

# Material Catalogue

## aponix vertical barrel



Version 2020-02



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Please visit our website (<https://www.aponix.eu>) in order to understand the possible setups and the logic of the aponix vertical barrel system. This is a basic overview to show the major parts, their purpose and their article numbers.

### Bases

<p><b>Closed Base</b></p>  A white, circular, shallow plastic basin with a slightly raised rim and a central vertical support structure. It is designed to hold a single vertical barrel.	<p><b>Use:</b> Reservoir for standalone setup. Base for substrate-based or filter setup.</p> <p><b>Dimensions:</b> 640x640x240mm, 4.5kg</p> <p><b>Capacity:</b> 36 liters</p>	<p><b>Article-No:</b> mmp101511</p> <p><b>Material:</b> PVC, 6mm, vacuum molded</p>
<p><b>Multi-Barrel Base</b></p>  A white, circular, shallow plastic basin with a slightly raised rim and a central vertical support structure. It is designed to hold multiple vertical barrels. It has a large, triangular-shaped cutout at the bottom center.	<p><b>Use:</b> On larger setups with multiple vertical barrels when liquid is managed in a central/external reservoir.</p> <p>It comes with a ¾" outside thread fitting.</p> <p><b>Dimensions:</b> 870x870x220mm, 4.5kg</p>	<p><b>Article-No:</b> mmp101509</p> <p><b>Material:</b> PVC, 6mm, vacuum molded</p> <p>Requires fitting as outlet of liquid on lowest point for proper farm integration.</p>

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## Top and Irrigation

<p><b>Top Lid</b></p> 	<p>Use: Cover the top. Can optionally hold sprinkler for pressure irrigation.</p> <p>Dimensions: 580x580x100mm, 1kg</p>	<p>Article-No: mmp101439</p> <p>Material: PVC, 4mm, vacuum molded</p>
<p><b>Waterbuffer</b></p> 	<p>Use: For low pressure irrigation this additional part is placed on top below the top lid. It can be filled from the top via hose or from inside a vertical barrel via submergible pump and an additional hole and fitting (3/4" outside thread underneath) in the center.</p> <p>Dimensions: 580x580x100mm, 800g</p>	<p>Article-no: mmp101484</p> <p>Material: PVC, 3mm, vacuum molded</p>
<p><b>Netafim-aponix adapter</b></p> 	<p>Use: It clicks to the top of the top lid (hole 25mm) and requires a Netafim dripstop component to be inserted. 7/4mm Netafim piping is used with a reduced pressure line of =2bars. Flow rate can be selected flexibly by attaching these Netafim nozzles: Vibronet 40l/h, Spinnet 70l/h or Coolnet 7.5l/h.</p>	<p>Article-No: apo- netafim-adap</p> <p>Material POM, aponix green</p> <p>Recommended Metafim nozzle: Vibronet</p>

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aponix vertical barrel

Version 2020-02



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<p><b>Sprinkler (Senninger)</b></p> 	<p>Use: It can be mounted on top of the top lid and requires a pressure line <math>\geq 1.5</math>bars, flow rate is 5l/min. Attaches to a 1/2" hose via spigot.</p>	<p>Article-No: apo-sprinkler          Manufacturer: Senninger</p>
<p><b>Pump for Standalone Setup</b></p> 	<p>Use: Provides low pressure liquid to a waterbuffer from a closed base underneath.</p> <p>Model: OASE OptiMax 2000, max height 2.3m</p> <p>There is also the OptiMax1000 modell that can operate vertical barrels up to a height of 7 ringsegments.</p>	<p>Article-no: oase42657          Manufacturer: OASE</p>
<p><b>Inside Connection Hose</b></p> 	<p>Use: Connect 3/4" hose to submergible pump and connect other end with fitting in waterbuffer. A valve is added for fine tuning.</p>	<p>Article-No: apo-hose-3-4          Manufacturer: aponix          Build individually to fit specific setup.</p>

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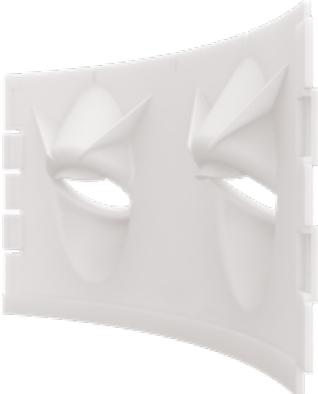


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## Barrel Pieces

Used to build ring segments for vertical barrels and provide grow adapters. 6 pieces are required to assemble a full ring segment. All pieces can be interchanged to ,configure' the cultivation area / outside of a vertical barrel.

<b>Two-Net-Pot Piece</b>  A white, curved plastic piece with two circular openings, one on each side, and a small protrusion on the right edge.	Use: Soilless  Dimensions: 300x160x80mm, 200g	Article-No: mmp200759  Material: ASA, injection molded
<b>One-Net-Pot Piece</b>  A white, curved plastic piece with a single circular opening in the center and a small protrusion on the right edge.	Use: Soilless  Dimensions: 300x160x70mm, 180g	Article-No: mmp205083  Material: ASA, injection molded
<b>Closed Piece</b>  A white, curved plastic piece with a small protrusion on the right edge and no openings.	Use: Soilless and substrate based.  Dimensions: 300x160x50mm, 180g	Article-No: mmp200782  Material: ASA, injection molded



# Material Catalogue

aponix vertical barrel

Version 2020-02




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<p><b>Shelf Piece</b></p> 	<p>Use: Substrate based</p> <p>Dimensions: 300x160x130mm, 210g</p>	<p>Article-No: mmp200781</p> <p>Material: ASA, injection molded</p>
<p><b>Revision Piece</b></p> 	<p>Use: Soilless</p> <p>Dimensions: 300x160x50mm, 180g</p> <p>Lid diameter 120mm.</p>	<p>Article-No: apo- revision</p> <p>Material: ASA, injection molded, lid LDPE.</p>

## Special City-XL Version

These substrate barrel pieces are especially designed to assemble setups in public spaces. The barrel has a larger diameter (95cm) when assembled and larger pieces (17cm high, 33cm wide). The material is a carefully selected to make it extra safe for public spaces.

<p><b>City-XL Substrate Shelf Piece</b></p> 	<p>Use: Substrate based</p> <p>Dimensions: 330x170x80mm, 400g</p> <p>Requires extensive planning and custom materials to be integrated.</p>	<p>Article-No: mmp200759</p> <p>Material: PA6 V0</p> <p>Properties: flame- resistant UL94-V0 and food-safe</p> <p>Color: Reed green/Schilfgrün (RAL 6013)</p>
<p>The Close City-XL Piece will be added in late 2020</p>		

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## Bundles

Here are the standard bundles including the parts required to set them up. There are many other setups possible. Height and ring segment configuration can always be variable.

<p><b>Multibarrel (12 Ring Segments, 142 Grow Spaces)</b></p> 	<p>Use: Set up lines with vertical barrels with external reservoir.</p> <p>Irrigation: With pressure line from above of each barrel attached to sprinkler. Liquid drains on the bottom of each vertical barrel and needs to be redirected to an external reservoir by independent plumbing/piping. Overall planning required.</p> <p>Dimensions: Diameter 570mm, Base 870mm, height 2.2m</p>	<p>Material list:</p> <ul style="list-style-type: none"><li>1 x Lid</li><li>1x Sprinkler</li><li>1 x Multi-Barrel Base</li><li>1 x Revision Piece</li><li>71 x Two-Net-Pot Piece</li></ul> <p>Alternatively the bottom ring segment with the revision piece and be closed using 5 closed pieces. This gives a cleaner look at the expense of 10 grow spaces.</p>
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<p><b>Standalone Soilless (10 Ring Segments, 118 Grow Spaces)</b></p> 	<p>Use: Run 1 or some individual vertical barrels all with their own reservoir in the base.</p> <p>Dimensions: Diameter 570mm, Base 640mm, height 1.9m</p>	<p>Material list:</p> <ul style="list-style-type: none"><li>1 x Lid</li><li>1 x Waterbuffer</li><li>1 x Closed Base</li><li>1 x Revision Piece</li><li>59 x Two-Net-Pot Piece</li></ul> <p>In order to have it ready-to-run you will need:</p> <ul style="list-style-type: none"><li>1x Inside Connection Hose</li><li>1x Submergible Pump</li><li>2" Net Pots (optional)</li></ul>
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For more details and examples please visit <https://www.aponix.eu/shop>.

For orders please use your order form.

Thanks for promoting/using aponix vertical barrels!