



## Info Sheet Vertical Barrel V3 / 3D-NFT – Version: Jan 2021

### Examples:



Multi unit, high pressure



variable no of levels



variable no of levels

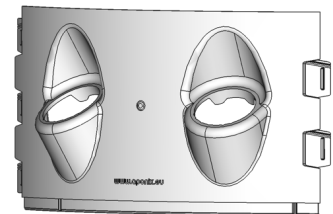


Standalone, low pressure



Vertical cylinder(s) built from ring segment elements:  
Use 6 such pieces to add one level.

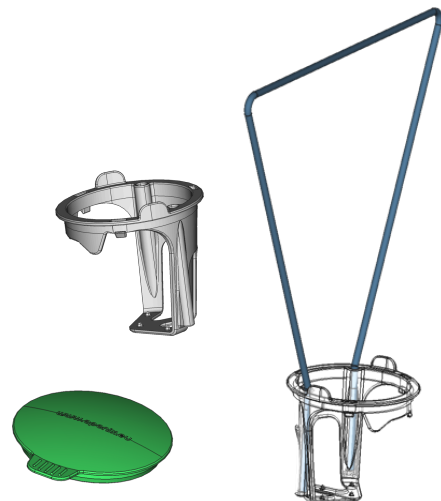
Height = number of grow spaces: variable  
Number of units to be used: standalone or chained



Different types of irrigation from the top:  
- pressure sprayer or sprinkler / no pressure  
- vertical drip

Different types of liquid handling in bottom:  
- drainage / retention

Always growing from 2" / 5cm net pots or  
our special reusable plug pot with  
optional metal plant trellis.  
Grow space cover for unused grow spaces.

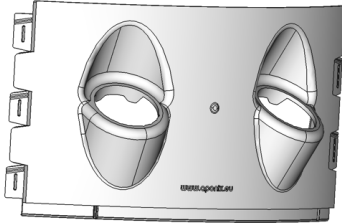




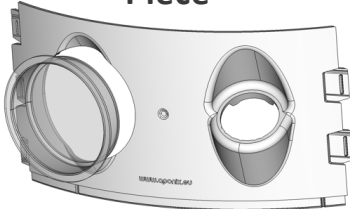
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### Parts:

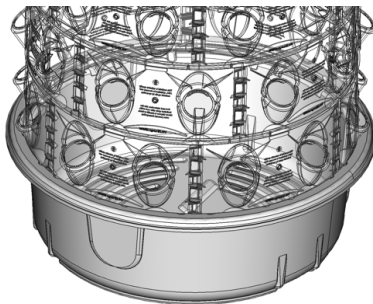
#### V3 Ring Segment Piece



#### V3 Revision Piece

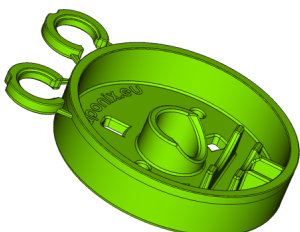


With circular cut and LDPA lid

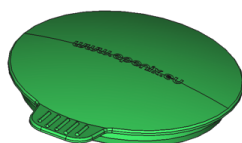


**Closed Base**  
35l reservoir for standalone mode

**Netafim adapter**  
Use Netafim 4/7 tubing and micro-nozzles

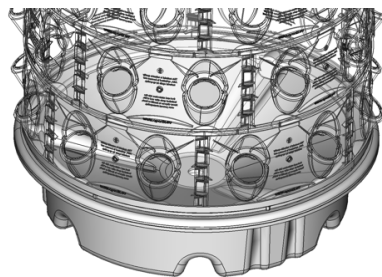
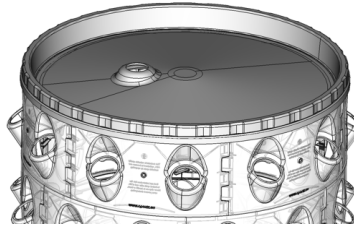


#### Grow-Space Cover



#### Waterbuffer

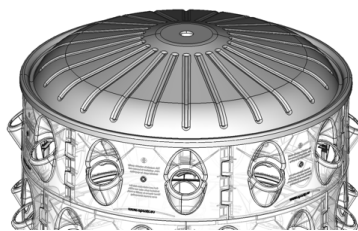
For no pressure irrigation, fed from inside/outside



Chain multiple units

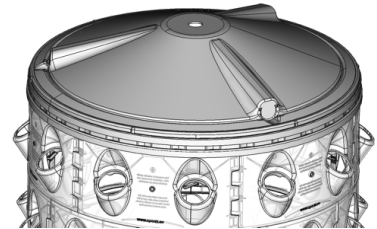
#### Sprinkler Dome

Mount a pressure nozzle in the center

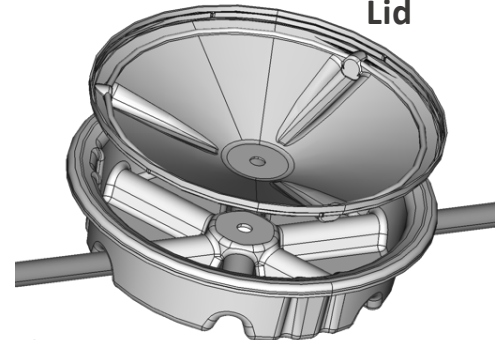


#### Lid

Covers Waterbuffer / top



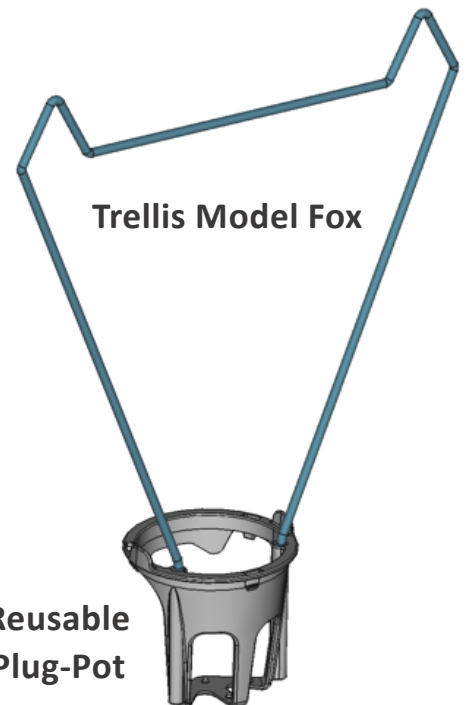
#### Upside-down Lid



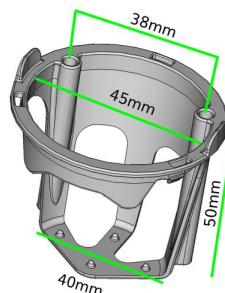
#### Lid-Base

Draining to external reservoir via standard 40mm PVC pipe

#### Trellis Model Fox



#### Reusable Plug-Pot

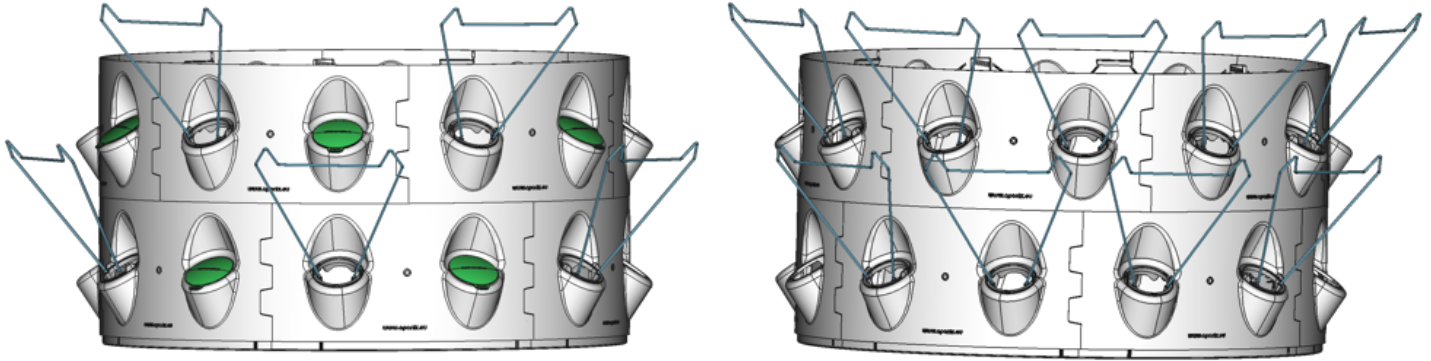




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### Stacking – Grow Space Positioning:

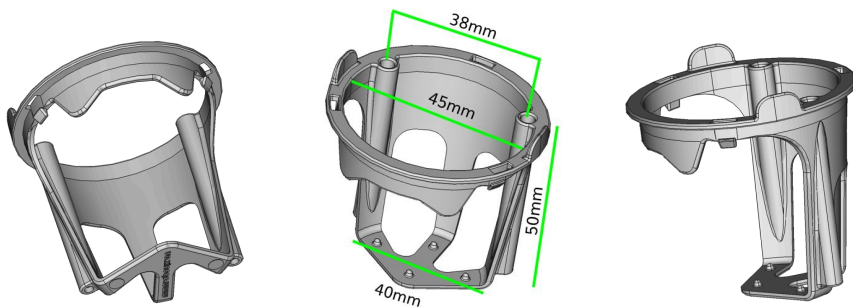
Stacking assembled ring segments, there are 2 possible set points resulting in these grow space positions:



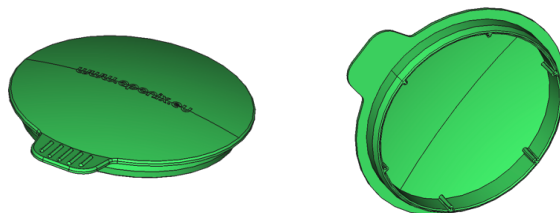
- All grow spaces are horizontally and vertically 15cm apart.
- Each ring segment adds 15cm of height and 12 usable grow spaces.
- You can use standard 2" or 5cm netpots. The exact diameter at every grow space is 5cm. Larger net pots also work great.

Please consider using the reusable Plug Pot version. You can also use them to hold young plants grown from alternative substrates or glue plugs.

Additionally the aponix Plug Pot provides a plant trellis insert, that you can use to support fruiting crops or large flowers. Get it from aponix or bend your own. You need 3mm galvanized steel, that provides 2 parallel ends 38mm apart and 45mm long to fit the insert.



If you grow larger crop or are a user of a standalone unit and do not run all grow spaces all the time, you should close the unused grow spaces using our green cover.





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### Farm installation planning:

#### Multiple chained units

If you plan to run multiple units, you will probably like to drain your nutrient solution to a central reservoir or sump tank. A Lid-Base upside down Lid combination can be used. The Lid-Base provides cavities to install a standard 40mm PVF pipe underneath.

Alternatively the Lid-Base can be used to have rotating units by draining into a gutter underneath.

You could also use a waterbuffer to feed nutrients on low pressure.

#### Standalone unit

A closed base serves as reservoir.

Adding a standard submersible pump, that can push liquid up to the top of your vertical barrel, you can connect the waterbuffer with your pump within the unit.

Running the pump from a timer for your irrigation cycles for night and day time.

To be able to move the unit you can put it on a roller board.