
OVER
Airframe
Airframe®

Airframe®

Every breath is vital

In a healthy adult at rest, the mean respiratory rate is 15 breaths per minute, 900 breaths per hour, 21,600 breaths per day.

Equal to 15 kg air per day

About 8 times the average amount of food and water we assume on a daily basis.

Airframe®

Air pollution is a deadly, man-made problem, responsible for the early deaths of some **seven million** people every year, around **600,000** of whom are children. It is estimated that **90%** of the world's population breathe polluted air.

How do you take care about the air you breath?

Airframe®

What are the environments where to address more attention to indoor air quality?

- **School:** children are more vulnerable to polluted air because their airways are smaller and developing. They also breathe faster than adults, inhaling more polluted air.
- **Nursing home:** elder people's deaths associated with exposure to particulate matter are twice; in addition air pollution can exacerbate the cognitive decline in older people and speed up the rate of lung function decline associated with ageing
- **Healthcare sector:** complex environments such as hospitals require special attention to ensure healthful indoor air quality to protect patients and healthcare workers against hospital-acquired infections and occupational diseases.

Airframe®

Change the way you breathe

The **medical-grade air purifier** has been designed to suit healthcare facilities, dental offices, medical clinics, waiting rooms and other places that need the cleanest and safest indoor environments.

Able to monitor

- Temperature
- Humidity
- Carbon dioxide
- VOC Volatile Organic Compound Index
- IAQ Indoor Air Quality Index
- PM 1, 2.5,10

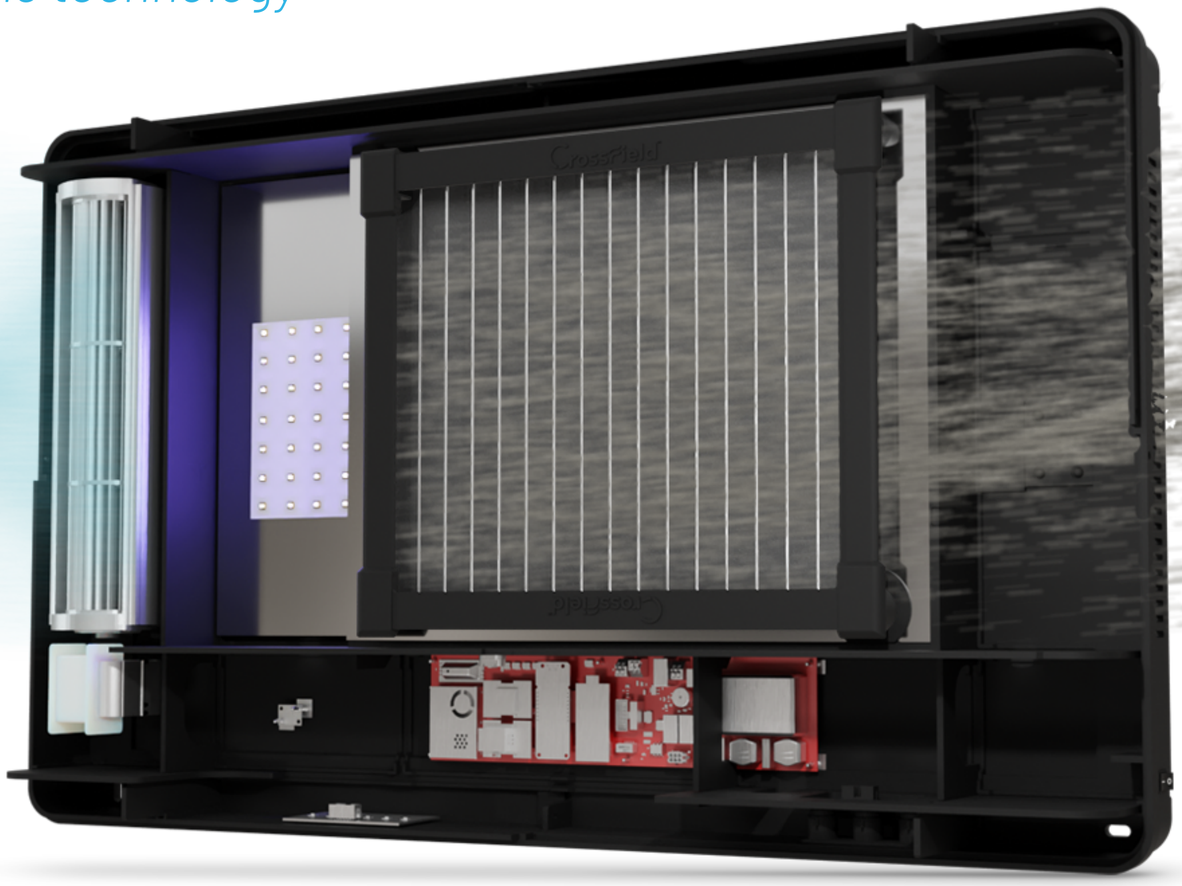
Optional sensors (available on request)

- Carbon monoxide
- Formaldehyde
- Sulphur dioxide
- Nitrogen dioxide
- Ozone

Crossfield®

A glimpse inside the technology

Dirty air



Clean air

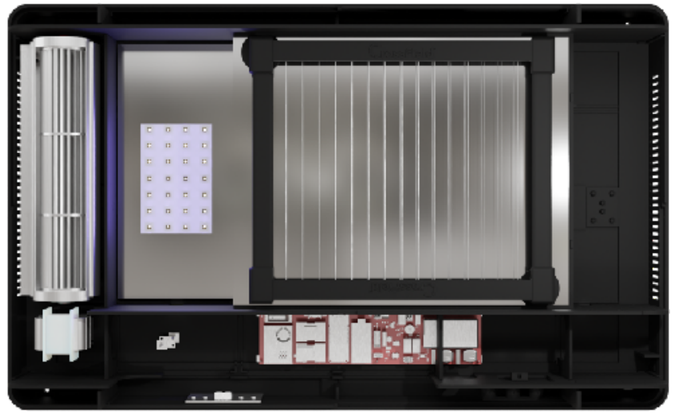
CrossField®

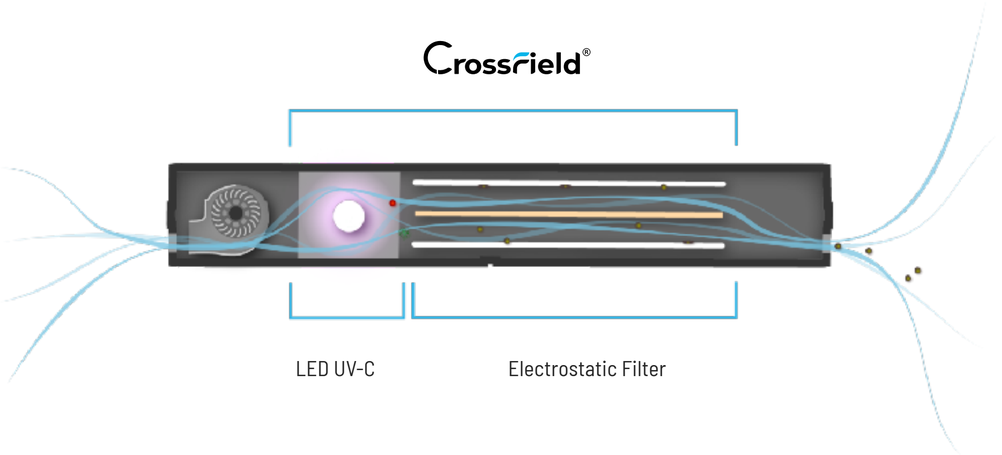
The technology

CrossField® is the sustainable purifier solution with efficacy of 99,9%* per la against pollutant and bio bio-pollutants.

How it works?

The pollutants in the intake air are electrically charged by the electrostatic filter array and then attracted and trapped on the capture plates (zero potential). If microorganisms escape the electrostatic filter, thanks to the damage this has caused on their membranes, UV-C rays quickly inactivate them.





*Test in accredited laboratories

Filter and sterilize by:

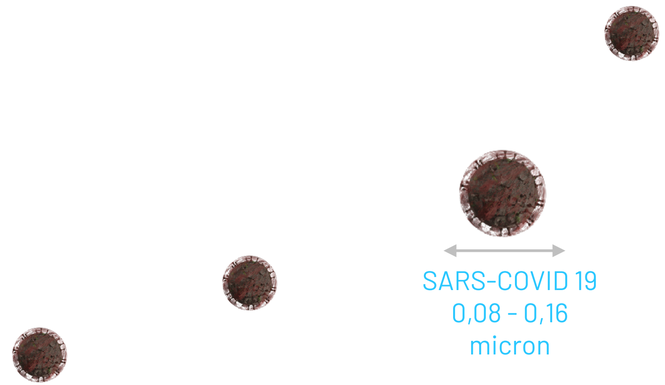
- VOC Volatile Organic Compound Index
- PM_1
- $PM_{2.5}$
- PM_{10}
- Pollens
- Formaldehyde
- Fungi
- Mould and spore
- Allergens
- Virus and bacteria

CrossField®

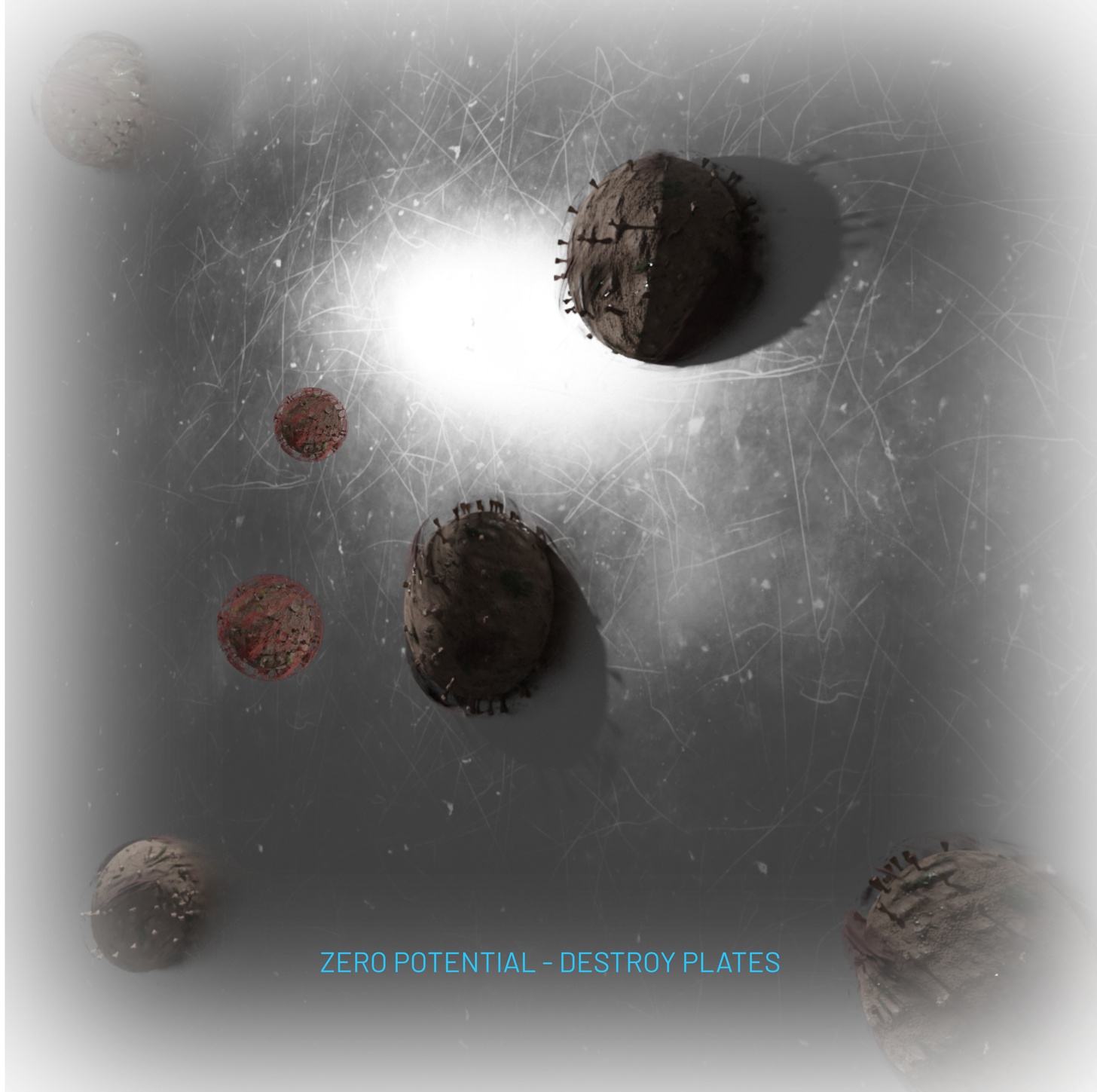
Face a silent killer

The CrossField® technology with a registered and certified patent application, having no mechanical constraints, is able to capture even **ultra-fine particles**, such as PM0.1 and inactivate bacteria, influenza viruses and SARS-COVID19.

The only device that does not filter, but also attracts and destroys the particles that the filters on the market cannot retain.



SARS-COVID 19
0,08 - 0,16
micron



Why choose AirFrame®

SAFE AIR

Inactivation and filtering efficacy up to 99,9%*.

HYGIENIC

No sanitation required.

OZONE FREE

Designed and tested to be ozone free

*Test in accredited laboratories

Pollutant monitoring

Real-time and historical quality data indoor air to identify the level of pollution, allowing for corrective action and ensuring a healthier and safer environment.

App control

It allows you to control and/or program the switch-on times of all the associated devices

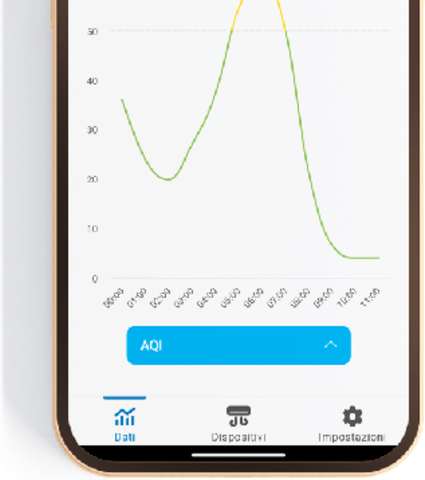
With the AirFrame® app compatible with iPhone/iPad (iOS operating system with version 12.0 or later) and Android (version 5.0 or later), you can manage the device and monitor air quality values.

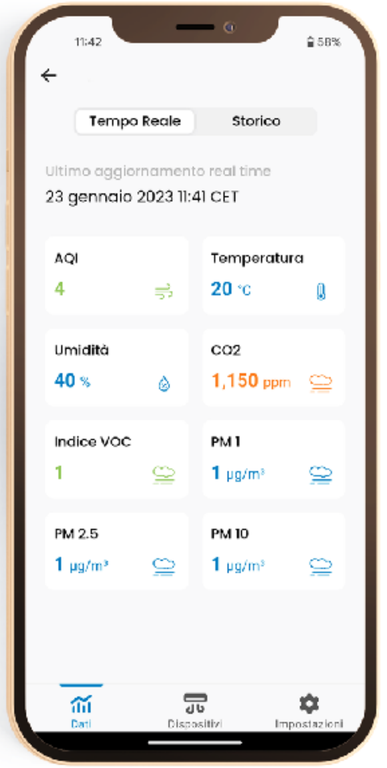
Download on the App Store

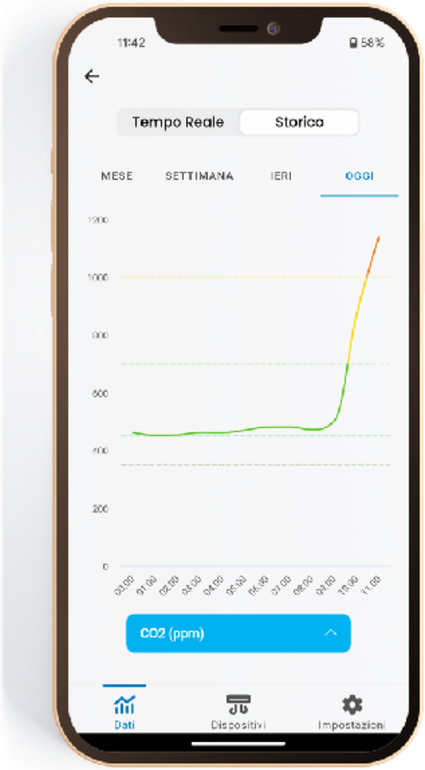
GET IT ON Google Play

Air quality index: CO_2

Healthy	0 - 350
Acceptable	350 - 450
Uncomfortable	450 - 700
Feel sleepy	700 - 1000
Bad for health	1000 - 2500
Unhealthy	2500+



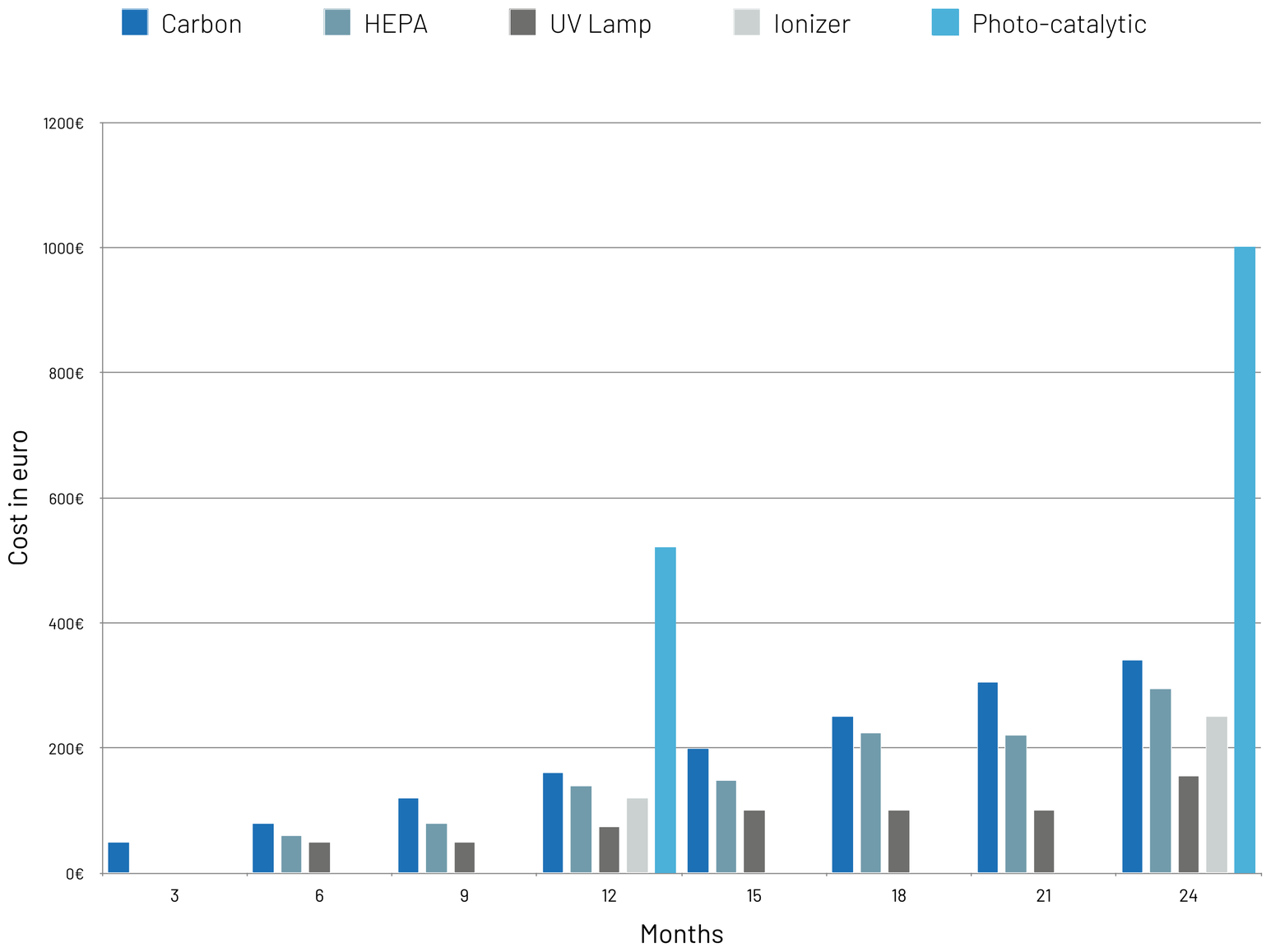




Economic

No filter to replace, so no additional cost for the purchase of parts of replacement, no risk of obsolescence.

The operating cost of air purifiers with combined filtering systems, should be considered the sum of a single technology.



*Costs have been calculated based on the average cost of spare parts and general guidance on operating hours before filter replacement found on the Internet

Ultra compact

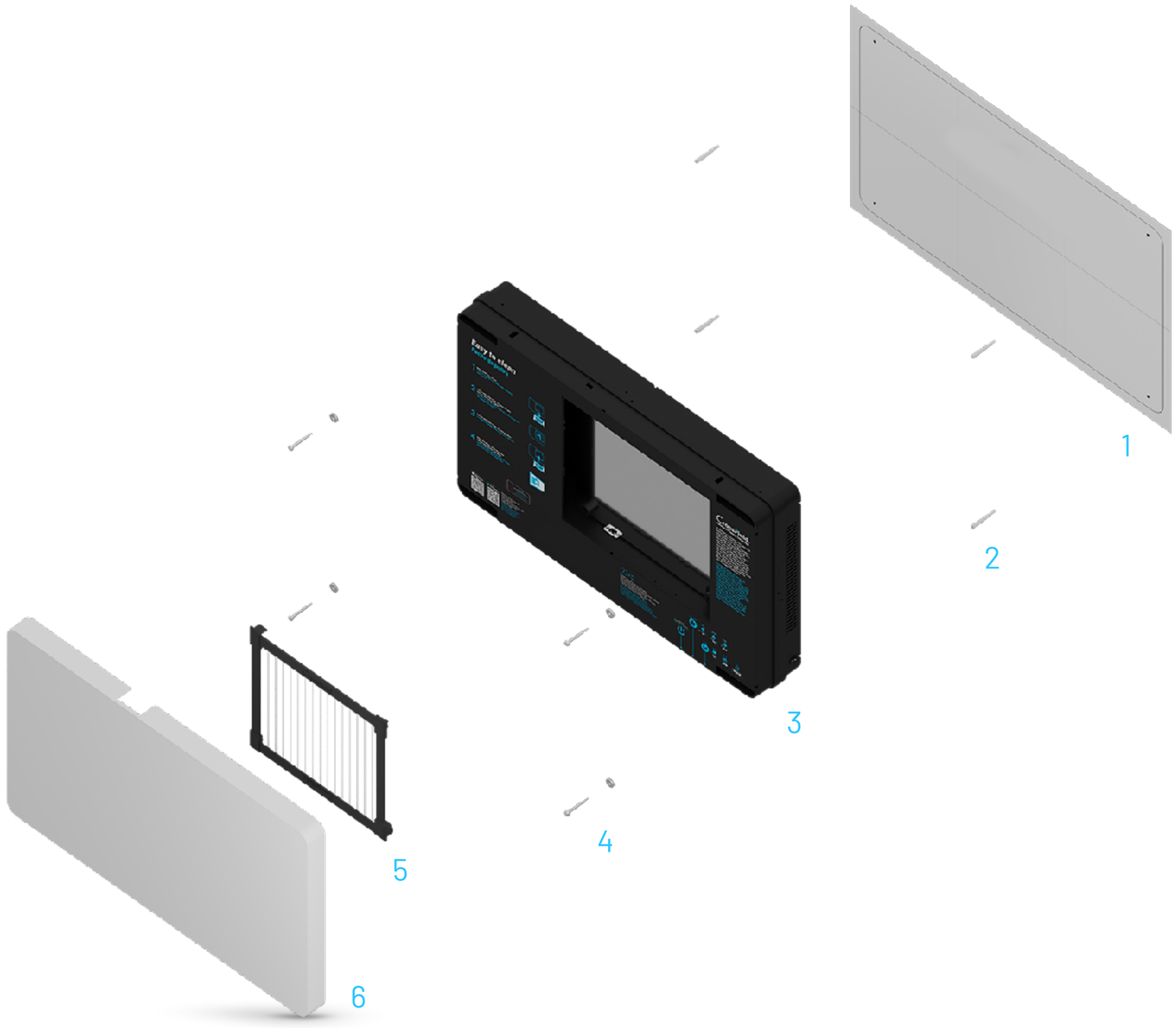
All the efficacy of AirFrame® in only 82x52x12 cm.

Easy installation

Wall fixing and plug-and-play device.
A template will facilitate during mounting operations.

Quiet

Do not disturb daily activities, sound like a puff indistinguishable from background noise.



1. Template for wall installation
2. Dowels (n.8) for wall fixing
3. AirFrame® device
4. Screws and washers (10mm Ø external, 0,5mm Ø internal)
5. ESP (Electrostatic filter electrode array)
6. Base Cover

Safe and easy maintenance

It is sufficient to clean the plates of the device with a damp cloth in complete safety since all the captured agents are weakened and no longer dangerous.

No waste needs to be disposed of.

Remove the Electrostatic filter gently pulling it in your direction

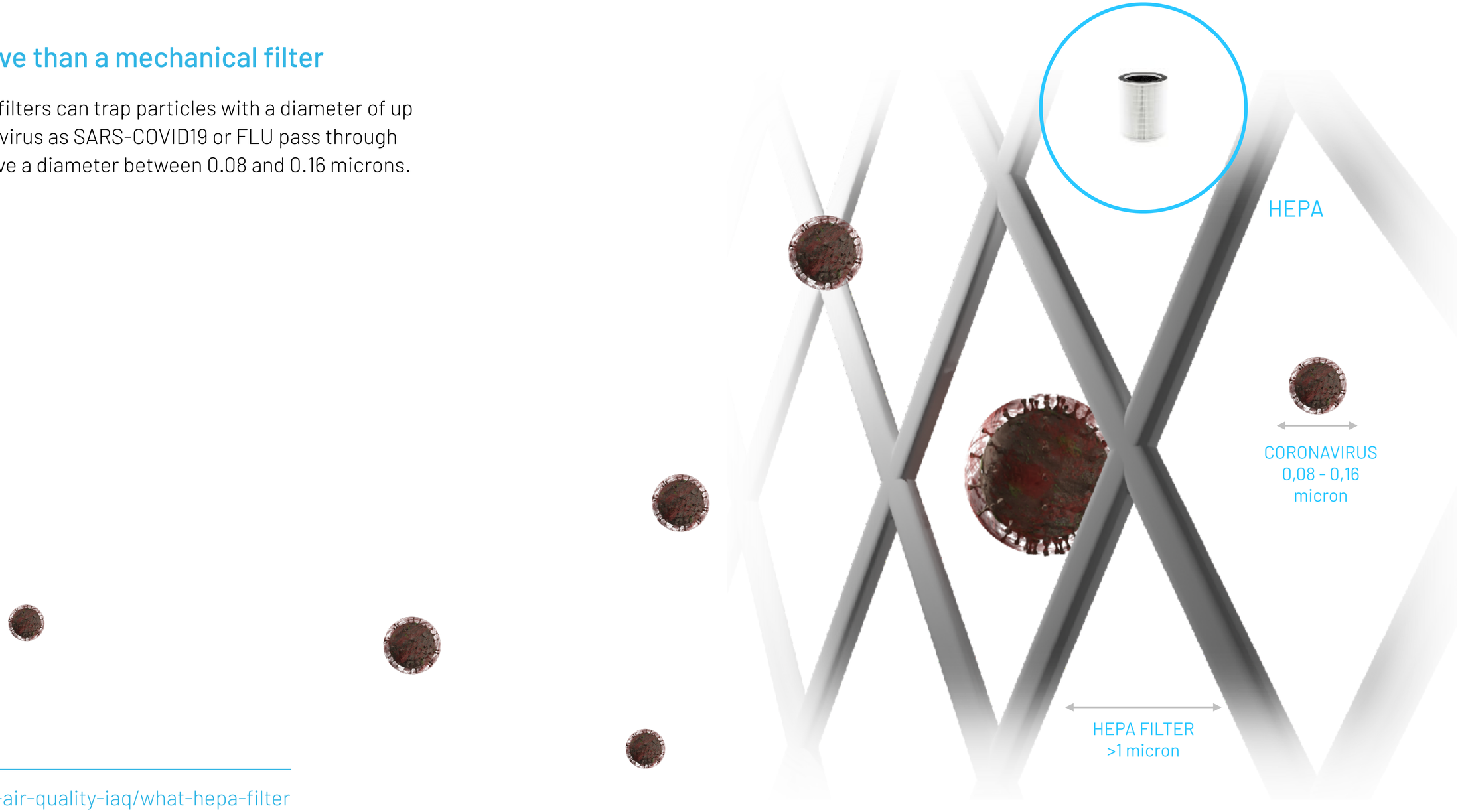
Use the cloth and neutral detergent on the plate

Collocate the Electrostatic filter in the correct position again

Remove the dirty on the cover plate

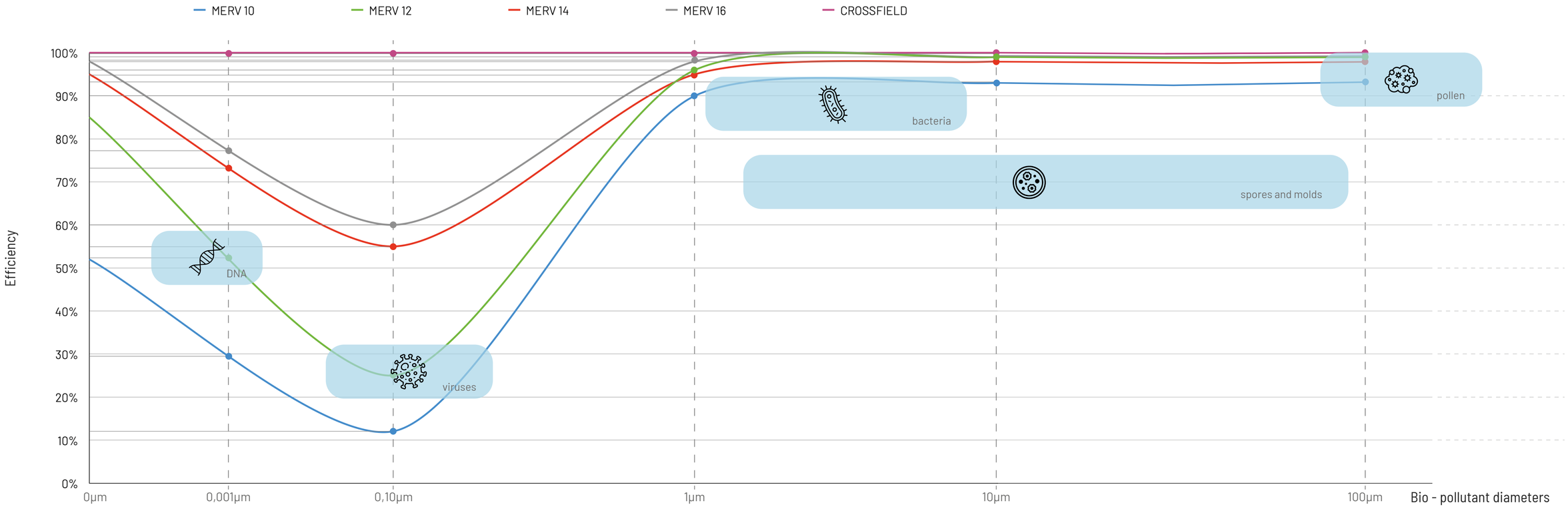
More effective than a mechanical filter

HEPA and ULPA filters can trap particles with a diameter of up to 0.3 microns*: virus as SARS-COVID19 or FLU pass through because they have a diameter between 0.08 and 0.16 microns.



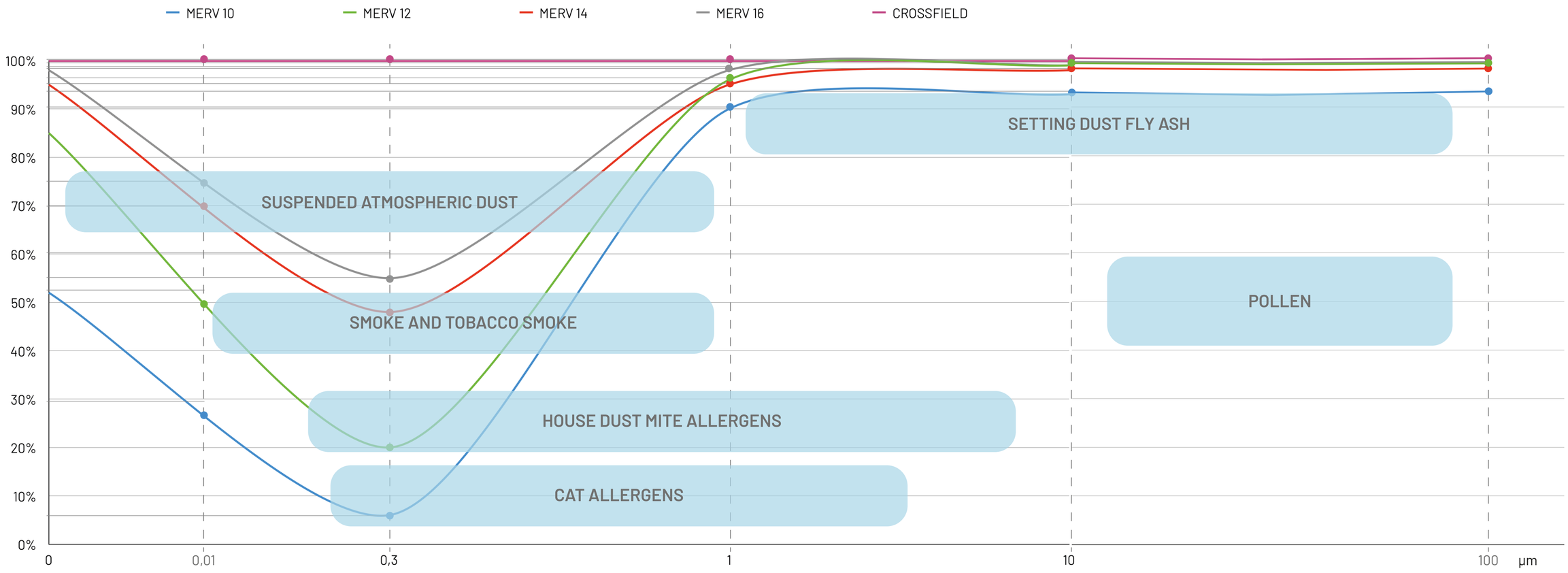
*epa.gov/indoor-air-quality-iaq/what-hepa-filter

Comparison of CrossField® and other filtering system efficacy against bio-pollutants

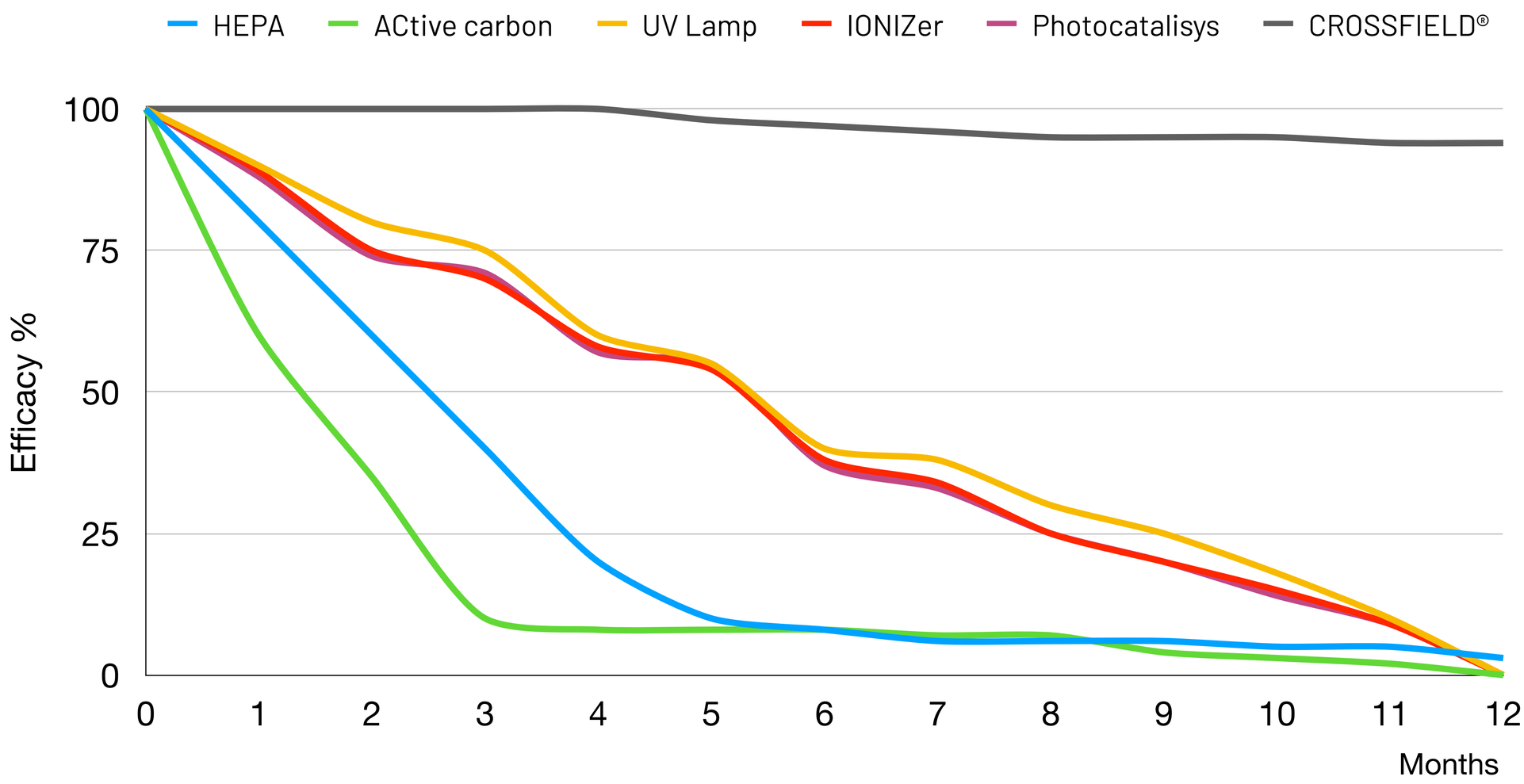


*Filtration of Airborne Microorganisms: Modeling and PredictionW.J. Kowalski, M.S.,
P.E. William P. Bahnfleth, Ph.D., P.E. T. S. Whittam, Ph.D.Student Member ASHRAE Member ASHRAE

Comparison of CrossField® and other filtering system efficacy against pollutants



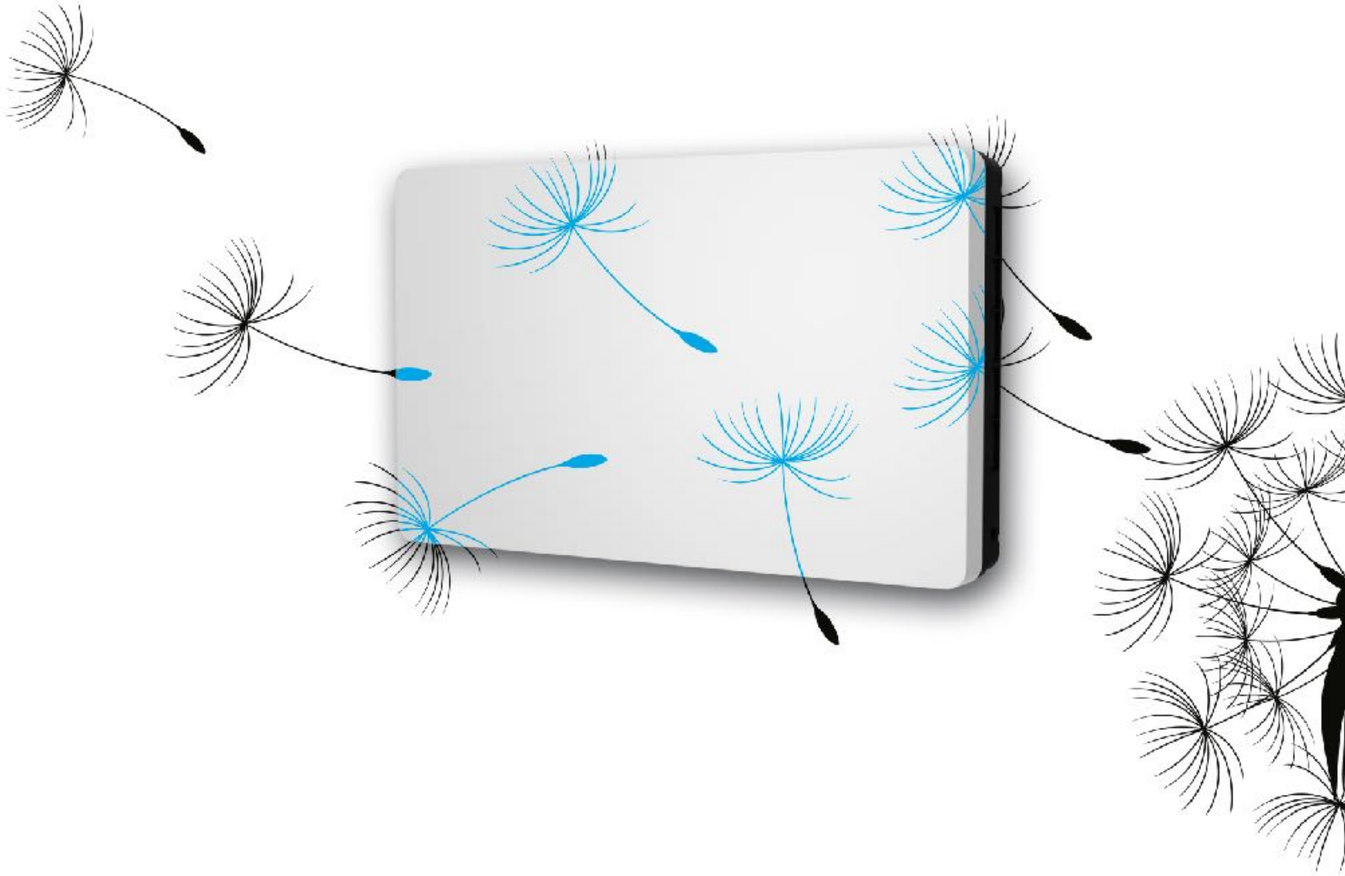
Efficiency does not decrease over time



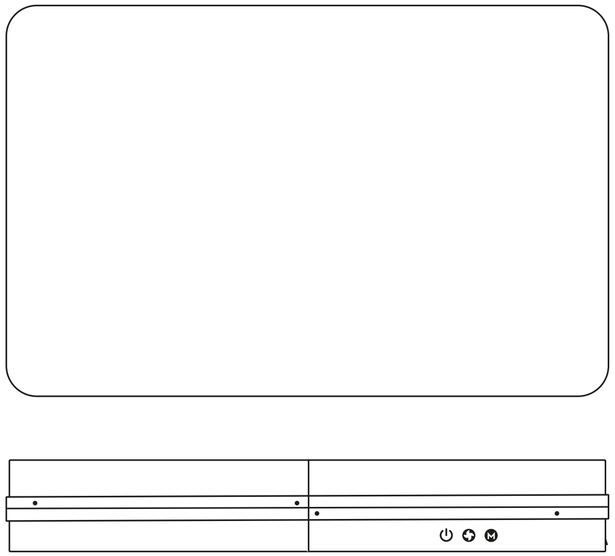
All systems that need to change filters have an efficiency that depends on the life time of the filter itself

AirFrame® matches the ambients

AirFrame® is a wall decoration, you can choose between different covers or ask for a customized version (for example with your logo).



Datasheet



Power Supply	220V/50 Hz
Weight	12,5 Kg
Dimension	82x52x12 cm
Energy consumption	26 W – 57 W (Eco mode speed 1 - Boost mode speed 3)
Measured parameters	$PM_{(1,\ 2.5\ \&\ 10)}$, temperature, humidity, IAQ index, CO_2, VOC index. On request: CO, formaldehyde, O_3, NO_2, SO_2
IP	2X according with IEC 60529 26-57 W
How to connect	Bluetooth — Wi-fi 2.4 GHz
Operating temperature	10-50°C
Noise levels	30 dB – 60 dB
Relay output	Dry contact max. load 250V - 2A
Air Volume treated at max setting (Fan mode):	230m^3/h

AirFrame®

AirFrame® for school

With customized covers, AirFrame® becomes an interactive element in the classroom, like, for example, a blackboard.

Building and Sustainability certification

AirFrame® is a management and monitoring system able to fulfill building and sustainability requirements about indoor air quality.

Increase the building value decreasing environmental impact.

Thanks for the attention!

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