

aldes

AIR PURIFIER



Alana™

THE COMPACT AND EFFICIENT AIR PURIFIER WITH
THE LOWEST OPERATING COST ON THE MARKET⁽¹⁾

TECHNICAL AND COMMERCIAL DOCUMENTATION

Things are clear.

Today, we spend over 90 % of our time indoors and the air we breathe is up to 8 times more polluted than outdoor air. This is why it is urgent to join the

AIR REVOLUTION

and strive to combat fine particles, viruses, and all these invisible enemies that affect our health by causing allergies, respiratory problems, or diseases.

With Alana™ air purification solution, Aldes participates in protecting building occupants from virus or bacteria contamination, and breathing in dangerous pollutants on the long term, thanks to its Teqoya Inside™ technology.

⁽¹⁾ Cost vs purifiers using other purification technologies at an identical airflow (no filter to change, and energy consumption of 6.4 W at maximum speed)

IN A CLOSED ENVIRONMENT

WITH STAGNANT AIR, SARS-COV-2

SPEECH DROPLETS

CAN REMAIN IN THE AIR

FOR UP TO 14 MIN AND UP TO 3 HOURS

FOR AEROSOL PARTICLES.*

Alana™

REDUCES SIGNIFICANTLY

THE RISK OF CONTAMINATION

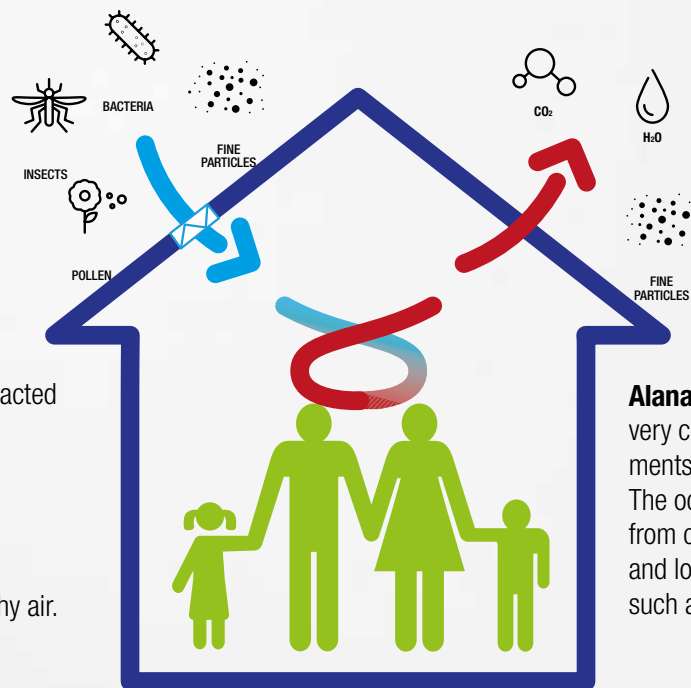
FROM COVID-19.**

* The airborne lifetime of small speech droplets and their potential importance in SARS-CoV-2 transmission; Stadnytskyi, Bax, Bax, Anfinrud, 2020 & Aerosol and Surface Stability of SARS-CoV-2 as Compared with SARS-CoV-1, New England Journal of Medicine, 2020; 882:1564-1567

** Currently being tested dependent laboratory

INDOOR POLLUTION
AND ALDES SOLUTION

Air handling unit
+
Alana™
=
Genuinely purified air



Air handling units renew the extracted indoor air to remove the CO₂, COV, microbes and dust from the room. They are fitted with powerful filters that block pollutants, thereby contributing to clean, healthy air.

Alana™ creates **healthy air bubbles** very close to occupants and thus supplements the action of the Air Handling Unit. The occupants are even more protected from contamination by a virus or bacteria and long-term inhalation of pollutants such as fine particles.



Indoor air is up to 8 times more polluted than outdoor air



96% of European city-dwellers are exposed to concentrations of fine particles above the health limit set by the WHO

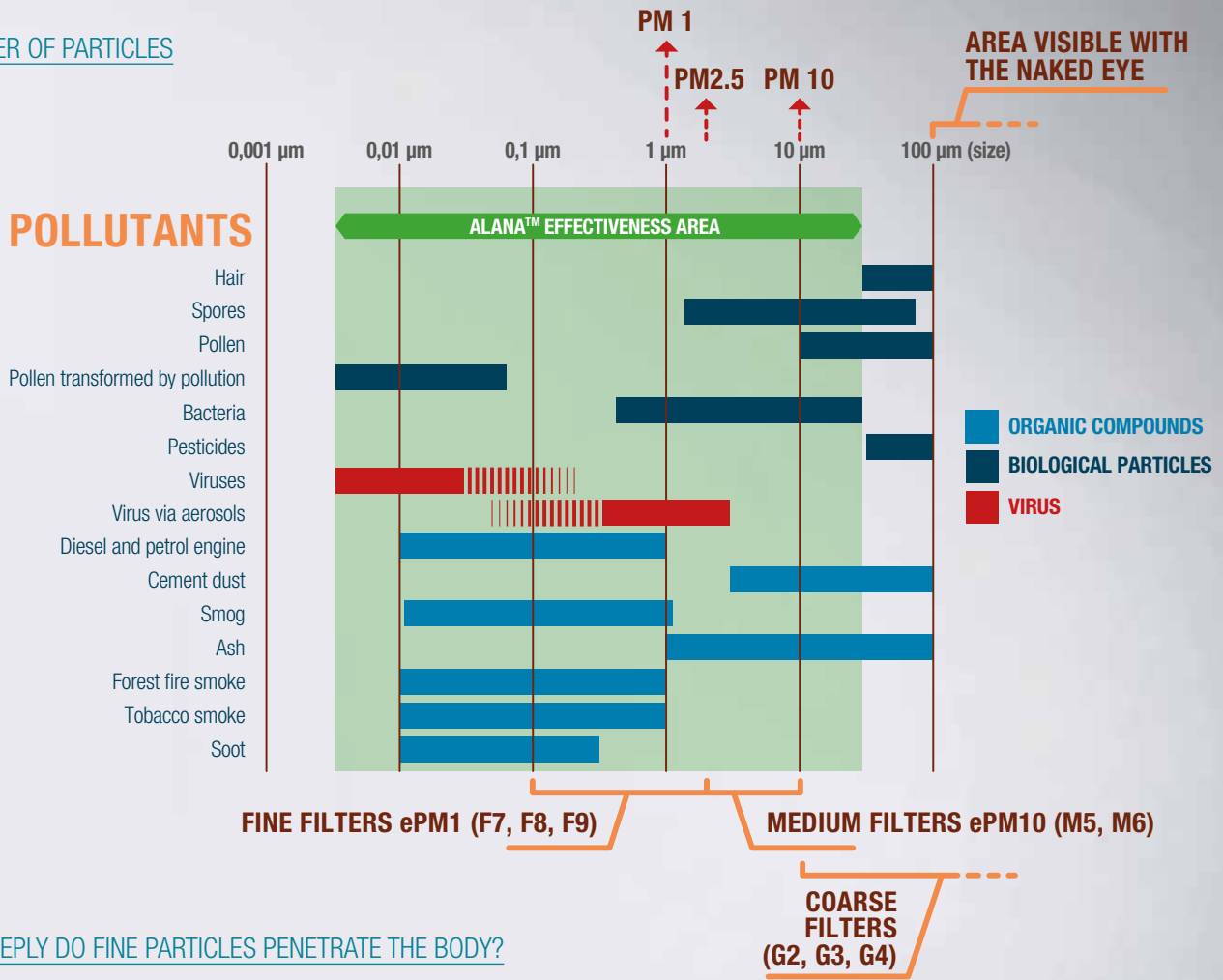


25% of the population suffer from allergies

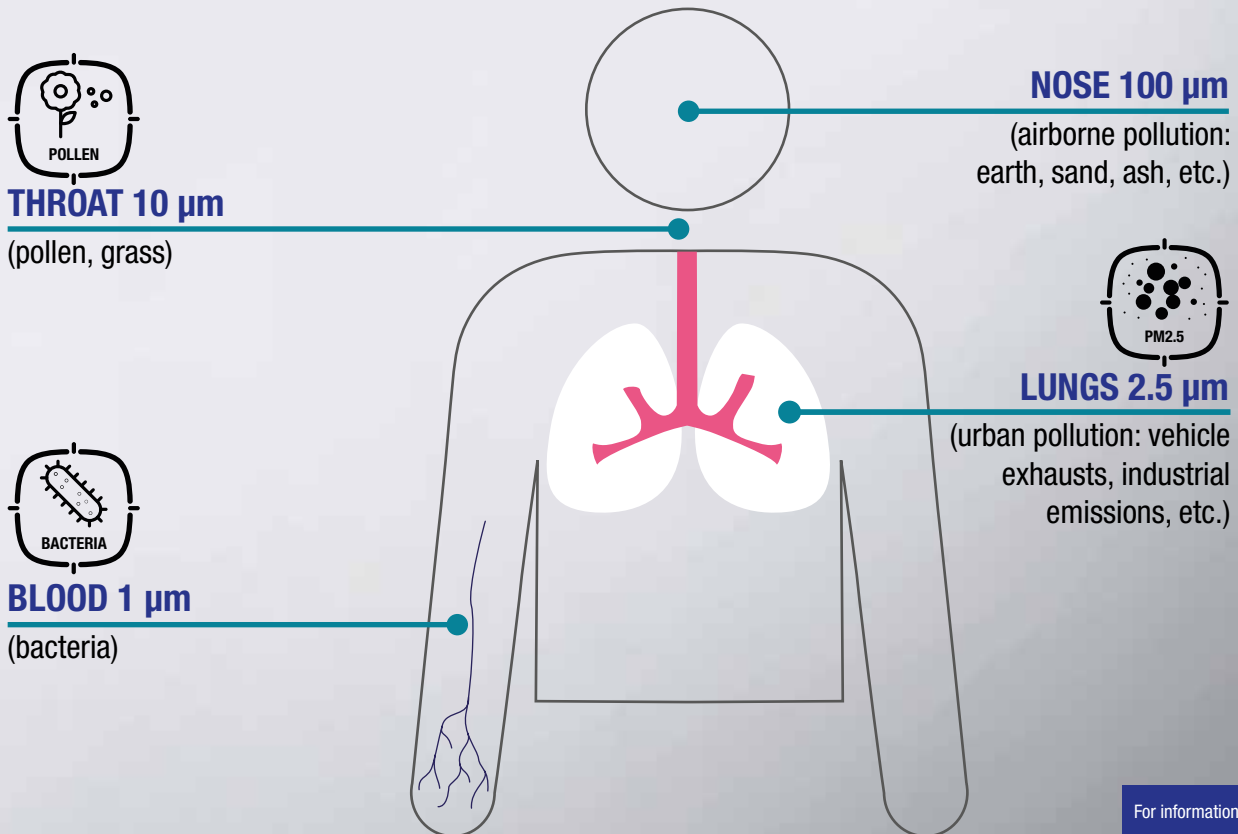


We spend up to 90% of our time indoors

DIAMETER OF PARTICLES



HOW DEEPLY DO FINE PARTICLES PENETRATE THE BODY?



For information : 1 µm = 0,0001 cm

WHY CHOOSE ALANA™?

Good air quality thanks to its efficiency

Eliminates up to 99% of ultrafine particles (PM1), allergens and germs and reduces significantly the risk of contamination from COVID-19⁽¹⁾

Savings and eco-friendly

No filters to be changed and <€5 annual consumption⁽²⁾

Acoustic comfort

Silent operation at 22⁽³⁾, i.e. very comfortable for a meeting room, an hotel room or individual office as per standard EN 16798.

Fast, safe integration

Very compact, easy to install and use: the wall version fixes easily to the wall, leaving all the space free for the occupants and preventing theft and damage. The free-standing version can be stood on any item of furniture.

100% French manufacture and robust

With reliable electronics and fully withstanding short circuits, Alana™ has a five-year warranty. It is designed and manufactured in France.



**PATENT
REGISTERED**

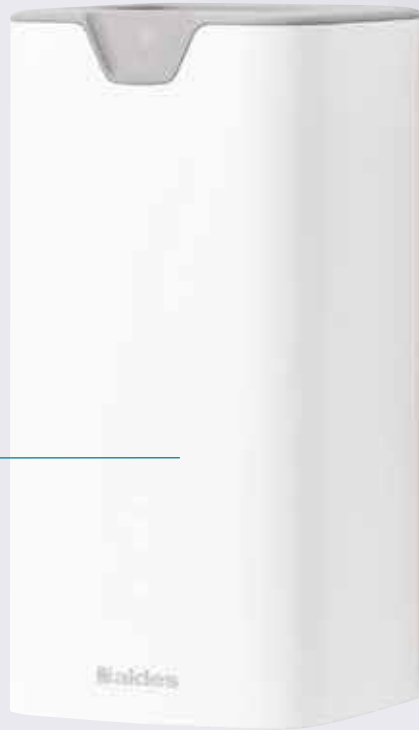


**5 YEARS
WARRANTY**

⁽¹⁾ Tested in an independent laboratory.

⁽²⁾ Cost VS air purifiers fitted with other purification technologies for an identical airflow (no filter to be changed and 6.4 W consumption at max. speed, electricity cost of €0.15 per KWh, can be used a maximum speed for 10 hours/day, 250 days/year).

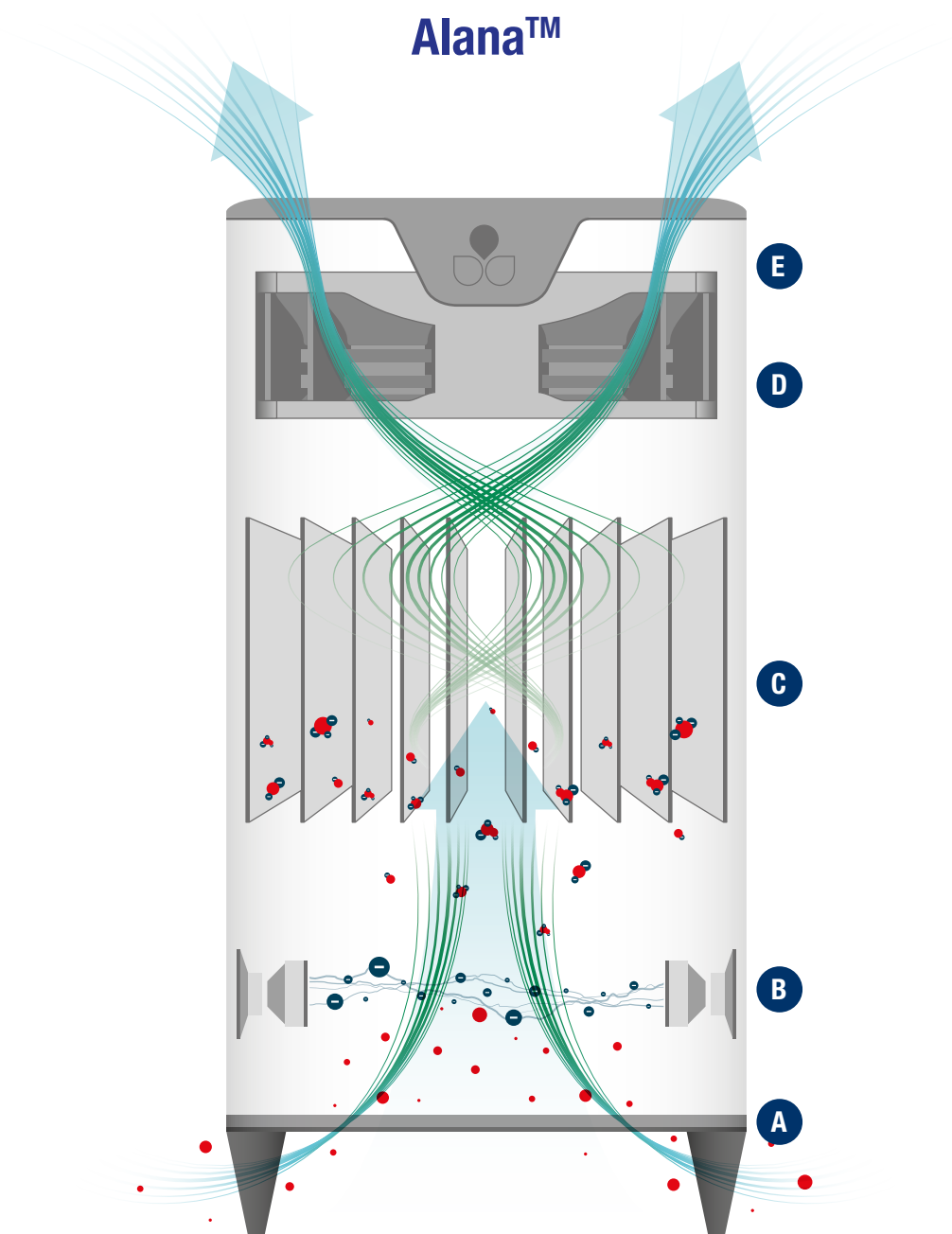
⁽³⁾ Acoustic pressure level at 2 m at minimum speed, in a room of 24m² with a directivity of 2 and a Sabine rate of 0.15 (average room).



MADE IN
FRANCE



OPERATING PRINCIPLE



- A** Removable pre-filter.
- B** Highly-efficient ioniser, emission of ozone-free polarised ions
- C** Highly-efficient, low consumption electrostatic precipitator, biocide and cleanable*
- D** Silent fan
- E** 45 degree deflector for better diffusion

* Patented, discharge-free electrostatic precipitator using printed circuit technology: safety (no sparks), acoustic comfort (no rattling), harmlessness (no ozone).

DESCRIPTION

Alana™ is equipped with Teqoya Inside technology which is efficient and harmless for the health of occupants.

FRENCH EXPERT IN INDOOR AIR QUALITY

Teqoya is a French company that develops eco-friendly solutions to allow everyone to improve their indoor air quality while respecting the environment.

In 2021, Teqoya joined forces with the ALDES Group to offer Alana™, a new Aldes Air Purifier incorporating the innovative electrostatic precipitation technology patented by Teqoya.

Designed and manufactured in France from high-end materials, Alana™ constantly purifies the air without producing mid-level pollutants such as Ozone or nitrogen oxides (NOx)* and without consumables.

Alana™ is eco-friendly: very low consumption, cleanable and designed to last.



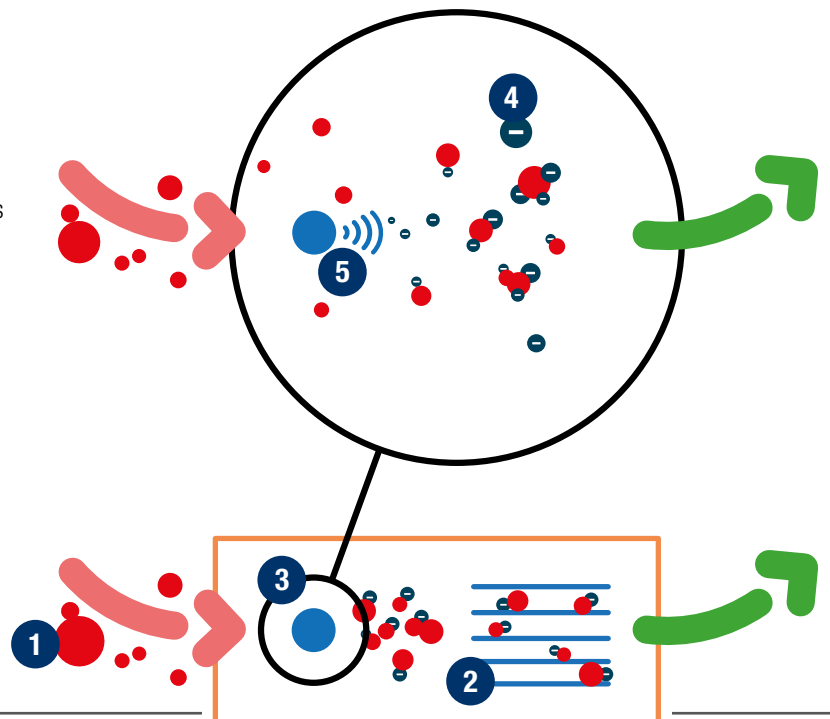
IONISER

- The Teqoya patented ioniser powerfully emits negative ions without creating reactive or toxic by-products such as ozone, nitrogen oxides, etc. The system is totally harmless as no gaseous pollutants are transformed.

ELECTROSTATIC PRECIPITATOR

- The electrostatic precipitator comprises two types of plates arranged in parallel. Some are charged and repel the previously ionised particles, the others, neutral, allow the particles to attach themselves to the latter.

Micro-organisms quickly die off. The special, patented design of Teqoya plates provides a very high capture level whilst avoiding electrostatic discharges.



- 1 Particles
- 2 Electrostatic precipitator comprising two types of plate arranged in parallel
- 3 Ioniser
- 4 Ions
- 5 Controlled ionisation area



SCOPE



- Single-family and multi-family housing
- New and major renovation
- Commercial premises: offices, waiting rooms, classrooms, shops, hotel rooms, retirement homes, etc.

* Emissions measured in a laboratory at less than 5 particles per billion at 5 cm from the equipment outlet.

GENERAL DETAILS

Models	Wall or free-standing version
Material	Aluminium body and beech legs
Purified area	20 m ²
Max airflow	100 m ³ /h
Number of speeds	5: night/25/50/75/100 m ³ /h (boost) + off position
Modes	Manual with 5 speeds or Automatic with switching between speed 2 (50 m ³ /h) and night speed in case of lack of light
Sound pressure level (dB(A)) measured at 2 m	From 22*
Power consumption (W)	≤ 6.4
Dimensions L x H x D (cm)	15 x 30 x 15 (wall version) - 15 x 34 x 15 (free-standing version)
Weight	< 3 kg
Power supply	110-120/220-240 V AC 50/60 Hz
Wall attachment	Yes
ON/OFF and operating speed indicator	Yes
Cleaning indicator	Yes
Accessory included	Brush for cleaning the filter
Certification and standards	CE, NF B44-200, NF EN 16846

* Acoustic pressure level at 2 m at minimum speed, in a room of 24m² with a directivity of 2 and a Sabine rate of 0.15 (average room).

INSTALLATION GUIDELINES

The wall version is installed with just one bracket (supplied) to be fixed to the wall. Power is connected via a traditional 230 V socket.

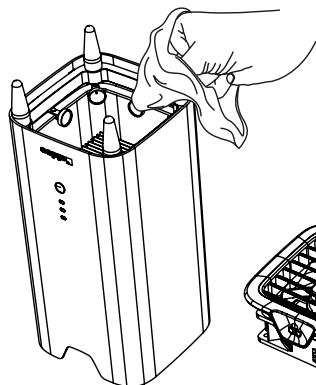
WALL-MOUNTED ALANA™



FREE-STANDING ALANA™



LIFETIME - MAINTENANCE



IMPORTANT: Filter can be cleaned dry once a year with the brush provided. A light shows up on the equipment to advise that the filter needs cleaning.







For more information on the **Alana™**,
visit aldes.com
or find us at:



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