# Operating Manual

Air*frame*®

Take care of your health, breathe clean air

- Crossfield® technology: 99,9% of efficacy against **dust**, **virus**, **bacteria**, **mould** and **fungi**

- **Sustainable**, filterless, zero waste, external case is made of recycled material

- Zero ozone

- Quiet at all speeds

- Smart control and data visualization via app

- Real time air quality monitoring

- Design and produced in italy

Filter-free Air Purifier

AirFrame® draws air through the side nozzle (right to left). CrossField® filtering technology ensures that all particles in the air are captured by the electrostatic precipitator, and what escapes the force of the electrostatic plates is denatured by UV-C light.

DIRTY AIR

CLEAN AIR
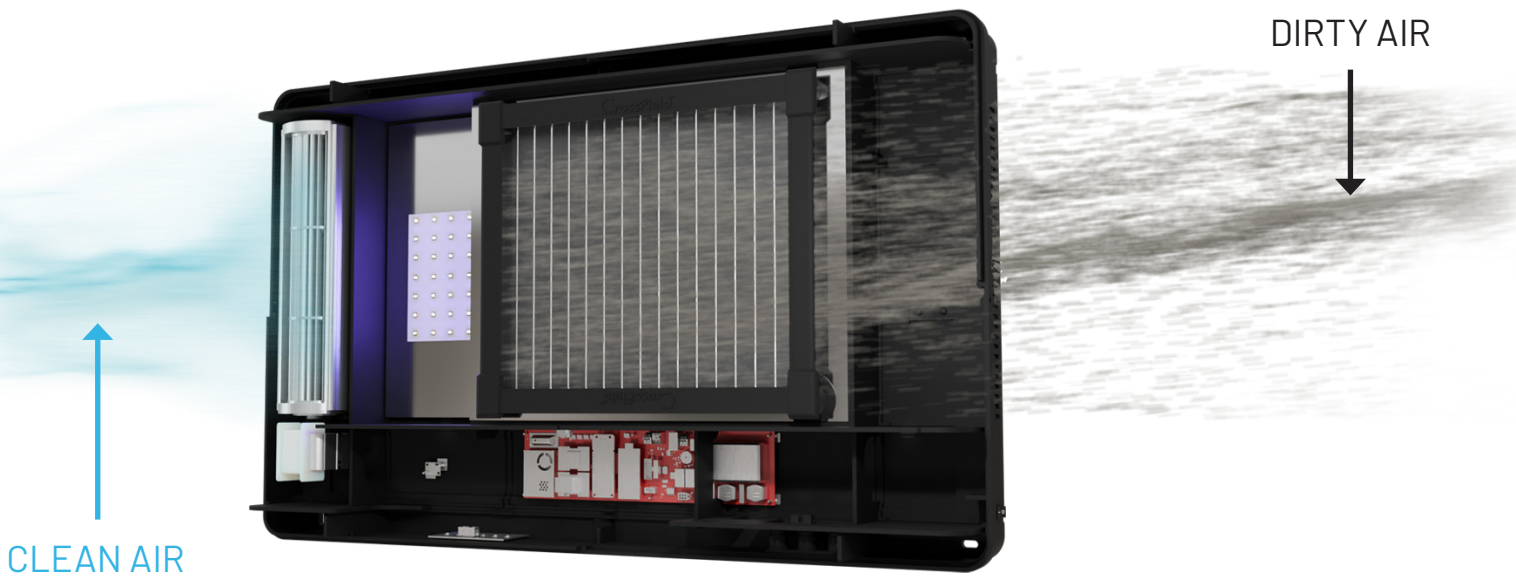
Integrated sensors allow to measure

| Temperature	Humidity	Carbon Dioxid	PM$_{1,2.5,10}$ Particulate Matter	VOC Volatile Organic Compound index	IAQ Indoor Air Quality index

Optional measures

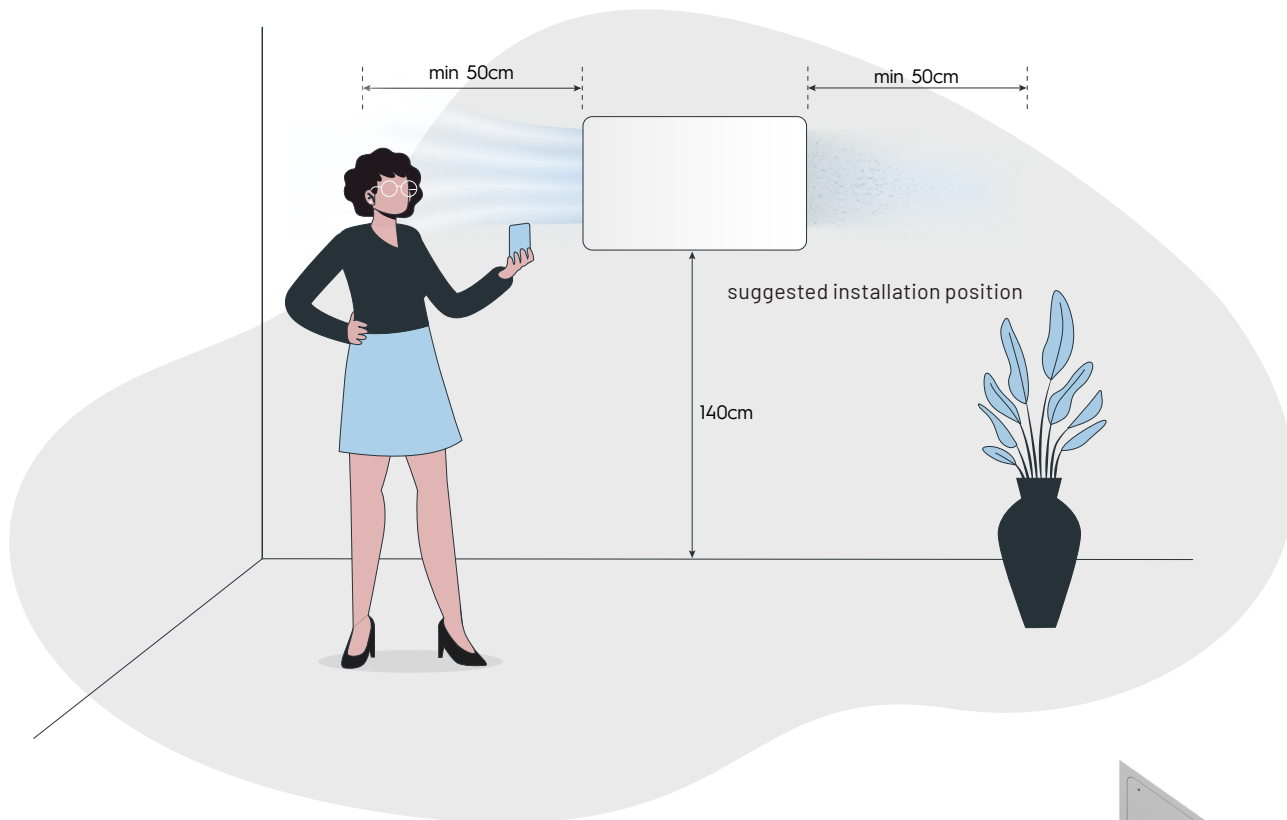| Carbon Monoxide	Formaldehyde	Sulphur Dioxide	Nitrogen Dioxide	Ozone

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How it works?

CrossField® is a sustainable solution (no mechanical filter to substitute and made by recycled plastic) with a 99,9%* of efficacy against pollutant and bio-pollutants.

The dirty air passes primarily in the electrostatic filter that traps pollutants, traps, kills or damages bio pollutant.

The air than pass thought UV-C rays where the sanitation process is completed.

CrossField®

Led UV-C   Electrostatic Filter
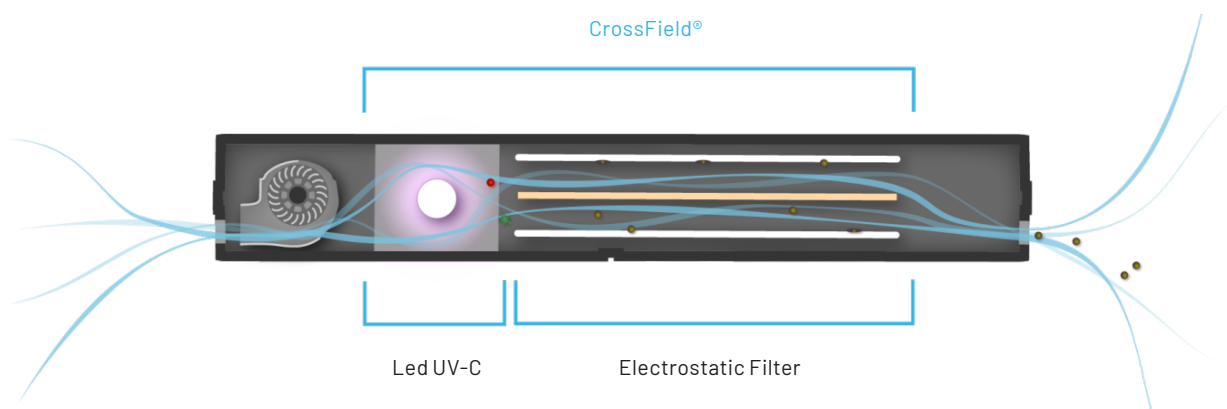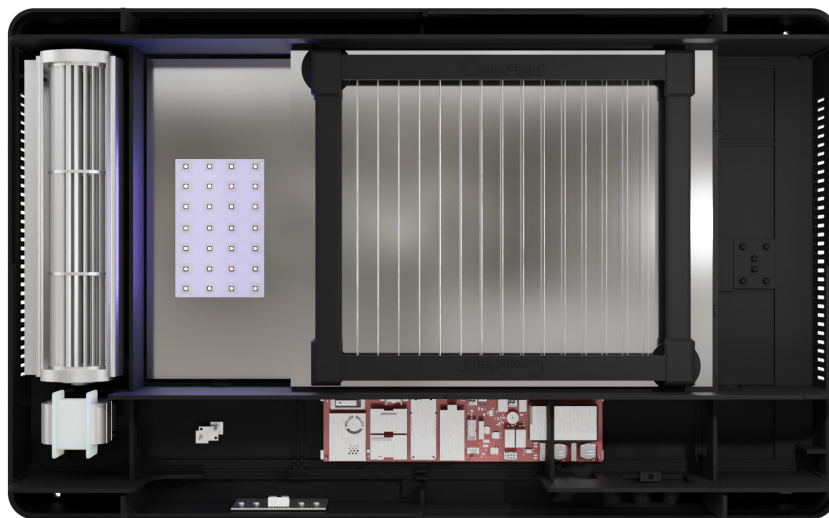
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How to mount your AirFrame®

min 50cm

min 50cm

suggested installation position

140cm

1. Drilling template
2. Dowels (n.8) for wall mounting
3. AirFrame®
4. Screws and washers (10mm outer Ø, 0.5mm inner Ø) for wall mounting
5. ESP (Electrostatic Filter - array of electrods)
6. Base cover
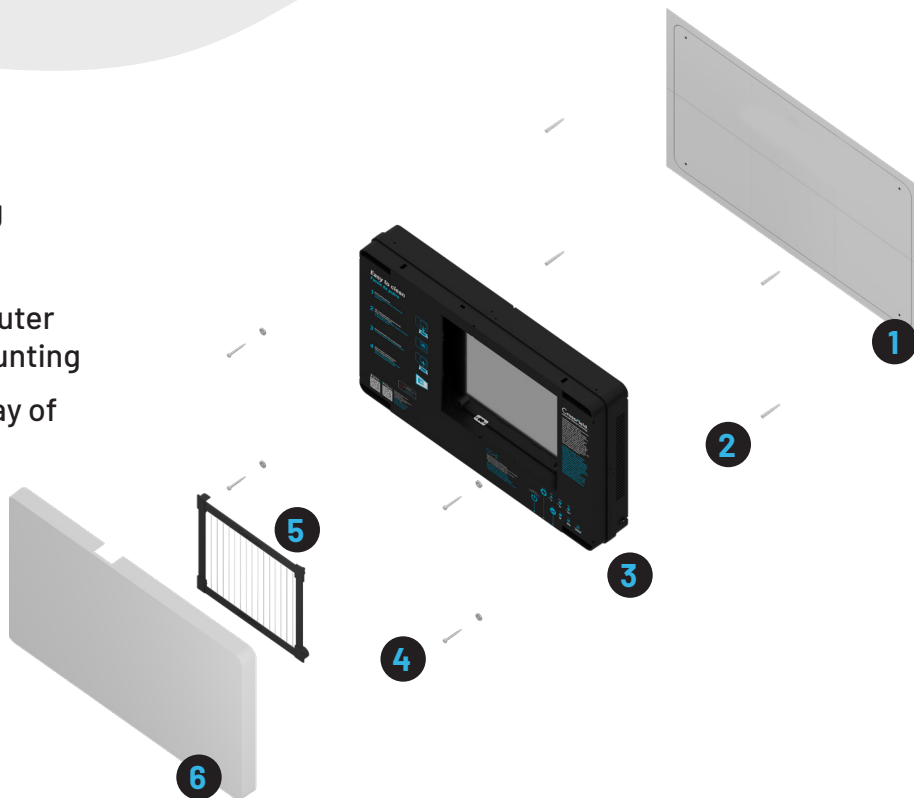
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Maintenance

AirFrame® cleaning should be performed at least every 6 months. it is recommended to use a soft cloth and neutral detergent to avoid damaging the surface treatment.

1. Turn off the device.
2. Remove the cover.
3. Gently pull the grid out.
4. With a soft damp cloth, remove the dirt using a neutral detergent.
5. Put the grid back in the correct position.
6. Clean the plate present inside the cover.
7. Put the cover back.
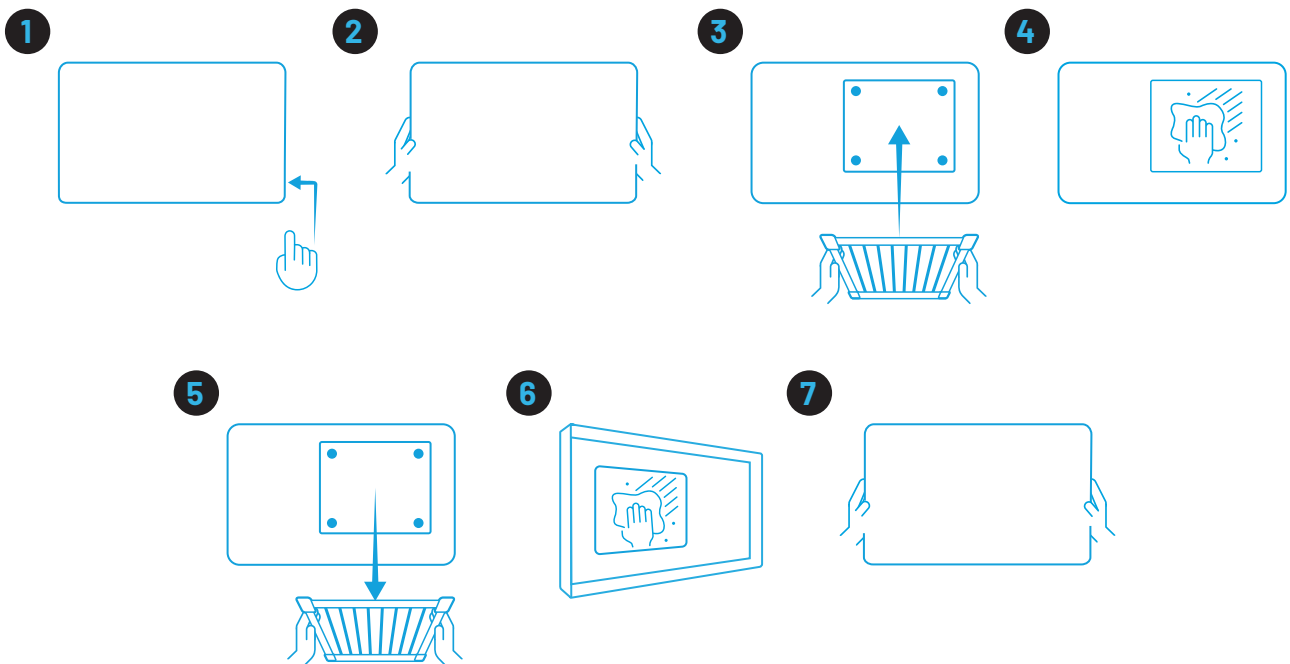
While mechanical filters get clogged and need to be frequently changed, AirFrame® does not change its efficiency and only needs a cloth for cleaning.

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Air frame®

SCHOOL

Effective, quiet and safe, perfect for classrooms

HEALTH CARE

Effective against viruses and bacteria, perfect for taking care of your health

RETAIL

Customizable and wall-mountable, perfect even in crowded places

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Datasheet

Model	AIRF-AFF-S-5-103-001
Dimension	82x52x12cm
Compliance	RoHS, CE and UKCA
Weight	12,5 kg
Energy consumption	26W - 57W (ECO Mode speed 1 - BOOST mode speed 3)
Ingress protection	IP2X according with IEC 60529
Power supply	230V/50Hz
Air volume treated at max speed (Fan mode):	230 m3/h
Mode	Auto, Boost & Eco
Relay output	Dry contact max. load 250V - 2A
Noise level	30 dB — 60 dB
Sterilzer technology	CrossField®
Filtration technology	Electrostatic filter (ESP)
Filtering and sterilization efficacy	99,9% efficiency against dust, virus, bacteria, mold and fungi
Germicidal technology	UV-C wave at 254-275nm
Ozone production	Zero
Measured parameters	PM_1, $PM_{2.5}$, PM_{10}, temperature and relative humidity, CO_2, VOC index, IAQ index. On request: CO, Formaldehyde, O_3, NO_2, SO_2
How to connect	🛜 Wi-Fi: frequency 2,4 GHz, ⍟ Bluetooth
Operating system	iOS and Android
Smartphone control	Mode settings Fan speed control Air Quality detection Graphs of real time time and historical data
Sustainability	Zero waste solution No filter disposal Covers with 100% recycled plastic
Maintenance	Use a soft damp cloth at least every 6 months to remove the pollution
Operating temperature	10-50°C
Installation	Wall installation, plug-and-play
Accessories	Interchangeable external covers (optional)
Recommended single device coverage area	Up to a 80sqm
Warranty	2 years

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Lab Tests

AirFrame® has been tested in the laboratory for compliance with the following standards

IEC 60335 as emended (2020)	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements (EN 61010-1:2010+A1:2019)
IEC 61010-1	Household ans similar electrical appliances safety
EN 55014-1-2:2021	Lectromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard
IEC 61508	Functional Safety (Safety Integration Level - SIL): Products need to be designed to reduce the potential for dangerous malfunction resulting from people, environment and/or process. This standard covers the principles for safety life cycle and probabilistic failure for electrical and electronics systems.
IEC 60335-2-65:2002+AMD1:2008+AMD2:2015 (subclause 32.102)	"Household and similar electrical appliances – Safety – Part 2-65: Particular requirements for air-cleaning appliances"
ISO15714:2019	Method of evaluating the UV dose to airborne microorganisms transiting in-duct ultraviolet germicidal irradiation devices'.
en 62471:2008	Photobiological safety of lamps and lamp systems
EN 60529	Degrees of protection provided by enclosures (IP Code)
UNI EN 11254:2007	Active electrostatic air filters for general ventilation – Definition on filtration efficiency
IEC PAS 63313:2021	Position statement on germicidal UV-C irradiation - UV-C safety guidelines
EN 61000-6-1	Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity standard for residential, commercial and light-industrial environments
IEC 61000-3-2	Electromagnetic compatibility (EMC) – Part 3-2: Limits – Limits for harmonic current emissions

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EU declaration of conformity

Document No.: OVER-CE-000005 Rev: 0 Date: 01.08.2022
This declaration of conformity is issued under the sole responsibility of the manufacturer.

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Object of declaration:

Product Name:
AirFrame

Product Code:
AIRF-AFF-S-5-103-001

The object of the declaration described above is in conformity with the relevant Community harmonisation legislation.

Low Voltage Directive
2014/35/EU

EMC Directive
2014/30/UE

RoHS Directive as amended
2011/65/EU

Ecodesign Directive as amended
2009/125/CE

Radio Equipment Directive (RED)
2014/153/EU

and are in conformity with the following harmonized standards or other normative documents:
EN 50491-5-3:2010, EN 60669-2-1:2021, EN 60669-2-5:2013, EN 61010-1:2010 AC2019+A12019, EN 61326-1:2020, EN 63313:2021, EN 60335-1:2012+A2:2019, EN 60335-2-65:2002+A1:2008 +A2:2015, EN60529:2017, EN62471:2008

Year of CE-marking:
2022

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