

Material Catalogue

aponix vertical barrel

Version 2021-01





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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

Closed Base 	Use: Reservoir for standalone setup. Base for substrate-based or filter setup. Dimensions: 640x640x240mm, 4.5kg Capacity: 36 liters	Article-No: mmp101480 Material: PVC, 6mm, vacuum molded
Multi-Barrel Base (has been replaced by the Lid-Base + a Lid) 	Use: On larger setups with multiple vertical barrels when liquid is managed in a central/external reservoir. It comes with a ¾" outside thread fitting. Dimensions: 870x870x220mm, 4.5kg	Article-No: mmp101509 Material: PVC, 6mm, vacuum molded Requires fitting as outlet of liquid on lowest point for proper farm integration.
Lid-Base	Use: For multi barrel setups. Needs an upside-down lid as inserted base. Can hold/fix a standard	Article-No: mmp101977 Material: 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>Top/Bottom Lid</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>Preview: Sprinkler Dome (top lid)</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>Waterbuffer</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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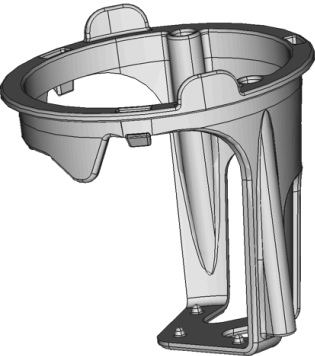
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	underneath) in the center. Dimensions: 580x580x100mm, 800g	
Netafim-Aponix Adapter 	Use: It clicks to the top of the top lid (hole 25mm) and requires a Netafim dripstop component to be inserted. 7/4mm Netafim piping is used with a reduced pressure 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

Reusable Plug Pot with Plant Trellis Insert 	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
Grow Space Cover	Use: Cap/close unused grow spaces in V2 or V3 grow spaces or cover every 2 nd grow space in 6-plants-per-level-setting.	Article-no: mmp201136 Material: PE (soft), injection molded

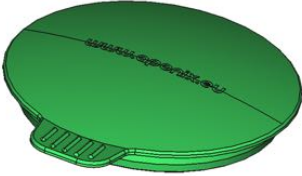
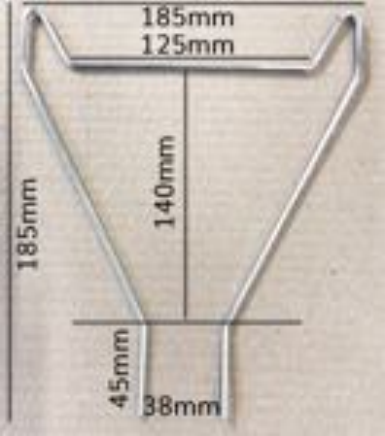
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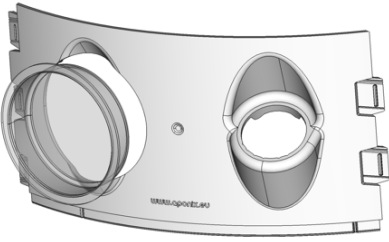


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	<p>Dimensions: 55x55x10mm, 7g</p>	<p>Color: Green</p>
<p>Metal Trellis for Plug Pot Model: Fox w185 h185</p> 	<p>Use: Insert into Plug Pot to grow fruiting crops.</p> <p>Dimensions: Diameter 3mm, 185x185mm.</p>	<p>Article-no: cae_fox_w185_h185</p> <p>Material: Galvanized steel, 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>Preview: V3 Two-Net-Pot Piece</p> 	<p>Use: Soilless</p> <p>Dimensions: 300x160x85mm, 210g</p>	<p>Article-No: mmp201134</p> <p>Material: ASA, injection molded</p>
<p>Preview: V3 Net-Pot Piece with Revision Hole</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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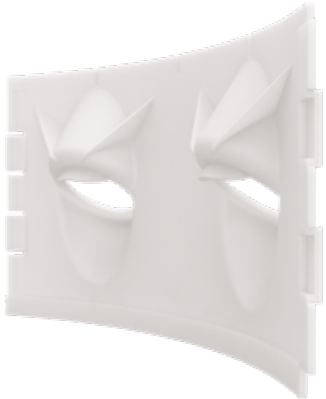


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V2 Barrel Ring Segment Pieces

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.

V2 Two-Net-Pot Piece (discontinued) 	Use: Soilless Dimensions: 300x160x80mm, 200g	Article-No: mmp200759 Material: ASA, injection molded
V2 One-Net-Pot Piece (discontinued) 	Use: Soilless Dimensions: 300x160x70mm, 180g	Article-No: mmp205083 Material: ASA, injection molded
V2 Closed Piece 	Use: Soilless and substrate based. Dimensions: 300x160x50mm, 180g	Article-No: mmp200782 Material: ASA, injection molded



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V2 Shelf Piece 	Use: Substrate based Dimensions: 300x160x130mm, 210g	Article-No: mmp200781 Material: ASA, injection molded
V2 Revision Piece (discontinued) 	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.

City-XL Substrate Shelf Piece 	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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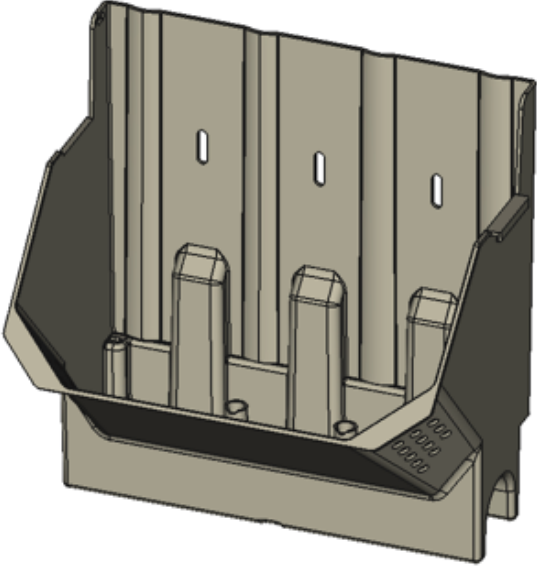
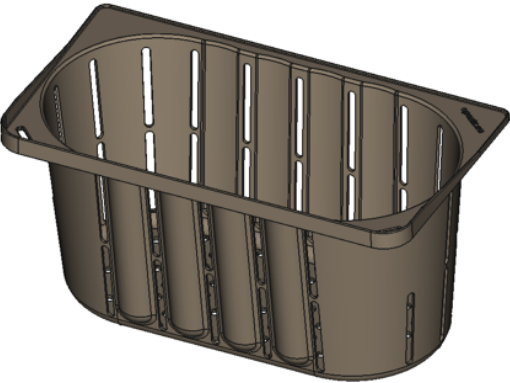
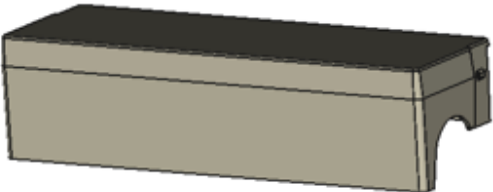
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WallSystem

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.

Module 	Base part. 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)
Pot Insert 	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)
Lid 	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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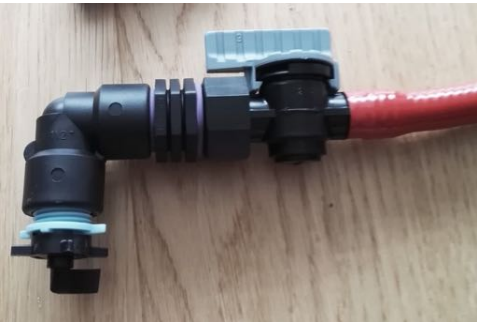



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		Color: Moss Grey/Moosgrün (RAL 7003)
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Other Elements

Sprinkler (Senninger) 	<p>Use: It can be mounted on top of the top lid and requires a pressure line ≥ 1.5 bars, flow rate is 5l/min. Attaches to a $\frac{1}{2}$" hose via spigot.</p>	<p>Article-No: apo-sprinkler</p> <p>Manufacturer: Senninger</p>
Pump for Standalone Setup 	<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>
Inside Connection Hose for Standalone Setup with Waterbuffer	<p>Use: Connect $\frac{3}{4}$" hose to submersible pump and connect other end with fitting in waterbuffer. A valve is added for fine tuning.</p>	<p>Article-No: apo-hose-3-4</p> <p>Manufacturer: aponix</p> <p>Build individually to fit specific setup.</p>


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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!