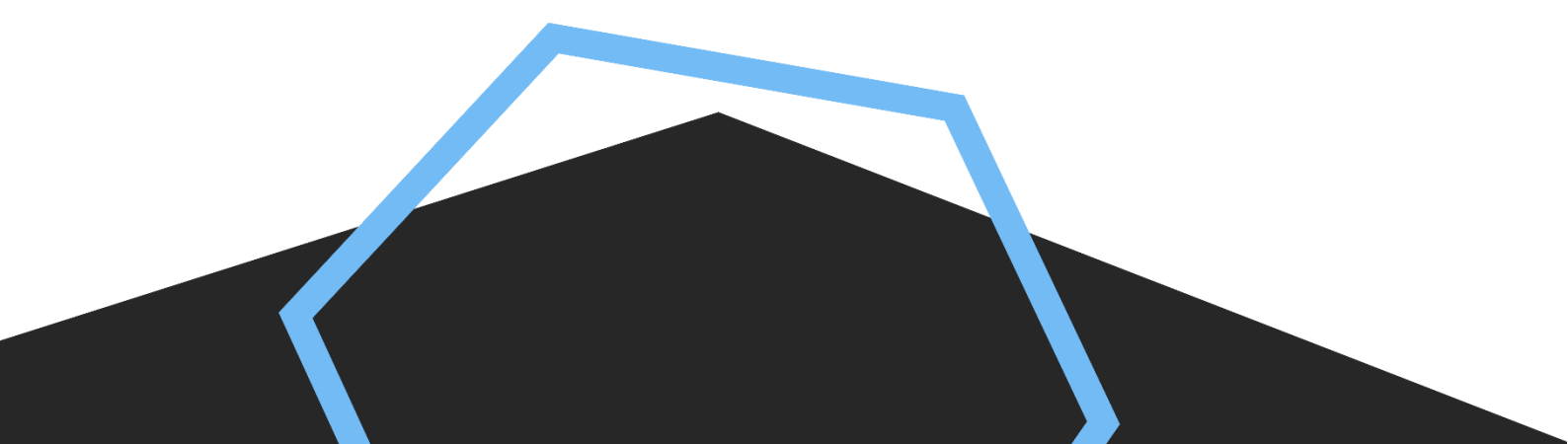




# Cabinet AMPC 22060

PRODUCT LEAFLET



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# 1 Standing Cabinet 2200 mm height and 600mm wide with glass door



### Equipped with

- Removable side walls
- Floor and roof plate with prepared ventilation openings
- Doors to open both on the right and on the left side
- Cable entries at the top and bottom
- Front door, rear door and side walls equipped with locks
- Assembled delivery
- Fully demountable
- Standard with 2 drawers with emergency off button installed
- Standard with 4 roller wheels

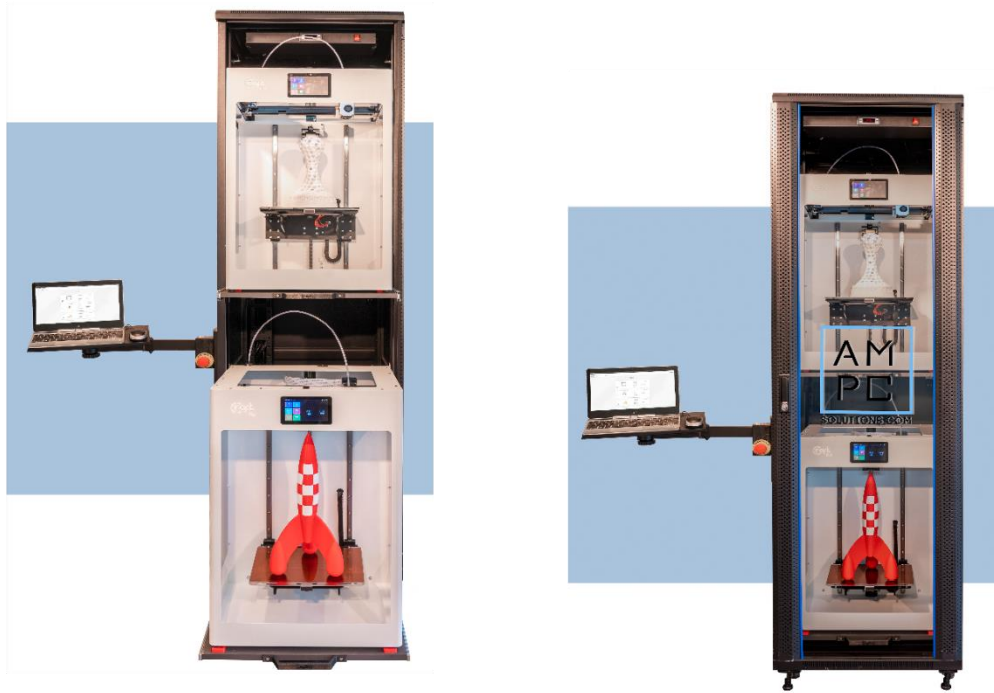
### Included

- 20 cage nut sets
- 4 swivel castors
- 4 height adjustable feet
- 8 keys (2 per lock)
- Maximum load: 800 kg

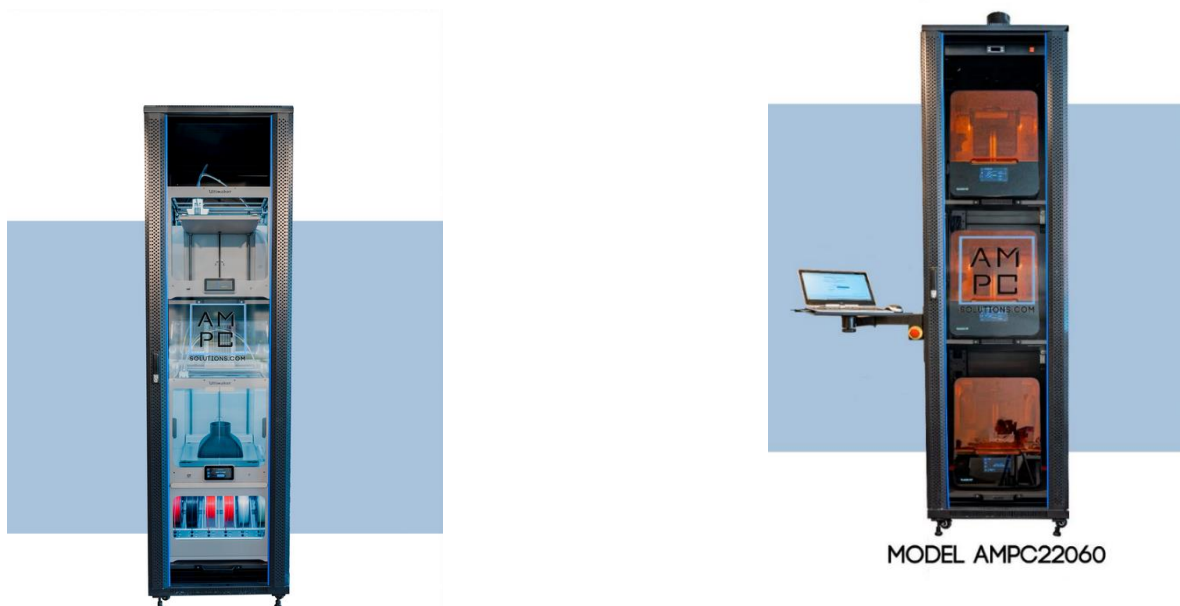
### 1.1 Configuration(s) Examples:

This cabinet can be used for different Additive Manufacturing desktop printers.

The cabinet stand has standard two drawers installed. Here below is an example of a cabinet with two Craftbot Flow XL printers where the cabinet is open and the two drawers are fully opened on the bottom and half opened at the top. The second is where the cabinet is closed.



An example with two Ultimaker S5s with one Material Station shown on the left side. It is the same as example 2 on the next page. On the right side there is an example with three Formlabs printers.



As an option a 3rd drawer can also be installed as seen in example 4.



1. 1x 3Devo and Ultimaker S5 incl. material station
2. 2x Ultimaker S5 & 1x material station
3. 2x Ultimaker S5
4. 3x Ultimaker 2 or S3

or other combinations are possible. In next table are the number of printers that can be placed into the cabinet separately per printer type, the orange marked cabinet is the described in this product leaflet:

	Ultimaker 2+	Ultimaker 2+ extended	Ultimaker 3	Ultimaker 3 extended	Ultimaker S3	Ultimaker S5	Ultimaker S5 + Material Station	Craftbot Plus Pro	Craftbot Flow	Craftbot Flow XL	Craftbot Flow Idex	Craftbot Flow Idex XL	Formlabs Form 3	Formlabs Wash	Formlabs Cure	BCN3D sigma d25
AMPC_16080_2D	4	2	4	2	2	1	1	2	2	1	1	1	2	4	4	1
AMPC_18080_2D	4	4	4	4	2	2	1	2	2	2	2	1	2	4	4	2
AMPC_10060_1D	1	1	1	1	1	1	x	1	1	1	x	x	1	1	1	x
AMPC_20060_DUAL_1D	2	2	2	2	2	2	x	2	2	2	x	x	2	2	2	x
AMPC_22060_2D	2	2	2	2	2	2	1	2	2	2	x	x	2	2	2	x
AMPC_22060_3D	3	3	3	3	3	x	x	3	3	2	x	x	3	3	3	x

For the blue marked numbers one drawer needs to be removed.

For the x there is no option to place into the cabinet

## 2 Options

### 2.1 Filtering the air within the cabinets

Workplace health and safety are all about sensibly managing risks to protect your workforce and your business. Good health and safety management is characterised by strong leadership involving your managers, workers, suppliers, contractors and customers. In a global context, health and safety are also an essential part of the movement towards sustainable development.

#### 2.1.1 Connection to Central Air Management system

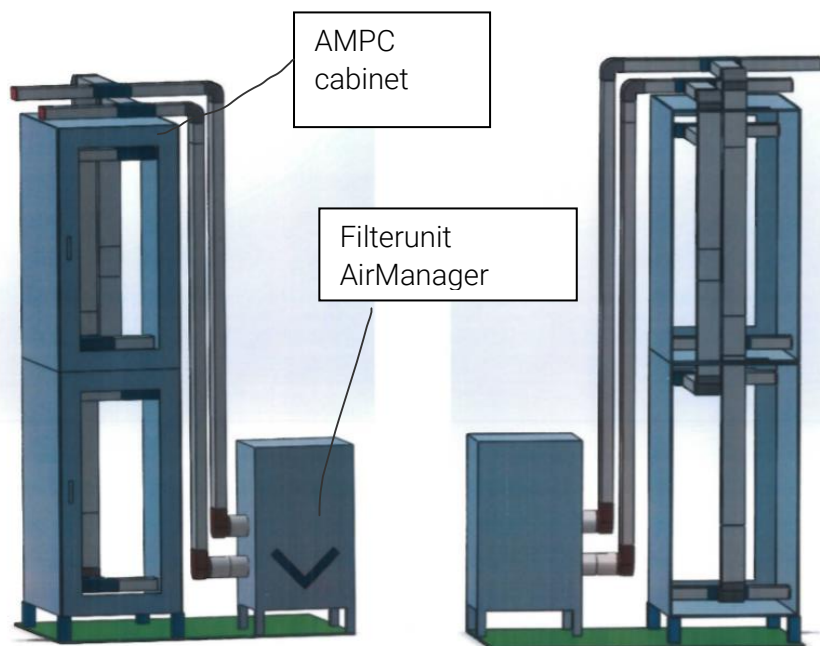
Air is filtered by a central air management system. A 100 mm diameter connector on top of the cabinet is used to connect to the central air management system. Usually, the Central Air Management system is already available on site of the production area where the cabinets will be installed. Air filtration from the cabinet is then also managed by the Central Air Management system.



#### 2.1.2 Connection to local external filtering unit

We have several solutions for local filtering unit to filter the air from the cabinets. The size of the filtration unit is depending on the number of cabinets used within the 3DPrintfarm.

There are several sizes, filtering methods and classes available for this solution.





### 2.1.3 Connection to local internal filtering unit

We have several solutions for local internal filtering unit to filter the air from the cabinets. The size of the filtering unit is depending on the size of the cabinets used within the 3DPrintfarm.

The filtering unit consists of:

- Fan unit
- Air filter: All in one
- Temperature controller
- Bracket for filter installation



There are three different options with different air filter sets. The Entry model, The complete All-in-One and PRO filter set for the internal air filter unit.

	Entry	All-in-one	Pro
Washable pre-filter	V	V	V
HEPA filter	V		
Washable activated Carbon filter		V	V
High-quality HEPA Pro filter			V

In next subparagraphs the individual filters are described and shown.

#### 2.1.3.1 Washable pre-filter

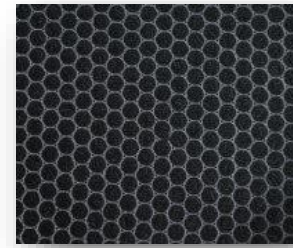
The pre-filter filters the bigger particles, so the other filters will last longer. The filter can be cleaned by washing the filter.





### 2.1.3.2 Carbon filter

The activated carbon filter filters organic particles that will reduce the odours from 3Dprinting. The exhaust air will have a neutral odour.



### 2.1.3.3 HEPA filter

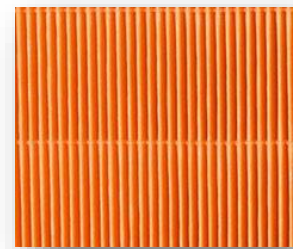
The high-quality True HEPA filter cleans 99.97% of all particles and impurities (as small as 0.3µm) including fine dust.

- Minimum efficiencies at the most penetrating particle size (> 0.1 – < 0.3 µm): > 85%
- Collect efficiency at particle size 0.5 µm (bacteria, particulate matter): > 90%
- Collect efficiency at particle size > 3 µm mold spores, pollen): > 95%



### 2.1.3.4 HEPA Pro Filter

The Pro filter is a complete filter set for the air filter unit Pro. Extra is a antimicrobial treatment on the high-quality True HEPA filter that protects the air purifier against bacteria.

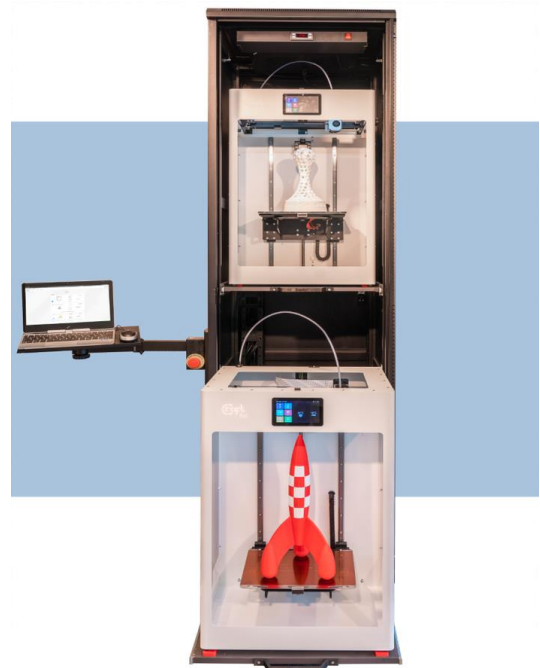


## 2.2 Emergency off button

As a standard, there is an emergency off button available on every drawer. An optional emergency off button can be installed on the outside of the cabinet to shut off all printers within the 3D printfarm. Outside emergency off button is only available in combination with the laptop standard

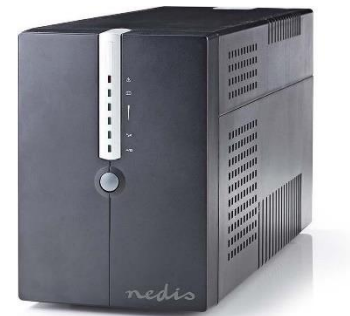
## 2.3 Laptop standard

A laptop standard can be installed on the outside of the cabinet to have a console for placing a laptop for your printer management of your 3D printfarm.



## 2.4 UPS

For dealing with power outages, a UPS can help to continue the printing on your printers until the power supply is up and running. The UPS has a capacity to handle 10 to 20 minutes, depending on the amount of printers and printer type. Up to max 3 printers per cabinet.



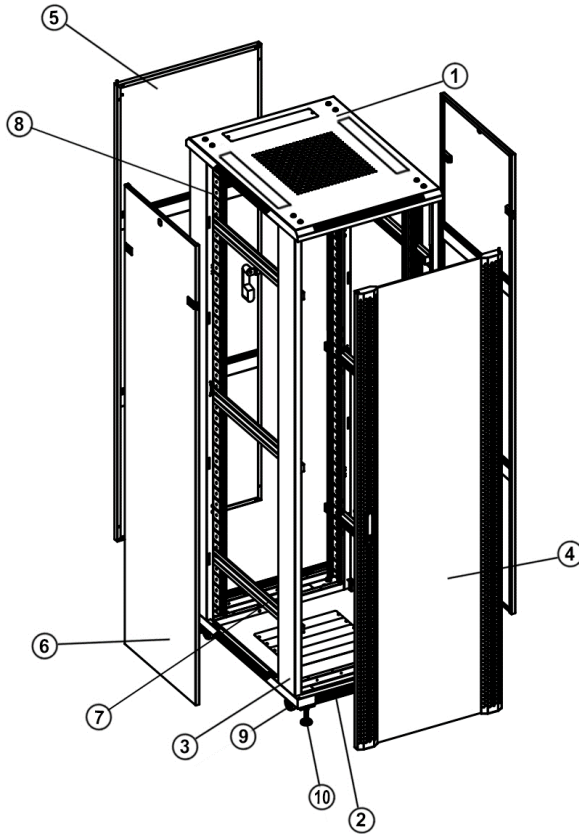
## 2.5 Socket for floor mounting cabinet 600 width

A socket to assemble at the bottom of the cabinet to close of the bottom

Size (WxDxH): 600x800x150mm, Color: Black, Material: Steel  
SPCC

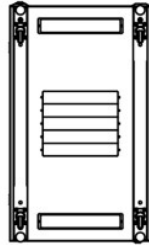


### 3 Specifications

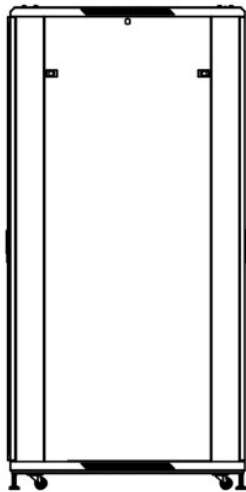


Number	Name	Amount
1	Top plate with cable entry	1
2	Bottom plate	1
3	Doorframes	2
4	Glass door with lock	1
5	Back door with lock	1
6	Removable side walls with lock	2
7	Horizontal crossbars	6
8	Vertical profile rails	4
9	Swivel castors	4
10	Height adjustable feet	4

## 4 Detailed Drawing



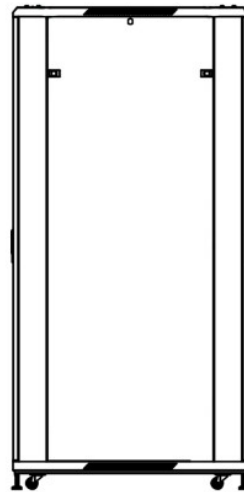
Top view



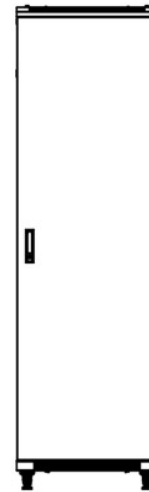
Side view



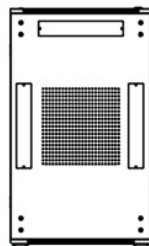
Front view



Side view



Back view



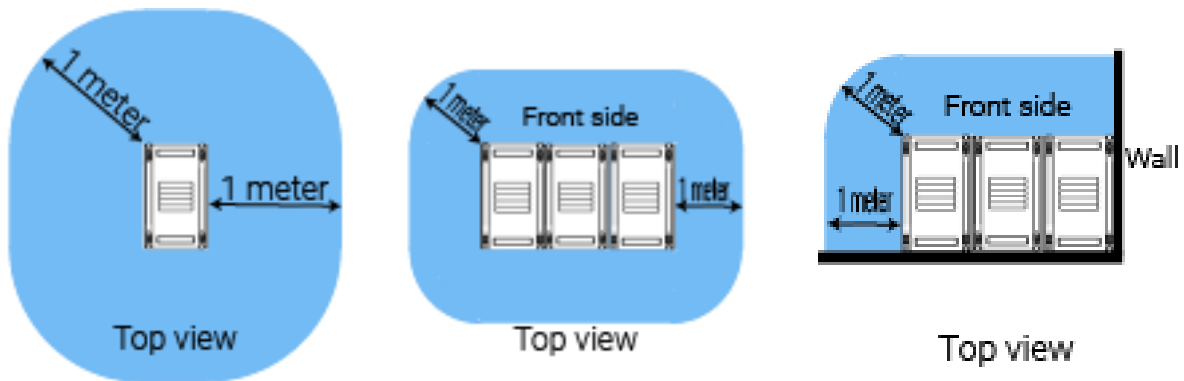
Side view

Model	Dimensions in mm (w x d x h)	Dimensions in mm (w x d x h) Including packaging	Weight in KG
AMPC 22060	600 x 800 x 2200	650 x 850 x 2420	100

## 5 Service Area

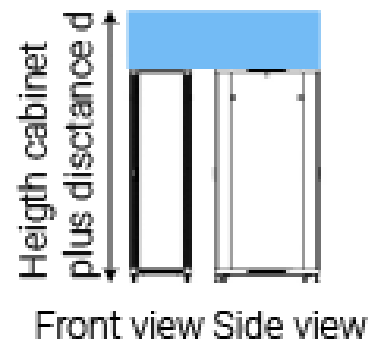
All four sides of the cabinet can be opened to access the cabinet. The front glass door allows operator to make visual check without the necessity to open door and thus changing temperature inside.

It is advised to keep 1 meter of space for every access door you want to open to have access to your printfarm from all sides. If cabinets stand aside of each other the side doors of the cabinets cannot be opened. Same is applicable when a cabinet is placed against the wall. Examples for the service area are shown in the images below.



Above the cabinet some space is advised to keep below the ceiling for installation purposes and in case of a decentral or central Air Management System. The below table shows recommended space values in cm which are to be added to the height of the cabinet to get the full space needed. To determine the minimum height of the ceiling Distance d needs to be added up to the height of the cabinet.

Description	Distance d
No decentral or central Air Management System.	15 cm
Connection to local internal filtering unit	15-30 cm
Connection to decentral Air Management System	20-30 cm
Connection to central Air Management System	20-30 cm



## 6 Ordering numbers

In following table the different ordering numbers can be found.

### 6.1 Cabinet

Description	Ordering number
CABINET 22060 220 x 60 x 80 2drawers	AMPC_22060_2D
CABINET 22060 220 x 60 x 80 3drawers	AMPC_22060_3D

### 6.2 Accessoires

Description	Ordering number
UPS control, up to max 2 printers per cabinet, 2000VA, 1200W	AMPC_OPT_UPSD2000VBK
Socket for floor mounting cabinet 600 width	AMPC_OPT_SOC600
Laptop console stand	AMPC_OPT_CONLAP
Master Emergency off button for whole printfarm solution (to be ordered also: AMPC_OPT_CONLAP)	AMPC_OPT_EOFF
Adapter for AMPC cabinet on top side to existing central airmanagement/filtration system: diameter 100mm	AMPC_OPT_APT100
External industrial filterunit (for max. two cabinets)	AMPC_OPT_BOAD350
External industrial filterunit (for max. four cabinets)	AMPC_OPT_BOAD500Q
External industrial filterunit (for max. five cabinets)	AMPC_OPT_BOAD1000Q
Internal filtering unit with 4 fans, thermostat, 230V: Entry	AMPC_OPT_FAN80TFUE
Internal filtering unit with 4 fans, thermostat, 230V: All-in-one	AMPC_OPT_FAN80TFUA
Internal filtering unit with 4 fans, thermostat, 230V: Pro	AMPC_OPT_FAN80TFUP