

# Material Catalogue

aponix vertical barrel

Version 2021-04





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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. In general V3 and V2 ring segment pieces can be combined with any of the large pieces. Ring segment pieces of V2 and V3 can not be mixed in the same ring segment. Ideally they are not mixed within the same barrel unit.

This is a basic overview to show the major parts, their purpose and their article numbers, weight and material.

Pieces marked 'Preview' are in the pipeline and will be available soon.

## Bases

<b>Closed Base</b> 	<b>Use:</b> Reservoir for standalone setup. Base for substrate-based or filter setup.  <b>Dimensions:</b> 640x640x240mm, 4.5kg  <b>Capacity:</b> 36 liters	<b>Article-No:</b> mmp101480  <b>Material:</b> PVC, 6mm, vacuum molded
<b>DISCONTINUED Multi-Barrel Base (has been replaced by the Lid-Base + a Lid)</b> 	<b>Use:</b> On larger setups with multiple vertical barrels when liquid is managed in a central/external reservoir.  It comes with a ¾" outside thread fitting.  <b>Dimensions:</b> 870x870x220mm, 4.5kg	<b>Article-No:</b> mmp101509  <b>Material:</b> PVC, 6mm, vacuum molded  Requires fitting as outlet of liquid on lowest point for proper farm integration.
<b>Lid-Base</b>	<b>Use:</b> For multi barrel setups. Needs an upside-down lid as inserted base. Can hold/fix a standard	<b>Article-No:</b> mmp101977  <b>Material:</b> PVC, 6mm, vacuum molded


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	<p>40mm PVC pipe as drain underneath.</p> <p>Dimensions: dia. 600x140mm, 2.7kg</p>	<p>Requires fitting as outlet of liquid on lowest point for proper farm integration.</p>
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## Tops and Irrigation

<p><b>Top/Bottom Lid</b></p> 	<p>Use: Cover the top. Can optionally hold sprinkler for pressure irrigation.</p> <p>Used as Bottom for multi-barrel setups with the Lid-Base.</p> <p>Dimensions: 580x580x100mm, 1kg</p>	<p>Article-No: mmp101439</p> <p>Material: PVC, 4mm, vacuum molded</p>
<p><b>Preview: Sprinkler Dome (top lid)</b></p> 	<p>Use: Cover the top when using sprinkler. It directs sprayed liquid evenly to the edges where it is converted to vertical drip irrigation.</p> <p>Dimensions: 580x580x110mm, 1kg</p>	<p>Article-no: mmp102072</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 submersible pump and an additional hole and fitting (3/4" outside thread</p>	<p>Article-no: mmp101484</p> <p>Material: PVC, 3mm, vacuum molded</p>


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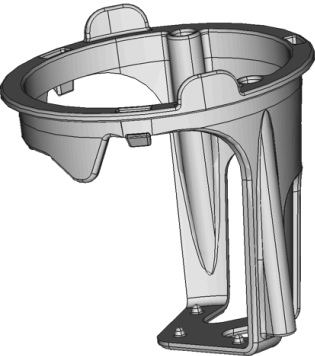
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	underneath) in the center.  Dimensions: 580x580x100mm, 800g	
<b>Netafim-Aponix Adapter</b>  	Use: It clicks to the top of the top lid (hole 25mm) and requires a Netafim dripstop component to be inserted. 7/4mm Netafim piping is used with a reduced pressure line of =2bars. Flow rate can be selected flexibly by attaching these Netafim nozzles: Vibronet 40l/h, Spinnet 70l/h.	Article-No: mmp201083  Material: POM  Color: Green  Recommended Metafim nozzle: Vibronet

## Aponix Grow Space Elements

<b>Reusable Plug Pot with Plant Trellis Insert</b>  	Use: Replacement for single-use plastic net pots.  Dimensions: 55x55x55mm, 7g  Diameter is 5cm exact. Pot clicks into grow space. Potentially usable for other hydro systems. Fits best into aponix vertical barrels.	Article-no: mmp201132  Material: ABS, injection molded  Color: Light Grey
<b>Grow Space Cover</b>	Use: Cap/close unused grow spaces in V2 or V3 grow spaces or cover every 2 <sup>nd</sup> grow space in 6-plants-per-level-setting.	Article-no: mmp201136  Material: PE (soft), injection molded

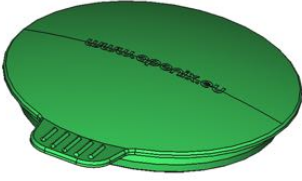
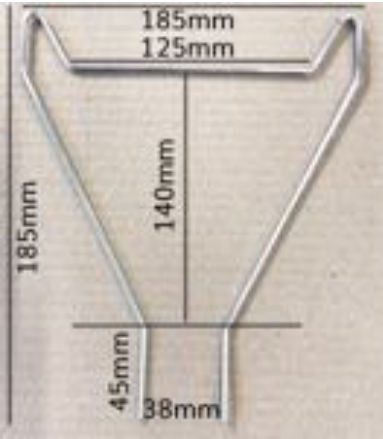
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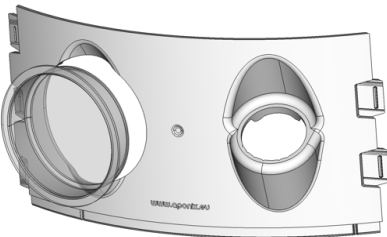


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	<p>Dimensions: 55x55x10mm, 7g</p>	<p>Color: Green</p>
<p><b>Metal Trellis for Plug Pot</b> <b>Model: Fox w185 h185</b></p> 	<p>Use: Insert into Plug Pot to grow fruiting crops.</p> <p>Dimensions: Diameter 3mm, 185x185mm.</p>	<p>Article-no: cae_fox_w185_h185</p> <p>Material: Galvanized steel 3mm, bent from wire</p>

## V3 Barrel Ring Segment Pieces

Used to build ring segments for vertical barrels and provide grow adapters for larger or commercial setups. 6 pieces are required to assemble a full ring segment.

<p><b>Preview: V3 Two-Net-Pot Piece</b></p> 	<p>Use: Soilless</p> <p>Dimensions: 300x160x85mm, 210g</p>	<p>Article-No: mmp201134</p> <p>Material: ASA, injection molded</p>
<p><b>Preview: V3 Net-Pot Piece with Revision Hole</b></p> 	<p>Use: Soilless</p> <p>Dimensions: 300x160x85mm, 210g</p>	<p>Article-No: mmp201135</p> <p>Material: ASA, injection molded, lid LDPE.</p>

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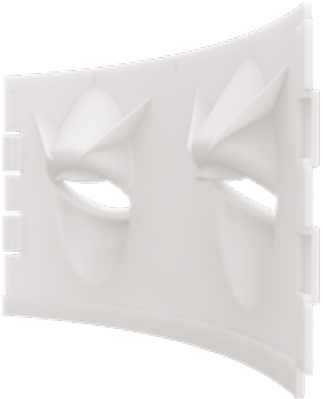


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## V2 Barrel Ring Segment Pieces

Used to build ring segments for vertical barrels and provide grow adapters for educational, small and hobby setups. 6 pieces are required to assemble a full ring segment.

<b>DISCONTINUED V2 Two-Net-Pot Piece</b> 	Use: Soilless  Dimensions: 300x160x80mm, 200g	Article-No: mmp200759  Material: ASA, injection molded
<b>DISCONTINUED V2 One-Net-Pot Piece</b> 	Use: Soilless  Dimensions: 300x160x70mm, 180g	Article-No: mmp205083  Material: ASA, injection molded
<b>V2 Closed Piece (used for substrate setup)</b> 	Use: Soilless and substrate based.  Dimensions: 300x160x50mm, 180g	Article-No: mmp200782  Material: ASA, injection molded



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<b>V2 Shelf Piece</b> 	Use: Substrate based  Dimensions: 300x160x130mm, 210g	Article-No: mmp200781  Material: ASA, injection molded
<b>DISCONTINUED V2 Revision Piece (discontinued)</b> 	Use: Soilless  Dimensions: 300x160x50mm, 180g  Lid diameter 120mm.	Article-No: apo- revision  Material: ASA, injection molded, lid LDPE.

## 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.

<b>City-XL Substrate Shelf Piece</b> 	Use: Substrate based  Dimensions: 330x170x80mm, 400g  Requires extensive planning and custom materials to be integrated.	Article-No: mmp201081  Material: PA6 V0  Properties: flame- resistant UL94-V0 and food-safe  Color: Reed green/Schilfgrün (RAL 6013)
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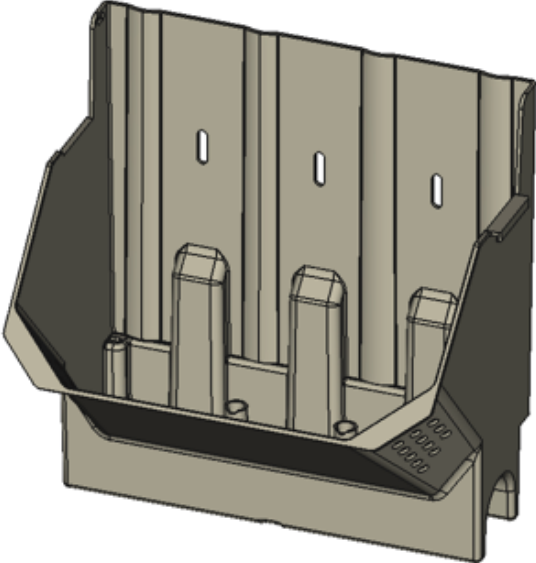
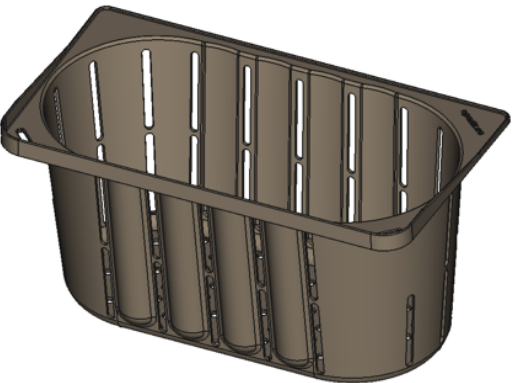
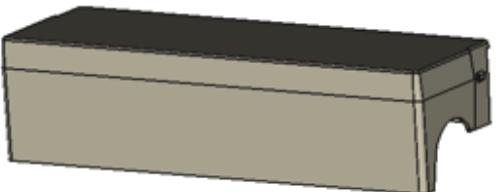
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## WallSystem

Available from Q2- 2021: Modular living wall system available. It uses square modules that can be used indoor or outdoor with various types of internal irrigation logic. See <https://www.aponix.eu/wall-system> for a preview and more details.

<b>Module</b> 	<b>Base part.</b>  Dimensions: 210x180x150mm  Requires planning and custom materials (32mm PVC pipes, mounting rails) to be integrated.	Article-No: mmp201181  Material: PA  Properties: flame-resistant and food-safe  Color: Moss Grey/Moosgrün (RAL 7003)
<b>Pot Insert</b> 	Removable pot insert to be planted and/or filled with medium of choice and plants.  Dimensions: 210x110x120mm  Can be planted off-site on flood tables. Takes 2x standard circular 10.5cm pre-potted plants.	Article-No: mmp201182  Material: PA  Properties: flame-resistant and food-safe  Color: Braown Grey/Braungrau (RAL 7013)
<b>Lid</b> 	Top lid to cover the top row and irrigation pipe. Can also be used in between rows when additional drainage and fresh nutrients are required.  Dimension: 220x65x65mm	Article-No: mmp201183  Material: PA  Properties: flame-resistant and food-safe

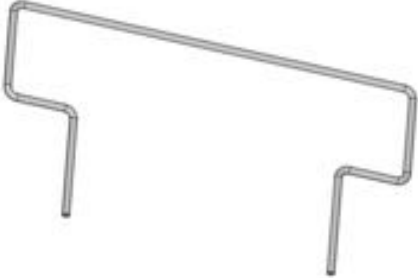
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		Color: Moss Grey/Moosgrün (RAL 7003)
	<p>Use: Insert into WallSystem Pot Insert.</p> <p>Dimensions: Diameter 4mm, 216x107mm.</p>	<p>Article-No: cae_bra_w216_h107</p> <p>Material: Galvanized steel 4mm, bent from wire</p>

## Other Elements

<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 <math>\frac{1}{2}</math>" hose via spigot.</p>	<p>Article-No: apo-sprinkler</p> <p>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</p> <p>Manufacturer: OASE</p>
<p><b>Inside Connection Hose for Standalone Setup with Waterbuffer</b></p>	<p>Use: Connect <math>\frac{3}{4}</math>" hose to submergible pump and connect other end with fitting in waterbuffer. A</p>	<p>Article-No: apo-hose-3-4</p>



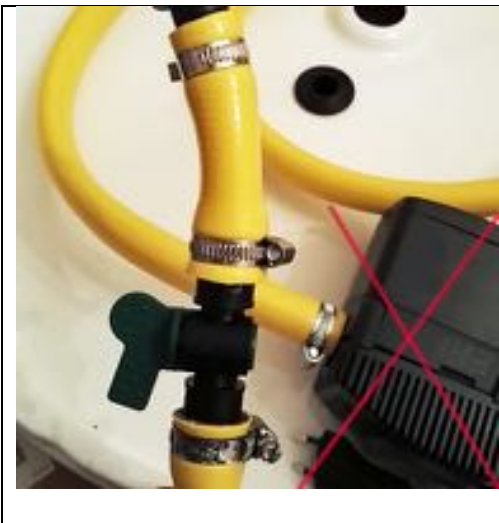
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	valve is added for fine tuning.	Manufacturer: aponix  Build individually to fit specific setup.
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For more details and examples please visit <https://www.aponix.eu/shop>

More info for our product partners, see: <http://www.aponix.eu/product-partners>

Thanks for promoting/using aponix vertical barrels!