

SILENT

SILENT HYBRID

CLIMA PURO



CLIMA PURO



The quietest air-conditioner in its class,
without outdoor unit, with special
molecular filters capable of purifying the
air and surfaces from viruses and bacteria



SUMMER COOLING



WINTER HEATING



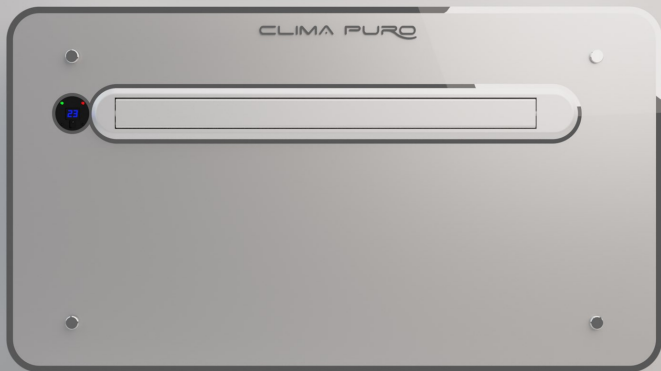
SUMMER AND WINTER DEHUMIDIFICATION



PURIFICATION



AIR EXCHANGE



3 MODELS

3 models to suit all your needs

Zymbo Italia's latest product is designed to meet the needs of the most attentive consumers who require absolute and uncompromising comfort. 3 Models capable of providing heating capacity in any environmental condition and a unique acoustic comfort in its class. Special attention has been paid to the filtration and purification of the air from viruses and bacteria, which is currently an extremely relevant problem in the cities where we live.

SILENT

Silent is the quietest air conditioner in its class without outdoor unit; thanks to FULL DC INVERTER technology, it is able to guarantee unparalleled acoustic comfort and performance even in harsh climates and temperatures of -10°C . Its super compact dimensions, minimalist design, high-quality finishes make it an item of furniture that integrates into any environment, from modern to traditional ones. Discover its unique functions.

Code 021000

SILENT HYBRID

Silent Hybrid is the quietest air conditioner in its class without outdoor unit; in addition to the Silent model, it is equipped with an additional exchanger inside which can be connected to the boiler's heating circuit and replace traditional radiators. This special function enables to install the machine in spaces unthinkable before and to have a comfort level and average seasonal efficiency that is higher than any inverter machine on the market. In this way, you have a single product for winter, summer and hydronic air conditioning.

Code 021001

CLIMA PURO

Clima Puro is the quietest air conditioner in its class without outdoor unit, which in addition has a molecular filtration system capable of purifying the air from PM 2.5 particles, of eliminating any viruses or bacteria, of sanitising the surfaces of the rooms and of creating a self-cleaning action of the machine itself. This product allows to safeguard people's health as well as to guarantee performance, comfort and efficiency like the other models in the range.

Code 021002

Air-condition, purify and sanitise the environment where you live in a 100% ecological way

Discover the unique features of the Silent, Silent Hybrid and Clima Puro ranges

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DESIGN

Sleek look

Simple and essential shapes, thickness reduced to 16 cm, quality materials such as the tempered glass front: these features make the product a furnishing accessory that can easily adapt to both modern and classic homes, discreetly and harmonically blending in with its surroundings. All the Silent, Silent Hybrid and Clima Puro models have the same design and the same aesthetics, they differ internally in particular technical features designed to cater for the exclusive functions of the various models.

Design, comfort and purifying in total silence.

Commands on the machine

Machine body in galvanised and powder-coated sheet

Front LCD display

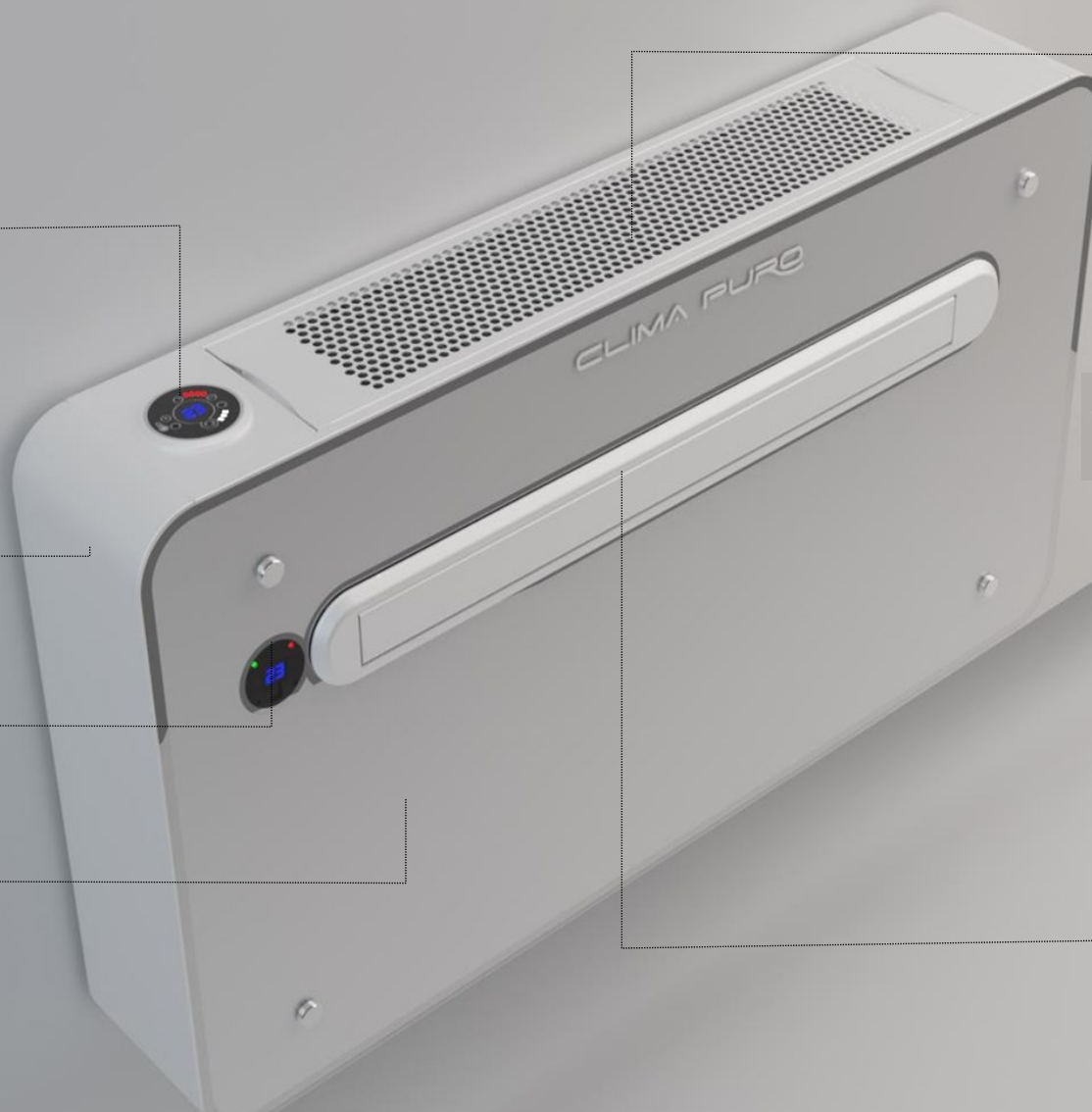
Front in tempered glass

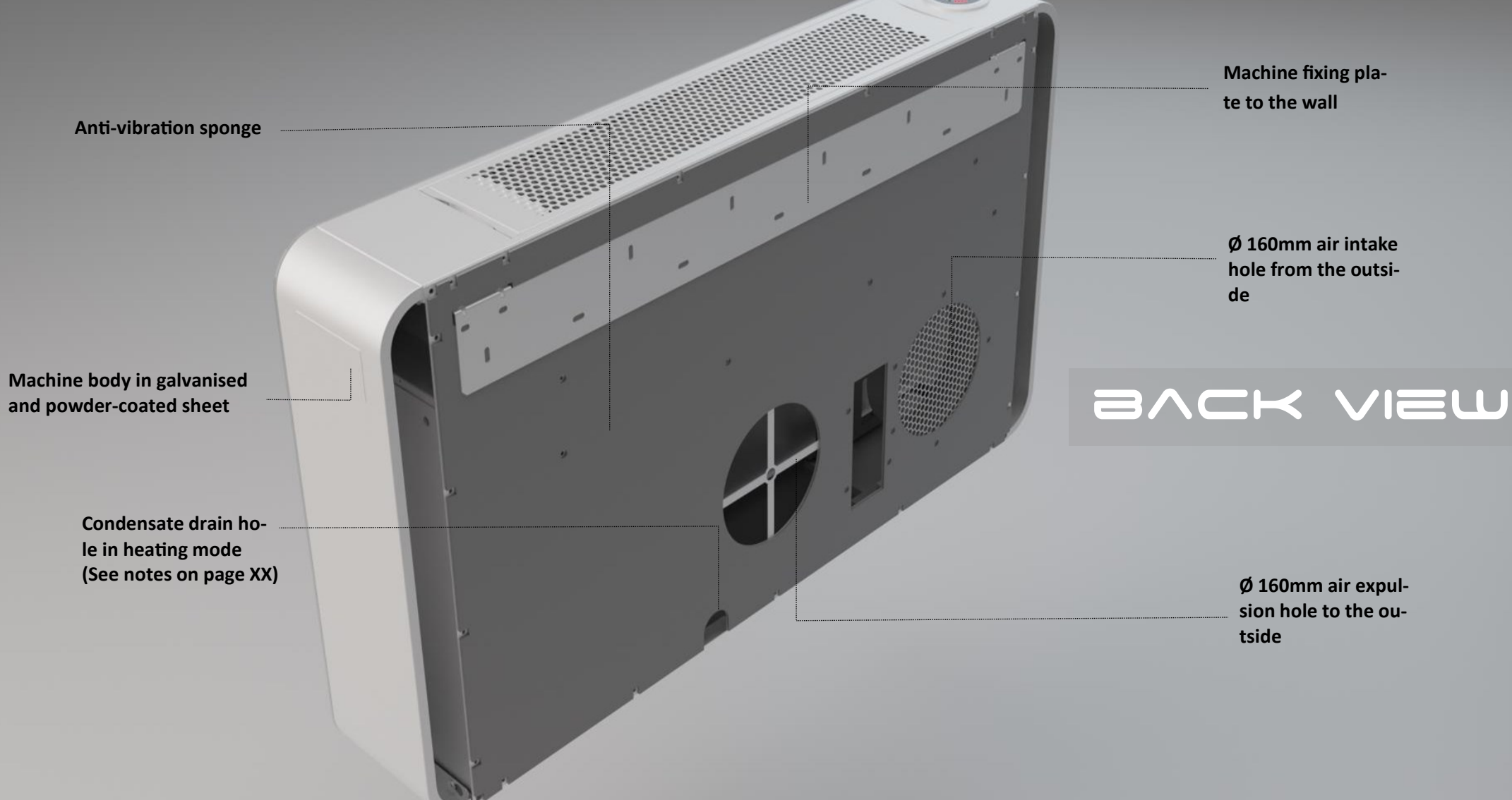
Air inlet grid and access to filters

STRONG

Solid structure in galvanised sheet, painted with epoxy-polyester powders able to withstand corrosive agents as well as ageing or yellowing over time. The tempered glass on the front adds light, elegance and lustre to the product, making it a real piece of modern furniture.

Air outlet
Aluminium flap





Anti-vibration sponge

Machine fixing plate to the wall

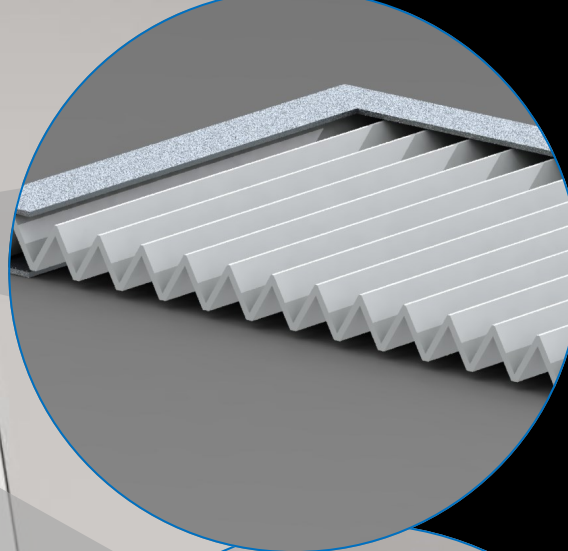
Machine body in galvanised and powder-coated sheet

Ø 160mm air intake hole from the outside

BACK VIEW

Condensate drain hole in heating mode
(See notes on page XX)

Ø 160mm air expulsion hole to the outside



FILTER

Pre-filter for coarse dust particles made of stainless steel in the shape of a microwave to increase the surface and reduce the frequency of washing and guarantee low pressure drops to the fan. Present on all models.



MOLECULAR

Molecular filter for the elimination of PM2.5 particulate matter, pollen, viruses and bacteria.

Laboratory tested efficiency $\geq 96\%$ at the first passage of the air. Present on the Clima Puro model only.

COMMAND

COMMANDS ON THE MACHINE

The commands are equipped on all models and manage all the functions of the machine:

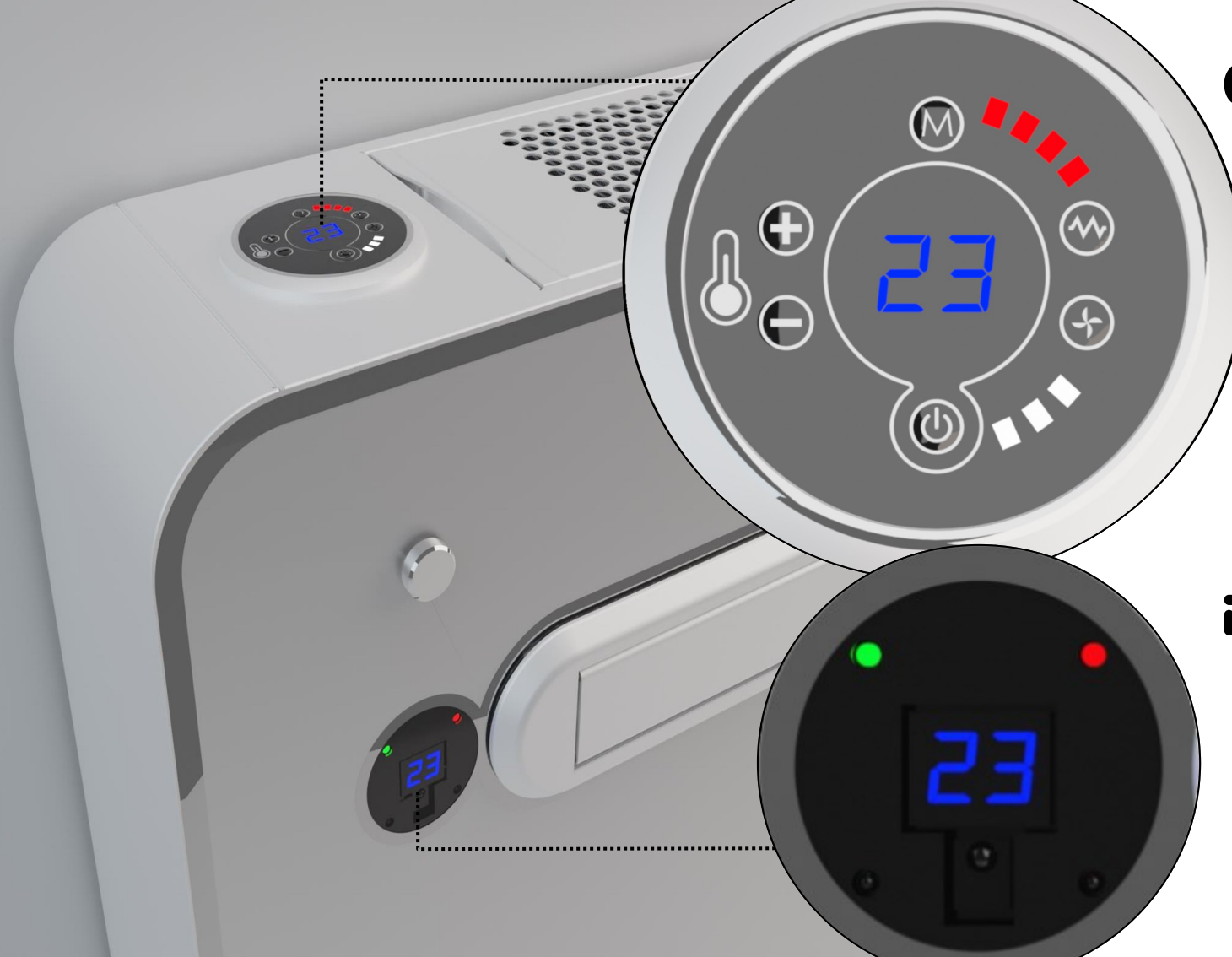
- Power on / off
- Mode (hot / cold / dehumidification)
- Night function
- Ventilation speed
- Setting the set point temperature
- Room temperature display
- PTC thermistor on / off
- Machine programming
- Display of operating alarms

DISPLAY

FRONT LCD DISPLAY

Equipped on all models, the front LCD display shows the operation of the machine

- Power on / off
- Mode (hot / cold / dehumidification)
- Ambient and Set point temperature
- Display of operating alarms



REMOTE C.

REMOTE CONTROL

The convenient remote control, available with all models, has soft touch keys and is easy to use; with this accessory it is possible to manage all the functions of the machine, such as:

- Power on / off
- Mode (hot / cold / dehumidification)
- Night function
- Ventilation speed
- Setting the set point temperature
- PTC thermistor on / off
- On / off timer



WI-FI

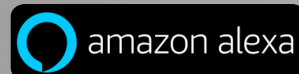
Wi-Fi CONNECTED

The convenient Wi-Fi remote control is available for all models, to manage the air conditioner remotely. It is possible to remotely manage the conditioner for all the desired functions by installing the APP available for iOS and Android systems

- Power on / off
- Mode (hot / cold / dehumidification)
- Night function
- Ventilation speed
- Setting the desired set point temperature
- Remote on / off
- On / off timer

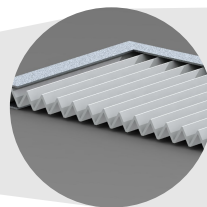


Code Acc 0001





DC Indoor motor



**Pre-filter and
Molecular filter**

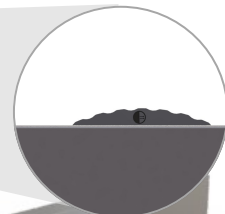
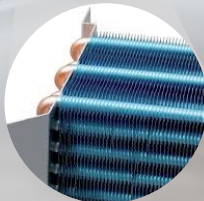
Inverter PCB



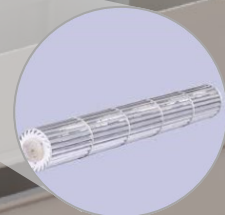
**EC BLDC Outdoor
Motor**



**High performance
Coils**



Air fresh selector



Aluminium cross fan



DC Inverter compressor

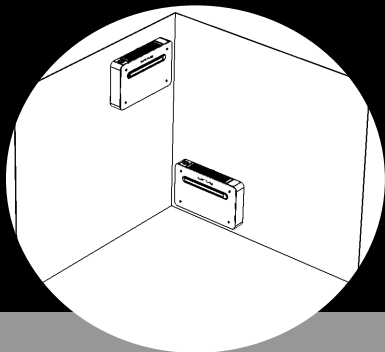
SUPER THIN

Super Compact Dimensions

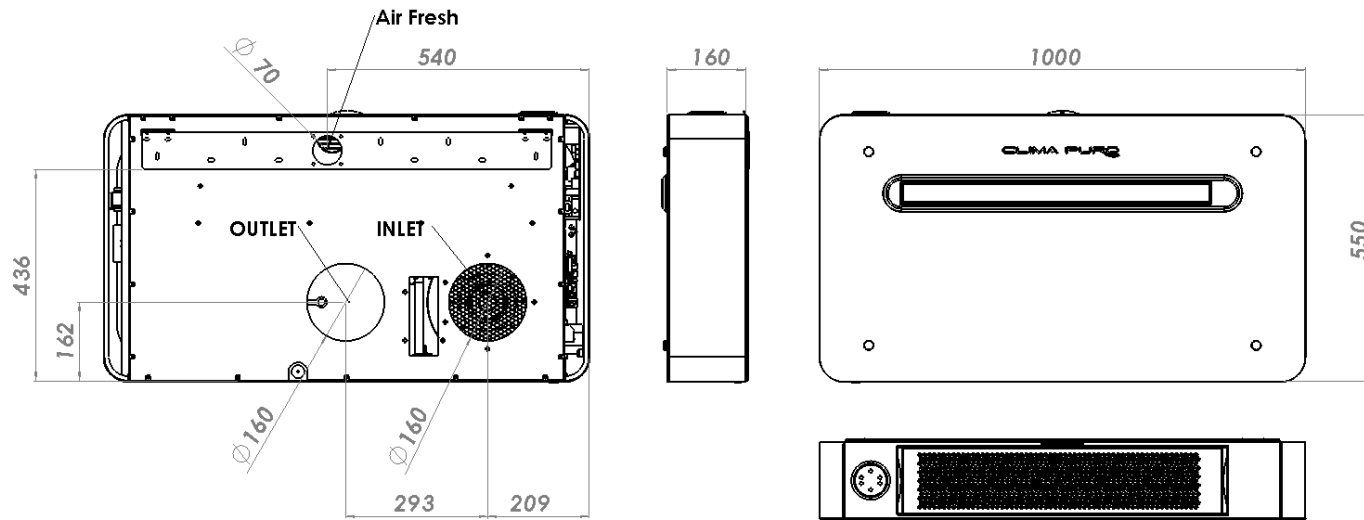
Thanks to its careful design, the dimensions of the Silent and Clima Puro lines are very compact; its thickness of only 16 cm, makes it the thinnest monoblock machine without outdoor unit on the market.

The centre to centre distance of the holes at 293 mm allows the replacement of similar products with obsolete technology without the need to redo the holes in the façade.

High and low wall installation



ONLY 16 CM THICKNESS





EFFICIENCY



Full DC Inverter technology

The machine is made only with electronic components with maximum energy efficiency.



DC Inverter compressor with modulation frequency from 25 to 75 Hz

EC Brushless centrifugal fan driven at 0-10 VDC

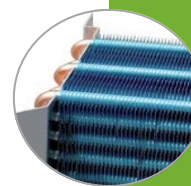
Low consumption DC Inverter indoor fan, only 10 watts

Exchangers with louvered hydrophilic fins and high efficiency 7mm diameter rifled copper pipes

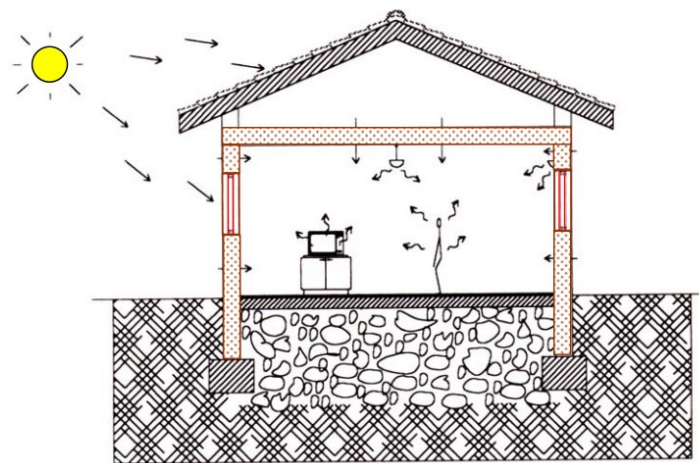
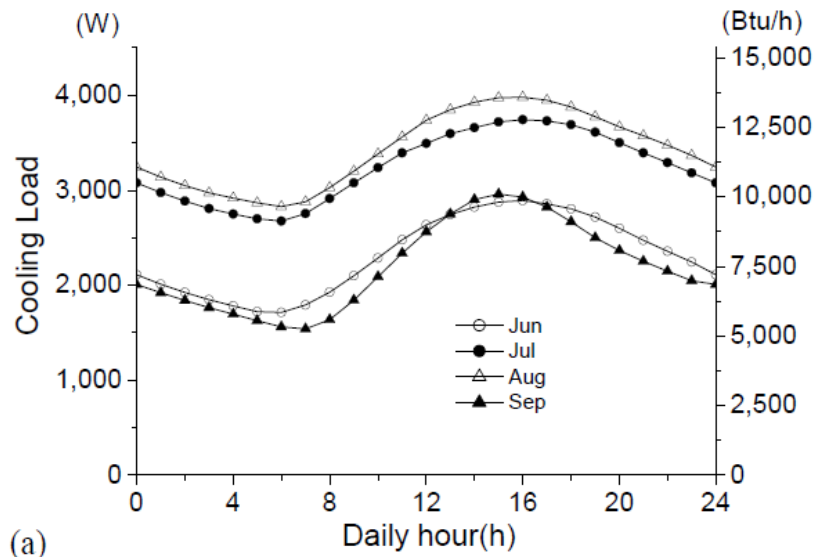


The combination of these low-consumption components guarantee a lower energy consumption in any situation of thermal load of a room.

The machine adapts to the real thermal load of the rooms by providing only the energy needed to heat it in winter or cool it in summer.



The possibility of modulating the compressor revolutions as its frequency varies and the intelligent adaptation of the air flow rates in order to always keep the SCOP and SEER heats at maximum level allow for seasonal energy savings of more than 40% compared with traditional ON-OFF compressors.

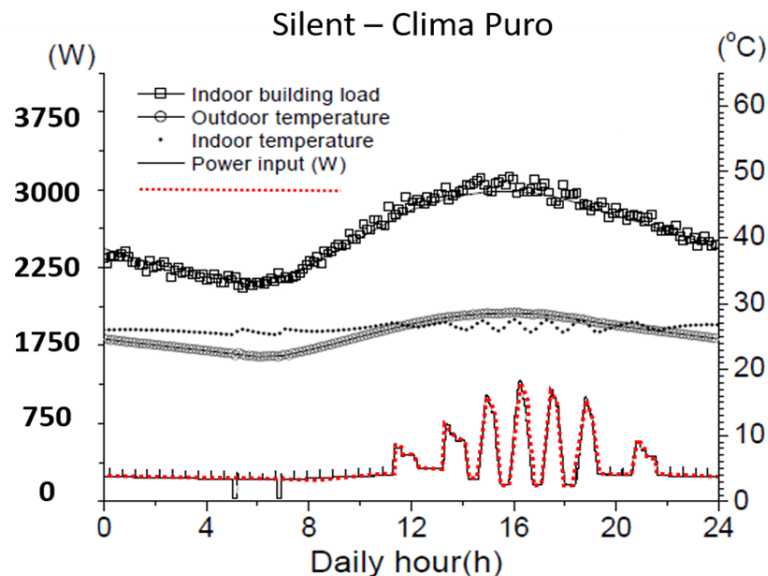
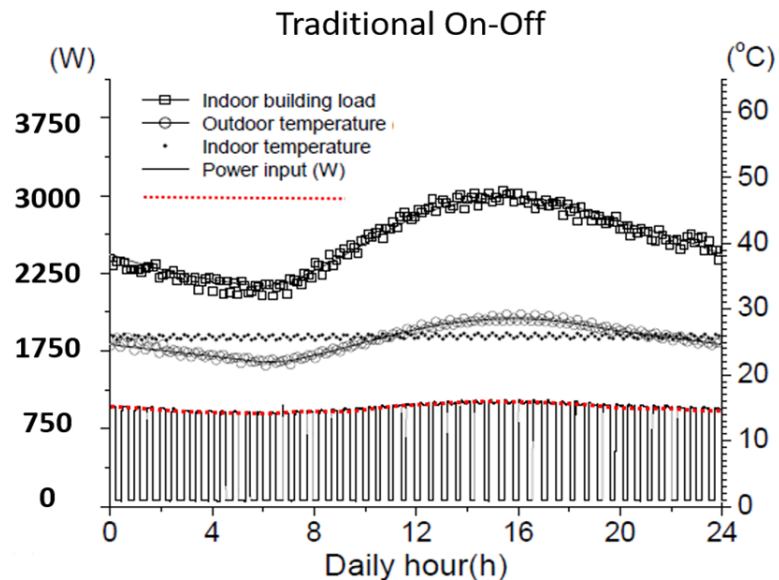


SUMMER



Summer cooling loads

In summer, the thermal load of a house is mainly influenced by solar radiation, as shown clearly in the graph on the side. Apart from the thermal phase shift and the insulation class, which depend on the construction materials of the house, during the night the thermal load is always lower than that of the central hours of the day, even amounting to 50-60%. This constitutes an advantage for the FULL DC Inverter technology used in the Silent-Silent Hybrid and Clima Puro air conditioners, since, unlike traditional ON-OFF machines, by modulating the compressor and fan revolutions, they reduce the power supplied to the advantage of energy consumption and acoustic comfort of the machine, which is extremely quiet when running at low speeds.

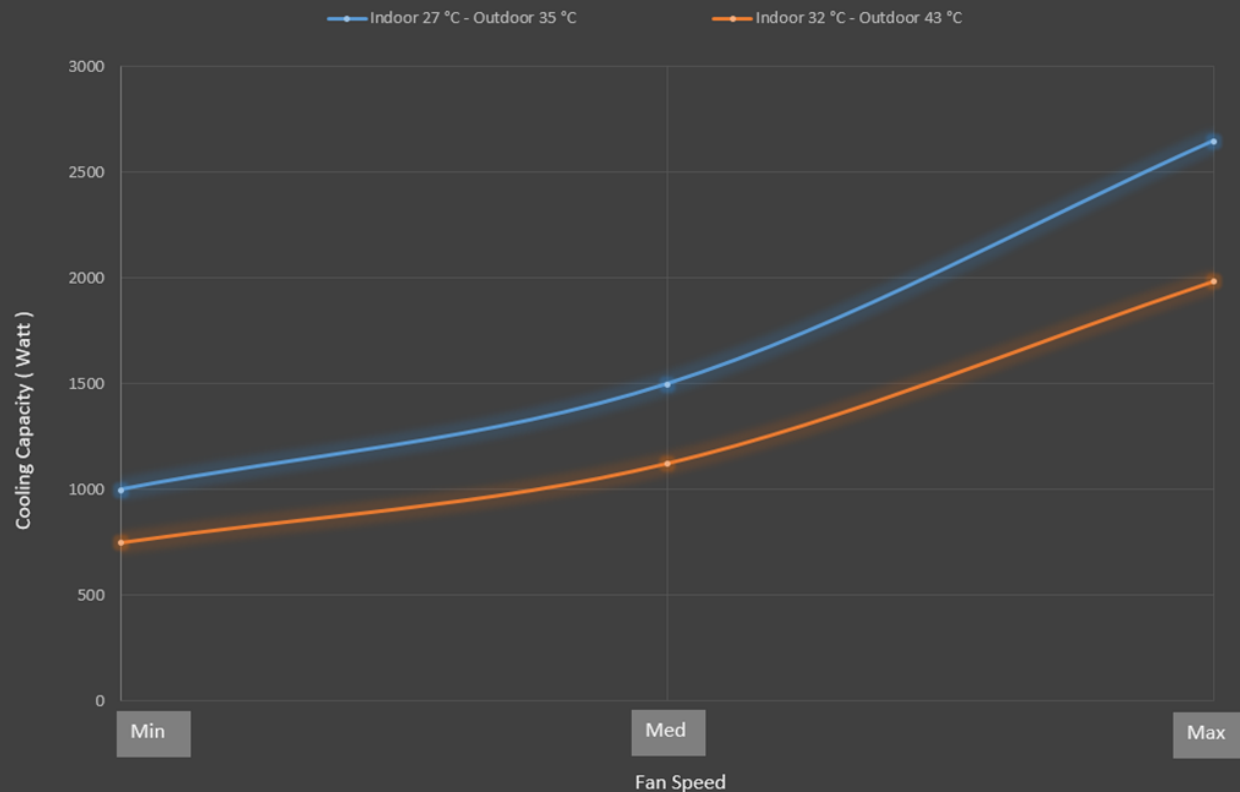


Silent — Silent Hybrid — Clima Puro have a high seasonal efficiency

The graphs above show on the left a traditional ON-OFF machine, on the right the Silent - Silent Hybrid and Clima Puro product: in the first and last hours of the day, when the cooling load is lower, the machine consumption will be much lower than the traditional ON-OFF systems. Room temperature is also controlled very well by the ON-OFF machine: the substantial difference lies in the acoustic comfort and in the average daily consumption. Using the machine for prolonged periods, both in summer and in winter, leads to an undoubted economic advantage on your electricity bill and therefore on the cost of heating your home.



Cooling Capacity



POWERFUL

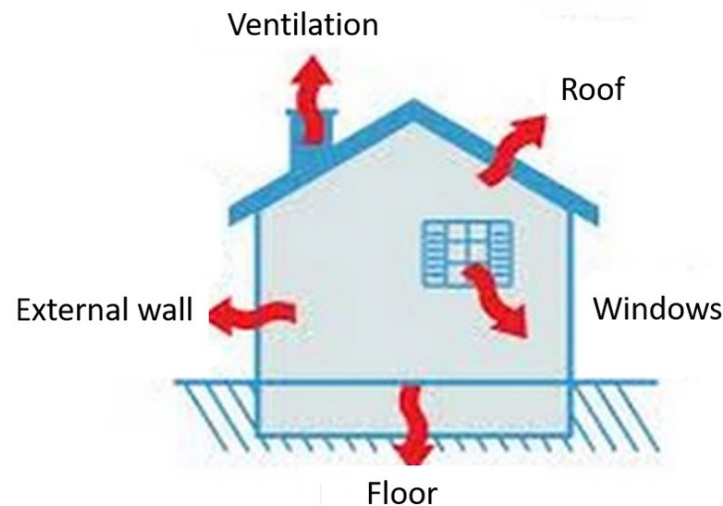
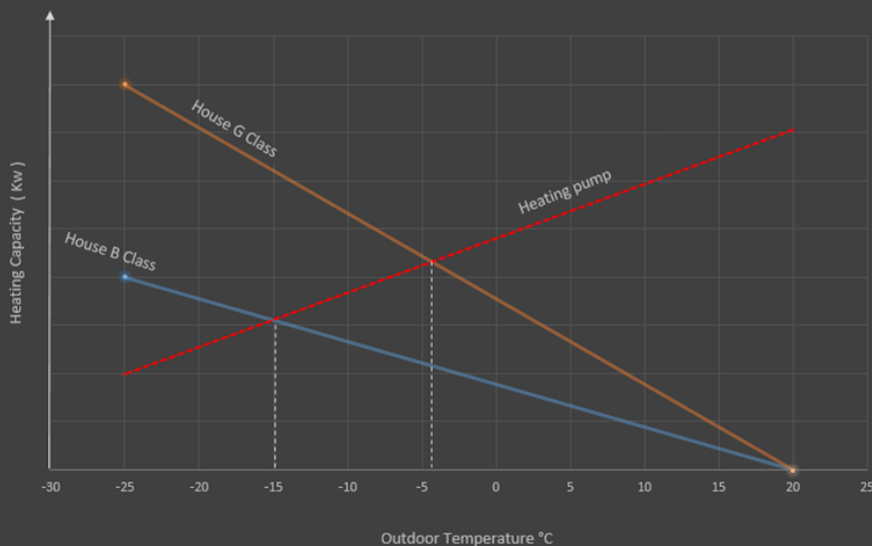
The machine modulates its cooling capacity by acting on the compressor rotation frequencies and the number of fan revolutions, as shown in the graph.

The two curves refer to two different environmental conditions, Indoor 27° and Outdoor 35°C, which are in the standard test conditions envisaged by UNI-EN 14511 and the conditions of Indoor 32°C and Outdoor 43°C, which correspond to the maximum load for the T1 European temperate climate.

It is useful to remember that the EER, and therefore SEER, value is influenced by the use of the machine at partial loads; in other words, a machine too small for the environment that needs to be air-conditioned always working at its maximum power will not save any energy compared to a traditional ON-OFF machine.



Heating load in winter time and HP air to air heating capacity

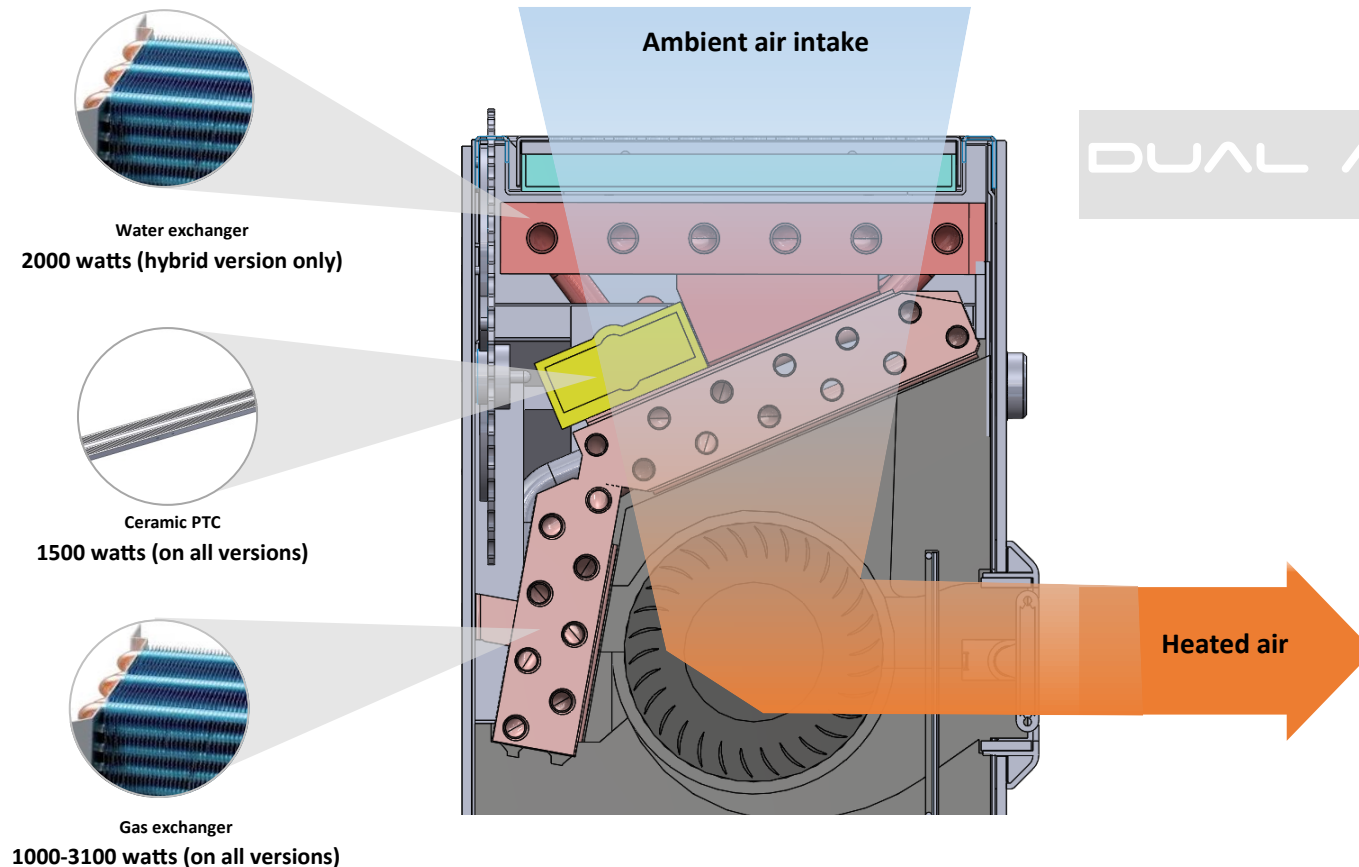


Winter dispersion of the envelope in steady state

In winter, the situation changes and, as reported in the drawing, our home will have thermal losses due to the building envelope, fixtures, ventilation and these losses will be greater the lower the outdoor temperature and will also depend on the degree of insulation. Air/air heat pumps have a heating capacity which is influenced by the outside air temperature; as the outside air temperature lowers, the thermal output of the heating pump decreases as shown in the graph. The graph also shows that there are two curves relating to a poorly insulated house, class G house, and a well-insulated house, class B house; as shown in the graph, the same heating pump is able to satisfy the thermal needs of the class B house up to -15°C outside, while for the poorly insulated house below -4°C the heating pump is no longer able to meet the needs of the house. According to this graph, it is evident that the choice of the heating capacity of our heating pump is essentially a function of the climate zone necessary to determine the minimum outdoor working temperature and the energy class of the house, two parameters necessary for calculating the heat requirement.



DUAL AND TRIAL POWER



To compensate for the drop in performance, typical of all air-source heat pumps as the outside temperature decreases, the Silent - Silent Hybrid and Clima Puro product lines are equipped with systems that enhance the heat output even in extremely cold temperatures.

- **DUAL POWER** : All versions are equipped with a 1500 watt ceramic pre-heater capable of improving the performance of the heating pump by reducing its defrosting cycles and bringing this surplus of thermal energy directly into the room.
- **TRIAL POWER** : The Silent Hybrid version is also equipped with an additional water coil, which can be connected to the boiler's heating system. This accessory allows to increase the thermal output by another 60% and to confer a high seasonal COP even at low temperatures, where heating pumps are disadvantaged.

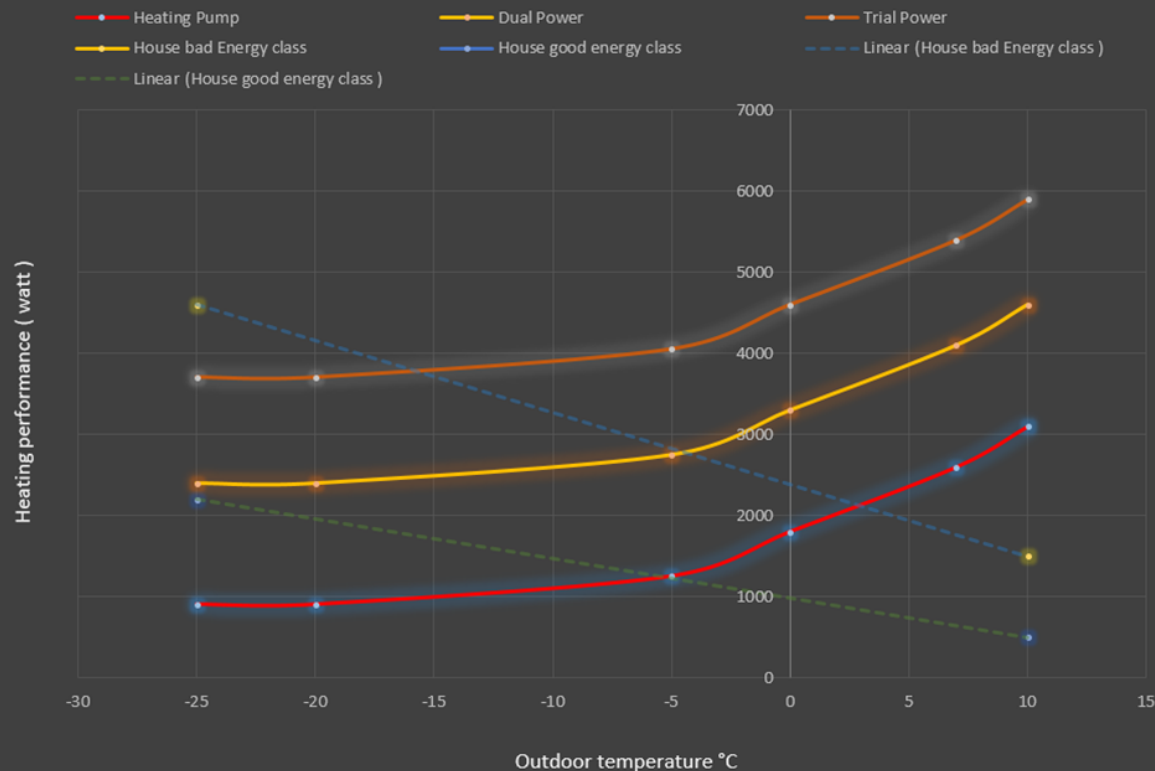


POWERFUL

The graph on the side shows the variation of the heating performance as the outdoor temperature decreases according to the activated functions.

- Heating pump only
- Dual Power: Heating pump + 1500 watt ceramic PTC heater
- Trial Power: Heating pump + PTC + 2000 watt water exchanger (on the next page is it possible to see an example of connection diagram for Clima Puro to the boiler and the heating performance in hydronic heating function.
- The two dashed lines highlight the thermal load necessary for a poorly insulated house (Class G) and a well insulated house (Class B) as the outdoor temperature varies.

Heating performance in winter

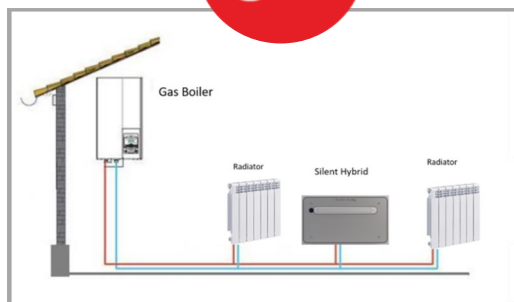


Thanks to the double coils, it
can replace the radiator

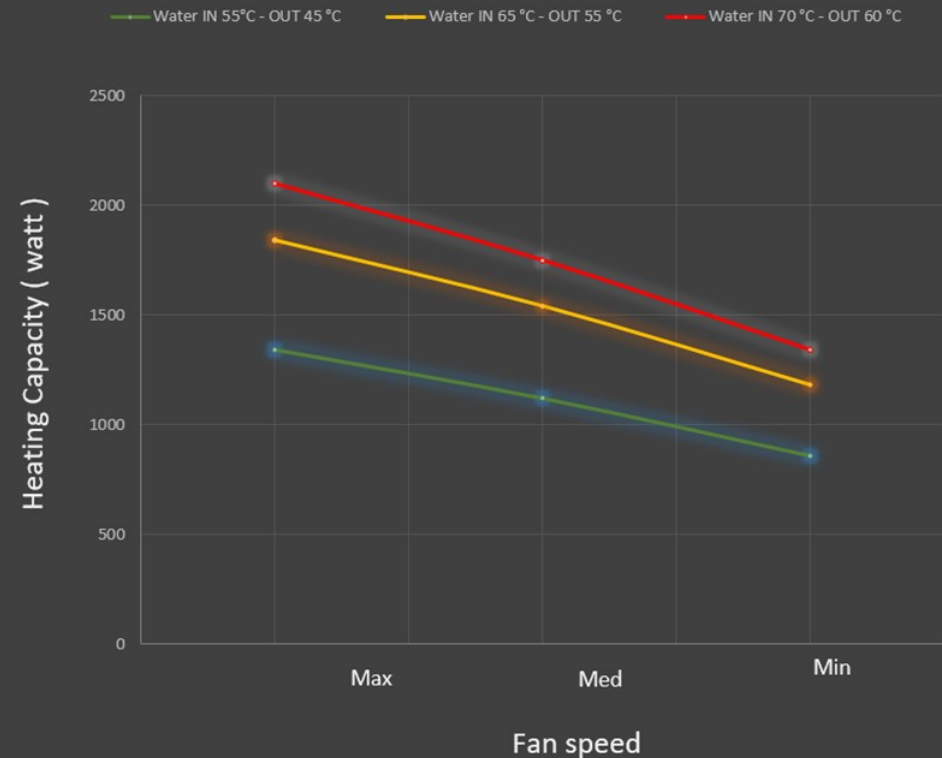
HYBRID

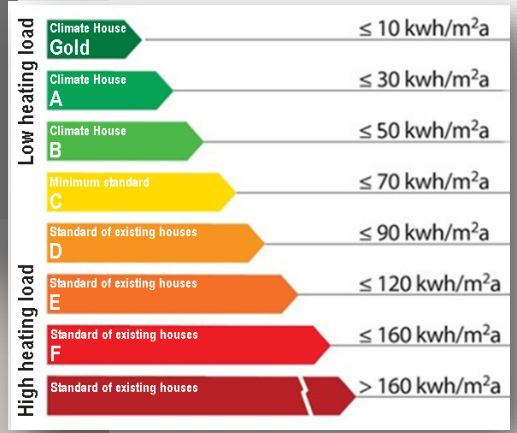
Thanks to the water function, Silent Hybrid **can replace the home radiator** and increase the heating performance of the boiler.

- Useful when the room is small with little space to install the machine: with a single product you can heat with the boiler and cool in summer with the heating pump.
- This function is also very useful when you want excellent performance even with extreme outdoor temperatures or you have large rooms to heat and the radiators are not enough.
- When the product works as fan coils in hydro-
nic heating, it is very quiet, less than 30 dB (A).



Heating capacity Water exchanger





Class G-F-E

Class D-C

Class B

ROOM SUGGESTED

The guideline below takes into account two factors, the degree of insulation of the building and the distribution of the air for ideal comfort. In other words, a very powerful machine for an environment that is too large will not give the desired comfort if the treated air fails to uniformly invest the entire required environment.

The simulation provides for positioning the product centrally in the environment to be air-conditioned.

Important note: For the correct use of the product, we advise to consult our technical office

$\leq 25 \text{ m}^2$
In Summer

$\leq 30 \text{ m}^2$
In Winter

$\leq 30 \text{ m}^2$
In Summer

$\leq 35 \text{ m}^2$
In Winter

$\leq 35 \text{ m}^2$
In Summer

$\leq 45 \text{ m}^2$
In Winter

The invisible enemies

Clima Puro is the first Clima purifier without outdoor unit, able to guarantee total comfort in residential and commercial environments thanks to an innovative and patented technology.

Unlike normal air conditioners which only heat and cool the air, Clima Puro takes care of environmental comfort and air quality by sanitising the environment where you live.

Nowadays, whether we live in large cities or in suburban areas, the air quality of indoor environments is threatened by many invisible enemies which are the cause of multiple pathologies and the cause of the so-called sick building syndrome.

Very often, this phenomenon is also present in state-of-the-art homes that use traditional air conditioning systems, which are not able to eliminate these pollutants or threats.

Clima Puro can purify the air from pollen, PM2.5 particulate matter, viruses, bacteria, reducing the risk of allergies and contamination and transmission of viruses and bacteria.

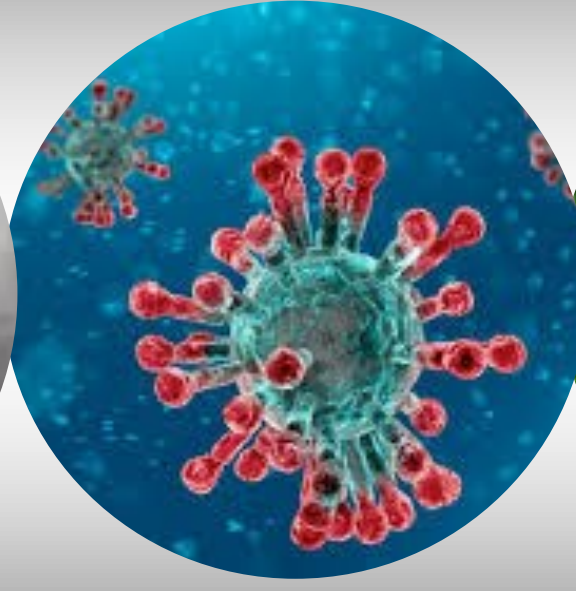
The special sanitising function also enables to sanitise the surfaces and environments where we stay within an hour.



Pollen and allergies: Pollens travel in the air and cause very annoying allergies that force people to make excessive use of antihistamines. There are over 10 million people in Italy alone suffering from allergies.



PM 2.5 particulate matter and fine dust: Caused by industrial waste, cars and traditional heating systems, such as gas boilers and in particular from biomass, pellets and wood, they cause 60,000 deaths in Italy alone.



Viruses: Viruses such as Covid-19 and flu are transmitted by air and using airborne particulate matter as a carrier (means of transport). Viruses, as everyone knows, are the cause of various diseases and pathologies which can sometimes be very dangerous.



Bacteria: Every housewife has always suspected this and now science confirms it: **house** dust is not inert matter, but teems with life. It is animated on average by 9,000 invisible “roommates” between fungi (at least 2,000 types) and **bacteria** (7,000).

PURIFICATION

≥ 96 %

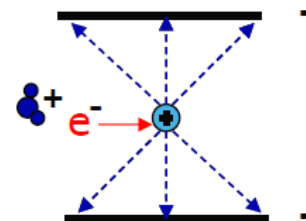


Sterilised air

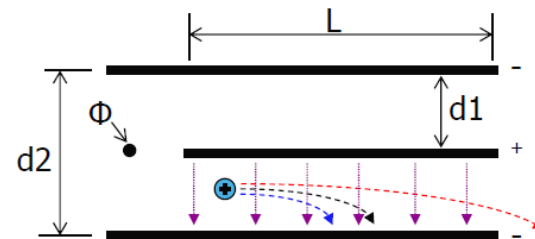
Thanks to its molecular filters, Clima Puro is able to eliminate PM2.5 particulate matter, viruses and bacteria in the first passage of air with an efficiency of over 96%. This is possible thanks to an active filtration system powered at 10,000 Volts, which destroys all pathogens at its first passage. The dust particles and viruses that pass through the ionising field are polarised and captured by collectors with opposite electric charge. The force of attraction created, called Coulomb's force, is 10^{39} times greater than the force of gravity **capable of capturing any particle** that passes through it. The high internal voltage of these filters destroys all living forms, therefore both viruses and bacteria.

Particulate matter, harmful to human health, has proven itself as a means of transport/carrier for Covid-19. A particulate-free environment is the starting point for eliminating contagion and the transmission of many diseases, from the simplest and most banal flu to severe forms of viral pneumonia.

Available only on model: Clima Puro



Ionisation of dust particles



Collection of polarised particles on the headers



PURE

Children and the elderly are the most delicate and prone to diseases related to environmental pollution.

The widespread use of biomass systems, pellets and wood, the so-called renewable sources, on the one hand has a CO₂ balance equal to zero in their life cycle; however, such renewable sources are the cause of the strong emission of fine particles into the atmosphere and more. Natural gas and LPG have a particulate emission factor lower than 0.04 g/GJ (grams per gigajoule), diesel of 0.1 g/GJ, wood of 254 g/GJ, quality pellets A1 used on high-range stoves of 23.9 g/GJ, the same pellet in low-range stoves of 44.1 g/GJ, A2 quality pellet in high-range stoves of 83.8 g/GJ and in low-range stoves of 82.9 g/GJ. In addition, small gas boilers show carbon monoxide (CO) emissions from 3 to 6 times lower than pellets and 100 times lower than wood.

As far as of nitrogen oxides (NO_x) is concerned, the values relating to the pellets are approximately 3 times those found for gas fuels and heating oil.

The values of sulphur oxides (SO_x) obtained for gaseous fuels are from 3 to 40 times lower than for pellets and from 10 to 30 times lower than for wood. As for Polycyclic Aromatic Hydrocarbons (PAHs), with special attention to Benzo(a)pyrene, the highest values were found by far on wood (68.7 g/MJ, micrograms per megajoule) and, among other fuels, on pellets (0.22 g/MJ, the A1 quality one on a high-range stove), while the concentration of the same in the fumes of natural gas and LPG boilers was not detectable (less than 0.08 g/MJ).





HEALTHY



Thanks to its molecular filtration system, Clima Puro it is able to keep the air inside the environments in which we live purified from bacteria, free of particulates and pathogenic substances.

Thanks to Clima Puro, the yearly limit value of the particulate matter ($40 \mu\text{g}/\text{m}^3$) and the daily limit value ($50 \mu\text{g}/\text{m}^3$), not to be exceeded more than 35 times/year, are kept below the level of $10 \mu\text{g}/\text{m}^3$; in other words, it is like breathing mountain air all the time.

PTAC



Window



**Compliance with the
laws of Municipalities
and Apartment
Buildings**

STOP

LAW

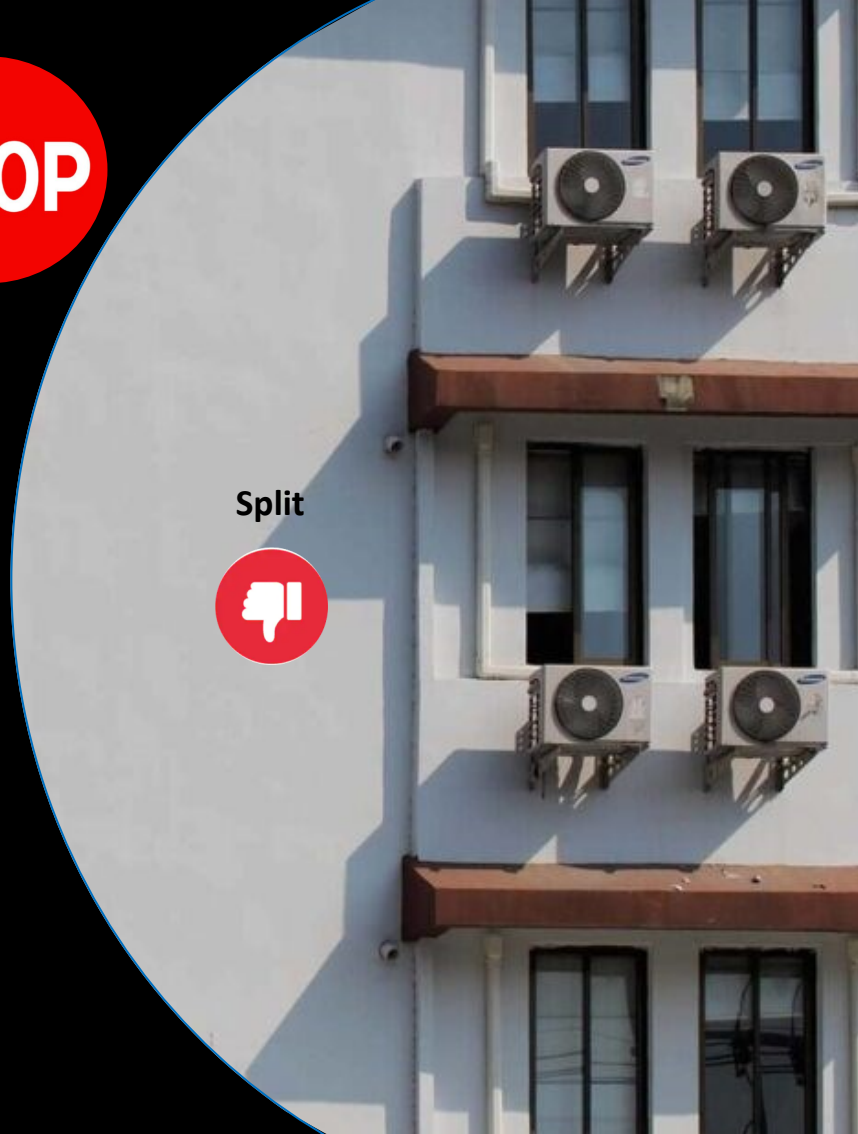
Many products intended for the air conditioning of our homes do not comply with the laws in force in apartment buildings and historic centres, in particular where outdoor décor is concerned.

This can be a problem for the end user, as they may be subject to penalties as well as the removal of the machinery.

The property, deprived of outdoor décor, suffers a depreciation of the real estate value.

In the case of PTAC and Window model machines, this type of installation involves air infiltration with relative loss of efficiency and also causes external noise to enter, especially in crowded streets and with heavy traffic.

Split





INVISIBLE

Respect for outdoor décor

Absolute outdoor décor and compliance with all municipal and apartment building laws; thanks to the invisible low-profile paintable grids, it is almost impossible to notice their presence from the outside. Ideal for historic centres and apartment buildings as well as art cities. Discover on page 41 the countless accessories that allow you to install them even in positions that were previously thought impossible.



Invisible grids



CLEAN

Clean façades, in compliance with municipal and apartment building laws. The Silent and Clima Puro lines are equipped with accessories that allow the machines to be installed in positions previously thought impossible, in total respect of building décor.



$\leq 30 \text{ dB (A)}$

SWEET DREAM

The lowest noise

The Silent and Clima Puro lines are the quietest air conditioners without outdoor unit in the category; thanks to the modulation of the compressor and fan revolutions at minimum speed, the silence level of the product is comparable to the best split or latest generation fan coils.

In hydronic heating function, the silence level is less than 30 dB (A).

In cooling and heating mode, with the compressor running at minimum speed, the silence levels



ECOLOGIC

Respect for the environment

With the issuing of the new Regulation, the prevention and containment measures to avoid the accidental emission of refrigerant gases into the atmosphere are no longer sufficient; the European Union requires greater commitment, also on the part of equipment manufacturers, in the use of refrigerants with low environmental impact.

Zymbo Italia's ongoing commitment in the creation of efficient and environmentally friendly products has led to the choice of R32 refrigerant.

The R32 gas, in addition to not being harmful to the ozone layer due to its ODP index of zero, has a GWP index one third of the gas R410-a; moreover, it is much more energy efficient and requires lower gas charges.

Silent and Clima Puro: a range of products designed to protect the environment, thanks to zero emissions and unsurpassed energy efficiency.





HOME

Home Sweet Home

The slim, sleek design, the tempered glass finishes: all these make the product an item of furniture.

The product goes well in harmony with both modern and classic environments giving a touch of class.



HOME

Home Sweet Home

Clean, simple, essential lines.

A pleasure for the eyes

Not hearing it work, thanks to its silence level, is a comfort that only the Silent and Clima Puro line can give you.


OFFICE

Ideal for offices

Its use in the tertiary sector is convenient and practical. When they turn on, they quickly bring the desired comfort to your office or your meeting room.

Even an office needs to be elegant





OFFICE

Silent

The Silent and Clima Puro lines are not only beautiful to look at; they are the ideal product for offices where a silent, efficient product is needed that can sanitise the air where many people can work together.

Thanks to its molecular filtration system, this is now possible. People who work together can count on an air purification system that drastically reduces the possibility of transmitting viruses and bacteria and sanitises the work environment and surfaces.

Discover the accessories that best suit your needs and the level of safety that you want to adopt in your office.

A modern hotel room with a large bed, a desk, and a television. The room is well-lit and features contemporary decor. The bed has white linens and a grey headboard. The desk is white with a large lamp and a small plant. The television is mounted on the wall. The floor is made of light-colored wood.

HOTELS

Hotels — B&B — Residences

The product was created to solve the needs of the HO-RECA sector.

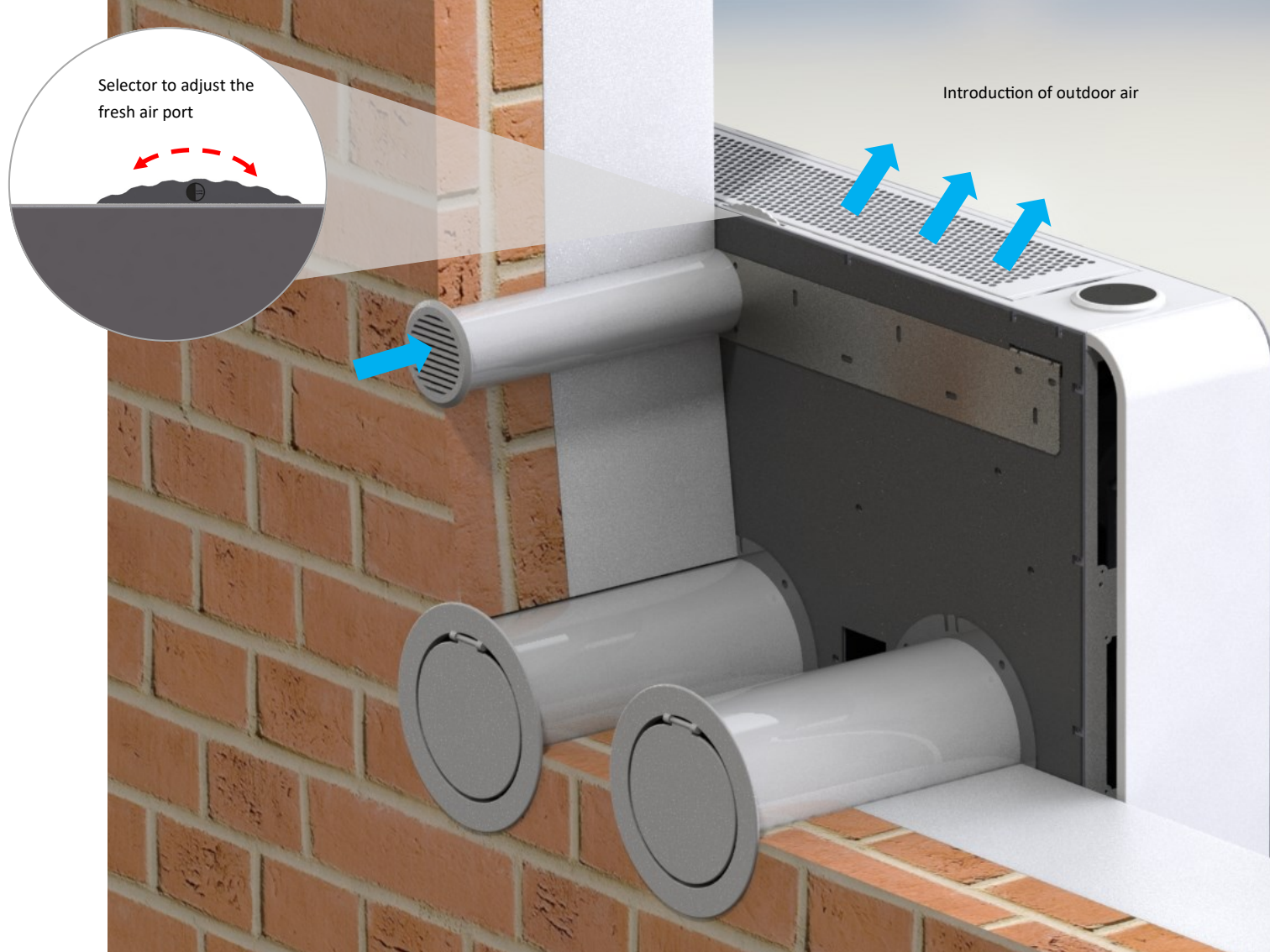
- 100% deductible operating rental
- Easy to install
- Lowest noise for the bedrooms
- Maximum energy savings
- Sanitising of air and surfaces
- Summer and winter air conditioning, a product to be used all year round.
- Wi-Fi connection for easy management from the reception of each single guest room.
- Compact, powerful and with a unique design

AIR FRESH

Air exchange

The modular renewal air intake is installed on the entire range. Through a convenient selector, it is possible to modulate the air flow from a maximum of 25 m³/h up to zero.

It is advisable to activate the air intake in areas where you are sure that the outdoor air is of good quality. In this case, the supply of fresh air from the outside serves to reduce the percentage of CO₂ (carbon dioxide) that is formed with the normal metabolic processes of humans, plants but also combustion processes such as stoves, lamps and appliances. Frequently ventilating the rooms where we stay improves the quality of the air.





NO NEED FOR THE F-GAS LICENSE

In order to install the machines without an outdoor unit with the gas circuit sealed, the F-gas license is not required

Easy to install

The operations for installing the machines are simple, as shown in the figures on the side:

1. Choose the perimeter wall where to install the machine.
2. Attach the template
3. Drill the perimeter wall and fix the support bracket
4. Hook the machine to the bracket
5. Connect the condensation drain if necessary

Average time for installation 4 hours for well-equipped personnel who are familiar with the work

SILENT HYBRID

In a few steps, you can replace the radiator in the house with the Silent Hybrid model and connect it to the boiler

Thanks to the double coils, Silent Hybrid can replace the home radiator and increase the heating performance of the boiler.

1. Choose the perimeter wall where the radiator to be replaced is installed
2. Remove the radiator
3. Attach the template
4. Drill the perimeter wall and fix the support bracket
5. Hook the machine to the bracket
6. Connect the radiator pipes to the water exchanger, it is advisable to always put taps.
7. Connect the condensation drain if necessary





CLEAN FACADE

INVISIBLE GRIDS

Easy to install

The invisible grids supplied with the Silent and Clima Puro lines allow for a clean façade in compliance with all municipal and apartment building regulations.

The grids are easy to install, as shown in the side image.

Once installed, they can be painted with the same colour of the façade, so as to be completely invisible.

Note: The invisible grids must be installed from the outside; in the case of difficult installations where external access is not allowed, it is possible to request the flexible grid that can be installed directly from the inside.

1. Wall drilling / core drilling
2. Grid fixing
3. Painting in the same colour of the façade

CLEAN FACADE



CLEAN FACADE

A modern living room interior featuring large windows with horizontal blinds, grey armchairs, a white coffee table, and a grey sofa. The room has a light wood floor and a grey rug. A large window in the background shows a view of green trees. The title 'OPTIONAL AND ACCESSORIES' is overlaid in a semi-transparent grey box.

OPTIONAL AND ACCESSORIES

The Silent and Clima Puro Line is equipped with many optional accessories to solve any installation, assembly and comfort problem that the end customer may experience.

On the next pages, a brief overview of all the available options that will make the installation experience easy, fast and economical.

WALL COMMAND

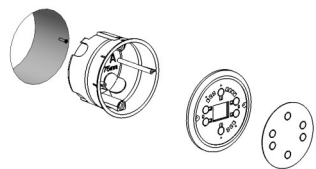
Wall command

It comes with its plastic box for installation on both traditional and plasterboard walls.

The wall command is in 12 VDC low voltage, it can also be controlled remotely for long distances.

Through this command, it is possible to manage all the functions available on the commands on the machine. The use of the wall command excludes the commands on the machine.

Particularly useful for hotel rooms together with the Wi-Fi device.



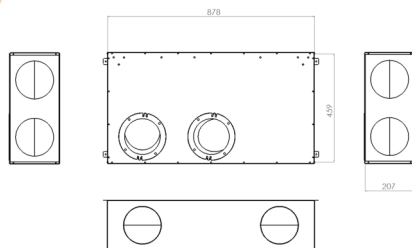
Code Acc 0003



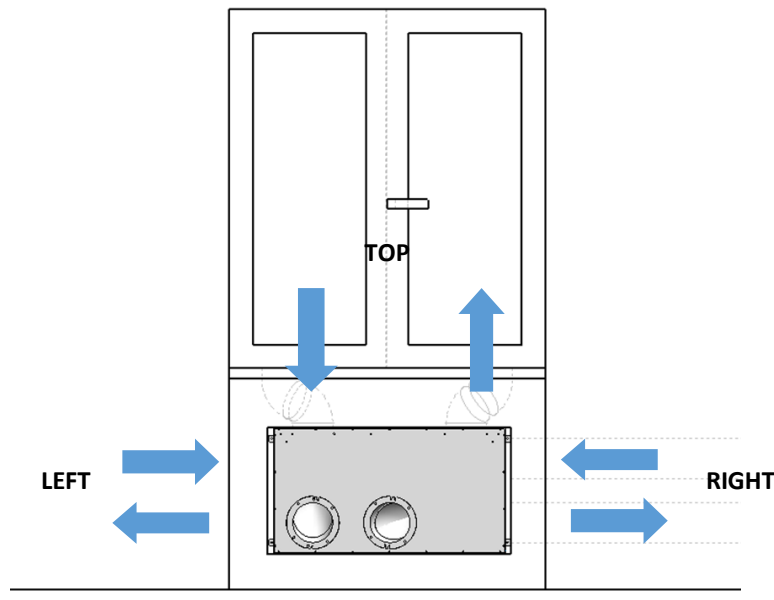
OCTOPUS

For difficult installations

Thanks to this accessory, it is possible to install the Silent and Clima Puro series on every wall of the house. The Octopus device allows air to be sucked in and expelled even from side walls and the window sill to facilitate any installation requirement.



Code Acc 0005



Air outlet from both right and left side

Code Acc 0005



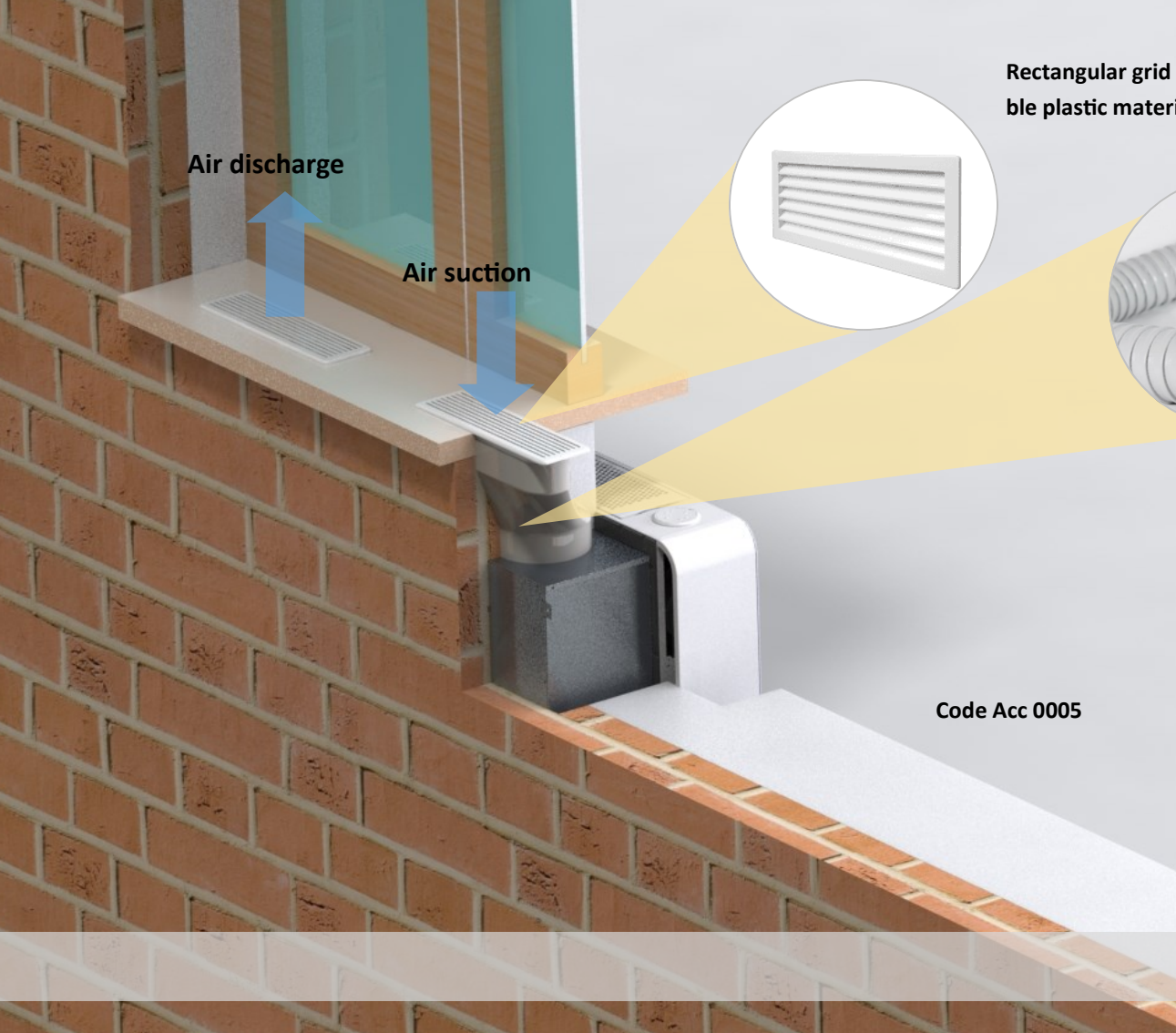
OCTOPUS

Both from the right and left side

The accessory allows installation with pipes with a maximum length of 60 cm.

In case of longer lengths, an axial-type fan with booster must be connected to the suction and delivery pipes as shown below to ensure the flow rate necessary for the condensing motion.





Air discharge

Air suction

Rectangular grid in paintable plastic material



**Ø 160 mm pre-insulated
anti-condensation hose**

OCTOPUS

Air suction and discharge on the windowsill

The accessory is equipped with all the components for installation, including insulated pipes, and low profile rectangular grids for installation on any windowsill. If installation on the façade is not allowed, we have a solution.

Code Acc 0005



Ozone

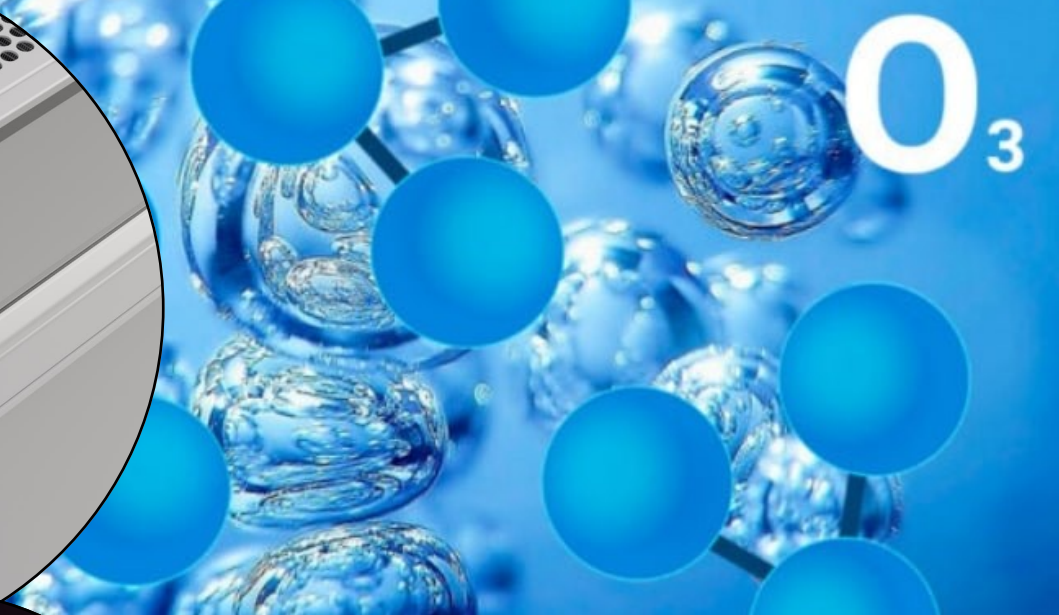
The trivalent oxygen generator known as Ozone (O₃) is supplied as an optional accessory and serves to sanitise all surfaces and the air in the environment in less than an hour.

The device is activated with a specific remote control that activates the ceramic plate powered at 10,000 Volts. The oxygen present in the air passing through it is converted by means of these discharges into triatomic oxygen with very strong oxidising power capable of destroying viruses, bacteria, mites.

Ozone has the ability to break down odour molecules, therefore it does not cover them like a normal perfumed solution and leaves a deep feeling of cleanliness in the air and in the environment.

Ozone is released into the environment until the concentration necessary to sanitise the air and the environment is reached permanently by penetrating the fabrics in the carpets and at the same time sterilising the machine inside.

Code Acc 0011



The effectiveness of Ozone

The effectiveness of Ozone has been known for many years, it is used for the sterilisation of drinking water, in the food and environmental sanitation sector and in the medical field such as Ozone therapy.

The Higher Institute of Health and the WHO have finally recognised its effectiveness.

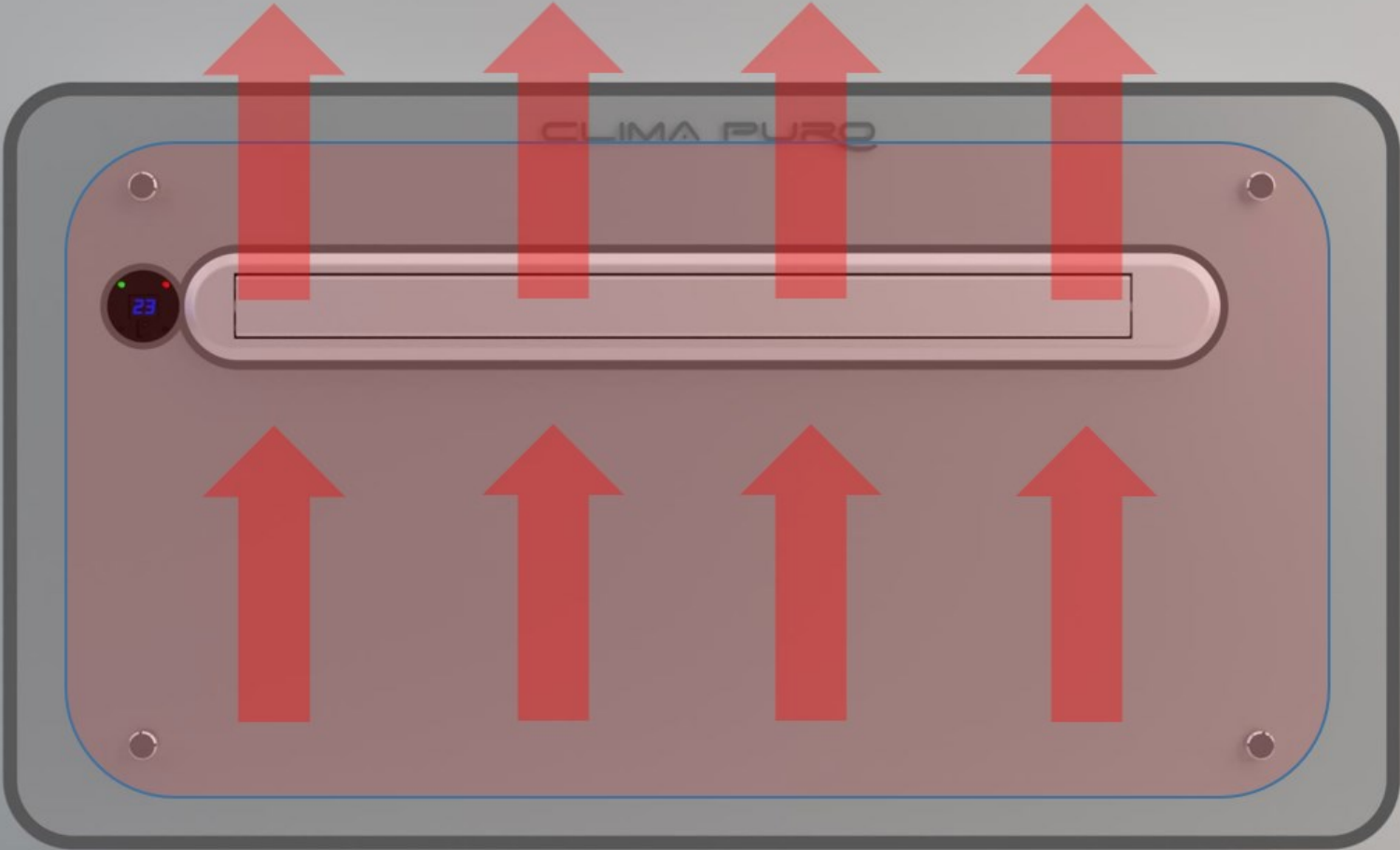
Our devices are tested in the microbiological laboratory in reference to H1N1 Virus and bacteria with more than positive results; viral and bacterial loads are neutralised in less than an hour.

Radiant panel

Available as an optional accessory. This radiant panel allows to statically heat the environment by radiation without air movement and can be used in conjunction with the PTC ceramic heater, heating pump or hydronic heating.

Its heating capacity is 150 watts and the crystal surface reaches a comfort temperature of 55-60°C.

Easy to install, easy to clean, warm to enjoy.



Code Acc 0009

FEET

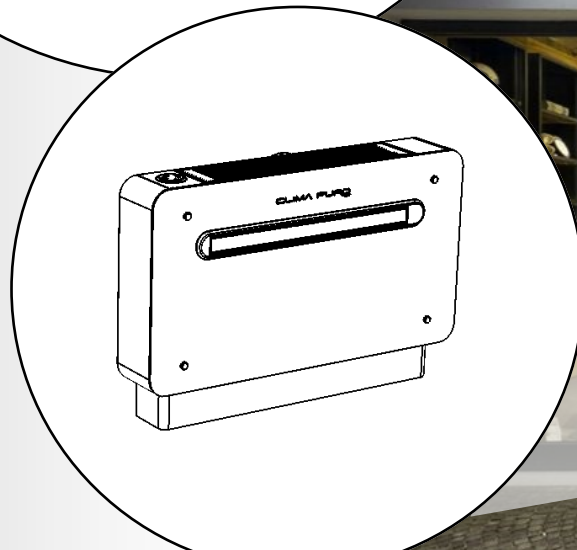
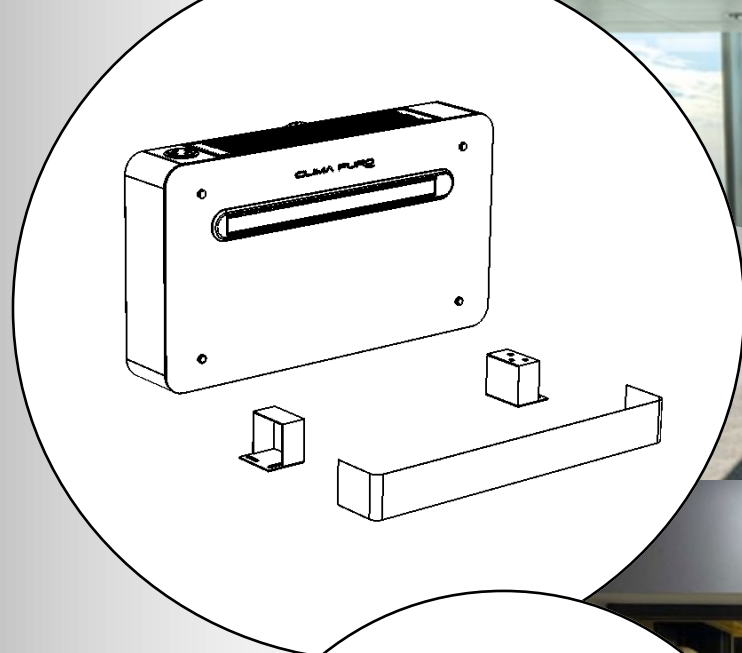
Fixing feet

This accessory is convenient when you need to install the machine in front of a window or glass wall.

In this case, the machine is fixed to the handy metal feet which in turn are fixed to the floor by means of special plugs.

A closing crankcase is also supplied with the feet to make the installation aesthetically pleasing.

Code Acc 0004



ZERO THICK

Flush mounting kit

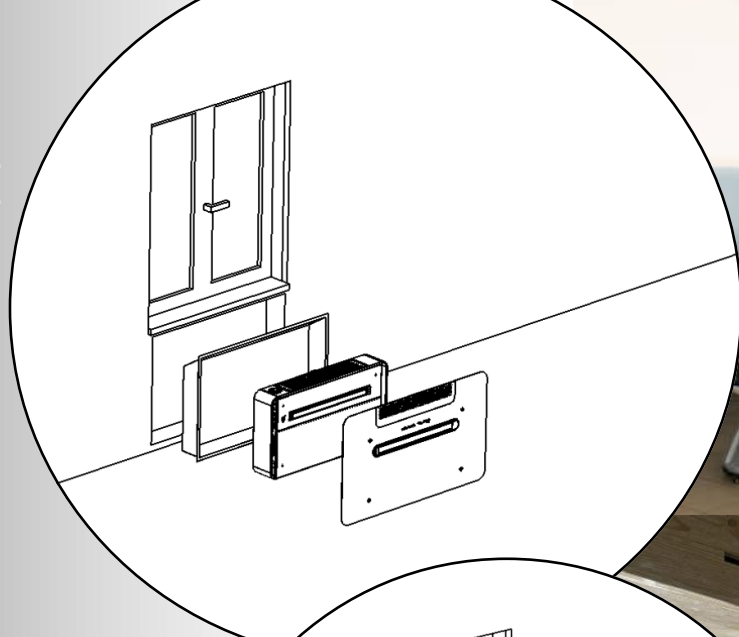
This accessory allows the machine to be installed completely flush with the wall.

The 5 mm thick crystal front panel is coupled with a 150 watt resistor to create the radiant effect.

The accessory can be useful in those environments where you do not want to see the product or you do not want it to be accessible, such as hotels, public offices, hospitals, schools and more.

The panel can be made in various materials such as pre-painted sheet metal, MDF, sublimation sheet metal.

Code Acc 0010



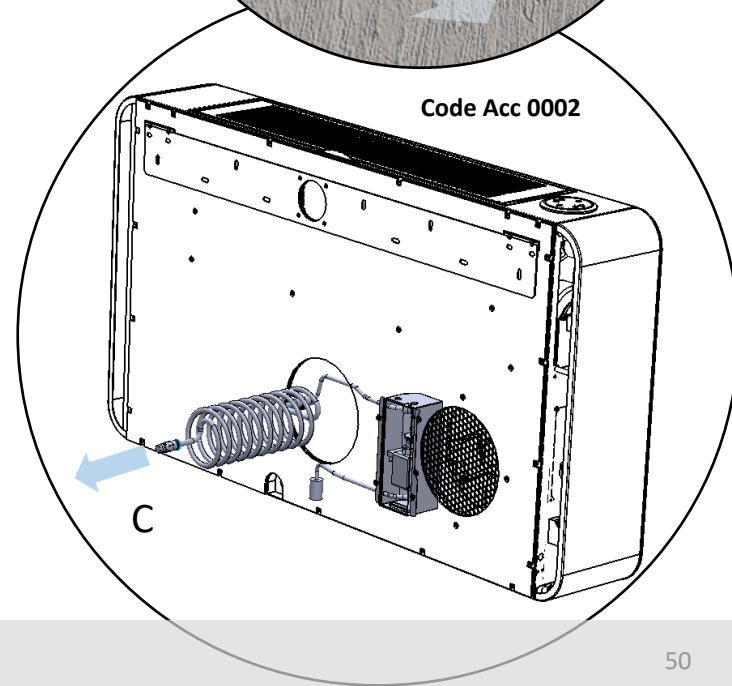
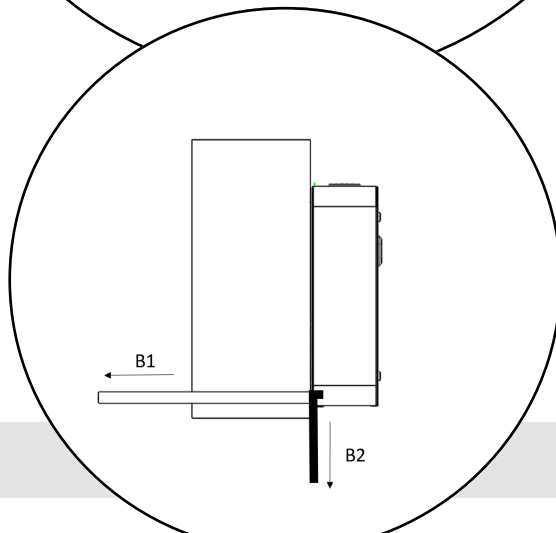
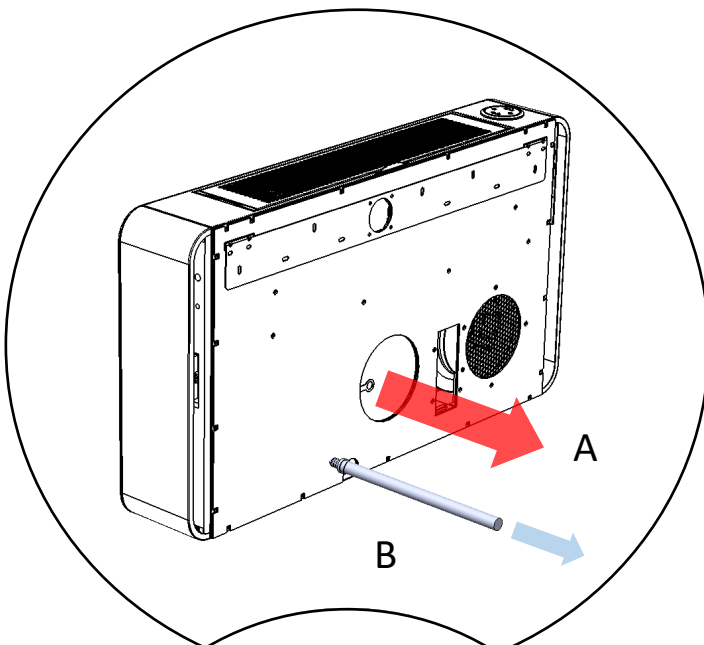
DRAINAGE

Drainage of condensed water.

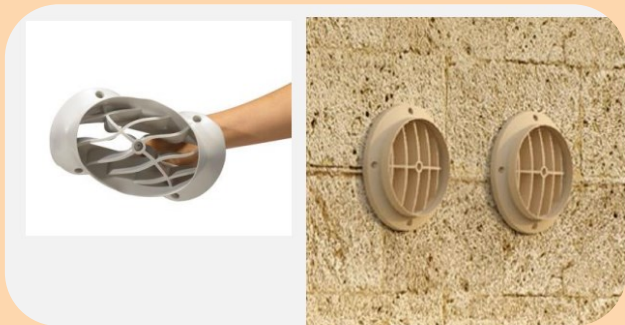
During summer air conditioning, condensation is atomised at 100% through the air discharge hole (A).

The drain pipe (B) is supplied as standard accessory, which is used to dispose of condensation in winter when the machine operates on a heating pump. For very cold climates with temperatures below zero, we recommend the internal drain to prevent it from freezing or from isolating them in the case of outdoor drains.

When it is impossible to make outdoor drains for the heating pump function, it is possible to install the optional accessory (C) which allows the misting of condensate water in the heating pump through the air discharge pipe. In this case, a high-head pump nebulises the air in the discharge pipes. Its use is recommended for temperatures above 0°C, below which the nozzle may freeze. The accessory code Acc 002 include two outdoor grill necessary to fix the spray nozzle .



Small accessories, useful when needed

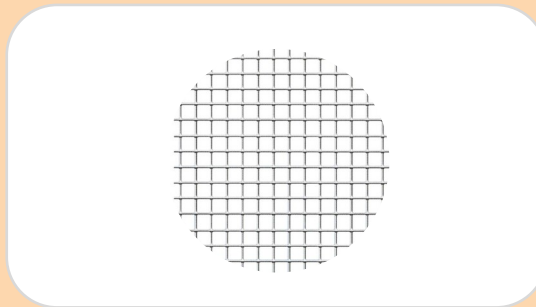


Code Acc 0006

Flexible grid in elastic material for to be installed on the wall directly from inside the room, in front of the machine.

When it is not possible to easily access the outside, this grid is particularly useful

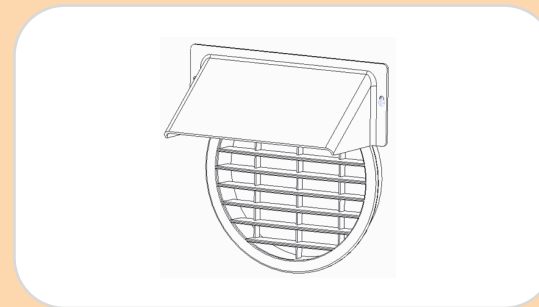
Code Acc 0008



Anti-insect net. This accessory must be combined with the flexible grid for its installation.

It is used to prevent birds or insects from making nests inside the suction and delivery pipes, which can compromise the air port and therefore the proper functioning of the machine.

Code Acc 0007



Rain cover for outdoor grids. This accessory is indicated in areas where there are heavy rains with strong winds, that may cause the water to return inside the pipes.

USEFULL WHERE NEED

TECHNICAL DATA

	Machine model	SILENT Code 021000	SILENT HYBRID Cod 021001	CLIMA PURO Code 021002
	M.U.			
Cooling power (min/max)	Kw	0.9-2.7	0.9-2.7	0.9-2.7
Heating power (min/max)	Kw	0.8-2.7	0.8-2.7	0.8-2.7
Nominal cooling capacity (1)	Kw	2.5	2.5	2.5
Nominal heating capacity (1)	Kw	2.5	2.5	2.5
Ceramic PTC heating power	Kw	1.5	1.5	1.5
Water exchanger heating power (70°C IN - 60°C OUT)	Kw	-	-	2.1
Water exchanger hydraulic connections	Inches			3/4 GAS
Water side load drop at max flow rate	Kpa			14
Nominal power absorbed for cooling (1)	Watt	750	750	750
Nominal power absorbed for heating (1)	Watt	750	750	750
Nominal energy efficiency index (1)	EER	3.2	3.2	3.2
Nominal efficiency coefficient (1)	COP	3.2	3.2	3.2
Energy efficiency class in cooling mode (1)		A+	A+	A+
Energy efficiency class in heating mode (1)		A	A	A
Supply voltage	V/Ph-Hz	230-1-50/60	230-1-50/60	230-1-50/60
Dehumidification capacity	L/h	0.7	0.7	0.7
Ambient air flow rate in cooling mode (max/mid/min)	m3/h	250-300-400	250-300-400	250-300-400
External air flow in cooling mode (max/min)	m3/h	350-400-500	350-400-500	350-400-500
Internal ventilation speed	Number	3	3	3
External ventilation speed	Number	3	3	3
Renewed air flow	m3/h	25	25	25
Wall holes diameter	mm	162	162	162
Centre to centre distance in wall	mm	293	293	293
Maximum remote control range (distance/angle)	m/°	8 / 20 °	8 / 20 °	8 / 20 °
Dimensions (W x H x D) (without packaging)	mm	1000x550x160	1000x550x160	1000x550x160
Weight (without packaging)	Kg	49	50	49
Internal sound pressure (Min Max) (at 2 meters in anechoic chamber)	db(A)	32-45	32-45	32-45
Coolant gas		R32	R32	R32
Global warming potential	GWP	675	675	675
Ozone depletion potential	ODP	0	0	0
Power cord	N° Poles x section mm2	3x2	3x2	3x2
Certifications		CE - ETL	CE - ETL	CE - ETL

Operating limits

Min. temp. in cooling ambient T 18°C / outdoor T -5°C
Max. temp. in cooling ambient T 32°C / outdoor T 43°C
Min. temp. in heating ambient T 5°C / outdoor T -10°C
Max. temp. in heating ambient T 25°C / outdoor T 18°C

Test conditions standard EN 14511

- (1) Checks in Cooling Mode
(2) Checks in Heating Mode

Outdoor temp. out
DB 35°C - WB 24°C
DB 7°C - WB 6°C

Ambient temp. in
DB 27°C - WB 19°C
DB 20°C - WB 15°C

TECHNICAL DATA

STANDARD AND OPTIONAL EQUIPMENT

Machine model	SILENT Code 021000	SILENT HYBRID Code 021001	CLIMA PURO Code 021002
DC Inverter compressor	yes	yes	yes
DC Inverter internal fan	yes	yes	yes
EC Brushless external fan	yes	yes	yes
High efficiency heat exchangers	yes	yes	yes
Automatic summer air conditioning water drainage without drainage pipe	yes	yes	yes
External air exchange intake	yes	yes	yes
1500 watt ceramic heater for harsh winter climates	yes	yes	yes
Water exchanger for radiator replacement and harsh climates	no	yes	no
Primary filtration	yes	yes	yes
Molecular filters for the elimination of viruses - bacteria and PM 2.5	no	no	yes
Installation accessories	yes	yes	yes
Installation template	yes	yes	yes
Wall fixing bracket	yes	yes	yes
Instruction booklet	yes	yes	yes
Remote control	yes	yes	yes
Water drainage pipes	yes	yes	yes
Invisible outdoor grids	yes	yes	yes
Flexible air hoses	yes	yes	yes
Wi-Fi	Optional	Optional	yes
Condensation drainage pump kit in heating mode	Optional	Optional	Optional
Wall command	Optional	Optional	Optional
Feet for floor installation	Optional	Optional	Optional
Octopus kit for difficult installations	Optional	Optional	Optional
Flexible grids for installation from inside (2 pieces)	Optional	Optional	Optional
Rain protection cover for grids (2 pieces)	Optional	Optional	Optional
Anti-insect grid (2 pieces)	Optional	Optional	Optional
Front panel with radiant effect	Optional	Optional	Optional
Radiant front panel and wall flush-mounting kit	Optional	Optional	Optional
Ozone generator for surface and air sterilisation	Optional	Optional	Optional
Container loading (20ft / 40ft / 40HC) pieces	138/282/378	138/282/378	138/282/378
Single carton box size (cm)	116 x 25 x 65	116 x 25 x 65	116 x 25 x 65
Single carton box weight	50	51	50
Pieces per pallet 80 x 120 x 210 (H) cm	6	6	6

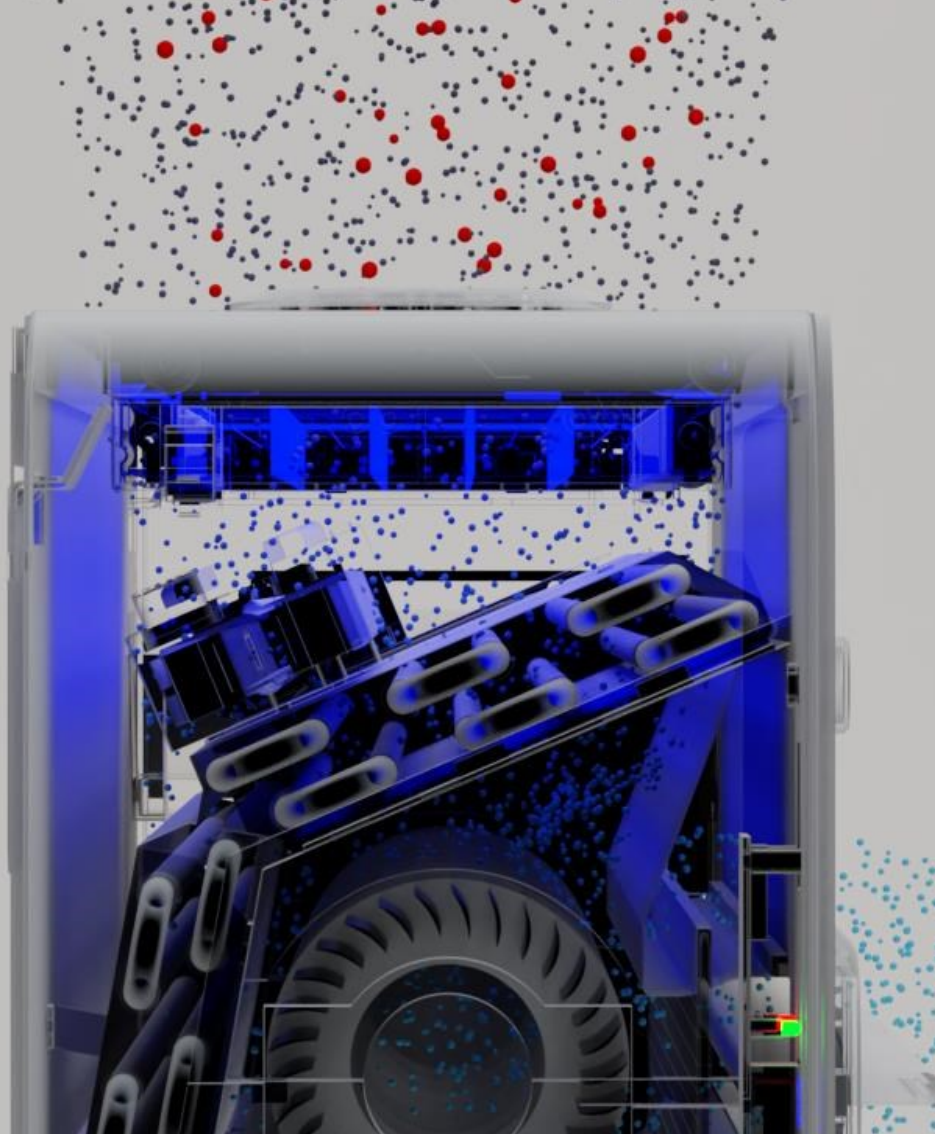
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Code Acc 0006
Code Acc 0007
Code Acc 0008
Code Acc 0009
Code Acc 0010
Code Acc 0011



SILENT

SILENT HYBRID

CLIMA PURO



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