

Aircare ES

FRESH AIR ON DEMAND



Ductless Controlled Mechanical Ventilation system with heat recovery.

Aircare ES

Single Room Controlled Mechanical Ventilation system



Controls and assures the correct change of air in closed environments



Filters up to 99.9% of pollutants



Uses a heat exchanger to recover the thermal energy in the exhaust air

Works for you 24/7:

CHANGING INDOOR AIR

It protects you from hazardous but odourless and colourless pollutants by changing indoor air. Except with clean air.

Aircare replaces indoor air in just 2 hours.



FILTERING THE AIR IN YOUR HOME

If the outside air is harmful, it must be filtered before you breathe it.

Aircare is the most efficient filtration system capable of simultaneously stopping smog and noise to protect your health.



SAVING HOUSEHOLD ENERGY

Opening the windows wastes energy without improving the air. Do you want clean air in your home without spending too much?

Aircare is the perfect appliance to make you feel healthy and well and keep energy consumption down.

It boosts your comfort but not your power bills.



WHY CHOOSE AIRCARE ES?

Aircare ES is a sustainable choice

- > It assures the correct air exchange flow in new and refurbished residential buildings, offices, hotels and schools.
- > It keeps the quality of indoor air constant and controls the level of humidity.
- > Improves the building's energy rating which increases its value.
- > Low consumption and quiet operation.
- > No special maintenance required.
- It's discreet, elegant and easily disguised.
- > It's perfect if you're not a fan of airconditioning but you want to cool down rooms more naturally, particularly at night.

AIRCARE GIVES YOU EVERYTHING YOU NEED



complete change of indoor air in 2 hours



humidity control



high filtration levels - up to HEPA H13



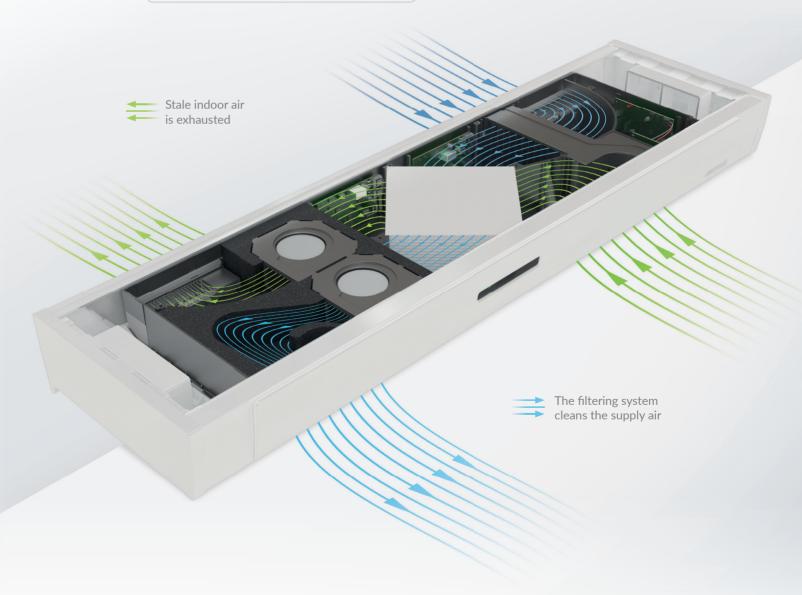
heat recovery of up to 82%

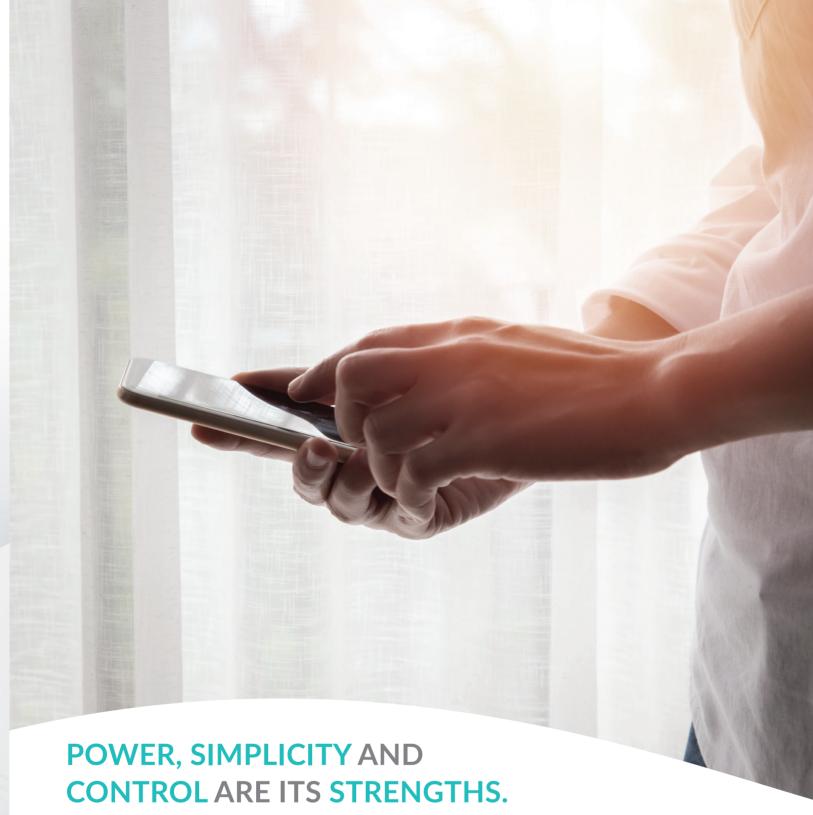


App or remote controlled



5 speeds with automatic programme





Using and adjusting Aircare ES is a breeze.

The simple, convenient five-button remote control selects different speeds and controls functions:



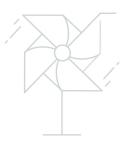
- > On/Off
- > Automatic mode
- Pre-heating system start (if included)
- Increase/Decrease speed
- > Enable/Disable BYPASS



DOWNLOAD THE APP (ANDROID AND IOS)



- > Remotecontrolofallfunctions
- > Personalised configuration
- Constant control of indoor temperature
- Control and management of indoor humidity



NOTHING PROTECTS YOU LIKE AIRCARE

Aircare ES optimises wellbeing at home because it filters up to 99.9% of outdoor pollutants.

Indoor air is often much more polluted than outdoor air, and this can cause a lot of discomfort, in the form of headaches, lack of concentration and drowsiness, as well as breathing difficulties.

Advantages

- > Simultaneously stops smog and noise.
- > Constantly adjusts the levels of indoor humidity.
- > Prevents growth of mould.
- > Keeps rooms dry, healthy and uncontaminated.



It protects you from hazardous but odourless and colourless pollutants by changing the indoor air. Except with clean air.



90%

The time spent indoors where pollution is created (home, workplace, school)¹



20%

Buildings with one or more signs of dampness, as indicated in studies in several European countries, Canada and the United States²



The air in homes, workplaces and schools is much more polluted than the air on the streets.

OPEN WINDOWS

Too cold or too hot

Waste of energy

Draughts

Outside noise

Possible break-ins

No filtration of supply air

贝

CLOSED WINDOWS

Build-up of indoor pollution

No air change

Sealed building

High risk of mould

Persistence of unpleasant smells

Sick building syndrome



2 mln

Premature deaths every year, in the world, from fatal diseases caused by indoor air pollutants³



Rador

Second most common cause of lung cancer in the world⁴



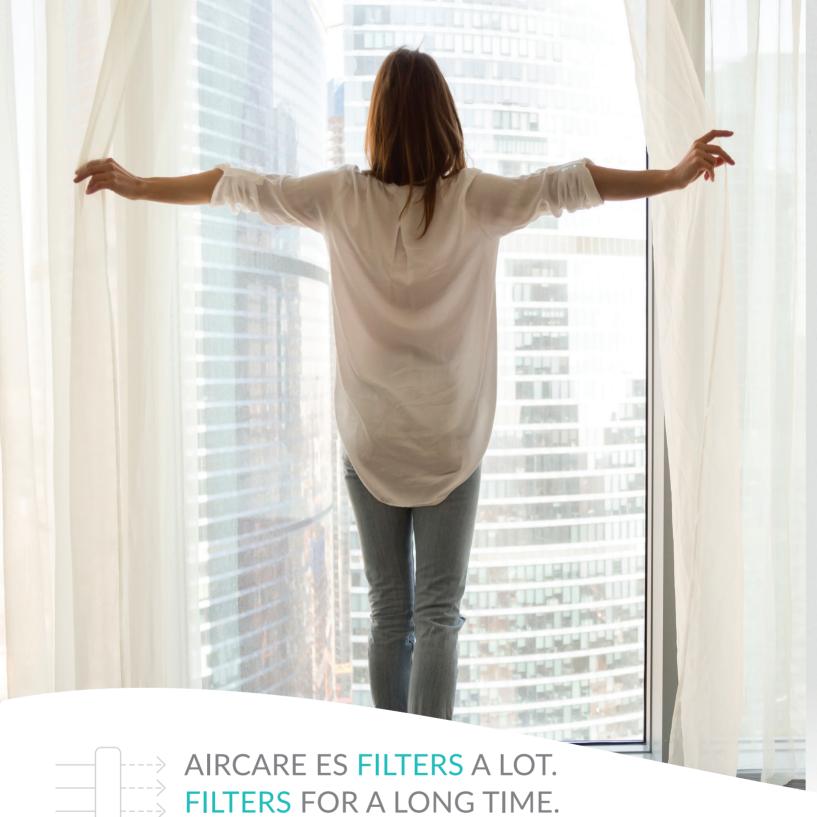
How can we protect ourselves?

By changing the air with controlled mechanical ventilation.

According to the World Health Organization guidelines for indoor air quality (2009), a sufficient air change is necessary, to guarantee acceptable levels of comfort and to protect the occupants from adverse health effects caused by an excess level of indoor-generated pollutants.

Aircare ES is perfect: it filters, cleans and returns the air to you "ready to breathe".

- 1. Unione Europea ECA report n°23 Ventilation, Good Indoor Air Quality and Rational Use of Energy
- WHO Guidelines for indoor air quality: dampness and mould 2009
- 3. WHO World Health Organization
- 4. WHO Handbook on indoor radon 2009



FILTERS FOR REAL.

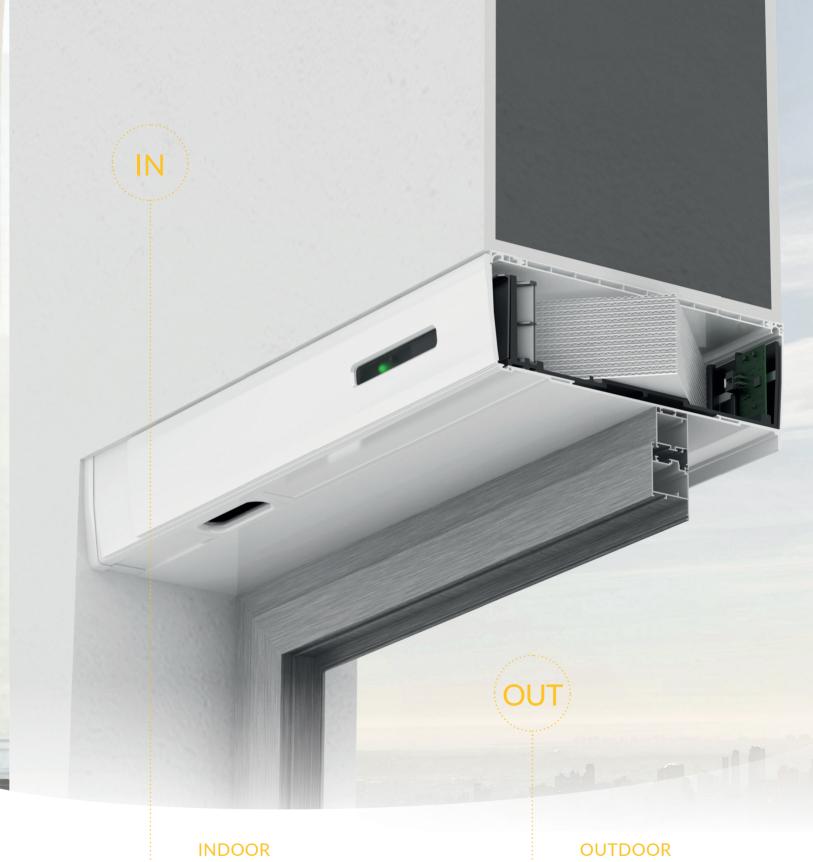
Aircare ES is the most efficient filtration system on the market that can as exception.

Aircare ES is the most efficient filtration system on the market that can simultaneously stop smog and noise to protect your health.

It is fitted with a multi-system filter that eliminates 100% of fine particles with a diameter of more than 10 microns, in addition to pollen, dust mites, spore and even bacteria.

Aircare ES helps to eliminate CO₂, as well as excess relative humidity indoors, VOCs and Radon.

The air supplied from outside is filtered and brought to the same temperature as the room, without causing sudden changes in temperature, to ensure a correct air change.



POLLUTION

 CO_2

SMOKE

MOULD AND CONDENSATION

RADON

DAMPNESS

VOC

POLLUTION

BACTERIA

HYDROCARBONS (HC)

POLLENS

NOISE

SMOG

 CO_2

PM_{2,5}

FINE

PM₁₀ FINE

PARTICLES

PARTICLES



AIRCARE ES CONSTANTLY SAVES YOU MONEY

AIRCARE ES pays for itself-

it's the smart choice to drastically reduce:

> MAINTENANCE COSTS

Removing mould and dampness, repairing walls, painting walls.

> ENERGY COSTS

Lower heating and cooling/airconditioning costs.

> PERSONAL COSTS

Medical examinations, tests and treatments for ailments caused by breathing polluted air.

In short, choosing Aircare ES is the right choice.

CASACLIMA and TÜV guarantee the performance of Aircare ES

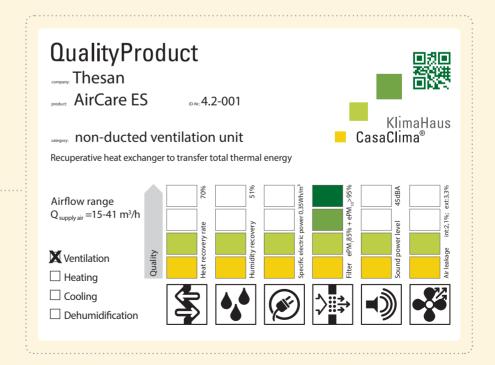
Aircare ES is:

- > the first ductless mechanical DCV system to obtain the CasaClima Quality Label
- > TÜV certified according to test standard UNI EN 13141.

Quality Certification issued by an independent Body (TÜV) is the only thing that guarantees that the device will do what it promises, meeting all the provisions of applicable legislation.

The CasaClima Quality Label:

- > selects the best systems in the DCV market
- > clearly and transparently informs users and designers of the requirements that determine the quality of a DCV system.



Aircare ES is the perfect appliance to generate wellbeing and to minimise energy consumption.

ECODESIGN energy label

Commission Regulation (EU) No 1253/2014 and Commission Delegated Regulation (EU) No 1254/2014 supplementing Directive 2010/30/EU establish energy labelling requirements for ventilation units.

They encompass ecodesign requirements for systems with an electric power input of more than 30 W per air stream. Ventilation units (e.g. Single Room systems) with very low energy consumption are exempted from the labelling requirements.

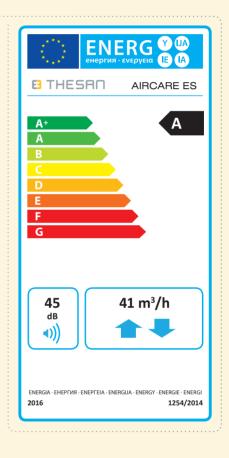
Aircare ES does not require an energy label because it consumes no more than 20 W.

When Aircare ES is correctly

sized for the home it is to be installed in, it assures the flow rate required by ISO 17772-1:2017 of 14.4 m3/h per person, with an excellent operating efficiency of 82%.

This performance level is extremely high for a single-point system; at the same time, it is fully compliant with the standard in terms of air change.

It is important to consider that, in order to achieve a higher level of efficiency, the correct air exchange required may be compromised, which in turn means not being compliant.





Aircare ES obtained the Bio-Safe® endorsement stamp, a mark that guarantees indoor living health and comfort

Bio-Safe® certifies the health of rooms.

BIO-SAFE® Validation Seal

The Certification of Environmental Health for residential skins is an important principle of prevention and protection of health.

We spend most of our time indoors and often we are unable to associate our daily ailments (headaches, drowsiness, irritability, insomnia, allergies or rhinitis just to name a few) with the suspicion that they may originate from the environment.

The products that received this validation were tested according to the Bio-Safe® protocol, as follows:

- > laboratory tests conducted in test chambers (UNI EN 16000) to verify their emissions potential;
- > environmental sampling (UNI EN 14412) to assess the level of indoor air purification achieved in the rooms equipped with the DCV system.





AIRCARE ES DESIGN OBJECT

Aircare ES stands out for the streamlined, elegant design, that is typical of the unmistakeable Pininfarina style.

It seamlessly complements any architectural concept to become part of the decor.

pininfarina



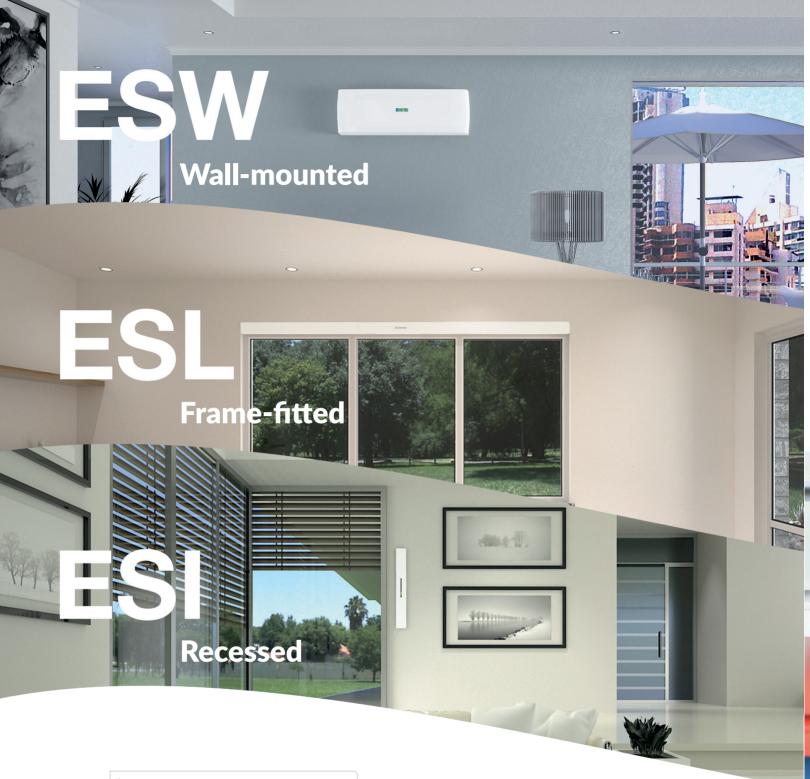
The almost invisible revolutionary resource

Aircare ES is almost invisible from the outside. Indoors it has a practical and pleasantly high-tech look.

It's perfect for:

- > residential use (apartments, singlefamily homes, living areas or bedrooms)
- > non-residential use (shops, bars, offices, hotels, patient rooms in health facilities and yachts).

Light and compact, Aircare ES is quick and easy to install, adapting to every need and every type of interior decor.





AIRCARE ES

ADAPTS TO YOUR NEEDS. ALL OF THEM

Choose your aircare.

More versatile than any other system. Shall we bet on that?

ANY OF OUR AIRCARE VERSIONS YOU WILL CHOOSE, THE PRODUCT WILL BE:



Versatile

with different installation modes



Compact

with an excellent ratio between machine dimensions and air exchange capacity



Customizable

with a wide choice of air vents positioning and colours



AIRCARE ES PERFECT BALANCE





AIRCARE ES

AIR CHANGE WITHOUT COMPROMISING

Aircare ES is equipped with an enthalpy heat exchanger, which enables latent and sensible heat recovery.

The heat exchanger guarantees:

- > Maximum thermal efficiency (82%)
- > > Total change of the air in 2 hours.

With enthalpy heat exchange technology, it would be possible to increase the efficiency rate to 90% but this would compromise the correct air change.

Aircare ES prioritises the correct air change ratio (as required by legislation), settling on an optimal energy efficiency rate of 82%.

Aircare ES integrates perfectly with all heating and climate control systems already present or planned.

Aircare ES is super easy to control, use and service.

Everything you need to know about AIRCARE ES

Measurements taken in compliance with EN 13141-11



Sound pressure

LPA27dB at 3 m in free-field conditions (less than the background noise in a library)



Dnew = 53 dBwith hoods open



Power supply

110-230V / 50 - 60 Hz



Sound insulation

Dnew = 55 dBwith hoods closed

sound insulation of a very efficient window Dnew = 45 dB



Ш



Thermal transmittance

Max 0,3 W/m²K (1.5 W/m2K for an efficient window)



No water drainage required



Degree of

IPX4



Acceptable

Min -20° Max 50°

The real comparison comes into play here:

(*) Speed	(*) Flow rate [m³/h]	(*) Sound Power Level LwA [dBA]	(**) Sound Pressure L_p (at 3 m under free-field conditions) [dBA]	(***) Sound pressure L_p (estimated for a normalised environment) [dBA]	(*) Thermal efficiency %	Power consumption [W]
1	15	37	19	30	82	4,6
2	20	40	22	33	79	5,8
3	30	45	27	38	74	10,3
4	35	48	30	41	72	14,6
5	41	51	33	44	69	20,6

^(*) Measurements taken in compliance with EN 13141-8

(***) This evaluation refers to measurements taken in the middle of a room in a normalised environment. Here, a normalised environment has a reverberation time of 0.05 seconds.

^(**) Data provided to enable comparison with the declarations of competitors



Aircare AE

Remove humidity and unpleasant smells

AE Recessed and frame-fitted







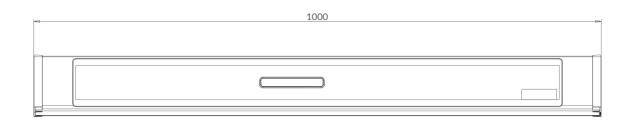
For profiles with tickness up to 170 mm.

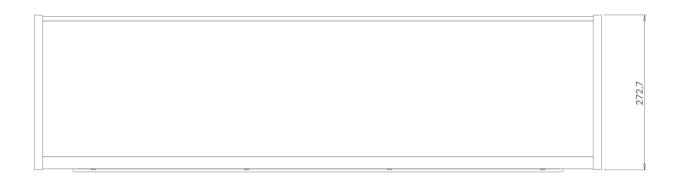
The recessed and frame-fitted solution, to be built into the wall or, depending on the space available, even inside box or monoblocs.

The perfect solution when you don't expect neither the replacement of the windows and doors nor any building work. Aircare AEW is easily applied through a Ø 100 mm hole in the wall.

The perfect complement to Aircare ES...

AIRCARE ESL (FRAME-FITTED)

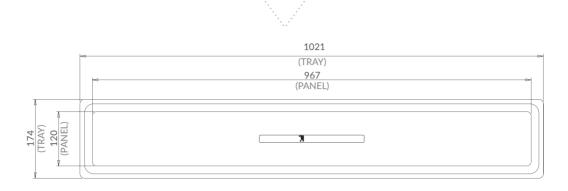


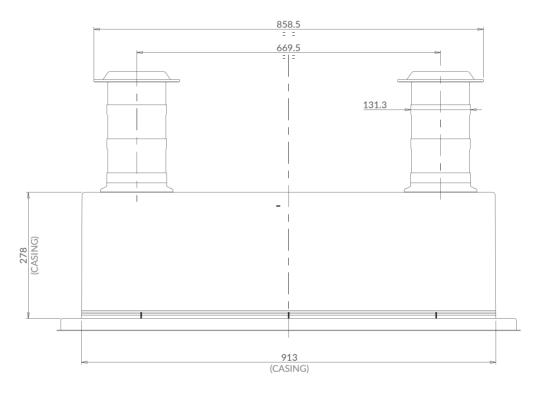




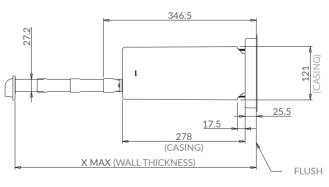
Minimum width of frame (1 m). For profiles of up to 170 mm thick.

AIRCARE ESI (RECESSED) Horizontal with flush panel





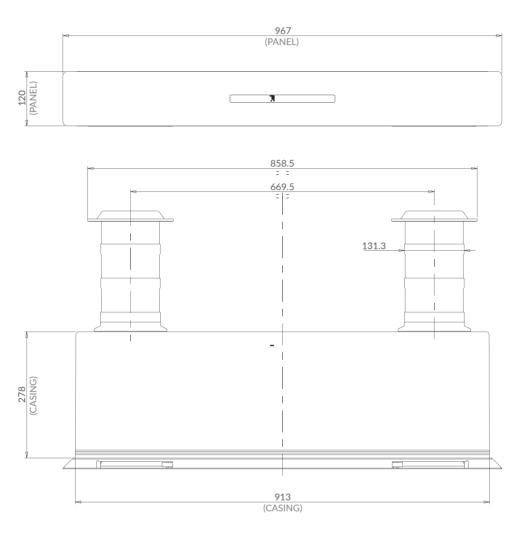
X MAX mm	PORT L = 70 mm	EXTENSION L = 75 mm
396	1 + 1	NO
471	1 + 1	1 + 1
546	1 + 1	2 + 2
621	1 + 1	3 + 3
696	1 + 1	4 + 4
771	1 + 1	5 + 5
846	1 + 1	6 + 6



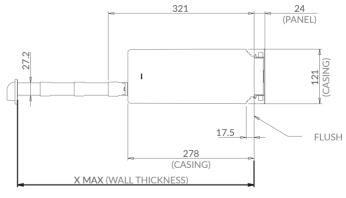
If the wall is thinner than the thicknesses in the table, just file down the extension or the port when installing.

Vertical installation also possible

AIRCARE ESI (RECESSED) Horizontal with protruding panel



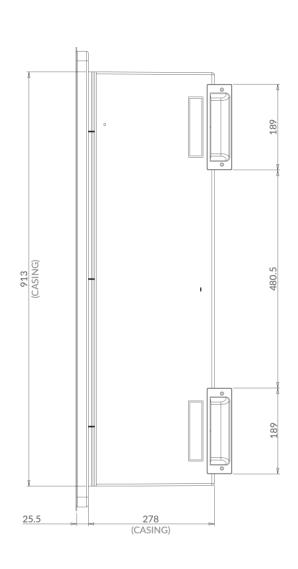
X MAX mm	PORT L = 70 mm	EXTENSION L = 75 mm
371	1 + 1	NO
446	1 + 1	1 + 1
521	1 + 1	2 + 2
596	1 + 1	3 + 3
671	1 + 1	4 + 4
746	1 + 1	5 + 5
821	1 + 1	6+6

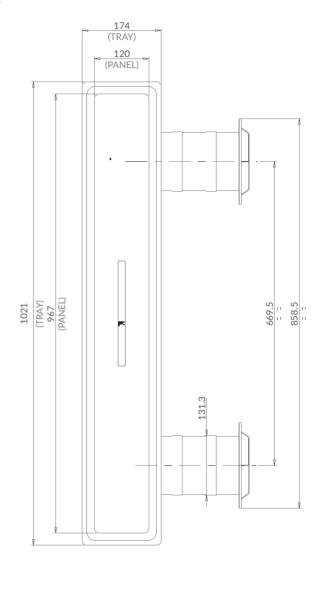


If the wall is thinner than the thicknesses in the table, just file down the extension or the port when installing.

Vertical installation also possible

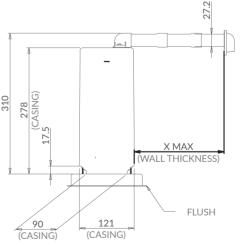
AIRCARE ESI (RECESSED) Vertical with flush panel



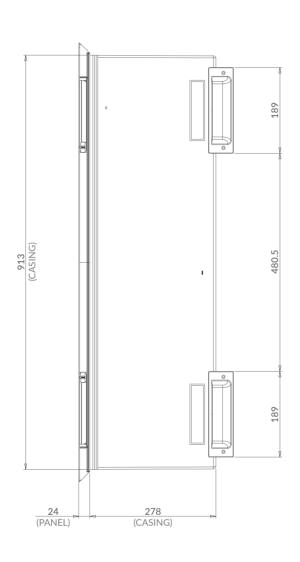


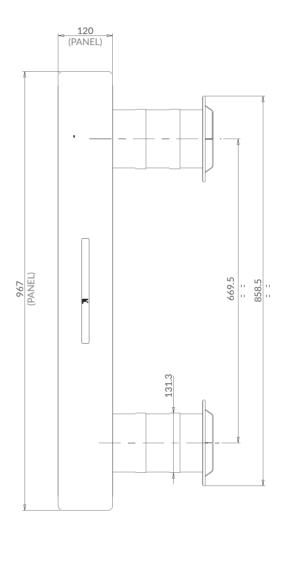
X MAX mm	PORT L = 70 mm	EXTENSION L = 75 mm
48	1 + 1	NO
123	1 + 1	1 + 1
198	1 + 1	2 + 2
273	1 + 1	3 + 3

If the wall is thinner than the thicknesses in the table, just file down the extension or the port when installing.



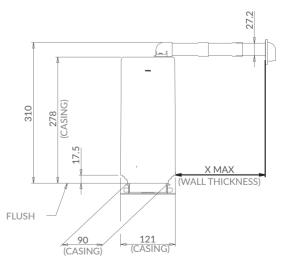
AIRCARE ESI (RECESSED) Vertical with protruding panel



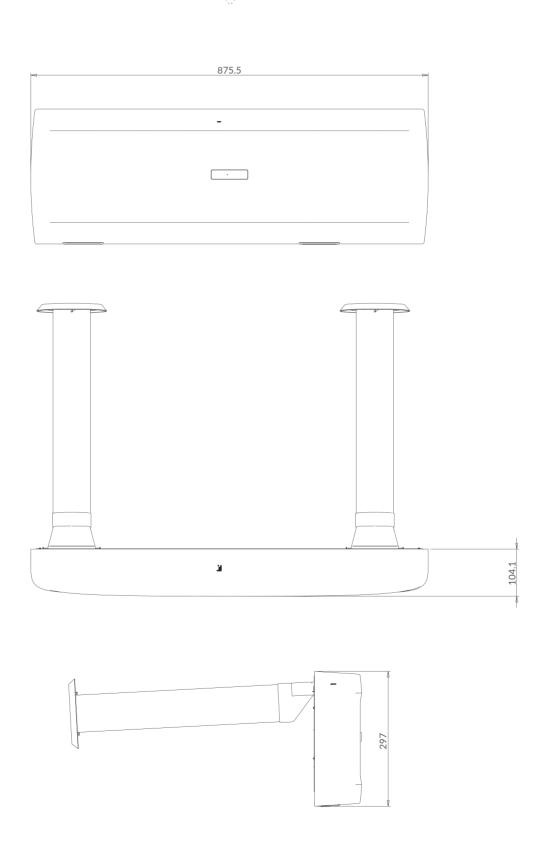


X MAX mm	PORT L = 70 mm	EXTENSION L = 75 mm
48	1 + 1	NO
123	1 + 1	1 + 1
198	1 + 1	2 + 2
273	1 + 1	3 + 3

If the wall is thinner than the thicknesses in the table, just file down the extension or the port when installing.

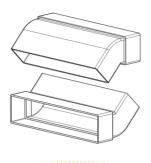


AIRCARE ESW (WALL-MOUNTED)

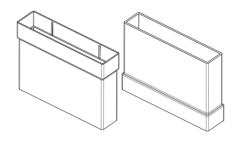


Accessories and spare parts

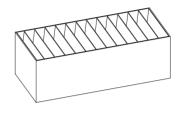
Complete line of accessories and spare parts, easy to use or replace, handy to complete the correct installation of Aircare ES or to adapt it to structural requirements.



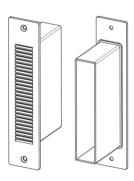
45° elbow for ports



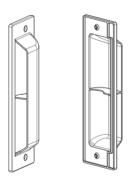
Extension for ports



Dual layer HEPA H13 Air filter



External port (for facade)



External port cover



DOWNLOAD AREA

Select and download all the information you might need to find out more about world of Aircare ES, including technical data and installation instructions.

www.thesan.com/en/download



ES Product datasheet (ErP)

а	Supplier's name	SAVIO S.p.A.					
b	Model identifier (Code)	AIRCARE ES					
С	Specific energy consumption (SEC)	cold A+ -77	average A -37	warm E -14	kWh/(m2*a)		
d	Typology	X RVU	NRVU	X BVU	UVU		
е	Type of drive installed or intended to be installed	single speed	2-speed	X multi-speed	□ VSD	installed	intended to be istal.
f	Type of heat recovery system	recup	erative	X regene	erative	none	
g	Thermal efficiency of heat recovery $\eta_{\text{0}}/\eta_{\text{5}}$	74/70	%				
h	Maximum flow rate	40.6	m³/h				
i	Electric power input of the fan drive	20.8	W				
j	Sound power level (LWA)	45	dB[A]				
k	Reference flow rate	28.4	m3/h				
I	Reference pressure difference in Pa	0	Pa				
m	SPI in W/(m3/h)	0,35	$W/(m^3/h)$				
		CTRL 0.65					
n	Control factor and control typology				SC 21	Χ-'	Value 2
n o	Control factor and control typology Declared maximum internal and external leakage rates (%)					X-1	
	Declared maximum internal and	0.	65	1,2	21	X-1	
0	Declared maximum internal and external leakage rates (%)	2.1%	internal indoor	3.3%	external	X-1	
О	Declared maximum internal and external leakage rates (%) Mixing rate Position and description of visual	0.2.1%	internal indoor	3.3%	external	X-1	
o p	Declared maximum internal and external leakage rates (%) Mixing rate Position and description of visual filter warning	0.2.1% 0.5% Front cover LEI See below	internal indoor	3.3% 0.3%	external	X-1	
o p q r	Declared maximum internal and external leakage rates (%) Mixing rate Position and description of visual filter warning Installation instructions Internet address with preassembly	0.2.1% 0.5% Front cover LEI See below	internal indoor	3.3% 0.3%	external	X-1	
o p q r s	Declared maximum internal and external leakage rates (%) Mixing rate Position and description of visual filter warning Installation instructions Internet address with preassembly and disassembly instructions Airflow sensitivity to pressure variations	0.2.1% 0.5% Front cover LED See below http://www.the	internal indoor	3.3% 0.3%	external	X-1	
o p q r s t	Declared maximum internal and external leakage rates (%) Mixing rate Position and description of visual filter warning Installation instructions Internet address with preassembly and disassembly instructions Airflow sensitivity to pressure variations a +20 Pa and -20 Pa	0. 2.1% 0.5% Front cover LEI See below http://www.the	internal indoor ssan.com/downloa	3.3% 0.3%	external	X-1	

AE Product datasheet (ErP)

а	Supplier's name	SAVIO S.p.A.					
b	Model identifier (Code)	AIRCARE AE					
С	Specific energy consumption (SEC)	cold DG -19	average F -6	warm - 1	kWh/(m2*a)		
d	Typology	X RVU	NRVU	□ BVU	X UVU		
е	Type of drive installed or intended to be installed	single speed	2-speed	X multi-speed	□ ∨SD	installed	intended to be istal.
f	Type of heat recovery system	recupe	erative	regene	erative	X none	
g	Thermal efficiency of heat recovery η_{o}/η_{s}	NA	%				
h	Maximum flow rate	61	m³/h				
i	Electric power input of the fan drive	16.7	W				
j	Sound power level (LWA)	40.4	dB[A]				
k	Reference flow rate	36	m3/h				
1	Reference pressure difference in Pa	0	Pa				
	CDL: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	0.00	NA/// 2/11				
m	SPI in W/(m3/h)	0,23	W/(m ³ /h)				
m n	Control factor and control typology	СТ	W/(m³/h) RL	MI 1,:	sc 21	X-	Value 2
		СТ	RL			Χ-	
n	Control factor and control typology Declared maximum internal and	CT	rl I	1,	21	X-	
n o	Control factor and control typology Declared maximum internal and external leakage rates (%)	CT :	internal	3.3%	external	X- ⁻	
n o	Control factor and control typology Declared maximum internal and external leakage rates (%) Mixing rate Position and description of visual	NA NA	internal	3.3%	external	X-	
n o p	Control factor and control typology Declared maximum internal and external leakage rates (%) Mixing rate Position and description of visual filter warning	NA NA Front cover LED See below	internal	3.3% NA	external	Χ-	
n o p q	Control factor and control typology Declared maximum internal and external leakage rates (%) Mixing rate Position and description of visual filter warning Installation instructions Internet address with preassembly	NA NA Front cover LED See below	internal indoor	3.3% NA	external	X-1	
n o p q r	Control factor and control typology Declared maximum internal and external leakage rates (%) Mixing rate Position and description of visual filter warning Installation instructions Internet address with preassembly and disassembly instructions Airflow sensitivity to pressure variations	NA NA Front cover LED See below http://www.the	internal indoor san.com/downloa	3.3% NA	external	X-1	
n o p q r s	Control factor and control typology Declared maximum internal and external leakage rates (%) Mixing rate Position and description of visual filter warning Installation instructions Internet address with preassembly and disassembly instructions Airflow sensitivity to pressure variations a +20 Pa and -20 Pa	NA NA Front cover LEE See below http://www.the	internal indoor san.com/downloa	3.3% NA	external	X-1	

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