

# Thesan Aircare

# As easy as opening a window, but much more effective

# AF+

### **Aesthetics**

Aircare is the innovative range of controlled ventilation solutions, featuring the essential lines typical of the unmistakable Pininfarina style.

This is why it can easily fit into any architectural design, whether for public or private use.

# **Efficiency**

Since windows can be kept closed, Aircare helps to fight noise pollution. It also helps to save energy. During the hotter months, it helps to limit the use of air conditioning since it brings fresh air into the environment during the night. When it's cold, it refreshes the air without the need to open windows, avoiding heat loss.

# Application

Almost invisible from the outside, on the inside it has a functional and pleasingly technological appearance, making it ideal for both residential uses - in apartments and single family homes - whether in bedrooms or living spaces, and for non-residential uses - in small cafés, stores, offices, hotels or patient rooms in healthcare structures.

### Installation

Light and compact, Aircare is placed between the upper crossbeam of the window frame and the wall for the integrated version. The flush version can also be placed either above or below the window, rather than vertically

In both cases, Aircare is easy to install with minimum and quick labour and is appropriate both for buildings under construction and those being remodelled.



The sources

🖊 Time spent inside: 90%

We spend 90% of our time inside closed spaces where pollution is created: house, office and school.

European Union - ECA report no.23 Ventilation, Good Indoor Air Quality and Rational Use of Energy.

How can we protect us from domestic humidity?

A number of studies carried out in European countries, Canada and the United States indicate that at least 20% of buildings suffer from humidity.

WHO - Guidelines for indoor air quality: dampness and mould - 2009.

🗸 Radon. Killer gas.

Indoor exposure to radon is the second highest cause of lung cancer in the world.

WHO-Handbook on indoor radon 2009.

VIndoor air, lethal air

Lethal diseases caused by pollution of indoor air cause over 2 million premature deaths globally every year.
WHO - World Health Organization.

The air in homes, offices and schools is much more polluted than the air on the street.

How to protect ourselves

# Recommendations

Based on the European guidelines issued by the World Health Organisation in 2009, relative to air quality inside residences, it is necessary to ensure adequate air exchange, able to guarantee a minimum comfort level and protect against pathologies associated with excess pollutants in the environment.

Open windows to aerate environments, but with consequences such as:

- Too cold or too hot
- Energy wasted
- Drafts
- External noise
- Possible intrusion
- No air filtration



AF + Controlled ventilation and air filtration

Main

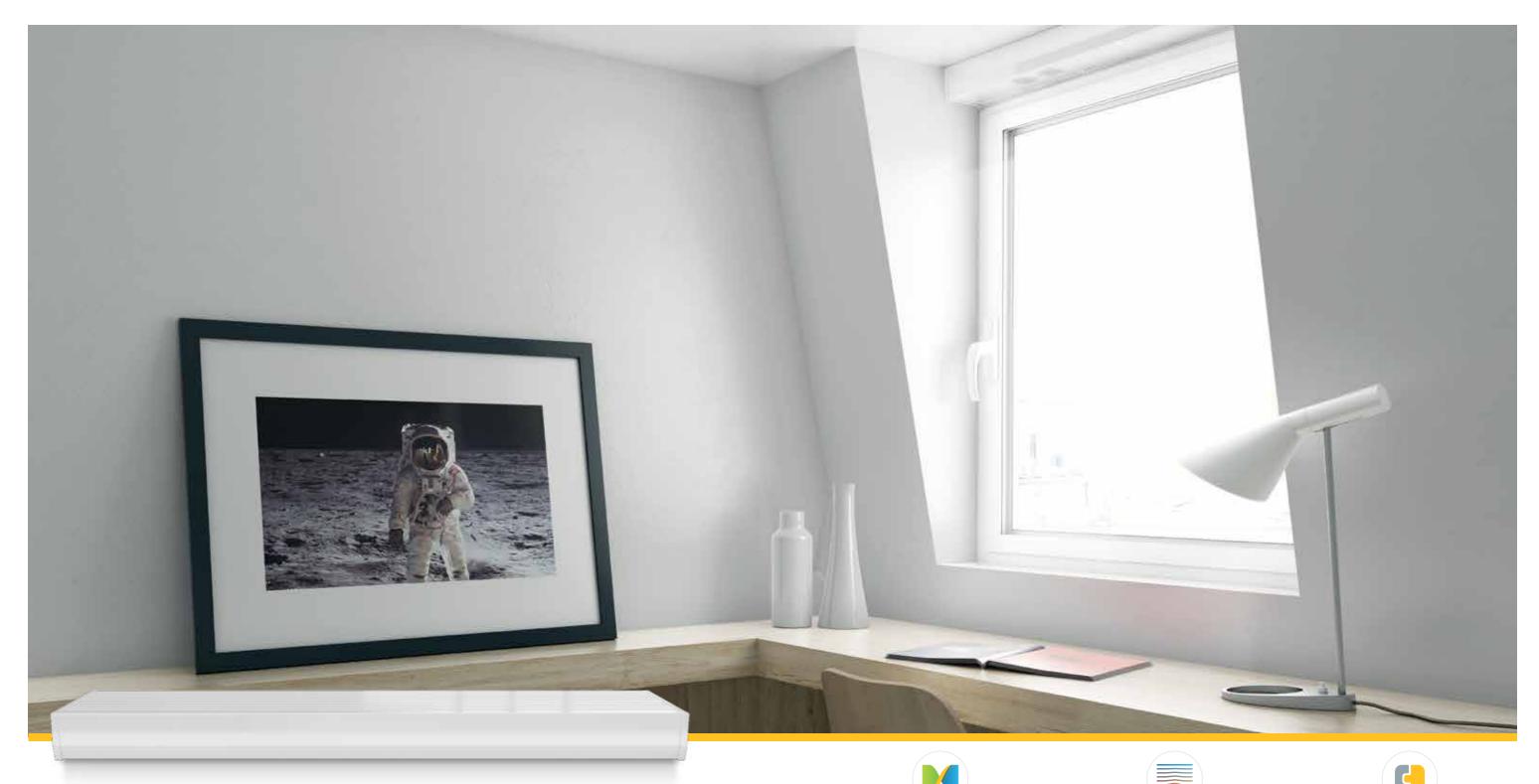
aspects

ES

Controlled ventilation and filtration with heat recovery

4





Aircare



# Why Aircare AF+?

Aircare AF+ helps to guarantee proper air exchange in residential buildings, offices, hotels and schools, whether newly constructed or after remodelling.

Proper air exchange, without the need for heat recovery, suitable for all climates with moderate cold (climactic zones A-B-C), ensures that the relative humidity in the home is kept under control, eliminating the risk of condensation, mould and fungus, with extremely low energy consumption and adequate air quality.



Aircare AF+ includes a double filter that eliminates up to 98% of particulates of 2.5 pm and all PM 10 pm, together with pollen, dust mites, spores and bacteria larger than 0.4 pm.

Aircare AF+ helps to eliminate excess CO<sup>2</sup> in the environment, as well as excess relative humidity, dilutes VOCs, and eliminates radon risk. The input filter is a double F8+G4 filter, which can be accessed and inspected easily.

The energy savings

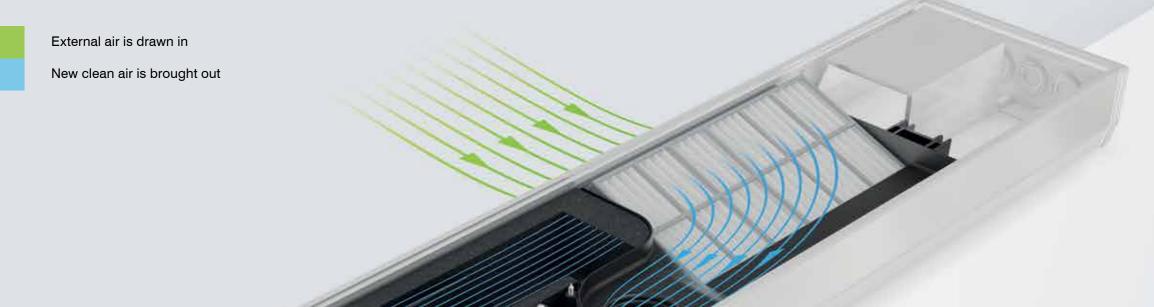
When windows are opened to exchange air, as is done traditionally, pollutants enter the house and more heat may be dispersed than is desired. With Aircare AF+ none of this happens. Thanks to proprietary software and appropriate sensors, the amount of air needed for adequate exchange is guaranteed, while electricity consumption is minimised, based on the internal and external temperature and relative humidity values, as well as the option for CO<sup>2</sup> values.

# The comfort

Aircare AF+ works perfectly with all heating and air conditioning systems found in the house or designed for new buildings.

Thanks to its low capacity and air speed, air exchange is guaranteed without users noticing anything in terms of noise and heat effects. Aircare AF+ can be installed in any corner of the room, in any way or position, and is extremely easy to control, use and maintain.

**B** THESAN





Aircare AF+ has a clean design, thanks to the unmistakeable Pininfarina style. This is why it can easily fit into any architectural design.



# Technical informations

Speed	Capacity [m³/h]	Sound Power LwA [dB]	Sound Pressure Lp (a 3m) [dB]	Power consumption [W]
1	15	35	17	2,8
2	23	42	25	4,4
3	29	46	28	6,2
4	35	47	30	8,9
5	41	52	34	12,6

Connection to the network	230V / 50 Hz
Security class	II
Protection level	IP65

Temperature allowed	Min -15° Max 50°
Ratio	U= 0,30 W/m3K
Noise reduction	Dn,e,w= 51 dB with shutters opened Dn.e,w= 53 dB with shutters closed

Aircare



To manage the various Aircare AF+ operating speeds, a simple and practical 3 button remote control is available, for the following functions:

On/off	
Speed increase/decrease	
Anti-ice function	

Measurement taken in conformity to standard EN 13141-11

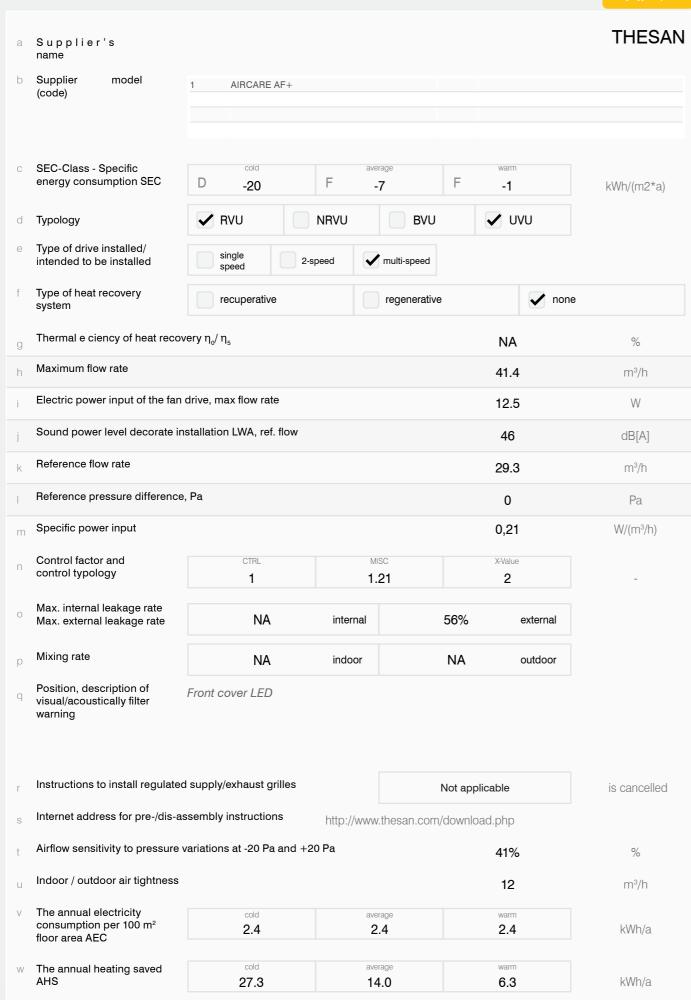
### Standard dimensions

Length	Min 1000 mm - Max 5000 mm
Width	218 mm

Height	78 mm
Weight	4,8 kg (L 1000) - 6,6 kg (L 1500) - 8,4 kg (L 2000)

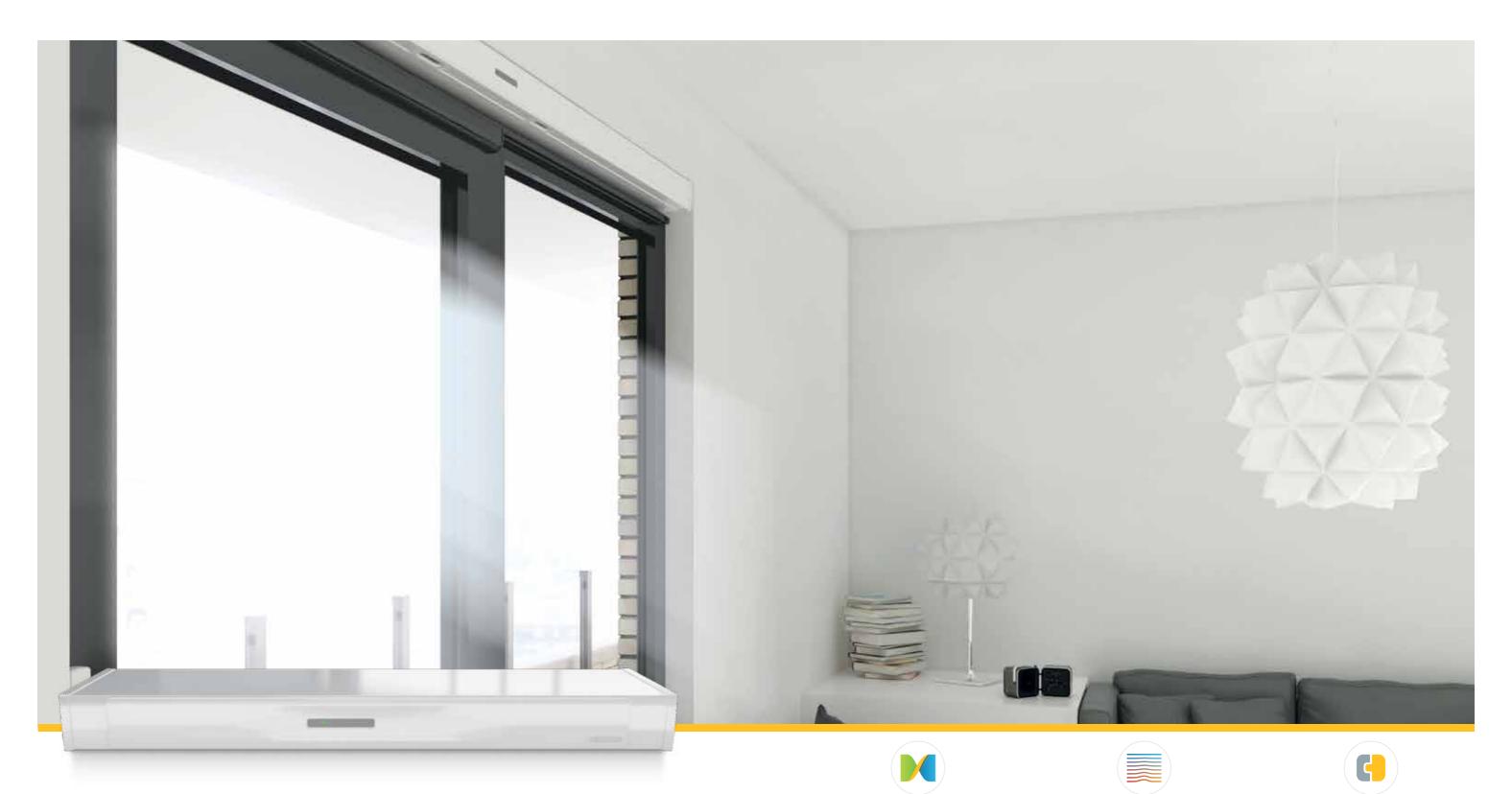
**E** THESAN

For profiles up to 80 mm thick



### Item table

Codes	Description	Dimensions (mm)	Finishes	Pcs.
	Complete machir	ne		
AC-AF102-8200	Structure	1000	RAL 9010	1
AC-AF102-8201	Structure	1500	RAL 9010	1
AC-AF102-8202	Structure	2000	RAL 9010	1
AC-AF102-8203	Structure	2500	RAL 9010	1
AC-AF102-8204	Structure	3000	RAL 9010	1
AC-AF104-0000	Motor assembly			1
AC-AF003-0000	Filter set G-F6/M6			1
AC-AF003-A000	Filter set G-F9/M6			1
AC-AF105-0000	3 button remote control			1
	Spare Parts - Optiona	l Parts		
AC-AF106-0000	Door without heater			1
AC-AF106-0001	Door with 110V heater			1
AC-AF106-0002	Door with 220V heater			1
AC-AF007-00A0	External cover	1000	untreated aluminium	1
AC-AF007-00A1	External cover	1500	untreated aluminium	1
AC-AF007-00A2	External cover	2000	untreated aluminium	1
AC-AF007-00A3	External cover	2500	untreated aluminium	1
AC-AF007-00A4	External cover	3000	untreated aluminium	1
AC-AF007-0000	External cover	1000	untreated aluminium	10
AC-AF007-0001	External cover	1500	untreated aluminium	10
AC-AF007-0002	External cover	2000	untreated aluminium	10
AC-AF007-0003	External cover	2500	untreated aluminium	10
AC-AF007-0004	External cover	3000	untreated aluminium	10



Aircare



# **Why Aircare ES?**

Aircare ES helps to guarantee proper air exchange in residential buildings, offices, hotels and schools, whether newly constructed or after remodelling.

Proper air exchange, combined with thermal and electricity savings, ensures an improvement in energy class certification or the achievement of excellent energy classes, leading to energy efficient buildings (A, A+, A gold, NZEB), with extremely low energy consumption and adequate air quality.



# The air quality

Aircare ES includes a triple filter that eliminates up to 98% of particulates of 2.5 pm and all PM 10 pm, together with pollen, dust mites, spores and bacteria larger than 0.4 pm.

Aircare ES helps to eliminate CO<sup>2</sup>, as well as excess relative humidity, dilutes VOCs, and eliminates radon risk. The input filter is a double F8+G4 filter that can easily be accessed and inspected. the output filter is a G4.

# The energy savings

Aircare ES comes with an "enthalpy" heat exchanger with double crossed flow, that offers sensible and latent heat recovery, with a relative efficiency of up to 82% compared to just sensible heat.

Electricity consumption, thanks to proprietary software and appropriate sensors, is reduced to a minimum based on internal and external temperature and relative humidity values, as well as the option for CO<sup>2</sup> values.

# The comfort

Aircare ES works perfectly with all heating and air conditioning systems found in the house or designed for new buildings.

Thanks to its low capacity and air speed, air exchange is guaranteed without users noticing anything in terms of noise and heat effects. Aircare ES can be installed in any position in the room, in any way or position, and is extremely easy to control, use and maintain.



# pininfarina

Aircare ES has a clean design, thanks to the unmistakeable Pininfarina style. This is why it can easily fit into any architectural design.

ciency up to 82%

# Technical informations

Speed	Capacity [m³/h]	Sound Power LwA [dB]	Sound Pressure Lp (a 3m) [dB]	Thermal efficiency %	Power consumption [W]
1	15	37	19	82	4,6
2	20	40	22	-	5,8
3	30	45	27	74	10,3
4	35	48	30	-	14,6
5	43	51	33	69	20,6

Heat recovered as % efficiency depends on T, HR and air capacity	up to 82%
Connection to the network	230V / 50 Hz
Security class	II
Protection level	IP65

Min -15°C Max 50°C Operating temperature range U= 0,30 W/m3K Ratio Dn,e,w= 53 dB with shutters opened Dn,e,w= 55 dB with shutters closed Noise reduction F8/F9+G4 external air inflow Air filter standard internal air extraction

Measurement taken in conformity to standard EN 13141-11

### Standard dimensions

Length	Min 1000 mm - Max 3000 mm
Width	270 mm

leight	95 mm
eso Weight	7 Kg (L 1000 mm)

Aircare

ES

E THESAN

To manage the various Aircare ES operating speeds, a

simple and practical 5 button remote control is available,

On/off Speed increase/decrease Anti-ice function Automatic mode

BYPASS activate/deactivate

for the following functions:

### Item table

Complete machine							
AC-ES002-8201 Structure 1500 FAL 9010 1  AC-ES002-8201 Structure 1500 FAL 9010 1  AC-ES002-8202 Structure 2000 FAL 9010 1  AC-ES002-8203 Structure 2500 FAL 9010 1  AC-ES002-8204 Structure 3000 FAL 9010 1  AC-ES003-0000 Air filter G4+F8 1  AC-ES003-0000 Air filter G4+F9 1  AC-ES003-0000 Feat exchanger 1  AC-ES003-0000 Mesh output filter 1  AC-ES003-0000 Feat exchanger 1  AC-ES003-0000 External cover 1000 funtreated aluminium 1  AC-ES003-0001 External cover 2000 funtreated aluminium 1  AC-ES003-0000 External cover 3000 funtreated aluminium 1  AC-ES003-0000 External cover 1000 funtreated aluminium 10  AC-ES003-0001 External cover 1500 funtreated aluminium 10  AC-ES003-0002 External cover 2000 funtreated aluminium 10  AC-ES003-0003 External cover 2500 funtreated aluminium 10	Code	Description	Dimensions (mm)	Finishes	Pcs		
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	AC-ES008-0003	External cover	2500		10		
<del></del>	AC-ES008-0004	External cover	3000		10		

# Aircare ES built-in version - horizontal installation



20



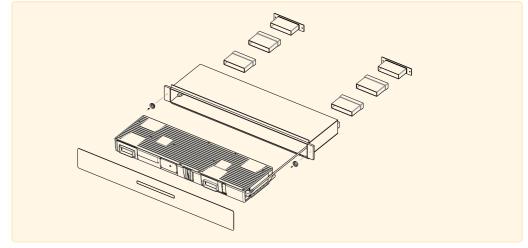
Code	Description
AC-ES015-54A0	SLIM ALUMINIUM PLATE PAINTED RAL 9016
AC-ES004-00B2	AIRCARE ES MACHINE
AC-ES021-0002	BOX WITH REAR OPENINGS, HORIZ. ADAPTOR AND 15mm BAR
AC-ES025-0000	STRAIGHT OUTPUT AERATION VENT KIT



Optional fascia

Vents with straight output

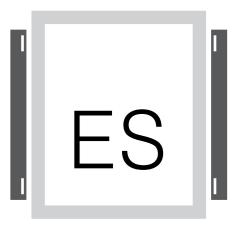




# Aircare ES built-in version - vertical installation



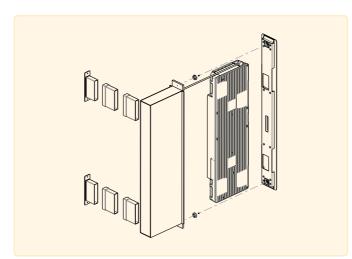
22



Codes	Description	
AC-ES015-54A0	SLIM ALUMINIUM PLATE PAINTED RAL 9016	
For version with shoulder output vent		
AC-ES004-00B1	AIRCARE ES MACHINE - B1 VERSION	
AC-ES021-0001	BOX WITH LOWER OPENINGS AND 15mm BAR	
AC-ES025-0000	ABUTMENT OUTPUT AERATION VENT KIT	
For version with straight output vent		
AC-ES004-00B2	AIRCARE ES MACHINE	
AC-ES021-0002	BOX WITH REAR OPENINGS, HORIZ. ADAPTOR AND 15mm BAR	
AC-ES025-0000	STRAIGHT OUTPUT AERATION VENT KIT	

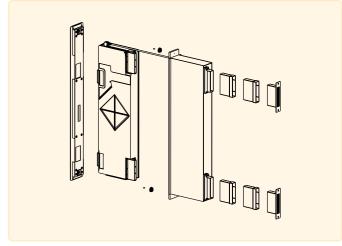






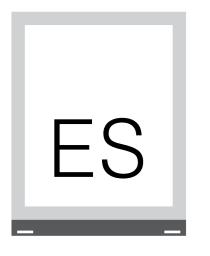


Vents with straight output



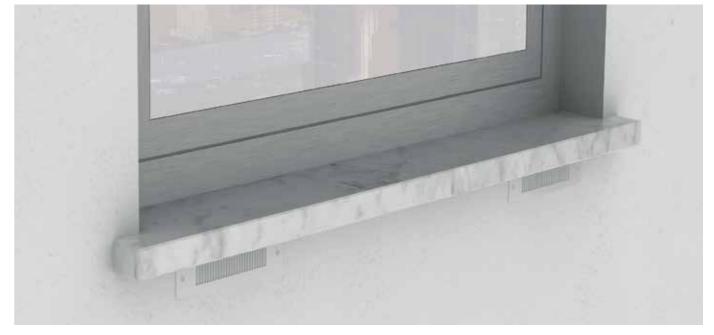
# Aircare ES built-in version - horizontal installation



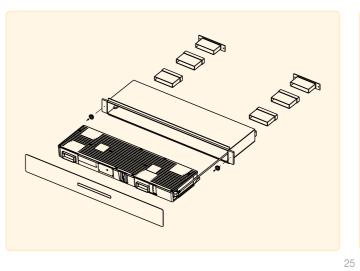


Codes	Description	
AC-ES015-54A0	SLIM ALUMINIUM PLATE PAINTED RAL 9016	
AC-ES004-00B2	AIRCARE ES MACHINE	
AC-ES021-0002	BOX WITH REAR OPENINGS, HORIZ. ADAPTOR AND 15mm BAR	
For version with straight output vent		
AC-ES025-0000	STRAIGHT OUTPUT AERATION VENT KIT	
For version with coil output vent		
AC-ES026-0000	COIL OUTPUT AERATION VENT KIT	

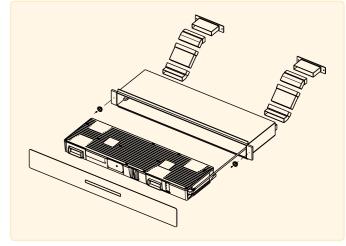


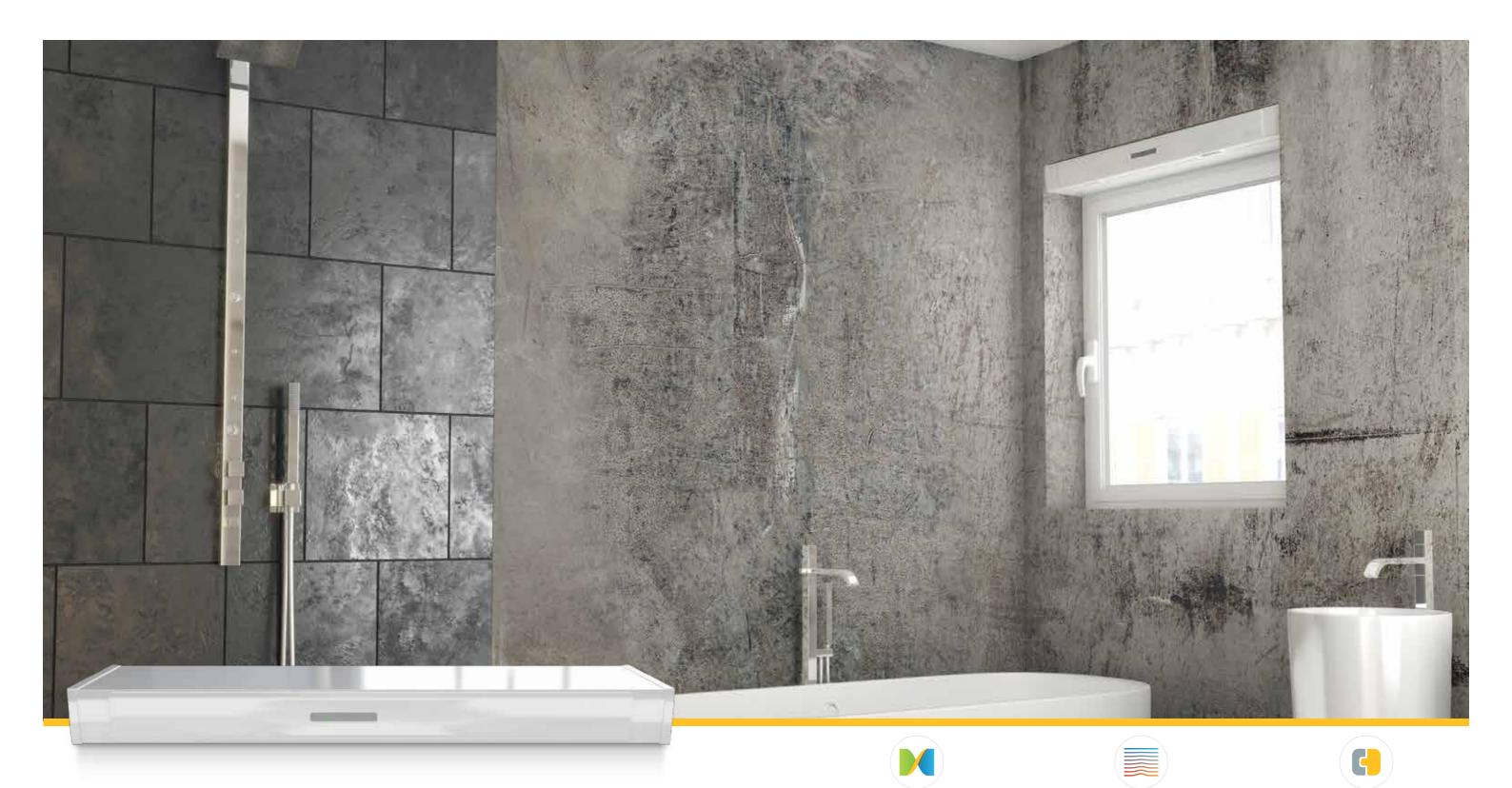


Vents with straight output



Vents with coil output





Aircare





# Why Aircare AE?

Aircare AE works to ensure fast and effective removal of humidity and unpleasant odours from bathrooms and kitchens in residential buildings, offices, hotels, and schools, whether newly constructed or undergoing remodelling.

Aircare AE can be controlled manually or automatically with a detector or hygrometer that either turns on or off to extract air on demand. Together with Aircare ES, Aircare AE makes it possible to create buildings with excellent performance in terms of comfort, health and energy savings.

# The air quality

The relative humidity produced every day in buildings is for the most part concentrated in bathrooms and kitchens. The same is true for odours, steam and VOCs.

This means effective elimination of these elements, which worsen air quality in every environment, is needed. Aircare AE has a G4 output filter to contribute to environmental quality.

# The energy savings

Aircare AE does not run constantly but works on demand, since humidity in bathrooms and kitchens is formed regularly and for around an hour per day.

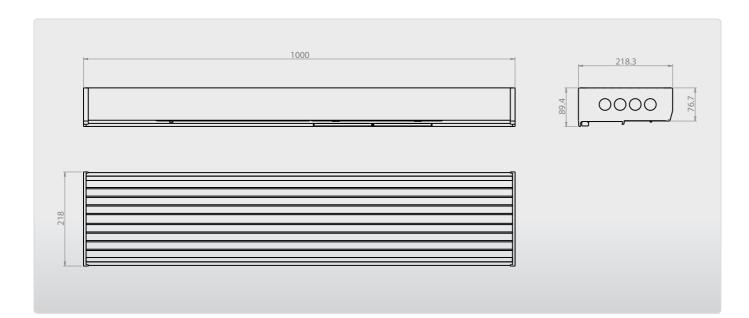
This means the consumption of electricity needed for extraction is minimized, while the quantity of heat extracted is also reduced, to around 3% annually, compensated for by more than 25 times by the heat recovered by Aircare ES in other areas of the home.

# The comfort

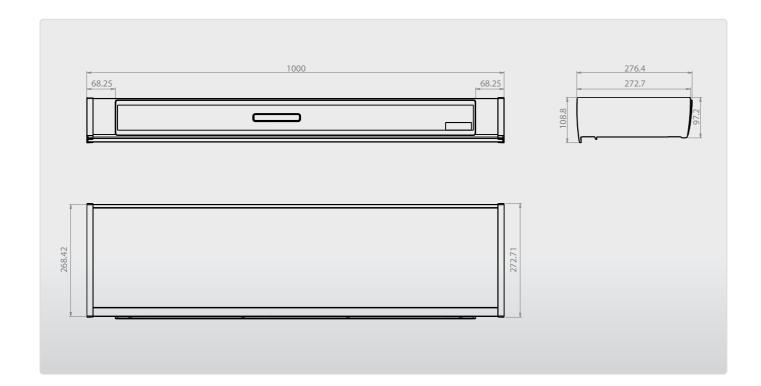
Aircare AE can be installed in the same way as other Aircare models.

Intelligent extraction control and the possibility of manual adjustment using the remote control, combined with the silent nature of the device, make extraction extremely easy.

# Aircare ES in window frame

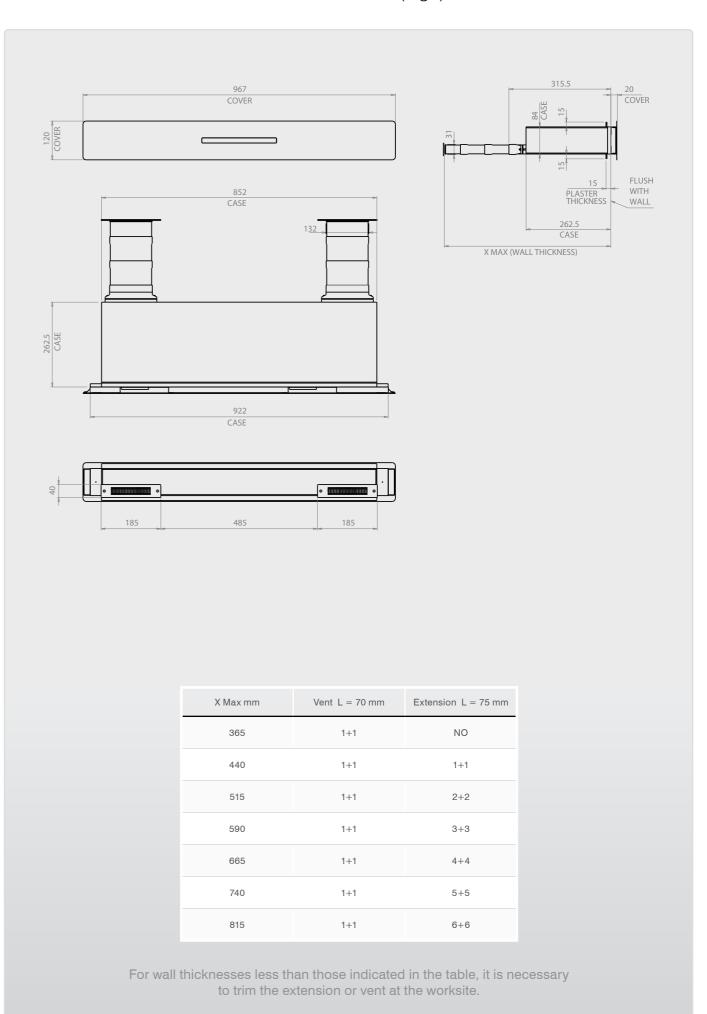




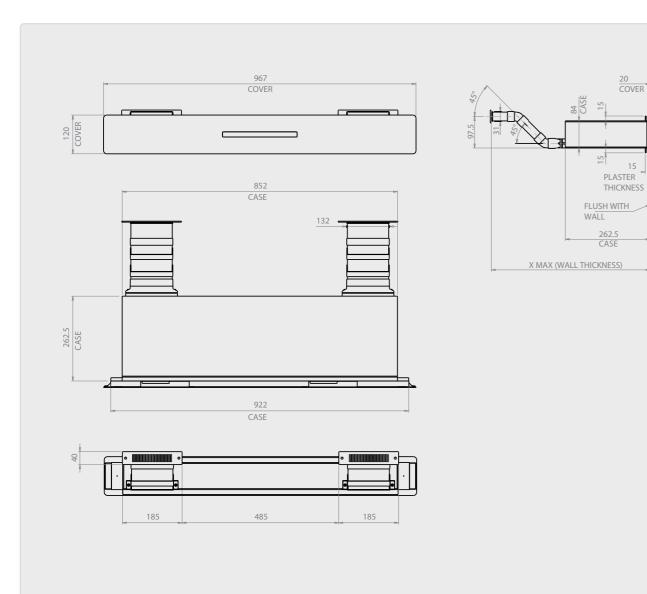




# Aircare ES built-in version - horizontal installation (high)



# Aircare ES built-in version - horizontal installation (low)

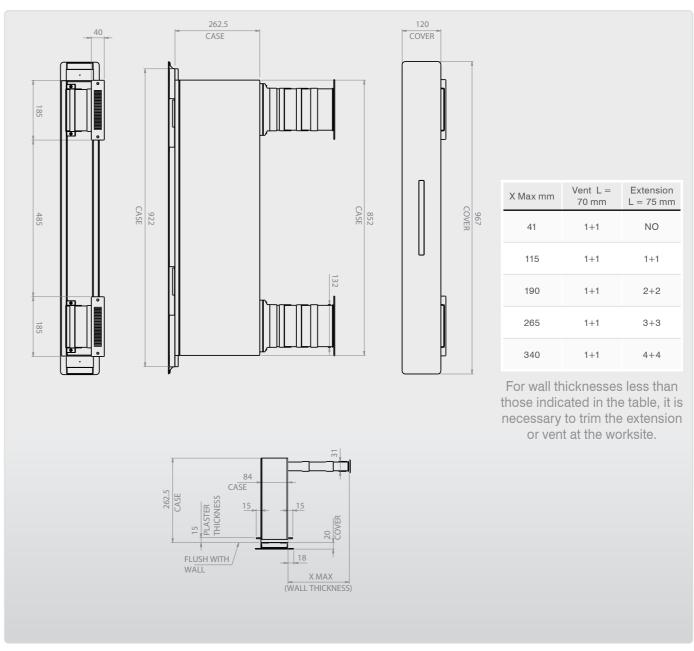


X Max mm	Vent L = 70 mm	Extension L = 75 mm
491	1+1	NO
566	1+1	1+1
641	1+1	2+2
716	1+1	3+3
791	1+1	4+4
866	1+1	5+5

For wall thicknesses less than those indicated in the table, it is necessary to trim the extension or vent at the worksite.

30

# Aircare ES built-in version - vertical installation



Aircare ES machine for built-in version

