

The aponix vertical barrel system provides base infrastructure components you can use to set up vertical soilless grow spaces for urban farming setups that run on recirculating liquid nutrients.

Irrigation works via vertical drip regardless how many units you use and how high your units are. While running down on the inside surface the liquid is gently directed evenly to all root areas by a system of wings. Depending on the purpose and type of setup the liquid will remain in a closed base and recirculate from there or drain completely back to an external reservoir.

Soilless vertical barrels in production

Advantages

- Works like a NFT system but in 3D.
- No racks, use natural sunlight.
- Easy integration into existing systems.
- Highest UV resistant material (ASA), 100 % (re-)cyclable in the technical cycle.
- Flexible height and number of grow spaces / stacked levels.
- Flexible plant spacing and size using grow space covers and plant positions.
- Standing, hanging, standalone, chained or custom versions possible.
- Irrigation with pressure, without, aeroponics, fogging.
- Greenhouses or indoor growing with grow lights.

abours

vertical barrel/3D-NFT V3





V3 Ringsegment Piece with two 2" grow spaces V3 Revision Piece





Top Lid

Waterbuffer (no-pressure irrigation)





Sprinkler Dome/ Sprayer mode

Closed Base (standalone reservoir)



Lid-Base (chain units)





Metal Trellis 'Fox' (3 mm)







Reusable Plug-Pot

Netafim Drip Stop Adapter

2000

