



**RHINOCOMFORT**  
SINGLE ROOM HEAT RECOVERY UNIT **AIR SANITISATION**



**SANITISES AIR**  
**PREVENTS MOULD**  
**SAVES ENERGY**

# RHINOCOMFORT

## Do you usually open the windows to let fresh air in your house? You couldn't be more wrong

Perhaps you were unaware of this, but the air of your house is already polluted, as a result of the various domestic activities. By opening windows to let in fresh air you are only adding external pollutants which, combined with the air already inside, get trapped, creating a noxious atmosphere that is harmful to your health, inside your own house. RHINOCOMFORT is the first heat recovery fan that sanitises and changes the air that comes in from outside, breaking down the harmful substances present in incoming air, making them harmless. RHINOCOMFORT guarantees a healthy microclimate in any area, at home or in the office, as it drastically reduces bacteria, breaks down pollutants and prevents the formation of mould.

### UNIQUE INNOVATION

Thanks to the photocatalysis process, RHINOCOMFORT breaks down the noxious substances present in incoming air, making them harmless.

### SANITISES AIR

RHINOCOMFORT introduces sanitized air, guaranteeing a clean atmosphere in your house, your office or any other space where you need a healthy microclimate.

### PREVENTS MOULD AND MOISTURE

RHINOCOMFORT constantly moves air between the inside and outdoors. This way, it prevents moisture from forming and mould from appearing on walls, eliminating the symptoms caused by unclean air, such as headaches and eye and throat irritation.

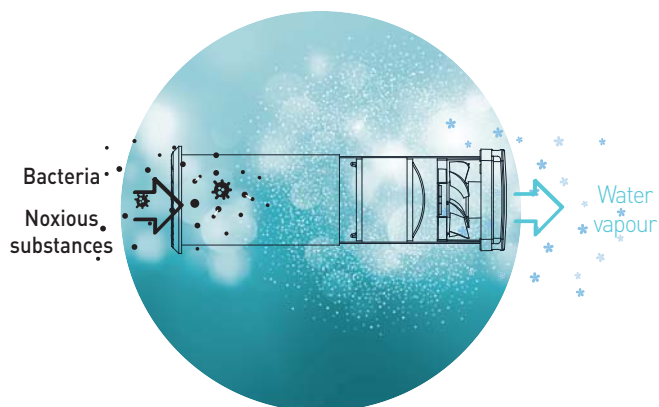
### RECOVERS HEAT

Thanks to the alternated air flow and the ceramic heat exchanger, RHINOCOMFORT recovers up to 90% of the heat in the extracted air and introduces it in the incoming air when the unit reverses the ventilation cycle.

# **RHINOCOMFORT**

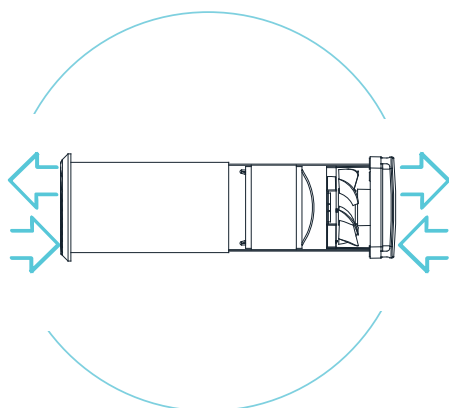
combines the advantages  
of mechanical ventilation  
with heat recovery  
for air sanitisation





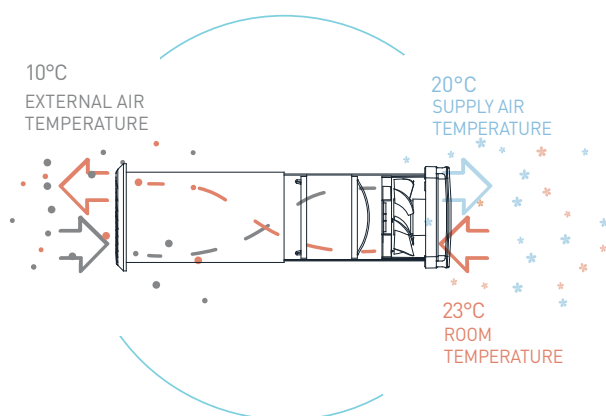
## PHOTOCATALYSIS

Thanks to a catalyst illuminated by an LED light source, RHINOCOMFORT breaks down the pollutants present in incoming air, making them harmless.



## RECIRCULATION OF AIR WITH ALTERNATED AIR FLOW

RHINOCOMFORT is controlled by a brushless DC motor which reverses the cycle, allowing the continuous exchange of air between the inside and outdoors. The continuous use of the unit helps prevent dampness, the formation of mould on the walls and maintains a constantly low level of pollutants.



## HEAT RECOVERY

In alternated air flow mode, the flow of incoming air and the flow of outgoing air pass through a ceramic heat exchanger which recovers up to 90% of the heat contained in the outgoing air and introduces it in the incoming air when the unit reverses the ventilation cycle.



**>99%**

**BACTERIAL LOAD**



**>50%**

**MOULDS AND YEASTS**



Certified by the "Laboratorio Chimico Emiliani Giovanni"



**>40%**

**VOC**

**Volatile Organic Compounds**



Certified by the "Laboratorio Analisi Sperimentale"

## LABORATORY TESTS

Tests performed by certified qualified Laboratories have confirmed the functionality of RHINOCOMFORT.



## UNIQUE INNOVATION

RHINOCOMFORT is made with components that have been suitably treated with nanotechnology-based products. Pollutants are drastically reduced through the combined action of the recirculation of air with alternated air flow and the sanitisation effect obtained by using the principle of photocatalysis, which breaks down the molecules of pollutants, transforming them into safe water particles.

# The Little Prince

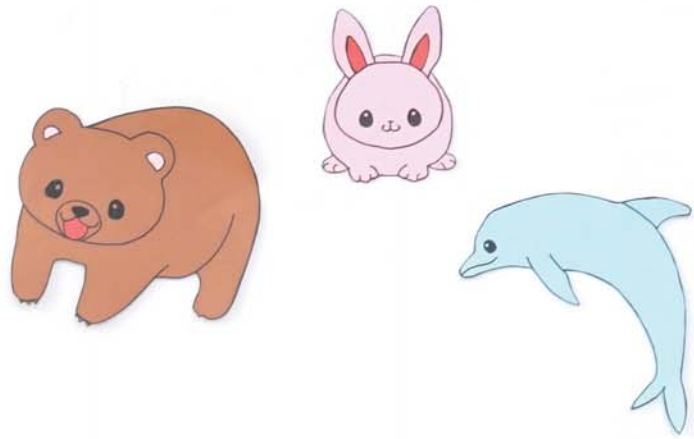
## Nursery



RHINOCOMFORT provides fresh air and breaks down the noxious substances in incoming air, making them harmless.

Children and the elderly are most vulnerable to indoor pollution, both because they are physically more fragile and because they spend more time in closed spaces. According to a report published by the Italian Institute of Health, indoor allergens are responsible for a large portion of allergies in children.

That's why the Little Prince nursery has chosen RHINOCOMFORT. The constant exchange of air prevents the formation of a hot and humid climate that contributes to the prevalence of chronic respiratory diseases. It also breaks down the noxious substances in incoming air, making them harmless.



# Andrea and Marco

Home



## RHINOCOMFORT prevents the formation of mould and dampness, always maintaining levels of harmful pollutants low

Andrea has always been mindful of the quality of air in his home, especially after Marco was born. The use of detergents, candles, the presence of formaldehyde in upholstery, chipboard furniture alter indoor air quality, accumulating noxious substances that can have a negative impact on the health of the whole family. Now they have RHINOCOMFORT and no more reason to worry. RHINOCOMFORT extracts unclean air and blocks bacteria and pollutants outside. Moreover, the exchange of air prevents the formation of mould and dampness, which have been linked to respiratory diseases and asthma, especially in children.



LOUNGE



KITCHEN



BEDROOM



CHILDREN'S ROOM



BATHROOM



# Studio Design

PR agency





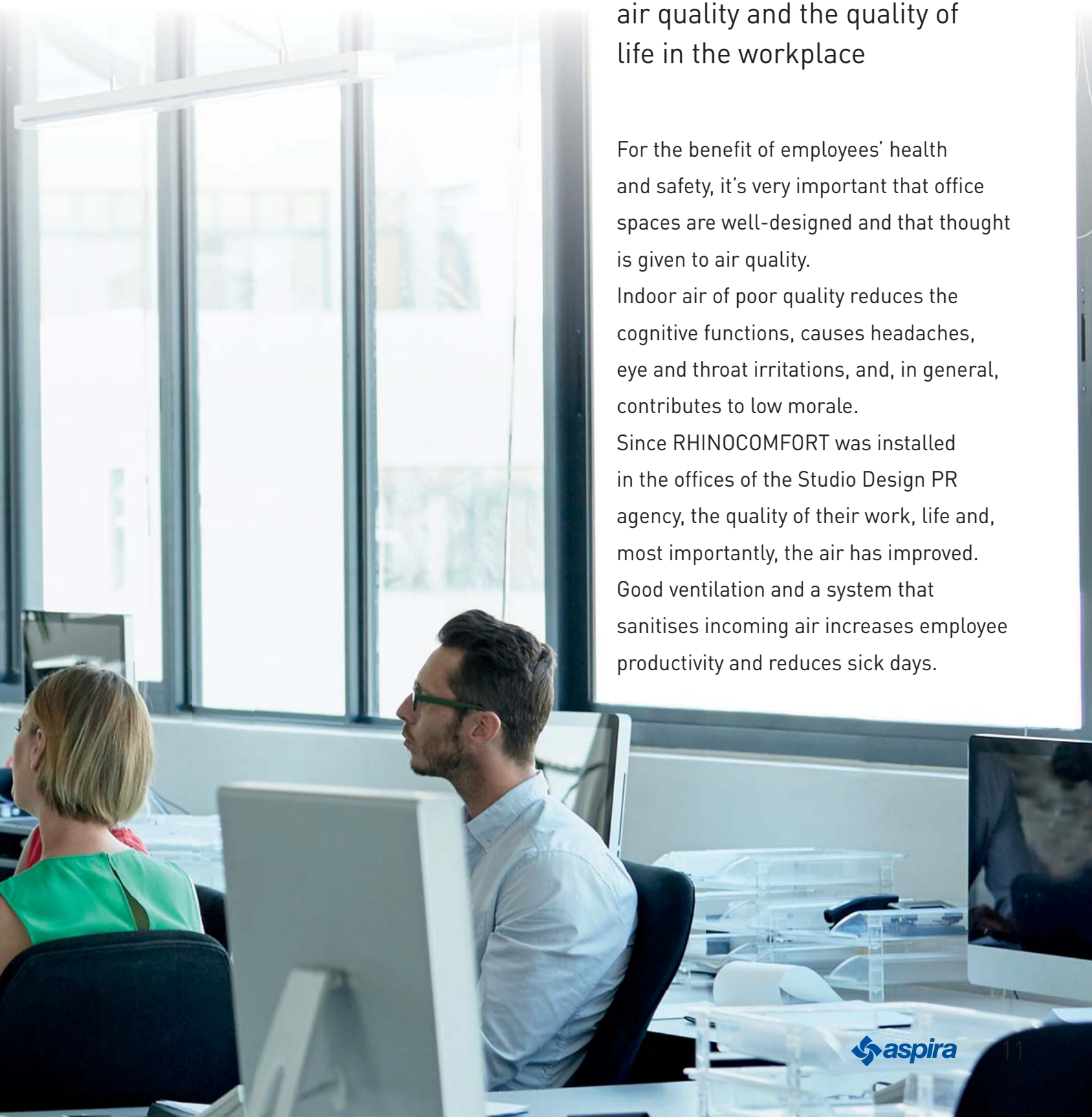
## RHINOCOMFORT improves the air quality and the quality of life in the workplace

For the benefit of employees' health and safety, it's very important that office spaces are well-designed and that thought is given to air quality.

Indoor air of poor quality reduces the cognitive functions, causes headaches, eye and throat irritations, and, in general, contributes to low morale.

Since RHINOCOMFORT was installed in the offices of the Studio Design PR agency, the quality of their work, life and, most importantly, the air has improved.

Good ventilation and a system that sanitises incoming air increases employee productivity and reduces sick days.



# TECHNICAL FEATURES

- RHINOCOMFORT RF is equipped with a wireless remote control that can manage up to 64 units (1 master + 63 slaves);
- Photocatalytic system with zero ozone emissions for the sanitisation of the air coming from outside;
- MANUAL MODE: air intake, air extraction and alternate air intake/extraction;
- AUTOMATIC MODE: the "MASTER" unit automatically regulates the time of the alternate intake/extraction flow, the dehumidification (forced extraction) and speed, according to the room's temperature, humidity and light brightness readings;
- 4 speeds: minimum, medium, high and night fan speed;
- NIGHT speed: in automatic mode, the unit automatically detects the decrease of daylight and reduces fan speed to minimum levels, guaranteeing well-being and silence during the night;
- System off;
- Remote control, with touch keypad and blue LED signalling lamps;
- The remote control has a clear and intuitive layout and allows the user to set and modify the various operating modes, as well as to check current settings from anywhere in the room;
- Filters in cross-linked polyurethane, filtration class G3 in accordance with EN799;
- Flow rectifier for higher performance;
- Transmission and reception frequency: 868 MHz;
- Operating temperature -20°C ÷ 50°C;
- Compliant with Reg. (EU) 1254/2014.



230V

IP40

IPX4

3-year  
warranty

A

Remote  
control

Fan unit

## MASTER

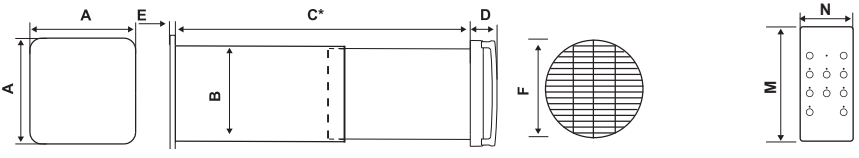
| CODE    | MODEL               | Ø<br>TUBE | MAXIMUM<br>ROOM<br>DIMENSIONS * | speed  | m³/h | W   | dB(A)<br>1.5 m |  |  |  |
|---------|---------------------|-----------|---------------------------------|--------|------|-----|----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| AP19990 | RHINOCOMFORT 160 RF | 160 mm    | 50 sqm                          | low    | 28   | 2.0 | 27             | •                                                                                   | •                                                                                   | •                                                                                   |
|         |                     |           |                                 | medium | 48   | 3.8 | 32             |                                                                                     |                                                                                     |                                                                                     |
|         |                     |           |                                 | high   | 68   | 6.6 | 38             |                                                                                     |                                                                                     |                                                                                     |
|         |                     |           |                                 | sleep  | 15   | n/a | n/a            |                                                                                     |                                                                                     |                                                                                     |

## SLAVE UNIT

|         |                         |        |        |        |    |     |     |   |   |
|---------|-------------------------|--------|--------|--------|----|-----|-----|---|---|
| AP19991 | RHINOCOMFORT SAT 160 RF | 160 mm | 50 sqm | low    | 28 | 2.0 | 27  | • | • |
|         |                         |        |        | medium | 48 | 3.8 | 32  |   |   |
|         |                         |        |        | high   | 68 | 6.6 | 38  |   |   |
|         |                         |        |        | sleep  | 15 | n/a | n/a |   |   |

\* information calculated on: air exchange equal to 0.5 Vol/h and local height 2.70  
Calculation example: room surface x 2.70 metres x 0.5 Vol/h

Dimensions (mm)



| MODEL                   | A   | B   | C   | D  | E  | F   | M   | N  |
|-------------------------|-----|-----|-----|----|----|-----|-----|----|
| RHINOCOMFORT 160 RF     | 180 | 160 | 530 | 47 | 20 | 190 | 125 | 60 |
| RHINOCOMFORT SAT 160 RF | -   | -   | -   | -  | -  | -   | -   | -  |

## ACCESSORIES

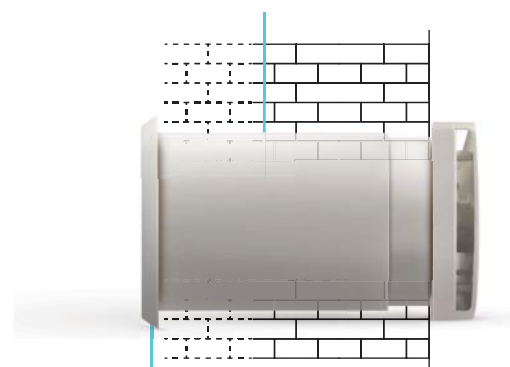
|         |                                   |
|---------|-----------------------------------|
| AP19978 | FR004 spare filter                |
| AP1984  | FR007 spare filter                |
| AP1612  | GAP 150 rain- and windproof grate |
| AP19880 | SLF 150 sound absorbing silencer  |

# EASY INSTALLATION

The RHINOCOMFORT ventilation unit must be installed on the external walls.

Thanks to the telescopic tube in shock-proof PVC, it adapts easily to all wall thicknesses, from a minimum of 24 cm to a maximum of 58 cm. In addition, it is extremely easy and quick to install, also thanks to the external expansion grate, which may be fitted from inside.

TELESCOPIC TUBE FOR QUICK INSTALLATION  
MINIMUM LENGTH 24 CM MAXIMUM LENGTH 58 CM

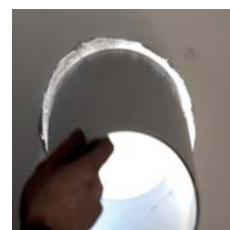


EXTERNAL  
EXPANSION GRATE  
THAT CAN BE  
INSTALLED  
FROM INSIDE



1

Make an opening in the external wall.



2

Insert the telescopic tube at the desired length.



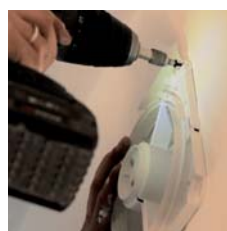
3

Insert the expansion grate from inside the room.



4

Insert the ceramic heat exchanger.



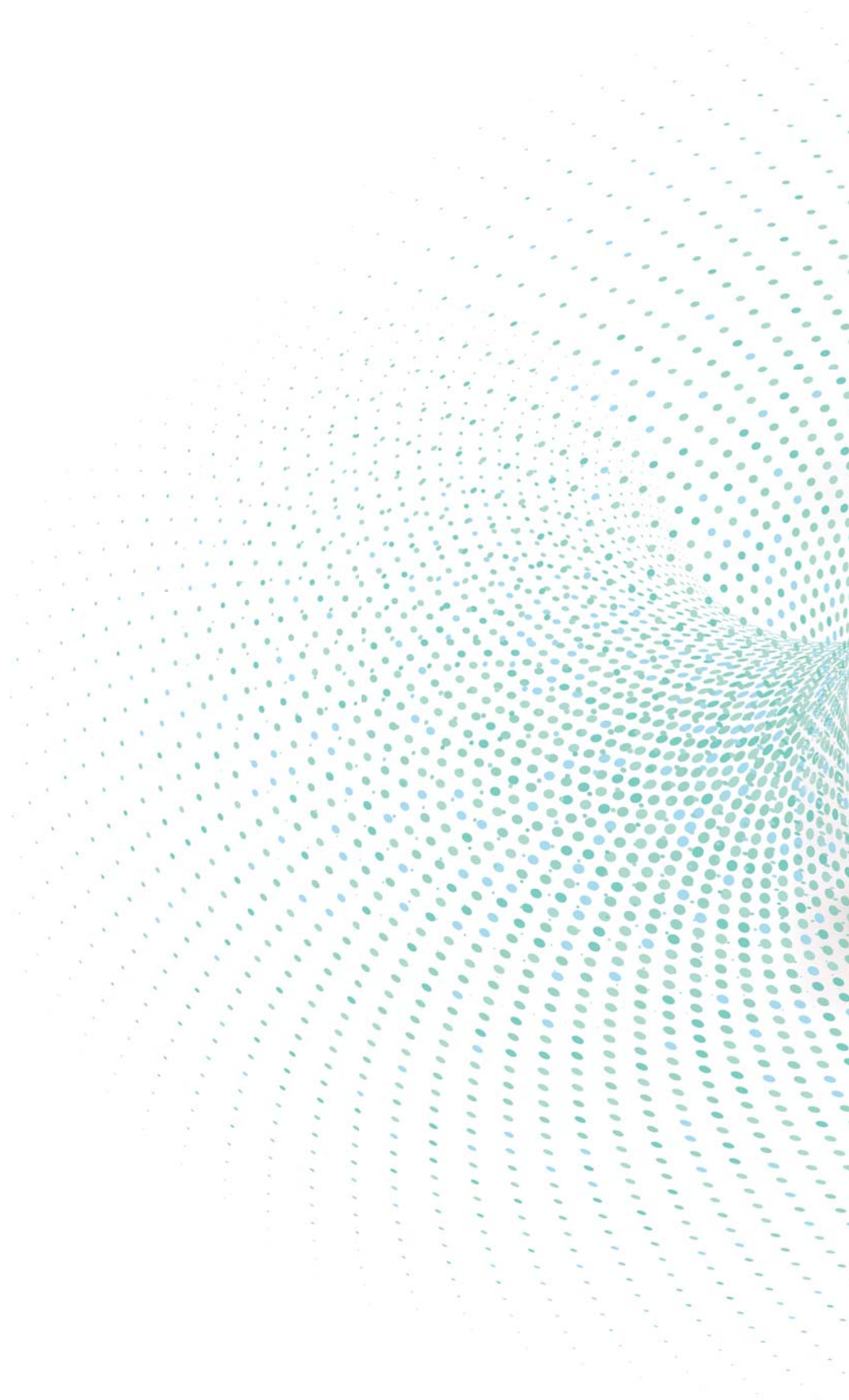
5

Fix the product to the wall, making sure not to touch the fan to avoid reducing the air sanitisation power. Connect it to the mains.



6

Attach the cover.





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