Installation manual
(Translation of original language)

EN



Rev.01 09/2026

EVHRP LARGE H

Heat exchanger
Horizontal version

First of all, we would like to thank you for having chosen one of our units.

As you will realise, you have made a winning choice by purchasing a product that represents the state of the art in domestic air-conditioning technology.

Thanks to the product you have purchased and by following the suggestions in this manual, you will benefit from optimal environmental conditions with the lowest possible energy investment.

Compliance

This unit complies with European directives:

- Low Voltage Directive 2014/35/EU by transposition of the following technical standards: EN 60335-1:2012 + EN 60335-2-80:2003
- EMC Directive 2014/30/EU, by transposition of technical standards: EN 55014-1:2021 + EN 55014-2:2021 + EN IEC 61000-3-2:2019+A1:2021 + EN 61000-3-3:2013+A2:2021
- RoHS Directive 2011/65/EU by transposition of the following technical standards: EN IEC 63000:2018
- European ErP Ecodesign Regulation No. 1254/2014 and 1253/2014

Markings

CE UKCA

CONTENTS

Compliance 2

1. General information 4
1.1 About the manual 4
1.2 General warnings 5
1.3 Basic safety rules 5
1.4 Disposal 6

2. Product introduction 7
2.1 Identification 7
2.2 Destination of use 7
2.3 Description of the appliance 7
2.4 List of external components 8
2.5 List of internal components 9
2.6 Compatible accessories 10

3. Installation 11
3.1 Preliminary warnings 11
3.2 Reception 11
3.3 Dimensions and weights with packaging 11
3.4 Handling with packaging 12
3.5 Storage 12
3.6 Unpacking 12
3.7 Handling without packaging 13
3.8 Installation site 13
3.9 Minimum installation distances 14
3.10 Positioning 15
3.11 Condensate drain connection 16
3.12 Aeraulic connections 17
3.13 Electrical connections 23

4. Remote control 27
4.1 Installation 27
4.2 Electrical connections 28
4.3 Interface 30
4.4 Warnings 32

5. Start-up 33
5.1 Preliminary warnings 33
5.2 First start-up 33
5.3 Plant delivery 35
5.4 Switching off for extended periods 35

6. Maintenance 36
6.1 Routine maintenance 36

7. Faults and remedies 38
7.1 Preliminary warnings 38
7.2 Troubleshooting table 38
7.3 Alarm table and card flashes 39

8. Technical information 40
8.1 Technical data 40
8.2 Dimensions 42
8.3 Ecodesign classification 44

9. Wiring diagram 46
9.1 Wiring diagram for preheater and postheater electric coils with heaters . . 46
9.2 Water coil wiring diagram 47

1. GENERAL INFORMATION

1.1 About the manual

This manual was written to provide all the explanations for the correct management of the appliance.

⚠ This instruction manual is an integral part of the appliance and must therefore be kept in a safe place and must ALWAYS accompany the appliance even if it is passed on to another owner or user, or transferred to another plant. If it is damaged or lost, download a copy from the website.

⚠ Read this manual carefully before proceeding with any operation and follow the instructions in the individual chapters.

⚠ Specific warnings are given in each chapter of the document and should be read before starting operations.

⚠ The Manufacturer accepts no liability for damage to persons or property resulting from failure to observe the regulations contained in this booklet.

⚠ This document is confidential under the terms of the law and may not be reproduced or passed on to third parties without the express authorisation of the Manufactorer.

Editorial pictograms

The pictograms in the following chapter provide quick and unambiguous information necessary for the correct and safe use of the machine.

Related to safety

⚠ **High risk warning (bold text)**

- The operation described above presents a risk of serious physical injury, fatality, major damage to the appliance and/or to the environment if not carried out in compliance with safety regulations.

⚠ Low risk warning (plain text)

- The operation described above presents a risk of minor physical injury or minor damage to the appliance and/or to the environment if not carried out in compliance with safety regulations.

⛔ Prohibition (normal text)

- Marks actions that are prohibited.

ⓘ **Important information (bold text)**

- This indicates important information that must be taken into account during the operations.

In the texts

Purpose of the actions

► Actions required

Expected responses following an action

- Lists

In the figures

1 The numbers indicate the individual components.

A Capital letters indicate a combination of components and dimensions.

❶ The white numbers in black marks indicate a series of actions to be carried out in sequence.

Ⓐ The black letter in white identifies an image when there are several images in the same figure.

Pictograms on the product

Symbols are used in some parts of the appliance:

Related to safety

Read the instruction manual

Read the instructions carefully before performing any operation on the appliance.

Instruction manual

Read the information available in the technical documentation of the appliance.

Attention electrical hazard

- Warns relevant personnel of the presence of electricity and the risk of electric shock.

Recipients

User

Non-expert person capable of operating the product in safe conditions for people, for the product itself and the environment, interpreting an elementary diagnostic of faults and abnormal operating conditions, carrying out simple adjustment, checking and maintenance operations.

Installer

Expert person qualified to position and connect (hydraulically, electrically, etc.) the unit to the plant; this person is responsible for handling and correct installation according to the instructions provided in this manual and the national standards currently in force.

Service

Expert and qualified person authorised directly by the Manufacturer to carry out all routine and supplementary maintenance operations, as well as every adjustment, check, repair and replacement of parts necessary during the life of the unit.

Organisation of the manual

The manual is divided into sections each dedicated to one or more target groups.

General information

It addresses all recipients.

It contains general information and important warnings that should be known before installing and using the appliance.

Product introduction

Addressed to all recipients, contains general information on the product.

Installation and Operation

It is addressed exclusively to the installer.
Contains specific warnings and all information necessary for positioning, mounting, connecting the device and operation.

Commissioning, maintenance and troubleshooting

They are addressed exclusively to the Authorised Service Centre.
It contains specific warnings and useful information for the most common commissioning and routine maintenance.

Technical information

It addresses all recipients.
It contains detailed technical information about the appliance.

1.2 General warnings

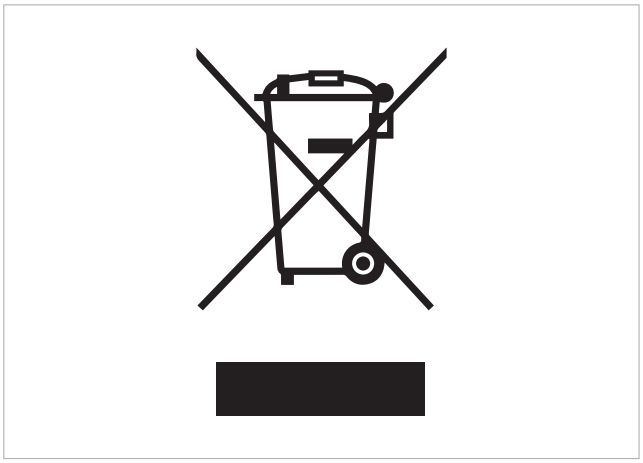
- ⚠ Specific warnings are given in each chapter of the document and should be read before starting operations.
- ⚠ All personnel involved must be aware of the operations and dangers that may arise when beginning all unit installation operations.
- ⚠ Installation performed outside the warnings provided in this manual and use of the appliance outside the prescribed temperature limits will invalidate the warranty.
- ⚠ Any contractual or extra-contractual liability for damage caused to persons, animals or property, due to installation, adjustment and maintenance errors or improper use is excluded. All uses not expressly indicated in this manual are not permitted.
- ⚠ The installation of the appliances must be carried out by a qualified company which, on completion of the work, will issue a declaration of compliance to the person in charge of the plant in accordance with the regulations in force and the instructions provided in the instruction booklet accompanying the appliance.
- ⚠ First start-up and repair or maintenance operations must be carried out by the Authorised Service Centre or by qualified personnel following the provisions of this manual.
- ⚠ Do not modify or tamper with the appliance as this can lead to dangerous situations.
- ⚠ Use suitable personal protective clothing and equipment during installation and/or maintenance operations. The Manufacturer is not liable for the non-observance of the current safety and accident prevention regulations.
- ⚠ In case of liquid or oil leaks, isolate the main power supply of the system and close any water valves. Promptly contact the Authorised Service Centre or professionally qualified personnel, and refrain from personally intervening on the equipment.
- ⚠ When replacing components, use only original spare parts.
- ⚠ The Manufacturer reserves the right to make changes to its models at any time to improve its product, without prejudice to the essential characteristics described in this manual. The Manufacturer is not obliged to add such modifications to machines previously manufactured, already delivered, or under construction.
- ⚠ The appliance can be used by children aged 8 years and above and by persons with reduced physical, sensory, or mental capabilities, or those lacking experience or necessary knowledge, provided they are under supervision or have been given instructions concerning the safe use of the appliance and understand the hazards involved. Children should not play with the appliance. Cleaning and maintenance intended to be carried out by the user should not be done by children without supervision.

1.3 Basic safety rules

We would like to remind you that the use of products that use electricity and water involves observing certain basic safety precautions such as:

- ⛔ It is forbidden to touch the appliance with wet or damp body parts.
- ⛔ It is forbidden to carry out any operation before disconnecting the appliance from the power supply by setting the plant master switch to "OFF".
- ⛔ It is forbidden to modify the safety or adjustment devices without the authorisation and instructions of the appliance manufacturer.
- ⛔ It is forbidden to pull, unplug or twist the electrical cables coming out of the appliance, even if it is disconnected from the mains supply.
- ⛔ It is forbidden to introduce objects and substances through the openings provided for the intake and delivery of air.
- ⛔ It is forbidden to open the access doors to the internal parts of the appliance without first setting the plant master switch to “OFF”.
- ⛔ It is forbidden to dispose of packaging material and leave it within reach of children as it can be a potential hazard.

1.4 Disposal



The symbol on the product or packaging indicates that the product should not be treated as normal household waste. Instead, it should be taken to an appropriate collection point for recycling of electrical, electronic, and battery equipment.
Proper disposal of this product avoids harm to humans and the environment and promotes the reuse of valuable raw materials.
For more detailed information about the recycling of this product, contact your local authority, your household waste disposal service, or the shop where you purchased the product.
Illegal disposal of the product by the user involves the application of the administrative sanctions provided for by the regulations in force.
This provision is only valid in the EU Member States.

⚠ Avoid disassembling the appliance yourself.

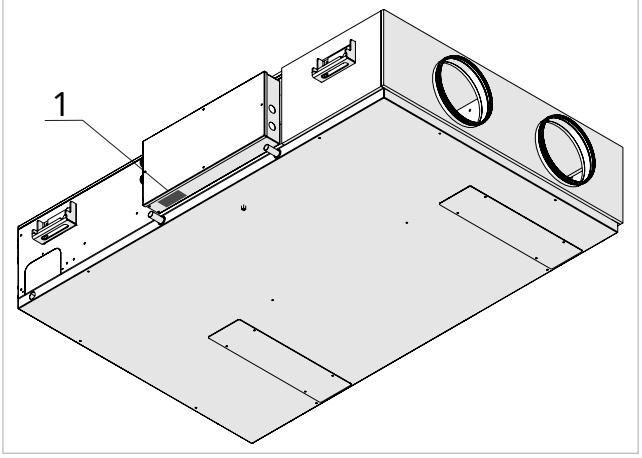
⚠ **Contact an Authorised Service Centre to disassemble the appliance.**

2. PRODUCT INTRODUCTION

2.1 Identification

The appliance can be identified by the rating plate:

1. Technical rating plate



Technical rating plate
This shows the technical and performance specifications of the appliance.

⚠ Tampering with, removing or missing identification plates does not allow the product to be reliably identified by its serial number and therefore invalidates the warranty.

2.2 Destination of use

This appliance is a ventilation unit complete with heat recovery unit dedicated to changing air without wasting energy. The unit is particularly suitable for single family units, flats and in all cases where the nominal flow rates for air exchange do not exceed 500 m^3/h.

The unit is designed for installation inside buildings protected from the weather in a horizontal ceiling position with ducted air distribution.

2.3 Description of the appliance

Structure: self-supporting sheet metal with high-density expanded polyethylene insulation and internal thick galvanized sheet-metal panels

Heat exchanger: counter-current type. Sensible version in polypropylene, enthalpic version with breathable membranes.

Fans: Brushless DC fans regulated by inverters allow high levels of comfort and energy efficiency with constant flow function.

Filters: EPM1 filter on fresh air and extract air with low pressure drop. Easily removable for routine maintenance.

Versions:

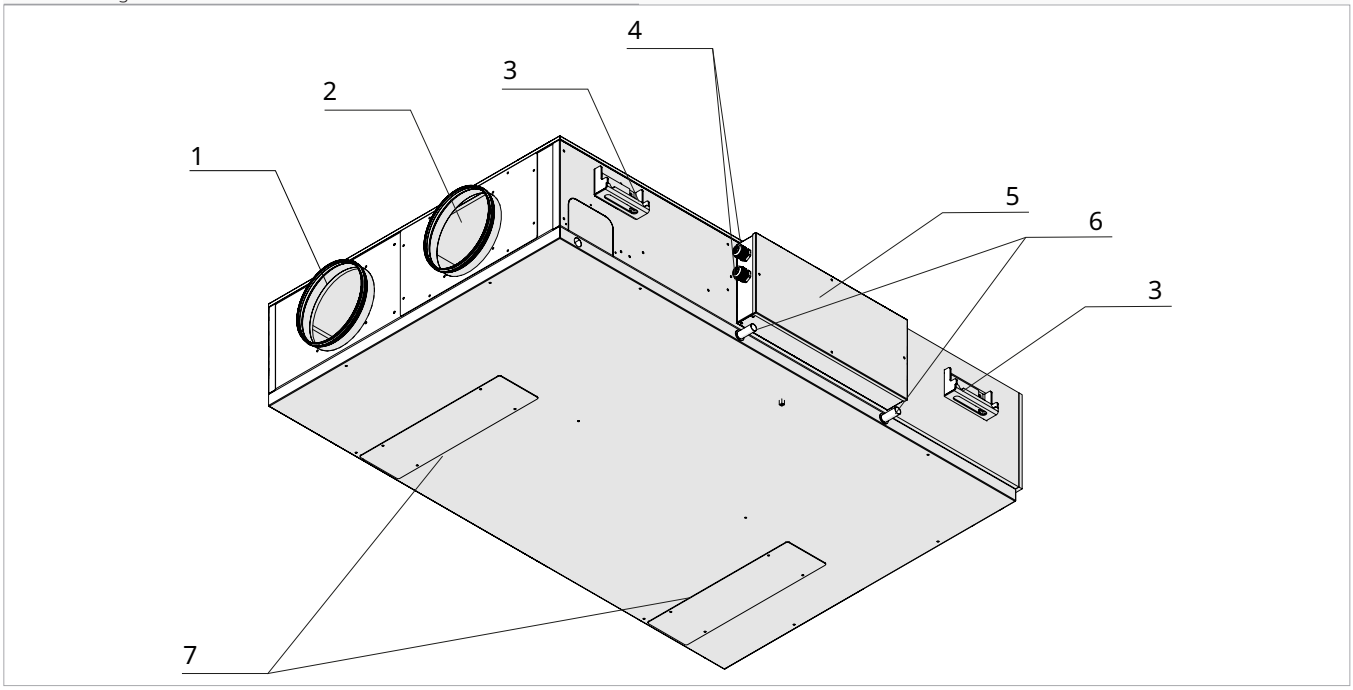
- with sensible heat exchanger
- X with enthalpy heat exchanger

Configurations: the unit is configurable in air flows according to the position of the room side and the outdoor side.

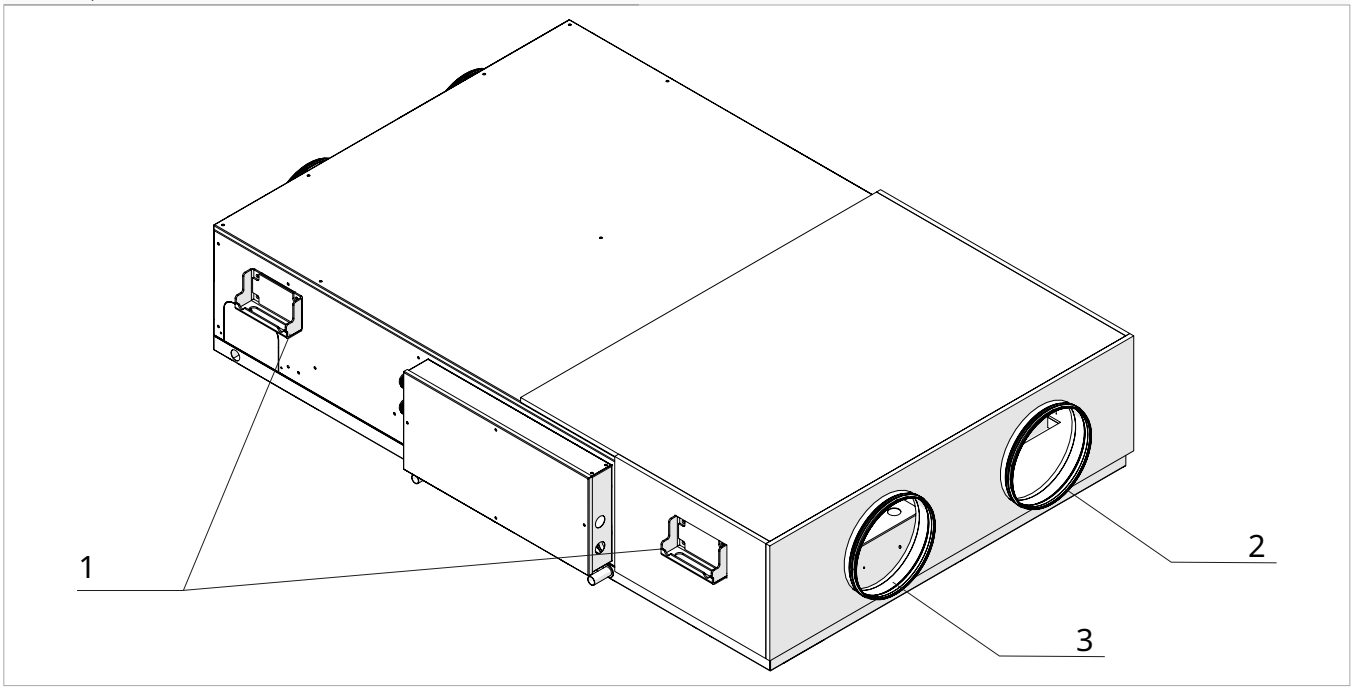
- A factory configuration
- B configuration modifiable on site

2.4 List of external components

1.	Fresh air inlet (configuration A) / Room air return (configuration B)
2.	Stale air exhaust (configuration A) / Room air supply (configuration B)
3.	Fixing bracket
4.	Electrical connection passage
5.	Electrical panel
6.	Condensate drain
7.	Filter access hatch

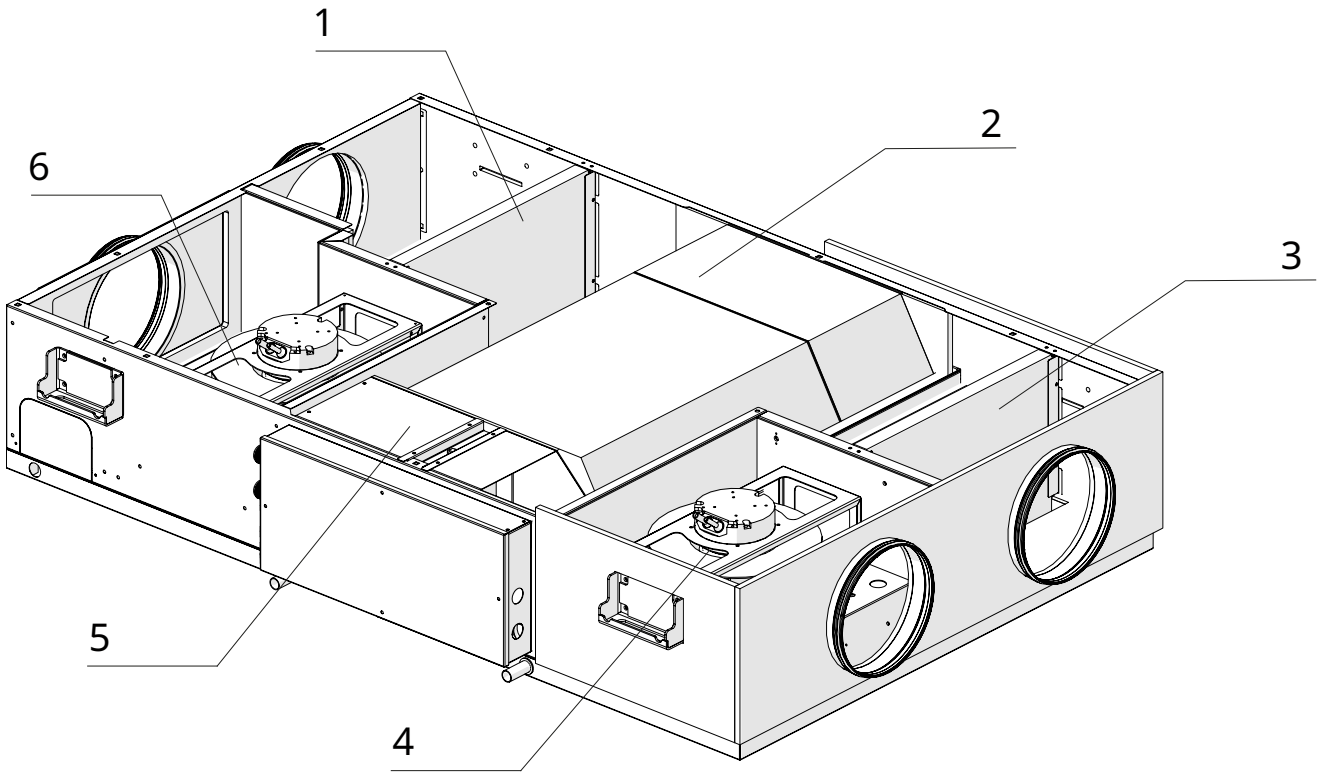


1.	Fixing bracket
2.	Room air return (Configuration A) / Fresh air inlet (Configuration B)
3.	Room air supply (Configuration A) / Stale air exhaust (Configuration B)

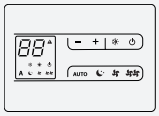
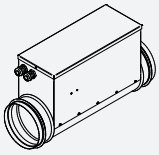
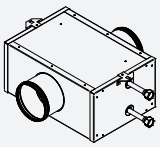
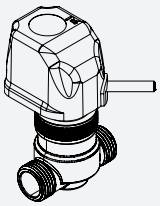
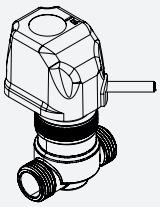
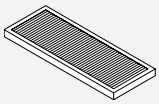
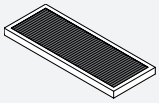


2.5 List of internal components

1.	Outdoor air filter (Configuration A) / Return air filter (Configuration B)
2.	Heat exchanger
3.	Room return filter (Configuration A) / Fresh air filter (Configuration B)
4.	Exhaust fan
5.	Bypass
6.	Supply fan



2.6 Compatible accessories

Description		Code
Commands for IN2 versions		
	Smart touch electronic wall control panel with integrated sensors T/RH/VOC/CO_2 integrated Wi-Fi module in BLACK	REA0000060
	Smart touch electronic wall control panel with integrated sensors T/RH/VOC/CO_2 integrated Wi-Fi module in WHITE	REA0000050
	Smart touch electronic wall control panel with integrated T/RH/VOC/CO_2 sensors integrated Modbus communication module in BLACK	AR01000100
	Smart touch electronic wall control panel with integrated T/RH/VOC/CO_2 sensors integrated Modbus communication module in WHITE	AR01000110
Auxiliary electrical coils		
	BE1 = External On/Off electric pre-heating coil	REQ5002010
Auxiliary water coils		
	BAF1 = Water post-cooling coil	REQ3003220
Valves for water coils		
	2-way 1/2" On/Off motorized zone valve	REF9000150
	3-way 1/2" On/Off motorized zone valve	REF9000250
Spare filters		
	FDR - Replacement filter kit	REH7005100
Active carbon spare filters		
	FCA- Activated carbon filter	

3. INSTALLATION

3.1 Preliminary warnings

⚠ **For detailed information on the products, refer to chapter "Technical information"** *p. 40***.**

⚠ The installation must be carried out by the installer. There is a risk of refrigerant or water leakage, electric shock or fire if the installation is not performed correctly.

⚠ During installation, it is necessary to observe the precautions mentioned in this manual, and on the labels affixed to the inside of the appliances, as well as to take every precaution suggested by common sense and the safety regulations in force at the place of installation.

⚠ Using only the supplied installation-specific components is recommended. Use of alternative components could lead to refrigerant or water leakage, electric shock or fire.

⚠ Failure to apply the indicated rules may cause malfunctions of the appliance and relieves the Manufacturer from any warranty and from any damage caused to persons, animals or property.

3.2 Reception

Preliminary warnings

⚠ Upon receipt of the package check that it is not damaged, otherwise accept the goods with reservation, producing photographic evidence of any damage.

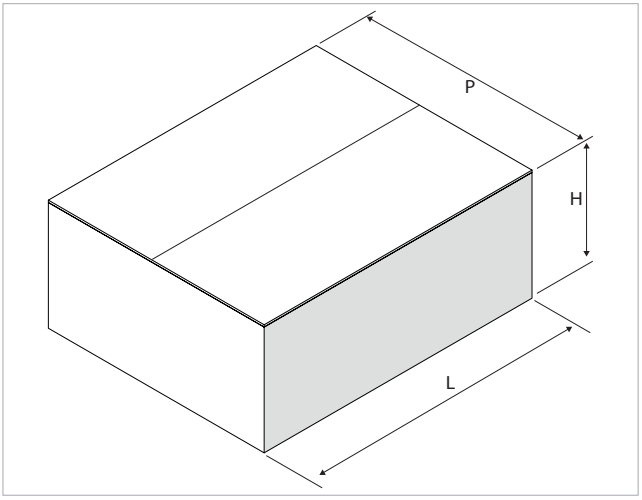
⚠ In the event of damage, notify the shipper by registered mail with return receipt within 3 days of receipt. Presenting photographic documentation, similar information should also be sent by email to the Manufacturer.

⚠ No reports of damage will be taken into account later than 3 days after delivery.

Package description

The packaging is made of suitable material and carried out by experienced personnel.
The units are all checked and tested and are delivered complete and in perfect condition.
The appliance is shipped in standard packaging consisting of a cardboard box and a set of polystyrene foam protectors, placed on a wooden pallet and secured with straps.

3.3 Dimensions and weights with packaging



Models	u.m.	600H-Sensible	600H-Enthalpic
Packaging dimensions			
Width	mm	1.635	1.635
Length	mm	1.110	1.110
Height	mm	375	375
Weight	kg	65,0	65,0

3.4 Handling with packaging

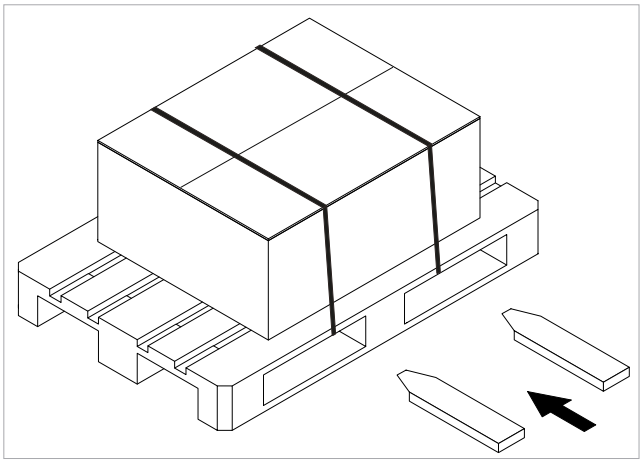
Preliminary warnings

⚠ The product should only be handled by qualified personnel, adequately equipped, and using tools suitable for the weight and dimensions of the product.
⚠ Before each handling operation, check the lifting capacity of the machinery used in accordance with the indications on the packaging.
⚠ When the load is lifted from the ground, stay clear of the immediate and surrounding area.
⚠ Check the information on the packaging for the amount of stackable packages.
⚠ In manual operations, the maximum weight per person required by current legislation must always be observed.

Handling

With pallet:

► use a forklift



Without pallet:

► use a forklift
⚠ The unit can only be moved manually for short trips in exceptional cases. In this case it is necessary to carefully check that the weight of the unit does not exceed what is stipulated by the regulations with respect to the number of persons employed.

3.5 Storage

Preliminary warnings

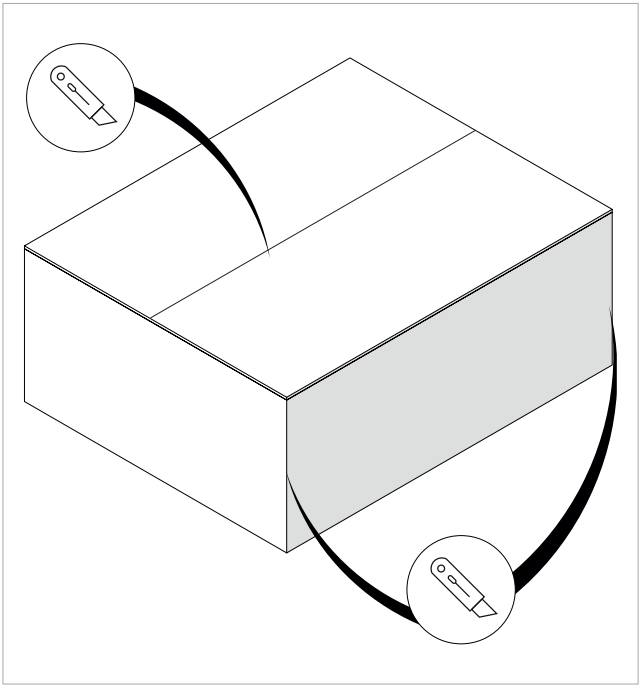
⚠ Stored in accordance with the applicable national regulations.
⚠ Store in a closed environment protected from the weather, off the ground by means of sleepers or pallets with temperatures not below 0 °C, up to a maximum of 40 °C.

3.6 Unpacking

Preliminary warnings

⚠ Check that the individual components are present.
⚠ Check that no components were damaged during transport.
⚠ Dispose of the packaging components following the applicable waste disposal regulations. Check for disposal arrangements with your local authority.
⚠ Handle with care.
⚠ The device must always be moved in a horizontal position.
⛔ The packing material (cardboard, staples, plastic bags, etc.) must not be dispersed or abandoned in the surrounding environment and must be kept out of reach of children due to risk of hazard.

Removing the packaging



To remove the packaging:

► Use a cutter

► Open the cardboard packaging

ⓘ To aid removal of the product, also cut the vertical edges.

► Remove the accompanying components

► Remove the polystyrene elements

► Remove the appliance from the box

Accompanying material

They are included with the appliance, inside the packaging:

- Control panel user manual
- Installer manual
- Energy efficiency label
- Configuration B label
- 4-piece insulation

⚠ Check the presence of the individual components.

3.7 Handling without packaging

Preliminary warnings

⚠ The unit must be handled using non-slip gloves.

⚠ The product should only be handled by qualified personnel, adequately equipped, and using tools suitable for the weight and dimensions of the product.

⚠ Before each handling operation, check the lifting capacity of the machinery used in accordance with the indications on the packaging.

⚠ When the load is lifted from the ground, stay clear of the immediate and surrounding area.

⚠ Check the information on the packaging for the amount of stackable packages.

⚠ In manual operations, the maximum weight per person required by current legislation must always be observed.

Movement methods

► Remove a fork lift, scaffolding or other suitable lifting system

⚠ The unit can only be moved manually for short trips in exceptional cases. In this case it is necessary to carefully check that the weight of the unit does not exceed what is stipulated by the regulations with respect to the number of persons employed.

3.8 Installation site

The location of the appliance must be determined by the plant engineer or a competent person and must take into account both purely technical requirements and any national/local legislation in force.
The appliance is intended to be installed indoors in a horizontal position fixed to the ceiling.

⚠ The installation position must be chosen close to a wall connected to the outside.

⚠ The appliance is declared IPX0 protected, therefore not suitable for installation outdoors or in rooms with the presence of water (swimming pool, etc.).

Preliminary warnings

⚠ Avoid installing the unit in the vicinity of:

- obstacles or barriers that cause recirculation of the exhaust air
- narrow places where the sound level of the appliance can be enhanced by reverberations or resonances
- environments with the presence of flammable or explosive gases
- very damp environments (laundries, greenhouses, bathrooms with high humidity, etc.) to prevent the formation of condensation on the external panels of the unit
- environments with the presence of flammable or explosive gases or flammable fluids
- solar radiation and proximity to heat sources

⚠ **Pay particular attention when installing near the sea. Salt-laden atmospheres can cause corrosion and**

oxidation of internal components, compromising the unit's operation.

⚠ Avoid placing the unit within 1 metre of radio and video equipment.

⚠ Do not install above heat sources.

⚠ Ensure that:

- the installation site of the unit must be chosen with the utmost care to guarantee adequate protection from shocks and consequent damage
- the supporting surface is capable of supporting the weight of the appliance
- the supporting surface does not affect load-bearing building elements, piping, or power lines
- the functionality of load-bearing elements is not compromised
- there are no obstacles to the free circulation of air through the holes (plants, leaves...)
- the appliance must be installed in a position where it can be easily serviced
- the safety distances between the units and other appliances or structures are scrupulously respected so that the air entering and leaving the fans is free to circulate

⚠ If the unit is installed incompletely or on an unsuitable surface, it could cause damage to persons or property if it becomes detached.

⚠ The appliance must not be in a position where the air flow is aimed directly at a person.

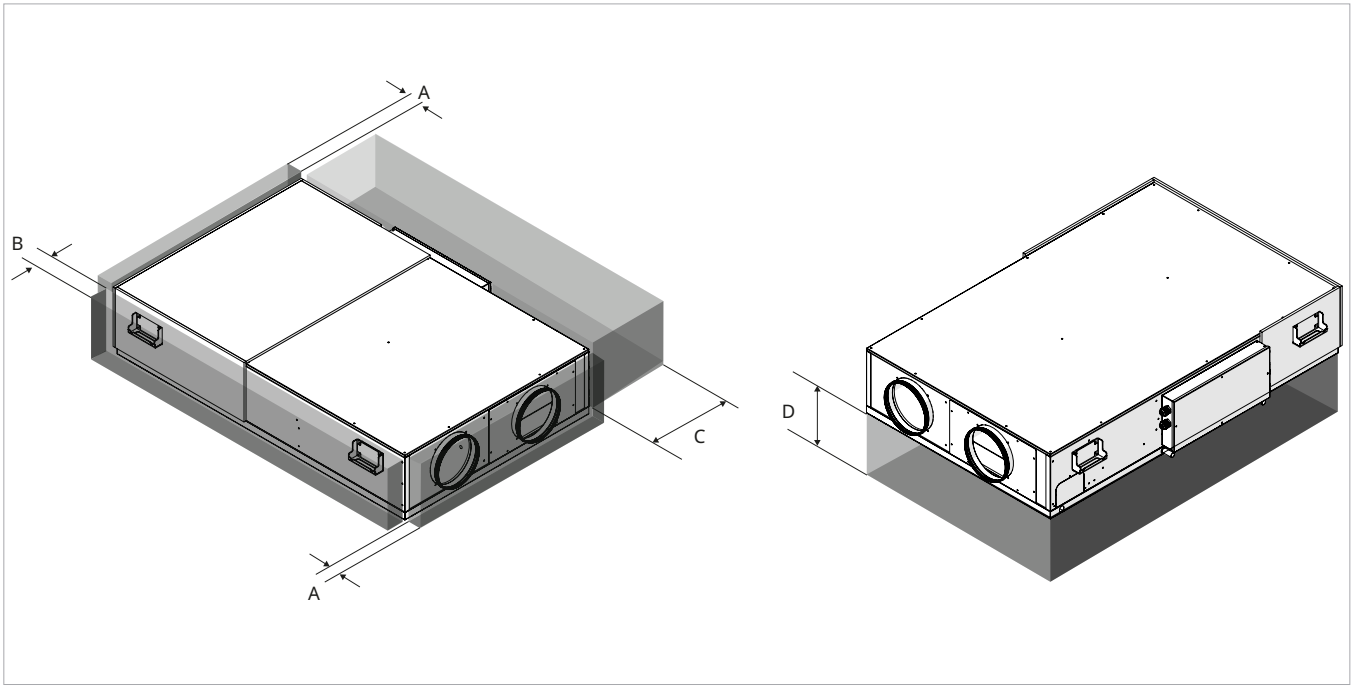
⚠ Provide the following:

- a drain nearby for the outflow of condensation
- a compliant power supply nearby

3.9 Minimum installation distances

The clearance zones for the installation and maintenance of the appliance are shown in the figure below. Established spaces are necessary to avoid barriers to airflow and allow for normal cleaning and maintenance.

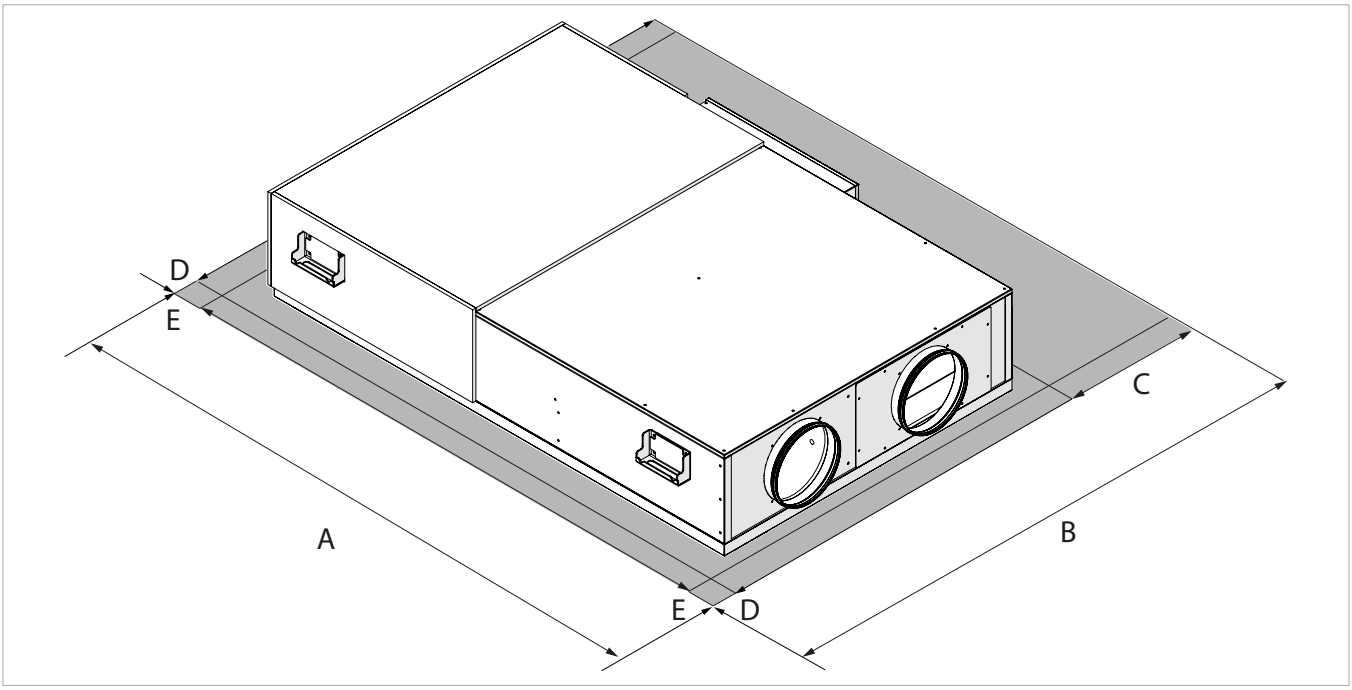
⚠ Make sure there is enough space to allow the panels to be removed for routine and extraordinary maintenance operations



Models		u.m.	600 H
Minimum distances			
A		mm	50
B		mm	50
C		mm	300
D		mm	400

Hatch dimensions

⚠ For installation in a ceiling, it is mandatory to create an access hatch for the inspection and maintenance of the device.



Models	u.m.	600 H
Hatch dimensions		
A	mm	1.511
B	mm	1.315
C	mm	300
D	mm	50
E	mm	50

3.10 Positioning

Preliminary warnings

The unit must be installed to a secure structure above the unit.

⚠ Check that:

- the surface supports the weight of the appliance
- the surface does not affect piping or power lines
- the functionality of load-bearing elements is not compromised

Drilling the outside wall

The external wall must be prepared with holes for air ducting.

To drill the holes:

► mark the position of the hole

► use a drill

► drill a guide hole

► use a core drill

► make a hole through the wall

► maintain a downward slope towards the outside

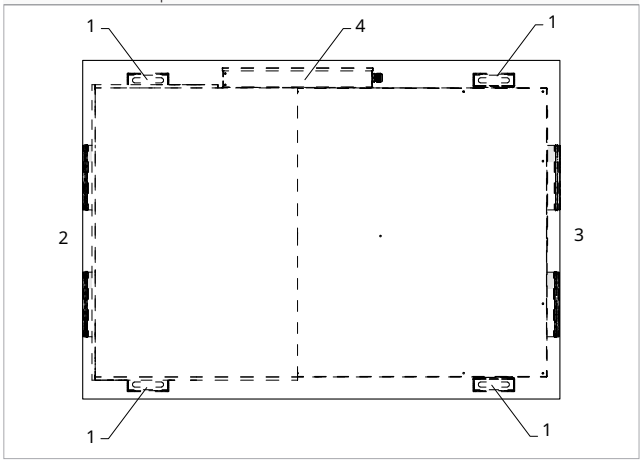
⚠ To avoid the release of large amounts of dust and debris into the room, you are advised to couple the core drill with a vacuum system.

⚠ Proceed with caution near the outside wall to avoid breaking the plaster around the hole.

⚠ Take precautions so that the removed material does not hit people and objects below.

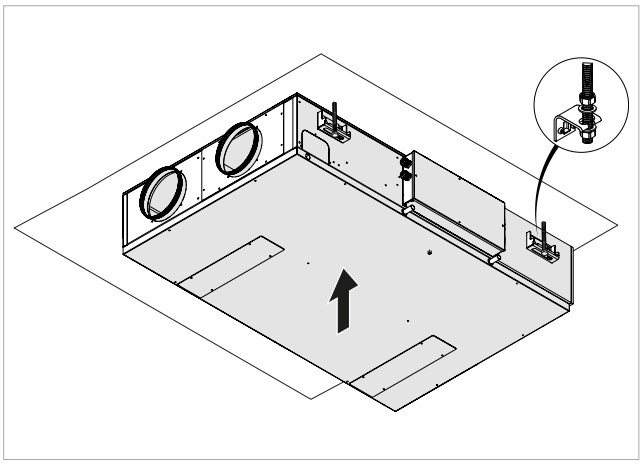
Positioning the unit

1.	Holes for installation of support fixings Ø 8 mm
2.	Front side of unit
3.	Rear side of unit
4.	Electrical panel

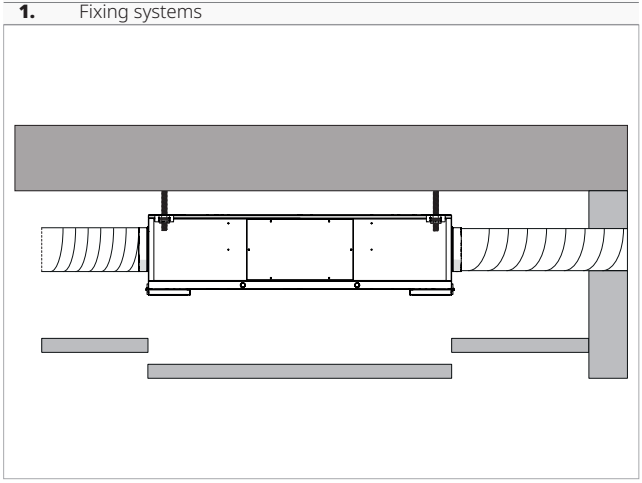


⚠ Check the correct orientation of the unit.

► Mark the position of the fixing holes



1.	Fixing systems



► Use fixing systems appropriate for the type of supporting surface and the weight of the unit

► Secure the unit to the fixing system

⚠ Check the horizontal alignment of the installation using a bubble level.

3.11 Condensate drain connection

Preliminary warnings

⚠ This appliance is equipped with trays for collecting the condensate that is produced during operation. Condensate must be routed to a suitable place for drainage.

⚠ The appliance is equipped with two condensate drainage connections. One of the two must be used depending on the chosen configuration.

⚠ If the drainage line runs into a container (tank or other) it must be ensured that the container itself is hermetically sealed and most importantly it must be ensured that the drainage pipe is not immersed in water.

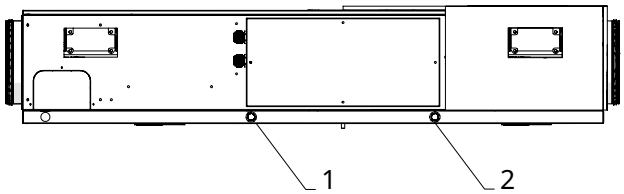
⚠ The hole for the condensate pipe must always have a downwards slope.

⚠ When connecting the condensate drain, take care not to crush the rubber pipe.

Attachment position

The size and position of the condensate drain attachments are shown below.

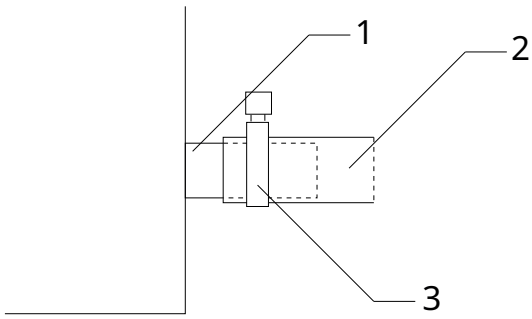
1.	Configuration A condensate drain connection
2.	Configuration B condensate drain connection



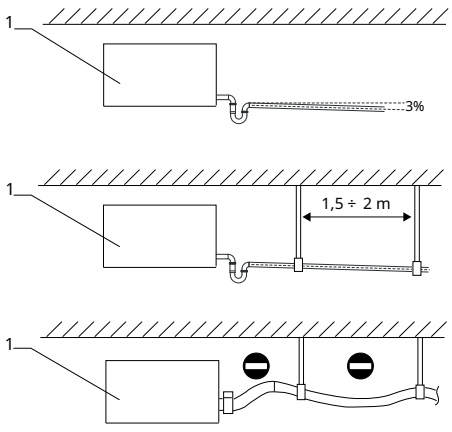
⚠ The unused connection must be plugged.

Connections

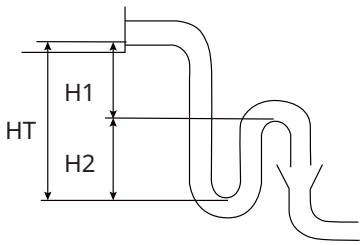
1.	Condensate drain connection
2.	Condensate drain pipe
3.	Hose clamp



1.	Unit



HT	60 mm
H1	30 mm
H2	30 mm



Depending on the chosen configuration:

- ▶ Connect the drainage pipe to the connection provided on the unit
- ▶ Install a siphon on the condensate drainage pipe near the unit
- ▶ Direct the condensate drain pipe to a suitable place for draining
- ▶ Maiuntain a minimum slope of 3% towards the drain location
- ▶ Insulate junction points

⚠ **It is mandatory to install an adequate siphon on the condensate drainage pipe to prevent the negative pressure generated by the fans from obstructing the proper flow of condensate, which could lead to spillage inside the premises.**

⚠ The drainage system must include a suitable siphon to prevent unwanted air from entering the vacuum system. The siphon also prevents the entry of odours or insects.

⚠ The siphon must be fitted with a plug at the bottom or must in any case permit quick dismantling for cleaning.

⚠ Use plastic drainage pipes.

⚠ Avoid metal pipes.

⚠ Make sure all joints are sealed to prevent leakage of water.

⚠ Condensate drain pipes must be insulated for both indoor and outdoor sections to avoid condensation on the surface and/or frosting problems. The insulation must be inserted all the way to the condensate drain pipe connection on the unit.

3.12 Aeraulic connections

Preliminary warnings

⚠ The sizing of ducting and supply and extract grilles must be carried out by a professionally qualified person.

⚠ To prevent the transmission of any vibrations of the machine into the room, an anti-vibration joint should be placed between the fan outlets and the ducts.

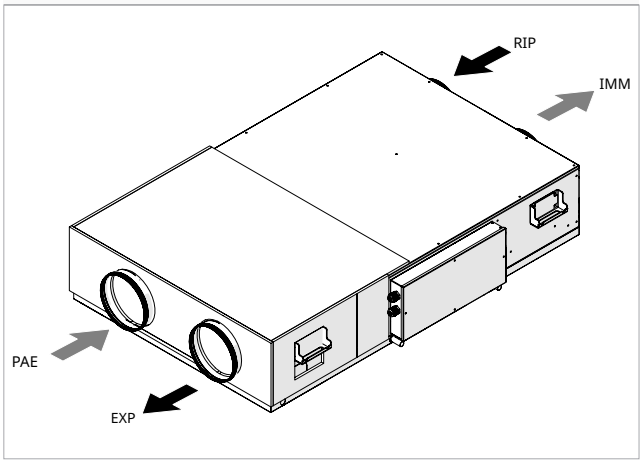
⚠ The connecting pipes must be of a suitable diameter and supported so that their weight does not put strain on the appliance.

Airflow configurations

- A factory configuration
- B configuration modifiable on site

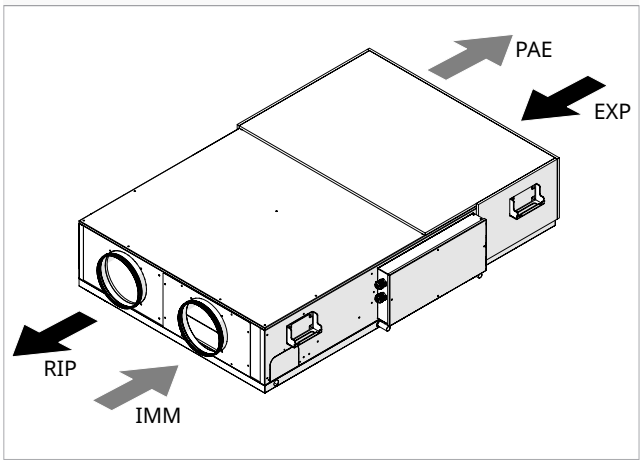
Configuration A

RIP: Extract air
IMM: Supply air
EXP: Exhaust air
PAE: Fresh air inlet



Configuration B

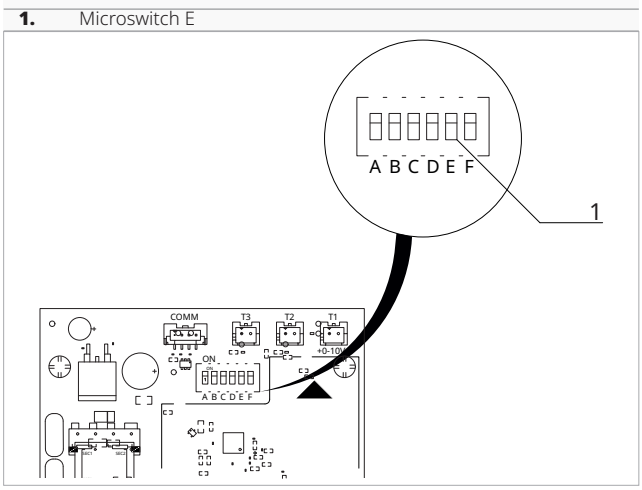
RIP: Extract air
IMM: Supply air
EXP: Exhaust air
PAE: Fresh air inlet



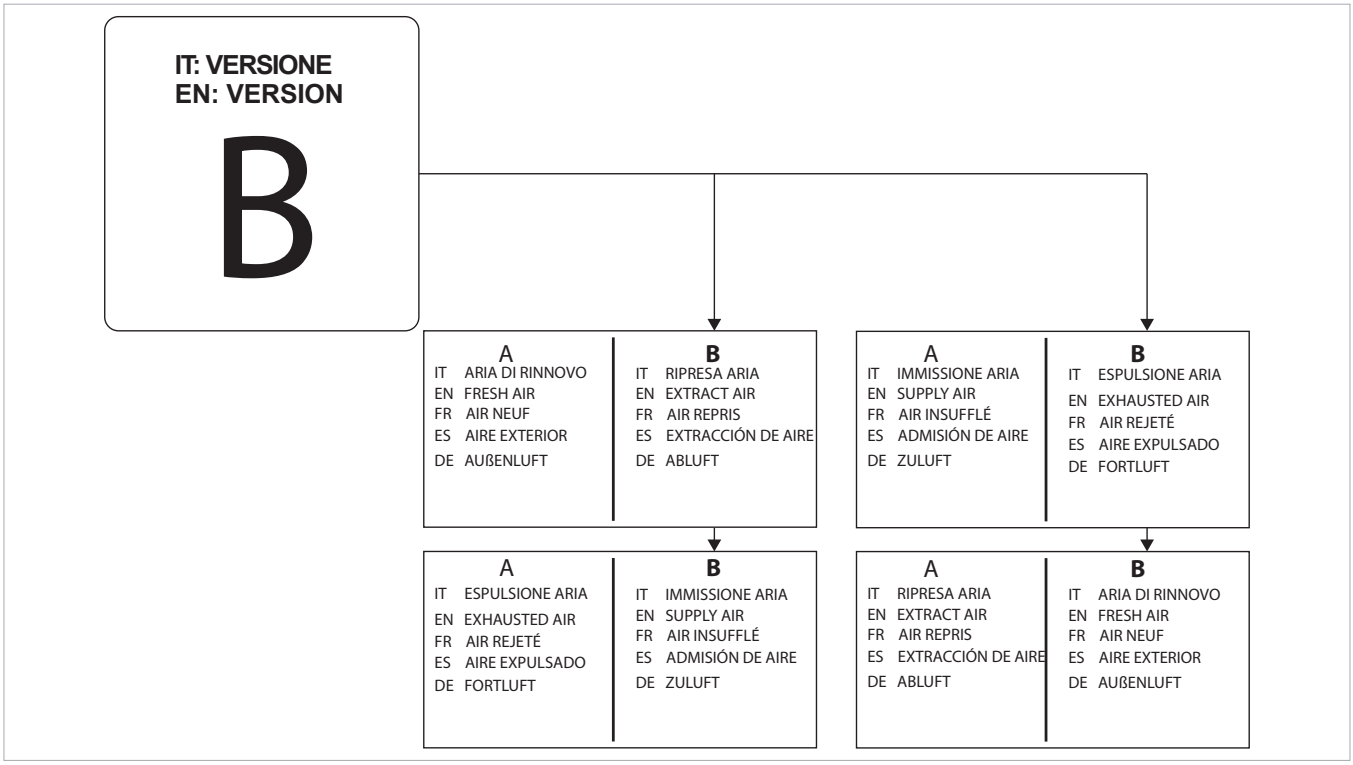
Changing the airflow configuration from A to B

To modify the configuration, switch microswitch E from Off to On. The unit will automatically reverse the fan outputs, the probe properties, and the respective anti-freeze and bypass control logics.

1. Microswitch E

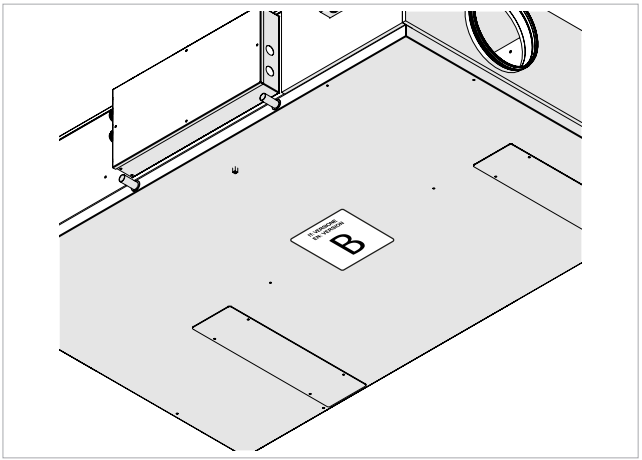


Configuration B label



To indicate that the machine configuration has been changed, the supplied label must be applied. The presence of the label indicates that you must refer to column B in the airflow labels.

Label application:

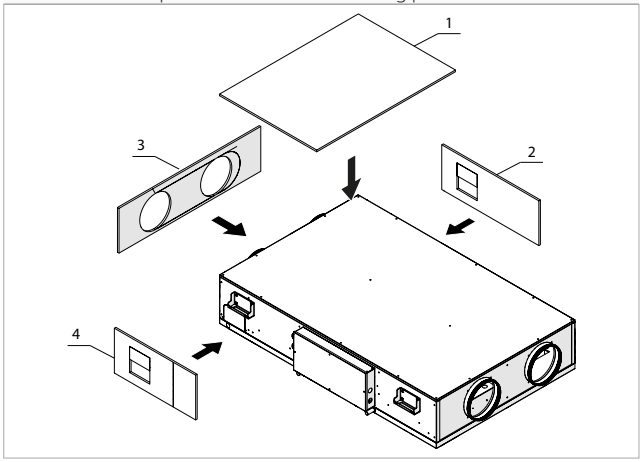


► apply the label to the lower panel

Insulation configuration

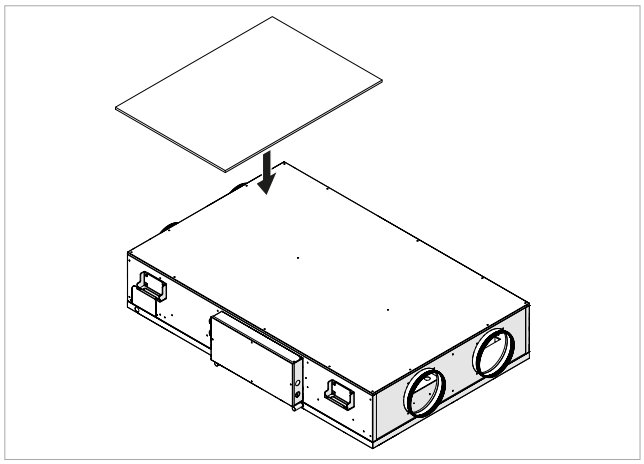
Configuration A

1.	Upper external insulating panel
2.	Side external insulating panel
3.	Front external insulating panel
4.	Electrical panel side external insulating panel



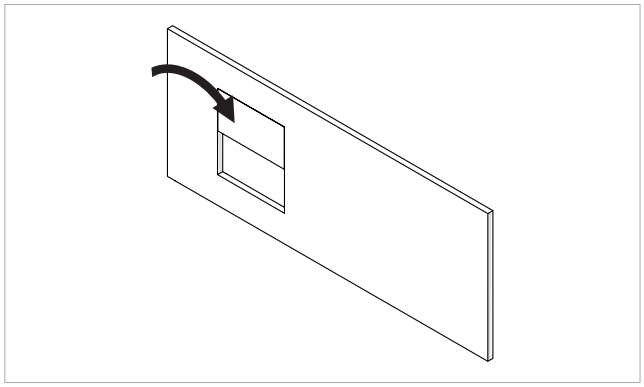
Upper external insulating panel:

► attach the insulation to the top of the machine

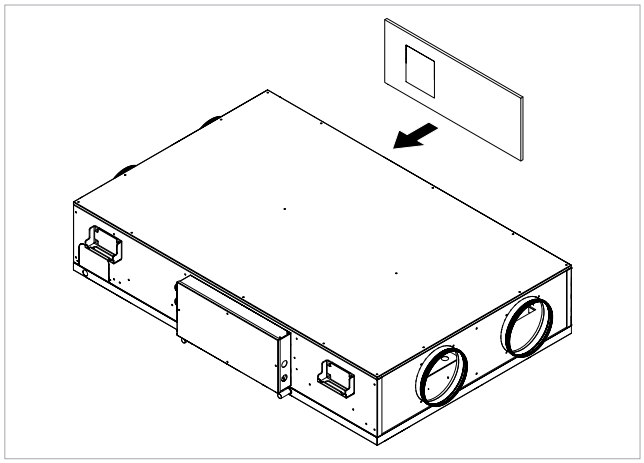


Side external insulating panel:

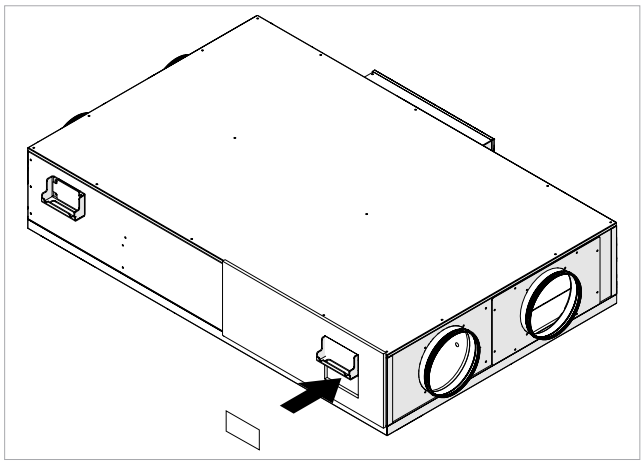
► remove the pre-cut insulation piece, as shown in the figure
keep the insulation piece for the following steps



► attach the insulation to the machine



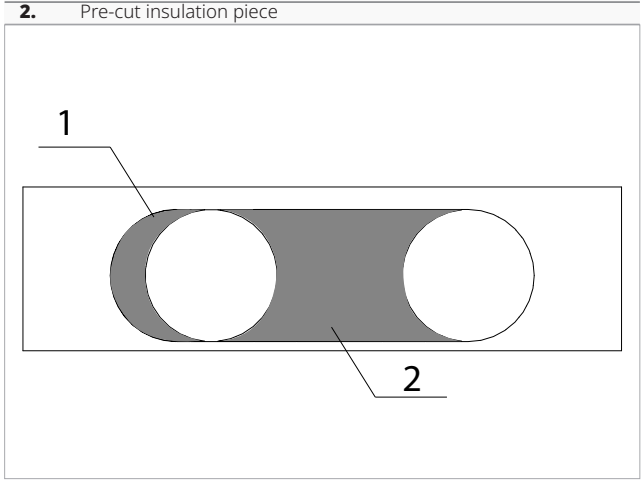
► apply the piece of insulation removed previously, as shown in the figure.



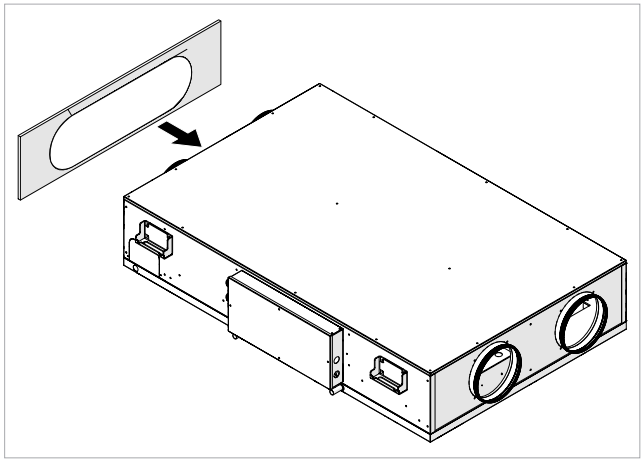
Front external insulating panel:

► remove the pre-cut insulation pieces, as shown in the figure
keep the insulation pieces for the following steps

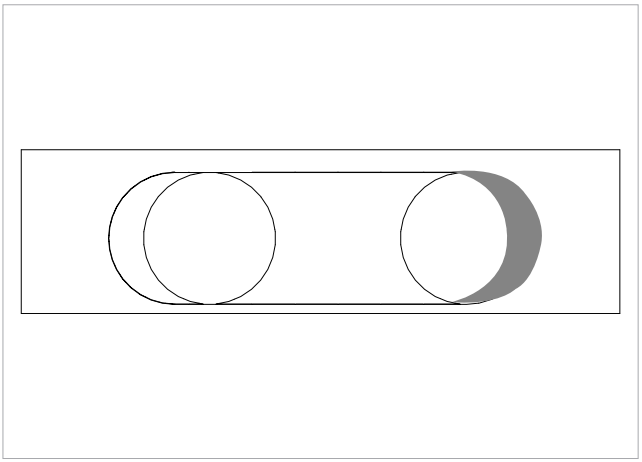
1. Pre-cut insulation piece
2. Pre-cut insulation piece



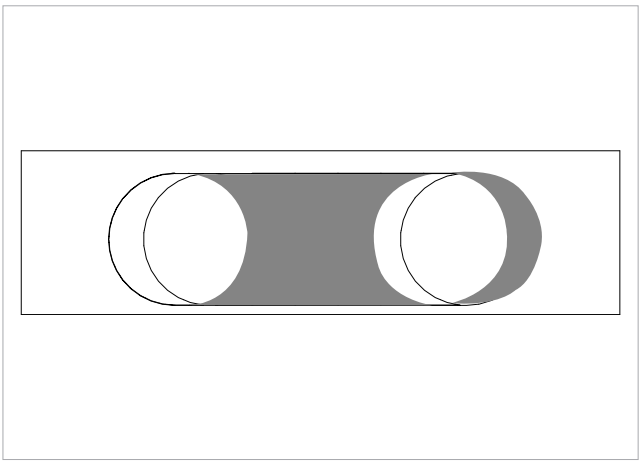
► attach the insulation to the machine



► attach the first pre-cut insulation piece to the machine as shown in the figure

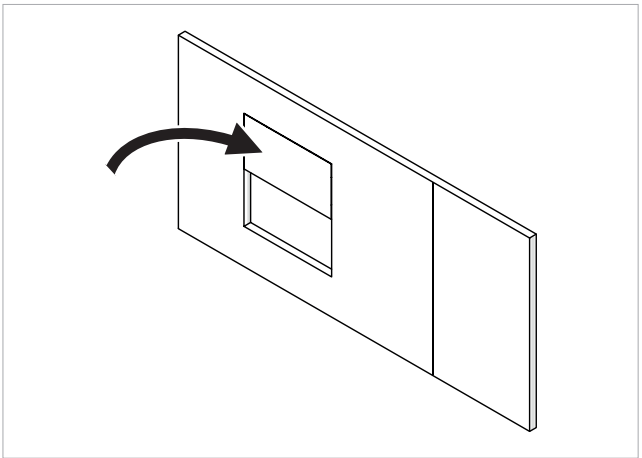


► attach the second pre-cut insulation piece to the machine as shown in the figure

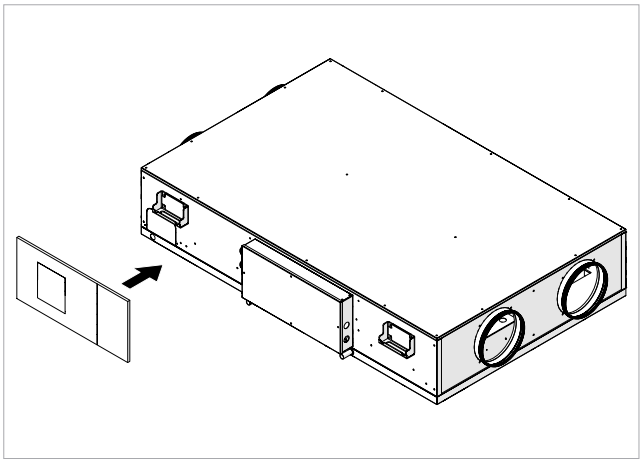


Electrical panel side external insulating panel:

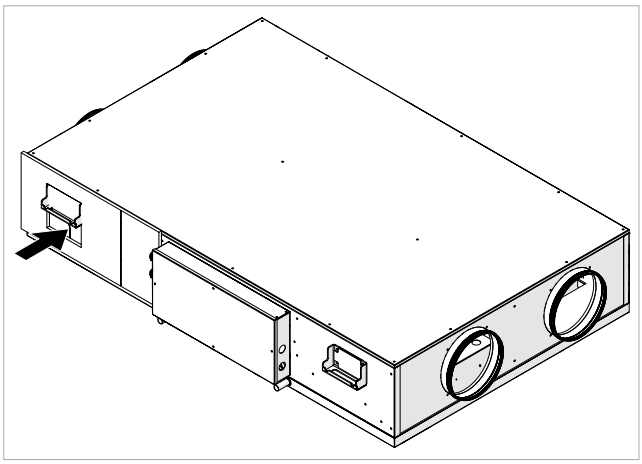
► remove the pre-cut insulation piece, as shown in the figure
keep the insulation piece for the following steps



► attach the insulation to the machine

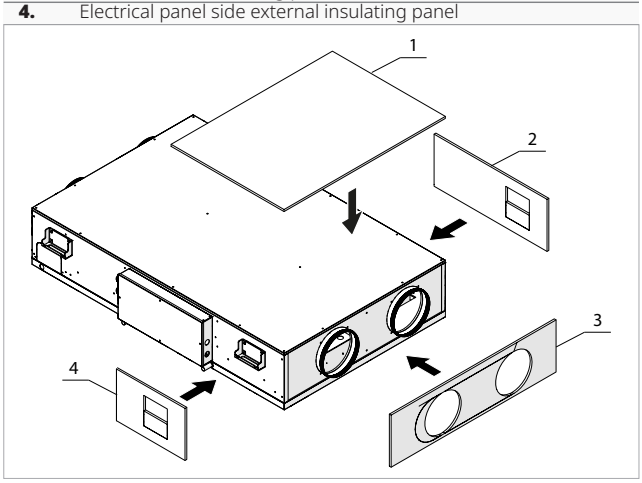


► apply the piece of insulation removed previously, as shown in the figure



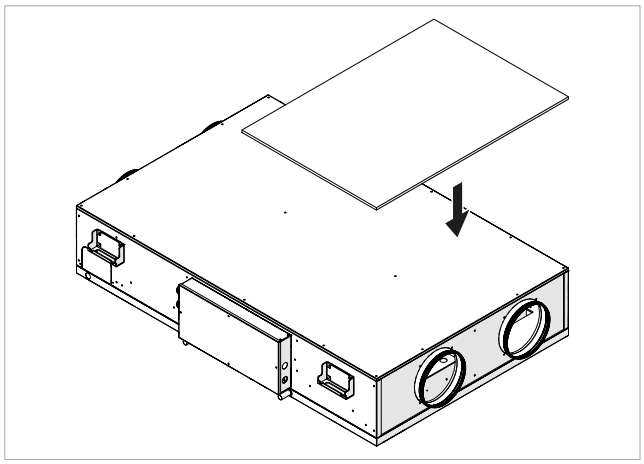
Configuration B

1.	Upper external insulating panel
2.	Side external insulating panel
3.	Front external insulating panel
4.	Electrical panel side external insulating panel



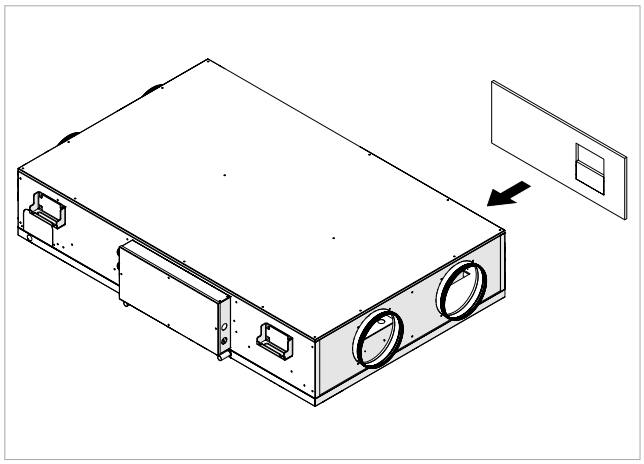
Upper external insulating panel:

► attach the insulation to the top of the machine



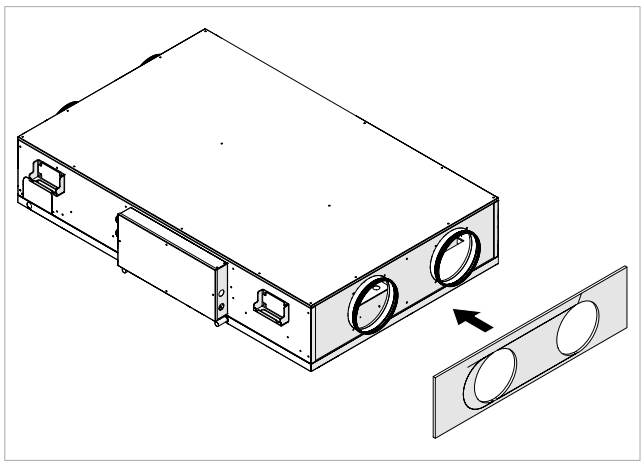
Side external insulating panel:

► attach the insulation to the side of the machine



Front external insulating panel:

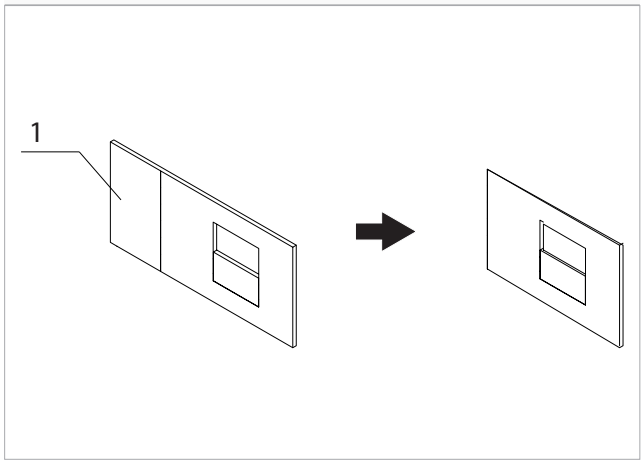
► attach the external insulation to the front of the machine



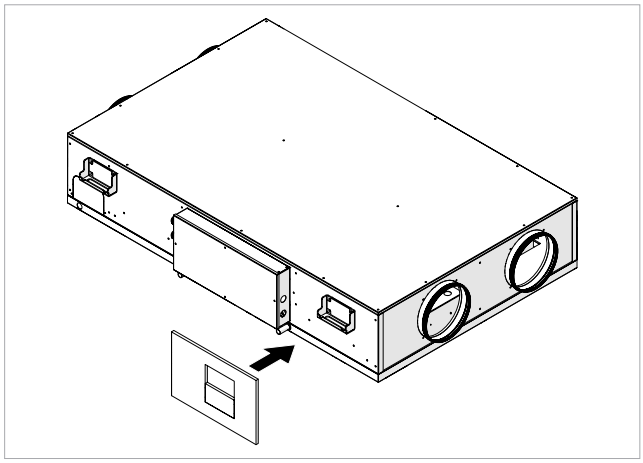
Electrical panel side external insulating panel:

► Remove the pre-cut piece from the insulation and discard it

1. Pre-cut insulation to be removed

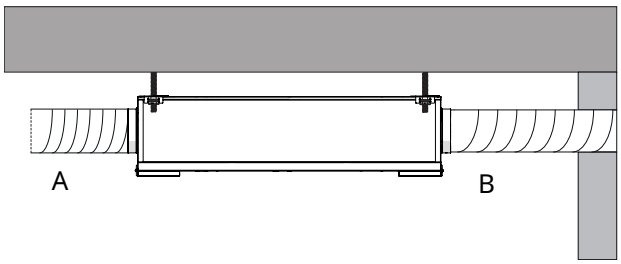


► attach the insulation to the machine

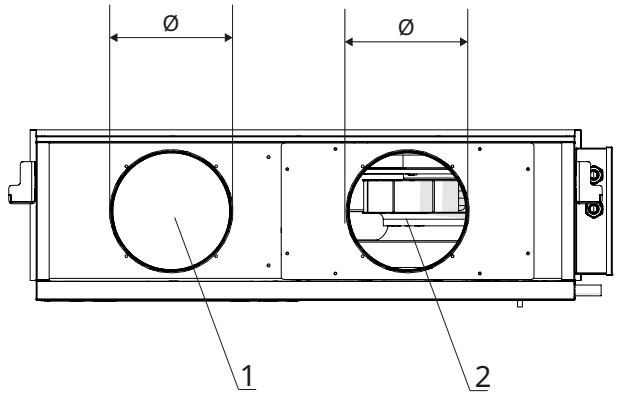


Connections

A Airflow connections towards the room
B Airflow connections towards the outside



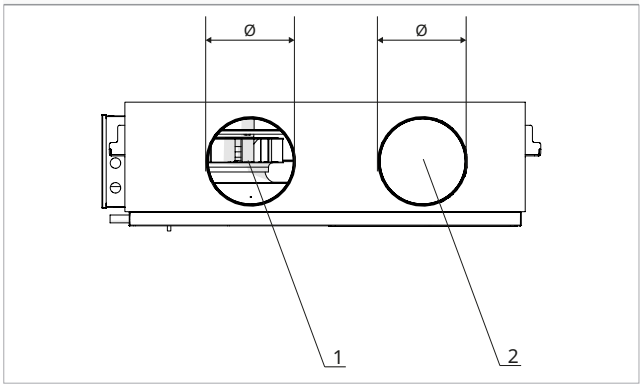
1. Outdoor air
2. Expulsion



Models	u.m.	600-Horizontal
Supply air connection Ø	mm	200

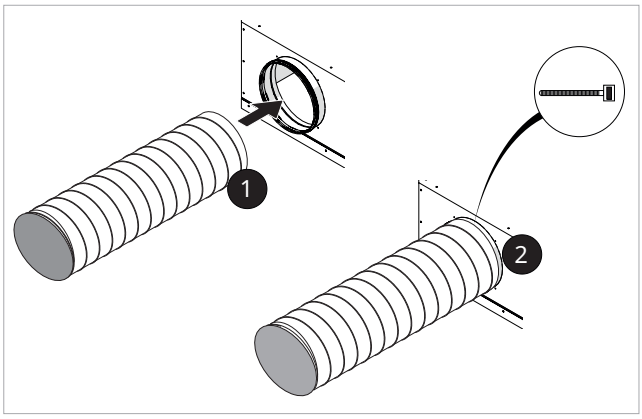
Room side

1. Supply
2. Extraction



Models	u.m.	600-Horizontal
Supply air connection Ø	mm	200

Circular connections



► position the ducts on the connections provided on the appliance

► use a metal clamp or duct fixing collar

► fix the ducts on the attachments

⚠ Use ducts lined with anti-condensation material of a suitable thickness.
⚠ Configurations A and B are confirmed as valid, requiring the connection of the four ducts.

3.13 Electrical connections

The appliance leaves the factory fully wired and only requires connection to the power supply, control and any accessories.

Preliminary warnings

⚠ All operations of an electrical nature must be carried out by suitably qualified personnel having the necessary legal knowledge and informed about the risks related to such operations.
⚠ All connections must be made in accordance with the relevant regulations in force in the country of installation.
⚠ Before carrying out any work, make sure that the power supply is switched off.
⚠ The unit should only be powered after the refrigerant, plumbing, and electrical work has been completed.
⚠ References:

- for electrical connections please refer to the wiring diagrams in this manual, especially for the part concerning the power terminal board

⚠ Check that:

- the main supply characteristics are adequate for the power consumption of the appliance, also taking into account any other machinery in parallel operation

- the power supply voltage and frequency correspond to those specified on the nameplate of the appliance
- the cables are suitable for installation in accordance with the IEC standards in force
- the power supply is adequately protected against overloads and/or short circuits
- the disconnection device is positioned in an easily accessible place to enable intervention in the event of an emergency

⚠ It is mandatory:

- to connect the appliance to an effective grounding system
- for units with three-phase power supply, check the correct phase connection
- provide an all-pole switch with a contact opening distance of at least 3 mm that allows complete disconnection under overvoltage category III conditions
- Install a ground fault circuit interrupter (GFCI). Failure to install this device could result in electric shock

⚠ Ensure that a connection to earth is made. Do not ground the appliance to distribution pipes, surge arresters or the ground of telephony systems. If not performed correctly, grounding can cause an electric shock. Momentary high voltage surges caused by lightning or other causes could damage the heat pump.

⚠ Use a dedicated power supply circuit. Never use a power supply to which another appliance is also connected due to risk of overheating, electric shock or fire.

⚠ For the electrical connection, use a cable of sufficient length to cover the entire distance without any connection. Do not use extension cables. Do not apply other loads on the power supply.

⚠ After connecting the interconnection and power supply cables, ensure that the cables are arranged so that they do not exert excessive forces on the covers or electrical panels. Install the covers on the cables. Incomplete connections of the covers can lead to overheating of the terminals, electric shock or fire.

⚠ Any replacement of the power cable must only be carried out by qualified personnel and in accordance with current national regulations.

⚠ The Manufacturer is not liable for any damage caused by the lack of earthing or failure to comply with the specifications in the respective diagrams.

⚠ The appliance is equipped with a noise filter as required by current regulations. Use selective residual current circuit breakers to compensate for the micro leakage to earth of this device.

⛔ Using gas and water pipes to ground the appliance is prohibited.

Power line dimensioning

Use the tables below for the sizing of the power supply line and its protection device.
These are not average draw or transient peaks, but values to be considered for the correct sizing of the plant and the request of the contractual power (excluding loads due to the normal operation of the building).

⚠ Maximum power is reached only in exceptional cases. Therefore, the indicated trip current is suggested to guarantee a balance between machine absorption and incidence in the general system.

⚠ The indicated minimum cable cross-section area must be verified according to the actual conditions of the installation: length of the cable, characteristics of the electrical supply, etc.

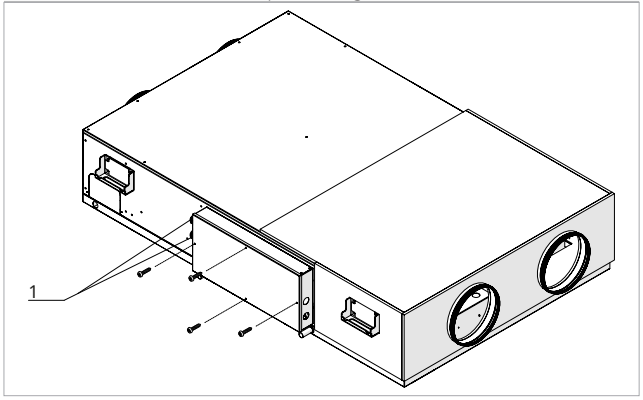
⚠ For units equipped with electrical heating elements, the draw values of the units must be added to those of the heating elements shown in the following tables.

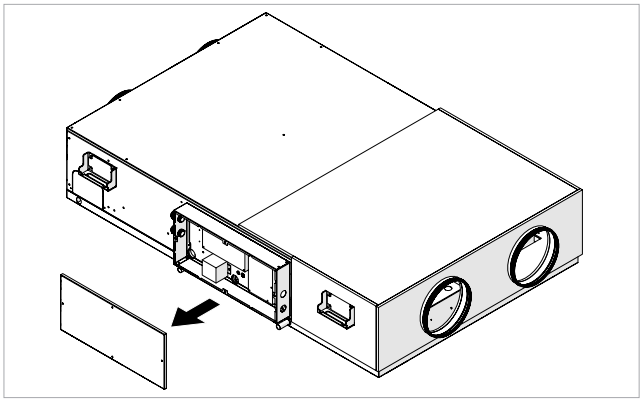
Access to the electrical panel

⚠ Access to the electrical panel is only permitted to qualified personnel.

⚠ Before carrying out any work, ensure that the power supply is switched off.

1. Electrical connections passthrough





To access the connections:

► undo the fixing screws

► Remove the electrical panel closing panel

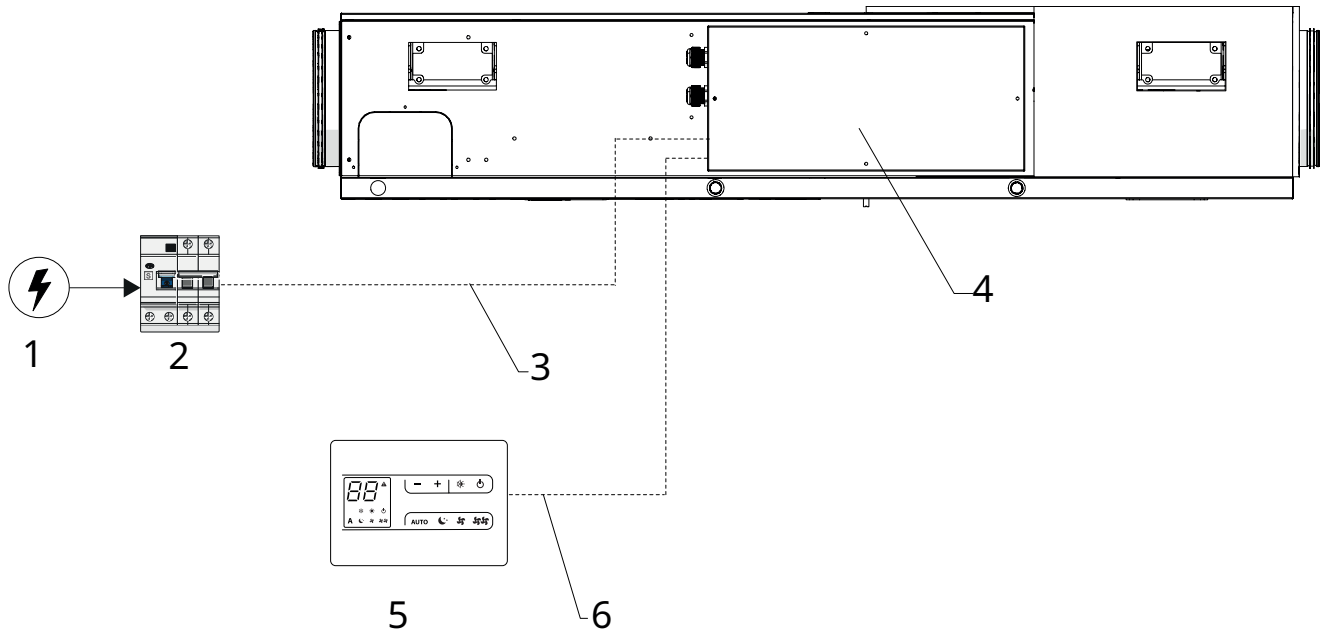
Connections

Before connecting the unit to the mains power supply, make sure that the isolator is open. The power supply of the single-phase unit must be connected to the appropriate terminals, subjected to the action of the isolating switch.

⚠ Use properly sized cables to avoid voltage drops or overheating.

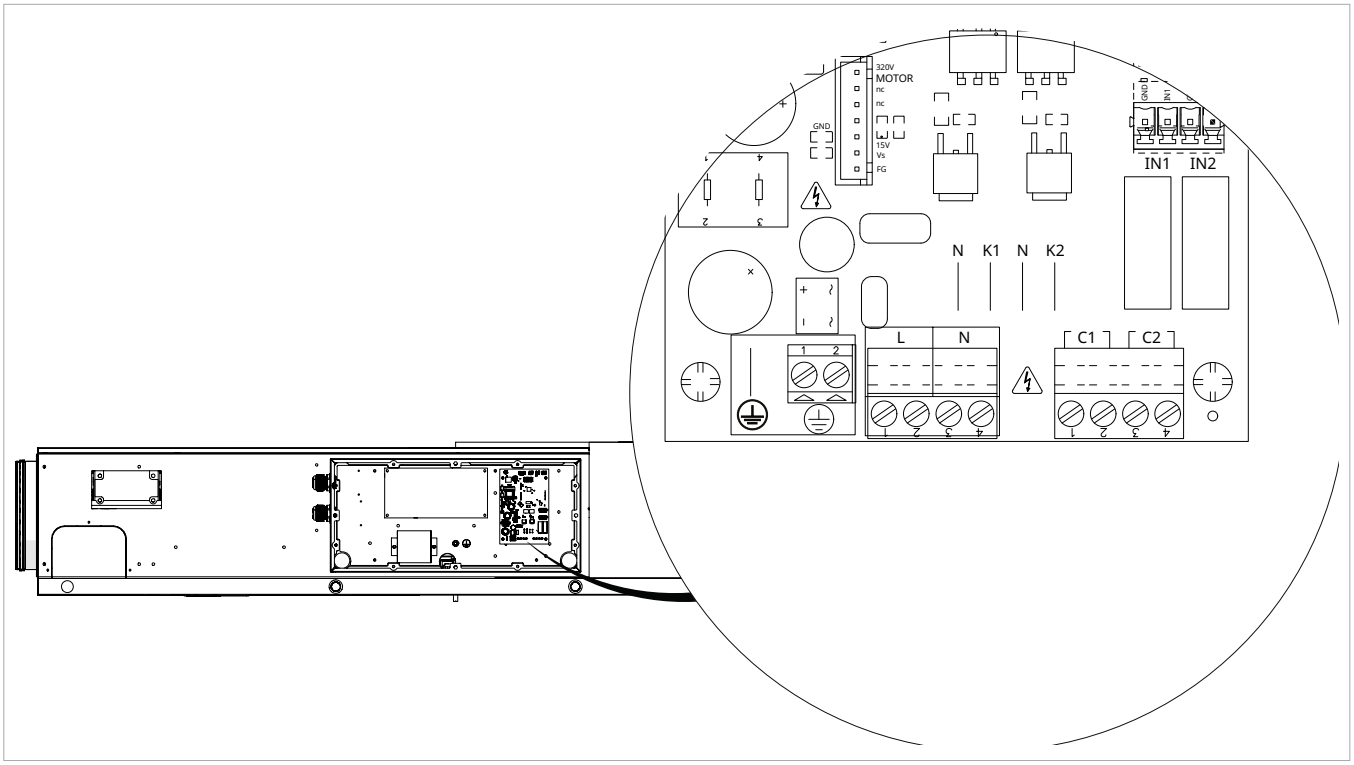
Connection diagram

1.	230/1/50 power supply	**4.**	Unit
2.	Isolator	**5.**	Remote control
3.	Power cable	**6.**	Wired controller communication cable



On-board electrical panel

Connection terminal board



4. REMOTE CONTROL

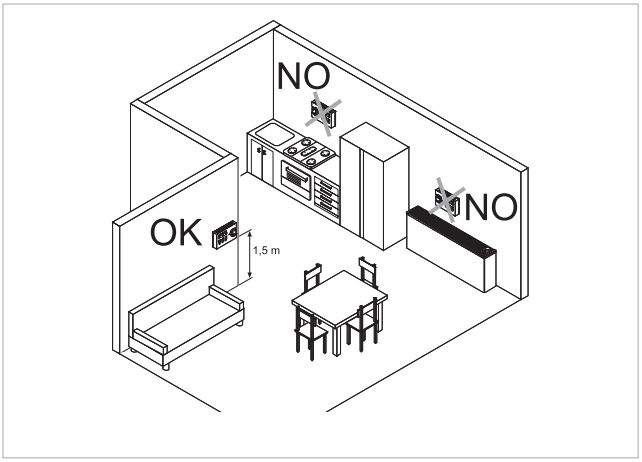
4.1 Installation

Description

The control panel is an electronic controller with humidity and air quality sensors inside, with the possibility of control over several devices equipped with the same circuit board. It is equipped with a humidity and air quality sensor.

⚠ The temperature probe can be remote-controlled in one of the connected units.

Mounting



The control panel must be installed:

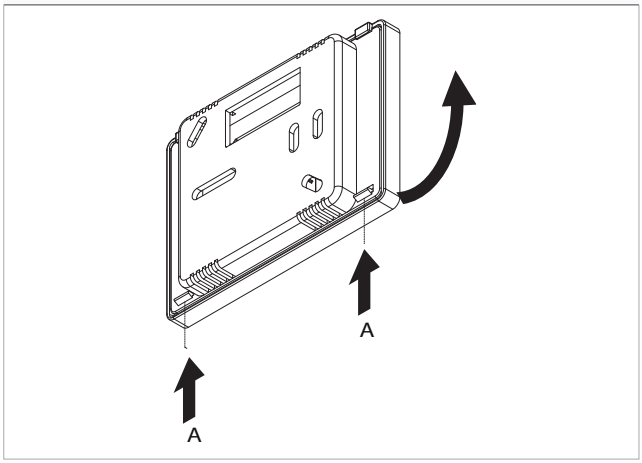
- on the outside walls
- at a height of approx. 1.5 m above the floor

⚠ If the control panel is located in an area used by individuals with reduced physical abilities, refer to local regulations.

- away from doors and windows
- away from heat sources such as radiators, fan coils, cookers, direct sunlight

⚠ The control panel is supplied in the package already assembled.

A	Notches



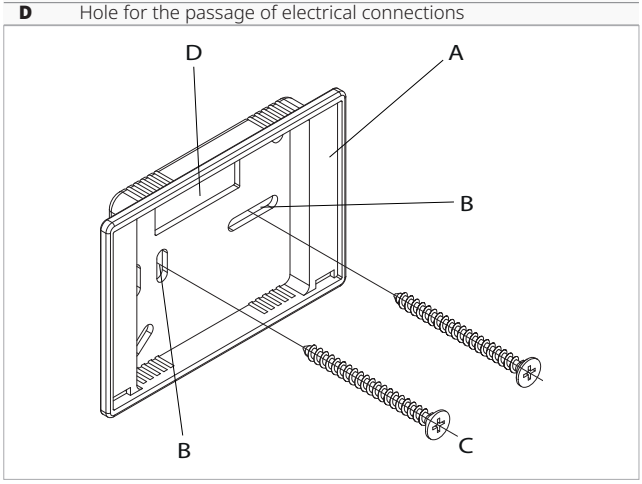
Before mounting on the wall:

► release the fastening notches on the rear side of the control panel

► separate the base from the control panel

► use the base as a template to mark out the fixing points

A	Control base
B	Holes for fixing to the wall
C	Screws
D	Hole for the passage of electrical connections



For wall mounting of the control panel:

► drill holes in the wall

► pass the electrical cables through the prepared hole

► fix the base of the control unit to the wall using suitable screws and dowels

► make electrical connections

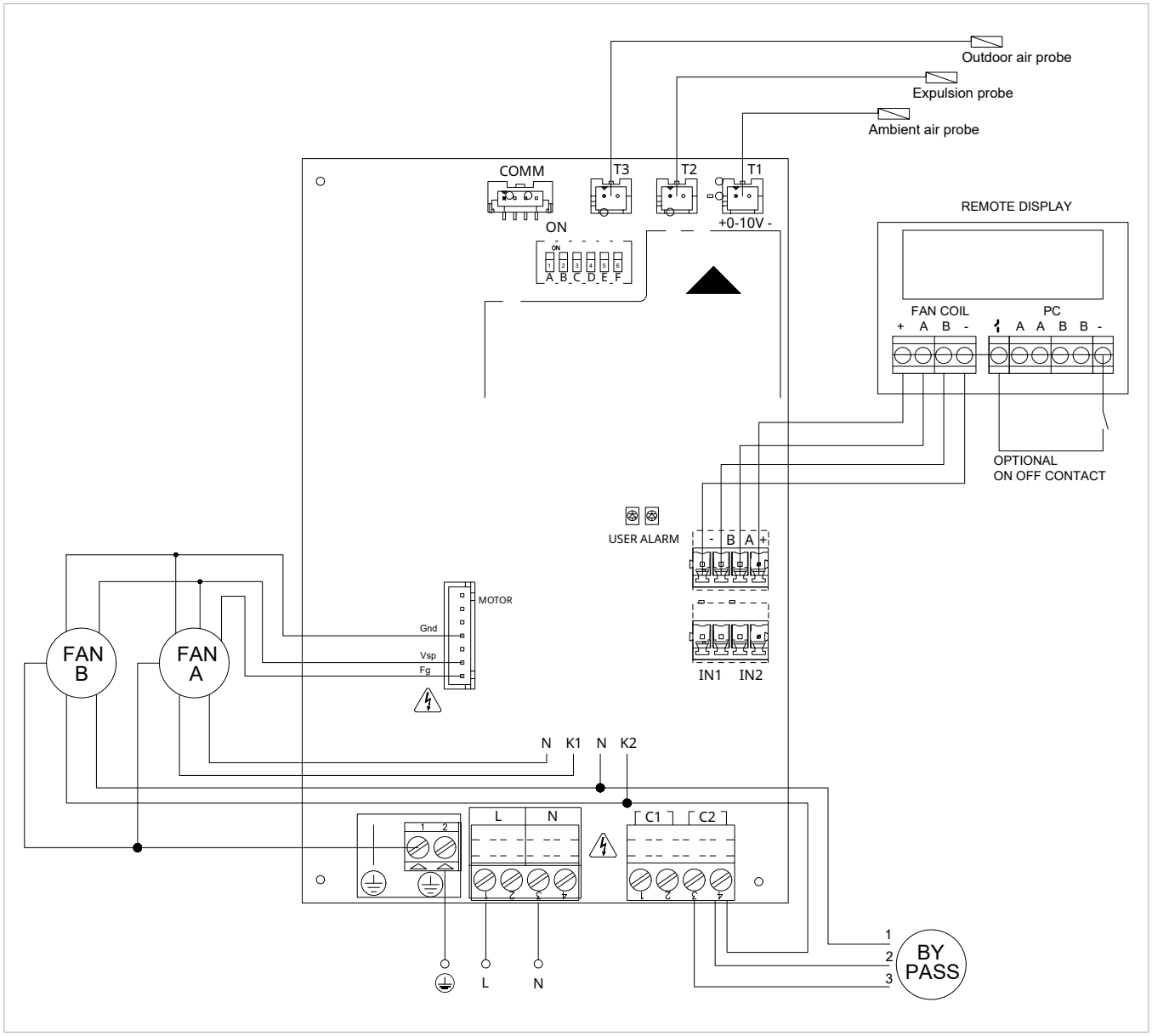
► close the control panel

⚠ Take care not to crush the wires when closing the control panel.

4.2 Electrical connections

Connection diagram

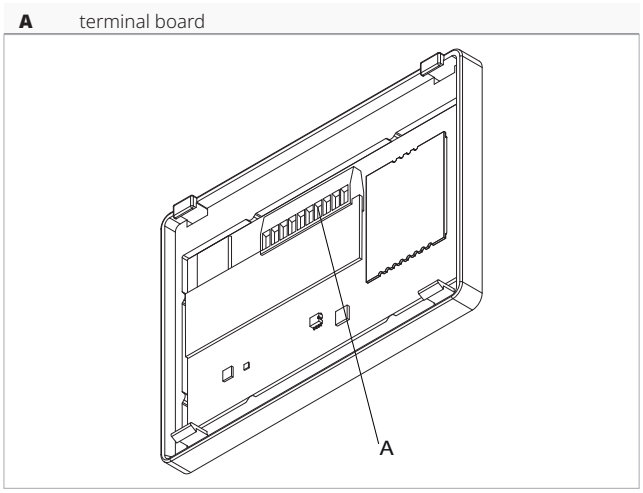
Unit I version



Connections to be made by the customer		
L - PE - N	Unit power supply	230 / 1 / 50
IN1	Booster speed (standard) / Dirty filters input (configurable)	Contact closed / function active
C1	Generator control / Water valve / Post-heating battery / Pre-heating battery	Free contact
C2	Bypass	Voltage contact 220V
Remote display	Remote control (wired)	
Remote On - Off (on display)	On - Off remote contact on remote display	Contact closed / unit off

Terminal board position

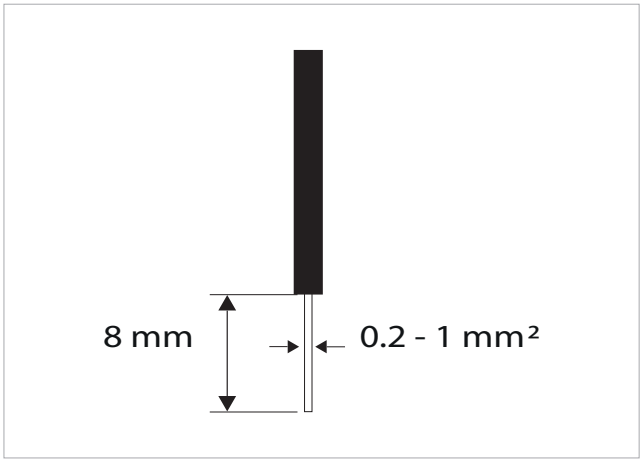
A terminal board



The terminals allow the connection of rigid or flexible cables with cross-sections of 0.2 to 1 mm². For cables equipped with a cable lug with plastic collar the maximum cross-section is reduced to 0.75 mm².

Connection to circuit board

For the connection:



► remove a portion of the insulation from the cable end

► insert the cable into the terminal

► screw tightly

► check for correct attachment by lightly pulling on the cable

⚠ The cable must be schielded twisted 4 x 0.75 mm², maximum length 50 m.

On - Off remote connection

Through this contact it is possible to connect an external device which inhibits the operation of the appliance, such as:

- remote on/off (on display)

Operation

When the contact connected to the PC input is closed, all units are switched off.

When a button is pressed on the display, the symbol ⚠ flashes

⛔ It is forbidden to connect the PC input in parallel with other electronic boards. In this case, use separate contacts.

RS485 serial connection

The control panel can be connected via an RS485 line to one or more units directly to the control board on the unit or via the remote displays.
For the connection:

► respect the indications "A" and "B"

► connect appliances in series

⚠ Use a shielded two-core cable suitable for serial RS485 connection with a minimum cross-section of 0.35 mm².

⚠ Keep the two-core cable separate from the power supply cables.

⚠ Route in such a way as to minimise the length of deviations.

⚠ Terminate the line with a 120 Ω resistor.

⛔ "Star" (y) connections are prohibited.

4.3 Interface

Description

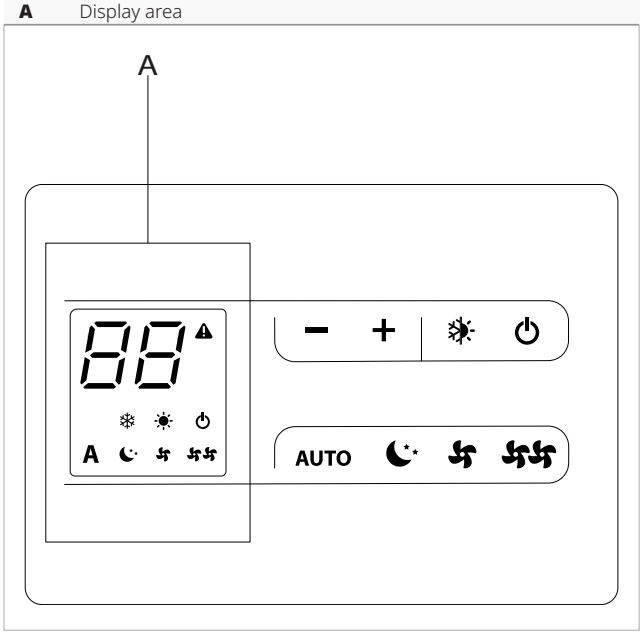
The control panel is an electronic controller with humidity and air quality sensors inside. It has the possibility of operating several units equipped with the same circuit board.
Features:

- unit's stale air intake probe reading
- internal memory with data storage even in the event of abnormal shutdown or power failure

⚠ The room temperature probe provides frost protection even when the control panel is in stand-by mode.
⚠ The brightness of the control panel is reduced 20 seconds after the last action, the display only shows the room temperature. Pressing any button restores maximum brightness.
⚠ Refer to the User's Manual for operation on the control panel.

Display

A Display area

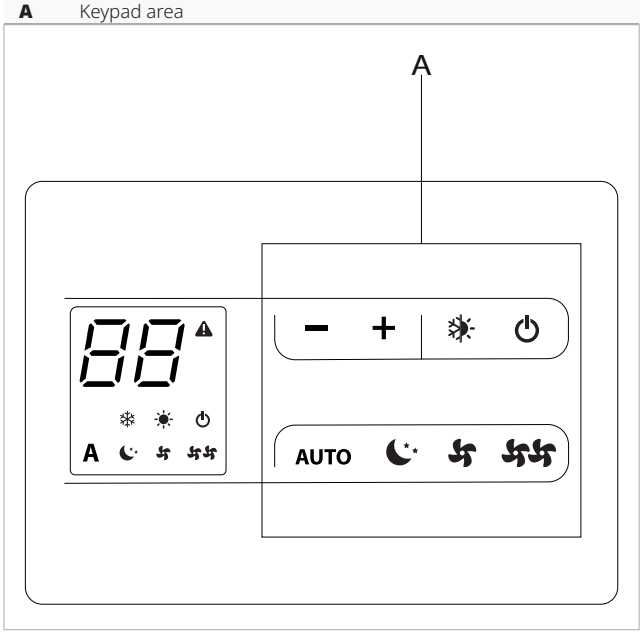


Status and alarms shown on the display.

- Alarm indication
  Flashing with closed CP contact
  Lit for alarm indication
- Summer mode active
- Winter mode active
- Unit in stand-by
- Auto function
- Minimum ventilation speed activated
- Rated ventilation speed activated
- Maximum ventilation speed activated

Keypad key functions

A Keypad area



Related keys and functions

- Decreases the set temperature
- Increases the set temperature
- Allows you to change the operating mode between summer and winter
- Allows the control panel to be switched on or put into stand-by mode
- **AUTO** Makes ventilation speed adjustment fully automatic according to IAQ values is RH %
- Allows you to set the minimum ventilation speed
- Allows you to set the rated ventilation speed / Allows you to set the desired humidity value
- Allows you to set the maximum ventilation speed

General switch-on

Before switching on:

⚠ Make sure that the control panel is connected to the power supply.

⚠ If there is a main switch on the power supply line, switch the system on by pressing the switch.

To activate the device

► press and hold the button ⏻
The symbol ⏻ lights up

4.4 Warnings

Switching off for extended periods

In case of seasonal or long-term shutdown:

► Deactivating the device

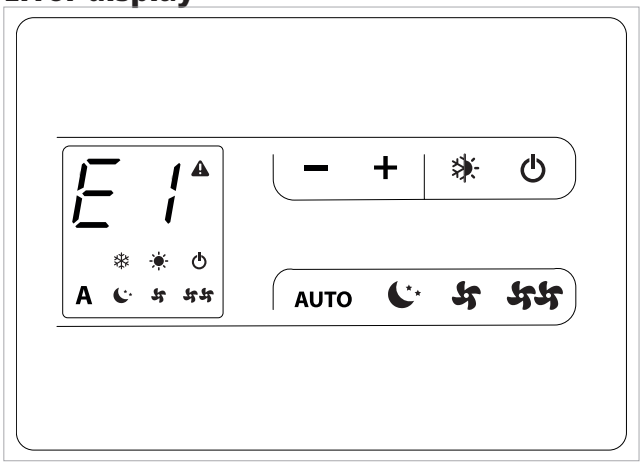
► set the system's main switch to off

⚠ The anti-freezing function is deactivated.

Error indication

⚠E 1	Fault in the room temperature sensor located in the thermostat
⚠E2	Fault or connection of a double remote room sensor on one of the connected appliances
⚠E3	Temperature/humidity sensor not working
⚠E4	Air quality sensor not working

Error display



Air quality index

Throughout all seasons of the year, the system continuously monitors the air quality index.
The sensor operates across different ranges:

- 0 to 1.99: Excellent air quality
- 2 to 2.99: Good air quality
- 3 to 3.99: Moderate air quality; it is recommended to limit exposure to these values to no more than 12 months
- 4 to 4.99: Poor air quality; exposure to these values is not recommended for more than 1 month
- 5: Unacceptable air quality; exposure to these values is not recommended

⚠ The default setting value is 2.5. Changing this parameter is only possible through the installer menu, accessible only by authorized personnel.

Filters alarm

► the symbol ⚠ flashes on the screen

► the filters have reached the operating time limit

To fix

► replace filters

► reset the panel

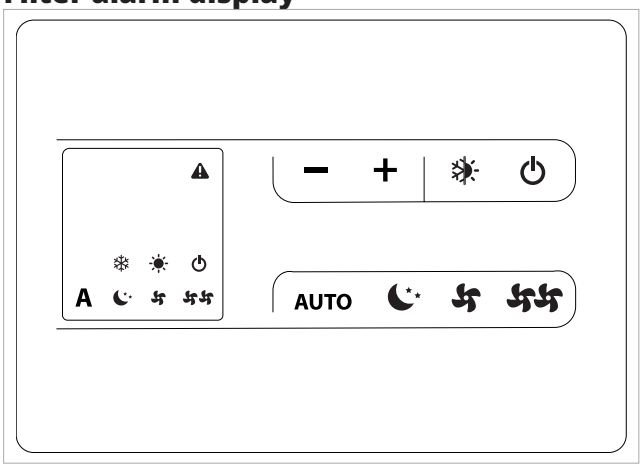
To replace filters

► Refer to chapter "Cleaning or filter replacement" *p. 36*

To reset the panel

► press and hold the button ⏻ for 5 seconds

Filter alarm display



5. START-UP

5.1 Preliminary warnings

⚠ **This section is dedicated to the Authorised Service Centre. The specifications of the Authorised Service Centre are described in chapter "Recipients"** *p. 4*.

⚠ **Initial commissioning must be carried out by the Authorised Service Centre.**

⚠ **For detailed information on accessories, please refer to the relevant instruction sheets.**

See chapter "Compatible accessories" *p. 10*

⚠ The customer must be present when the appliance is tested and informed of the contents of the manual and procedures. After commissioning, the manual and the warranty certificate must be handed over to the customer.

⚠ Before start-up, all works (electrical, hydraulic and airflow connections) must have been completed.

5.2 First start-up

Preliminary Checks

Before commissioning, check that:

Operational checks

- all safety conditions have been met
- the unit has been properly secured to the supporting surface or wall
- the minimum technical spaces have been observed

Airflows

- the airflow connections have been made according to the instructions in the manual
- all airflow connections are correctly secured
- the ducting is correctly supported
- the ducting does not have any bottlenecks
- the ducting is thermally insulated

Electrical checks

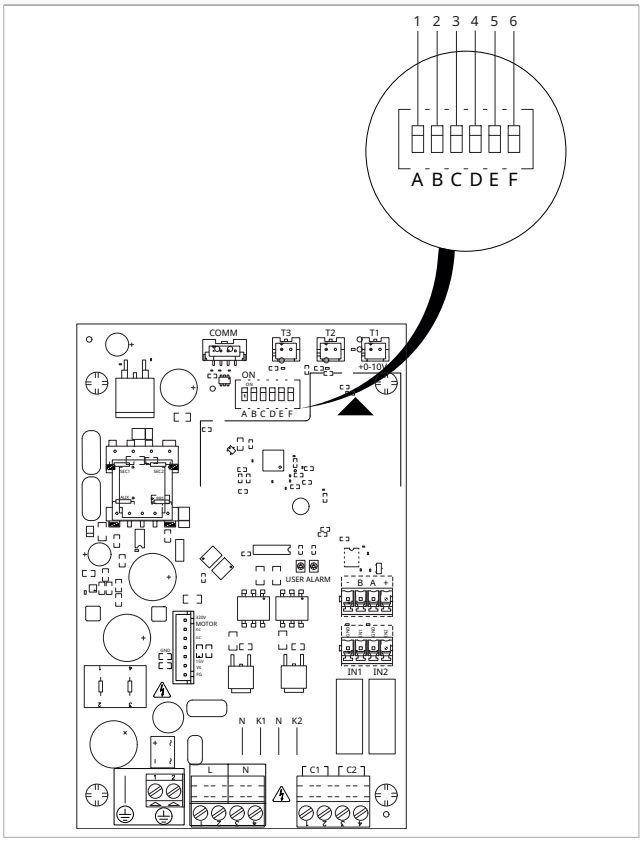
- the cross-section of the power supply cables is adequate for the absorption of the appliance and the length of the connection made
- grounding is correctly performed
- the electrical connections have been established correctly
- all control wires are connected and that all electrical connections are secure

Settings

Microswitches

There are microswitches on the board for the various operating configurations of the unit. It is essential to set the microswitches correctly; the table shows the various operating modes.

1.	Microswitch A
2.	Microswitch B
3.	Microswitch C
4.	Microswitch D
5.	Microswitch E
6.	Microswitch F



MICROSWITCH FUNCTIONS		
Microswitch A	ON	OFF
	Pre-heating coil activation contact C1	Post-heating coil activation contact C1
Microswitch B	ON	OFF
	Enabling of unit with modulating coil control	Disabling of unit with modulating coil control
Microswitches C - D	ON OFF	OFF ON
	Room humidity control	Room air quality control
	ON ON	OFF OFF
	Humidity and room air quality control active. The maximum value of the two calculated values is used	Moisture and ambient air quality controls deactivated
Microswitch E	ON	OFF
	Configuration B	Configuration A (standard)
Microswitch F	ON	OFF
	OFF (standard)	ASCII

⚠ Microswitch A Management of pre-heating and post-heating batteries. Verify the connections.
⚠ Microswitch B The unit model is set to OFF by default. Do not change the setting to prevent the unit from malfunctioning.
⚠ Microswitches C - D The combination of these microswitches decides the operation of the humidity and air quality sensors.
⚠ Microswitch E The unit model is factory-set to OFF. If set to ON, please verify the connections and the application of label B.
⚠ Microswitch F The unit model is factory set to ON. If set to OFF, error E8 appears on the control panel.
ⓘ **In case of installation of the electric heating coil accessory, refer to section "Wiring diagram"** *p. 46* **for setting the microswitches.**

Start-up

After all checks have been carried out, the unit can be put into operation.

To activate the appliance:

► Please refer to the user manual

Checks with the machine switched on

After starting up, check that

Operational checks:

- verify the different modes of operation
- verify that the appliance stops and then restarts
- switch the appliance off and on again and check that it restarts correctly
- the appliance operates within the recommended operating conditions (see technical specifications table)
- check that the air flow rates are correct
- verify that the unit's configuration complies with the site requirements

Hydraulic Checks

- check for proper condensate drainage

Electrical Checks

- the current absorbed is less than the maximum indicated in the technical data table
- the supply voltage value is within the set limits and does not fall below the nominal value -10 % during operation

5.3 Plant delivery

Once all the checks and controls on the correct operation of the plant have been completed, the installer must explain the following to the user:

- the basic functional characteristics of the appliance
- the instructions for use
- the routine maintenance

5.4 Switching off for extended periods

If the appliance is not used for a long period of time, the following steps must be taken:

► Deactivating the device

► Isolate the power supply

⚠ To restart the appliance after it has been out of use for a long period, call in the Authorised Service Centre.

6. MAINTENANCE

6.1 Routine maintenance

Annual operations

The once-a-year maintenance plan includes the following operations and checks and must be carried out by the Authorised Service Centre or by qualified personnel.

Electrical circuit
Check:

- electrical supply voltage
- the electrical absorption
- tightening connections
- that there is no damage or excessive wear to electrical cables
- that the gaskets and sealing materials have not deteriorated to such an extent that they are no longer suitable for the purpose of preventing the development of flammable atmospheres inside
- the correct fixing of cable glands
- safety devices

Mechanical checks
Check:

- tightening of the screws, fans and electrical box, of the unit's external panelling
- the state of the structure

⚠ Bad fixings result in abnormal noise and vibration.
⚠ If oxidised parts are present, treat them with suitable paints to eliminate or reduce oxidation.

Hydraulic controls
Check:

- the regular drainage of condensate
- cleaning the condensate collection trays
- cleaning the exhaust ducts

Airflow controls
Check:

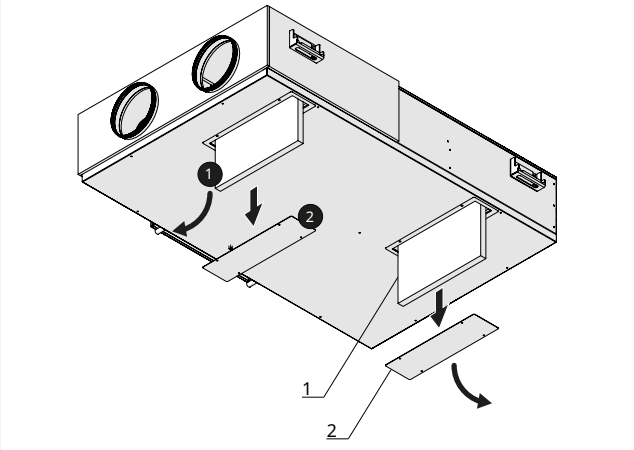
- the regular flow of air
- cleaning of any intake grilles
- cleaning the ducting

Cleaning

- cleaning of aesthetic cover
- cleaning or filter replacement
- cleaning the heat exchanger

Cleaning or filter replacement

1. Filter
2. Filter access hatch



To remove:

► Isolate the power supply to the unit

► open the filter access hatch

► Take out the filter

⚠ Pay attention to sharp surfaces

ⓘ **If the condition of the filters is acceptable, they can be cleaned using a vacuum cleaner or a low-pressure compressor.**

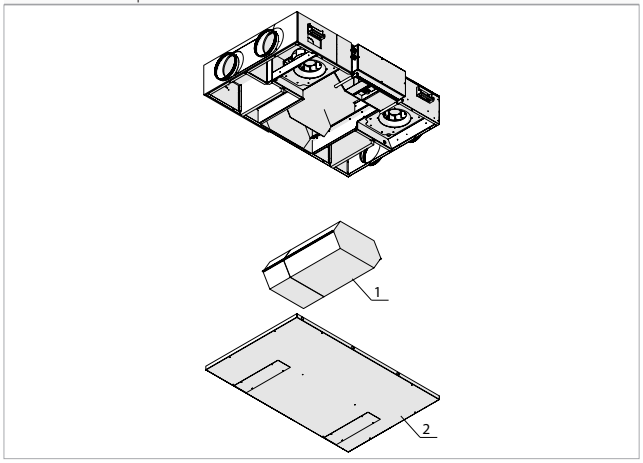
ⓘ **If it is impossible to clean them, the filters must be replaced.**

To reposition:

► Perform in reverse order

Cleaning the heat exchanger

1.	Heat exchanger
2.	Lower panel



Cleaning the heat exchanger

- ► Isolate the power supply to the unit
- ► Disconnect the condensate drain pipe
- ► remove the lower panel of the unit by releasing the fixing hooks and removing the screws
- ► remove the fixing brackets present only in models 40 - 50
- ► extract the heat exchanger
- ► gently proceed with cleaning using a vacuum cleaner or a low-pressure compressor
- ► reposition the heat exchanger
- ► reposition the lower panel by locking it with the fixing hooks and inserting the screws

⚠ Never touch the fins of the heat exchanger, handle only the closed sides.

ⓘ **There is a special clamp/green strap for removing the heat exchanger.**

ⓘ **To prevent dirt from entering the heat exchanger, clean in the opposite direction to the air flow.**

7. FAULTS AND REMEDIES

7.1 Preliminary warnings

If one of the following faults is found:

- ventilation does not activate
- the appliance makes excessive noise
- there is dew formation on the front panel

► Immediately isolate the power supply

► contact an Authorised Service Centre or professionally qualified personnel

⚠ The intervention must be carried out by a qualified installer or an Authorised Service Centre.

⛔ Personal intervention is prohibited.

Follow the instructions below:

7.2 Troubleshooting table

DESCRIPTION OF FAULT	CAUSE	REMEDY
The fans are not active	The power supply is not switched on	Check the fan power supply
	The fan speed regulation device does not work	Check fan speed regulation device
	Incorrect electrical connections	Check electrical connections.
	Fans in thermal protection	Check that the fan has not overheated and switched to thermal protection
Insufficient air flow or pressure	Clogged filters	Clean filters
	Insufficient rotation speed	Increase rotation speed
	Ducting or exchanger clogged	Clean ducting or heat exchanger
Insufficient heat exchanger efficiency	Exchanger fins clogged	Clean exchanger surfaces
Excessive vibration and noise	Incorrect installation of the unit	Check unit brackets and fastenings
	Incorrect ducting installation	Check brackets and duct fixings
	Fan impeller imbalance	Check fan impeller condition
Water leaks from unit	Clogged condensate drain	Clean condensate drain
	Siphon not installed correctly	Check the correct installation of the siphon
Difficult start-up	Supply voltage too low	Check that the supply voltage is not below 10% of the rated voltage

7.3 Alarm table and card flashes

DESCRIPTION OF ALARM	CAUSE	REMEDY	CARD FLASHES
Recovery ambient probe / External air alarm - T1	Sensor breakage or failure to read	Check probe connection or replace sensor	1 flash - off 3 seconds
Fan alarm	Fan connector faulty or feedback signal absent	Check the connection of the fan connector to the board	2 flashes - off 3 seconds
		Replace fan control cable Filters alarm counter reached Replace filters and reset	
Filters alarm	counter reached	Replace filters and reset	
Expulsion / intake probe alarm - T2	Sensor breakage or failure to read	Check probe connection or replace sensor	3 flashes - off 3 seconds
Outdoor air / extracted air probe alarm - T3	Sensor breakage or failure to read	Check probe connection or replace sensor	5 flashes - off 3 seconds
Remote display connection alarm	Remote display connection error	Check electrical connections.	LED off
		Check that A and B are not reversed	
		Check the correct insertion of the display connection board on the main board	
Remote display communication alarm	No communication between display and board for at least 300 seconds	Check the filter status and press and hold the On - Off button to reset the signalling	6 flashes - off 3 seconds
		Check that A and B are not reversed	
		Check the correct insertion of the display connection board on the main board	

8. TECHNICAL INFORMATION

8.1 Technical data

Models	u.m.	600-Horizontal-Sensible	600-Horizontal-Enthalpic
Airflow performance			
Nominal air flow rate	m^3/h	630	630
Available pressure	Pa	100	100
Supply fan			
Type		Backward-curved radial blades	
Number	No.	1	1
Maximum absorbed power	W	214,00	214,00
Outdoor side fan			
Type		Backward-curved radial blades	
Number	No.	1	1
Maximum absorbed power	W	214,00	214,00
HRV fresh air filter			
Type		Pleated flat filter type	
Number	No.	1	1
Efficiency		ePM1	
VMC Extract air filter			
Type		Pleated flat filter type	
Number	No.	1	1
Efficiency		ePM1	
Heat recovery performance (A 7; A 20) (1)			
Sensible recovery efficiency	%	86	76
Heat exchanger			
Type		Countercurrent plates - polypropylene material	
Number	No.	2	2
Room side sound levels (UNI EN 3741; 3744) (2)			
Sound power transmitted to the Lw structure	dB (A)	65,0	65,0
Sound power radiated in the Lw channel	dB (A)	72,0	72,0
Average sound pressure at 1 m Lp	dB(A)	50,5	50,5
Average sound pressure at 3 m Lp	dB(A)	43,1	43,1
Electrical characteristics			
Power supply	V / ph / Hz	230 / 1 / 50	
Maximum total absorbed power	kW	428,0	428,0
Maximum total absorbed current	A	2,70	2,70

1. Efficiency according to UNI EN 13141-7 Outdoor temperature 7 °C - Outdoor humidity 72 % - Indoor temperature 20 °C - Indoor humidity 28 %.
2. Data refers to the UNI EN 3741 and UNI EN 3744 standards

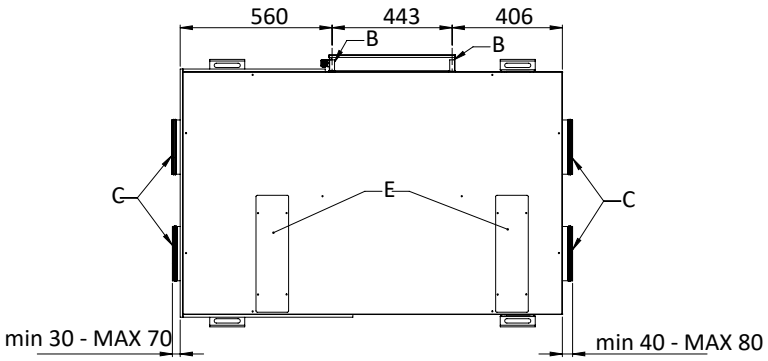
Models	u.m.	600-Horizontal-Sensible	600-Horizontal-Enthalpic
Protection rating	IP	x2	
Product dimensions			
Width	mm	1.479	1.479
Depth	mm	1.003	1.003
Height	mm	2.286	286
Weight	kg	65,0	65,0
Connections			
Air connections (Ø)	mm	200	200
Condensate drain connection	mm	18	18

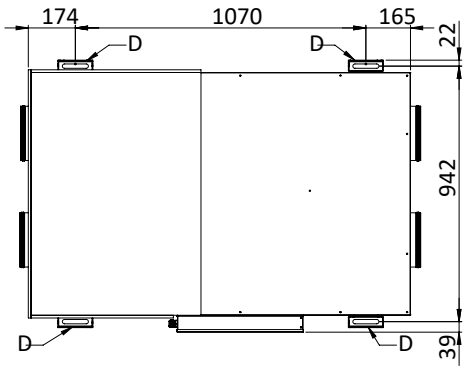
1. Efficiency according to UNI EN 13141-7 Outdoor temperature 7 °C - Outdoor humidity 72 % - Indoor temperature 20 °C - Indoor humidity 28 %.
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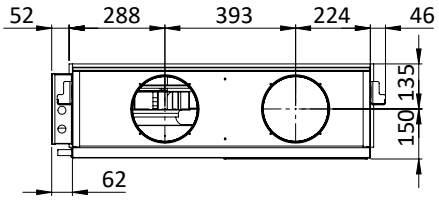
8.2 Dimensions

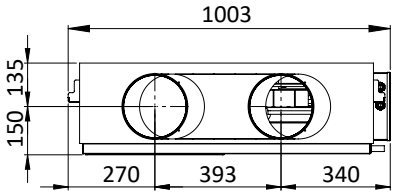
Size 600 - Configuration A

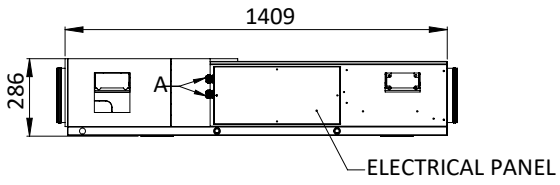
A	Power supply	**D**	Fixing holes
B	Condensate drain Ø18 mm	**E**	Filter port
C	Ø200 mm male nipple		

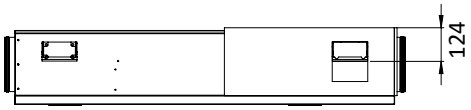






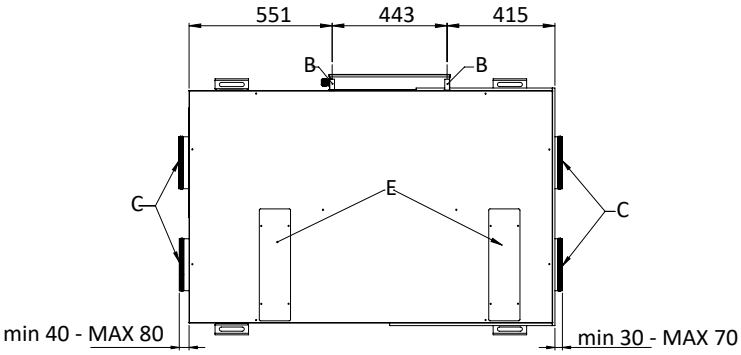


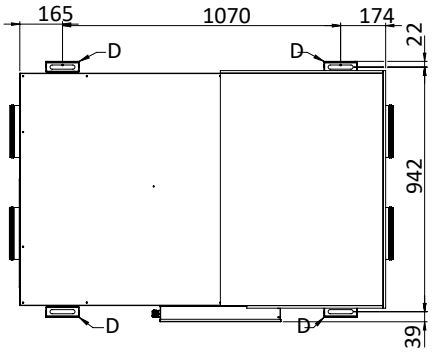


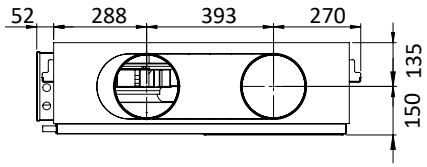


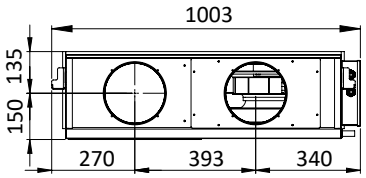
Size 600 - Configuration B

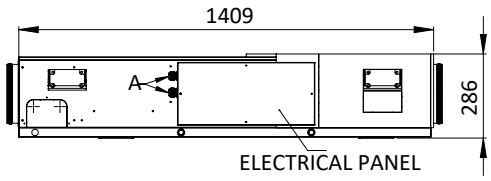
A	Power supply
B	Condensate drain Ø18 mm
C	Ø200 mm male nipple
D	Fixing holes
E	Filter port

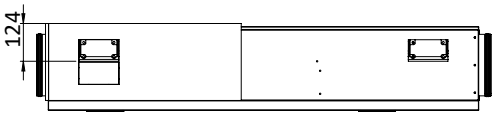












8.3 Ecodesign classification

600H

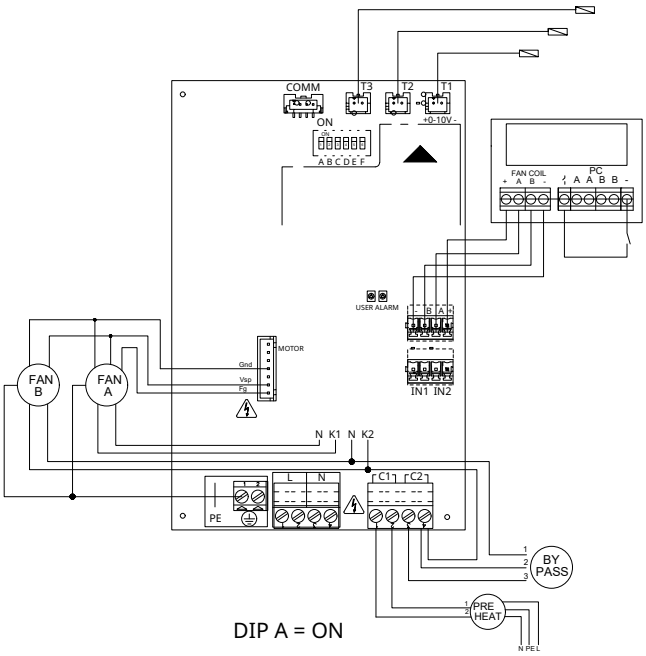
Product sheet for non-residential ventilation units (NRVU) pursuant to Regulation (EU) No. 1253/2014			
b)	manufacturer's model identifier;		EVHRP LARGE 600H
c)	Specific energy consumption SEC [kWh/(m^2·a)]	Cold	-75,8
		Average	-37,4
		Heating	-12,9
d)	SEC class		A
e)	Declared typology		RVU – Bidirectional
f)	Unit type		Variable speed
g)	Heat recovery type		Recuperative
h)	Thermal efficiency (%)		87,1
i)	Maximum air flow (m3/h)		630
j)	Power input (W)		428
k)	Sound power level (Lwa) in (dBA)		65
l)	Reference air flow (m3/s)		0,12
m)	Reference pressure (Pa)		50
n)	Specific power input SPI [W/(m^3/h)]		0,3
o)	Control factor		0,85
p)	Maximum leakage [%]	Internal	5,9
		Outdoor	6,5
q)	Mixing rate		Not applicable
r)	Position and description of the visual filter alarm		Symbolic message on the control panel
s)	Unidirectional system - Information on adjustable grilles		Not applicable
u)	Variation in air flow at +20 Pa and -20 Pa		Not applicable
v)	Internal/external air tightness rate (non-ducted units) [m^3/h]		Not applicable
W)	Annual electricity consumption AEC [kWh/(m2.a)]	Cold	891,1
		Average	354,1
		Heating	309,1
X)	Annual heating saved AHS [kWh/(m2.a)]	Cold	8935,5
		Average	4567,6
		Heating	2065,4

600 HX

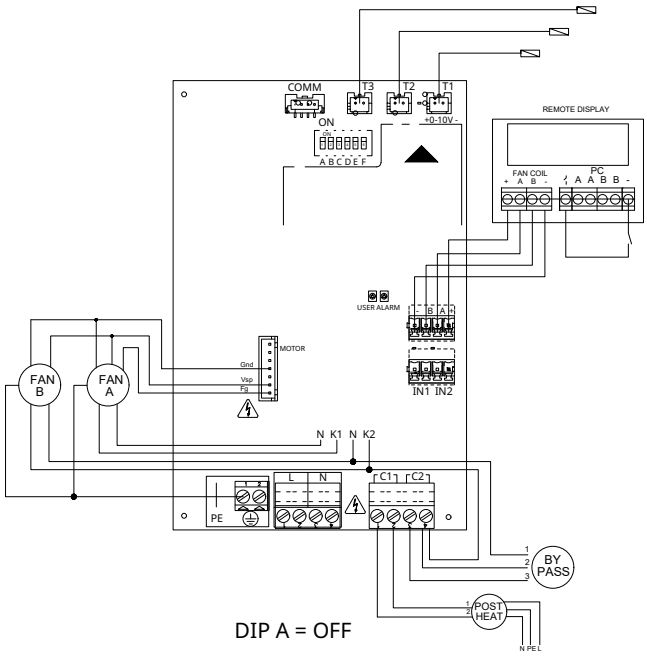
Product sheet for non-residential ventilation units (NRVU) pursuant to Regulation (EU) No. 1253/2014			
b)	manufacturer's model identifier;		EVHRP LARGE 60HX
c)	Specific energy consumption SEC [kWh/(m^2·a)]	Cold	-65,2
		Average	-32,0
		Heating	-10,4
d)	SEC class		B
e)	Declared typology		RVU – Bidirectional
f)	Unit type		Variable speed
g)	Heat recovery type		Recuperative
h)	Thermal efficiency (%)		68
i)	Maximum air flow (m3/h)		630
j)	Power input (W)		428
k)	Sound power level (Lwa) in (dBA)		65
l)	Reference air flow (m3/s)		0,12
m)	Reference pressure (Pa)		50
n)	Specific power input SPI [W/(m^3/h)]		0,3
o)	Control factor		0,85
p)	Maximum leakage [%]	Internal	5,9
		Outdoor	6,5
q)	Mixing rate		Not applicable
r)	Position and description of the visual filter alarm		Symbolic message on the control panel
s)	Unidirectional system - Information on adjustable grilles		Not applicable
u)	Variation in air flow at +20 Pa and -20 Pa		Not applicable
v)	Internal/external air tightness rate (non-ducted units) [m^3/h]		Not applicable
W)	Annual electricity consumption AEC [kWh/(m2.a)]	Cold	893,9
		Average	356,9
		Heating	311,9
X)	Annual heating saved AHS [kWh/(m2.a)]	Cold	7891,6
		Average	4034,0
		Heating	1824,1

9. WIRING DIAGRAM

9.1 Wiring diagram for preheater and postheater electric coils with heaters

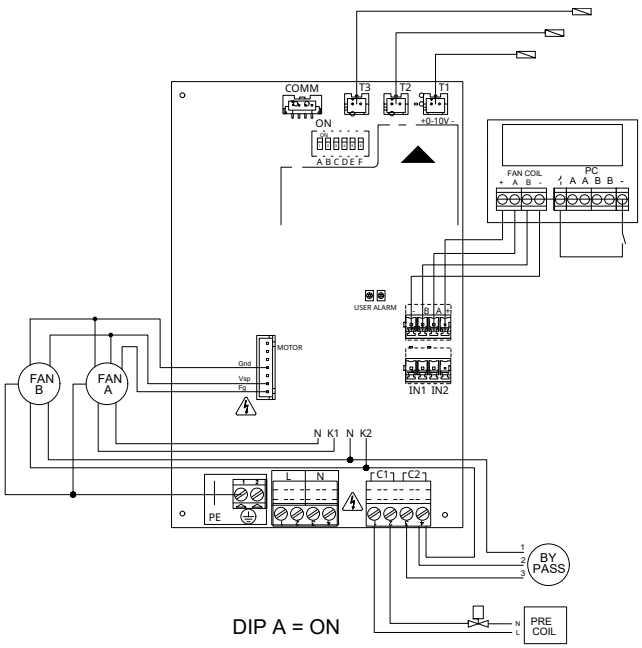


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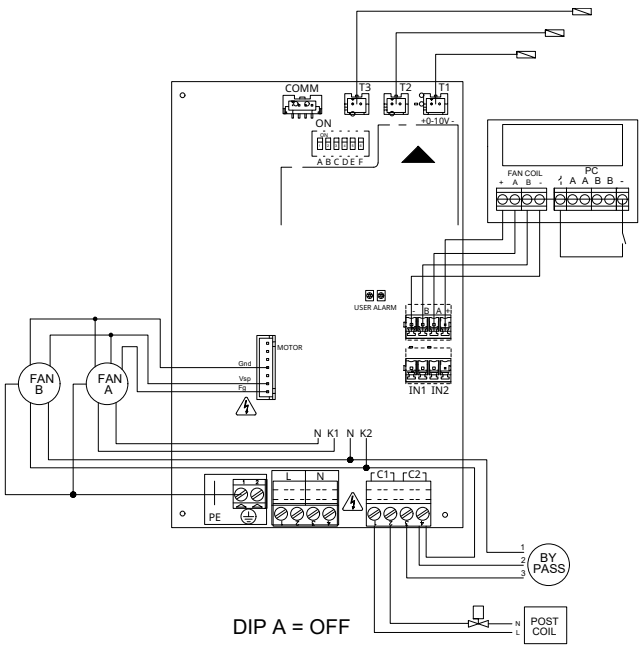


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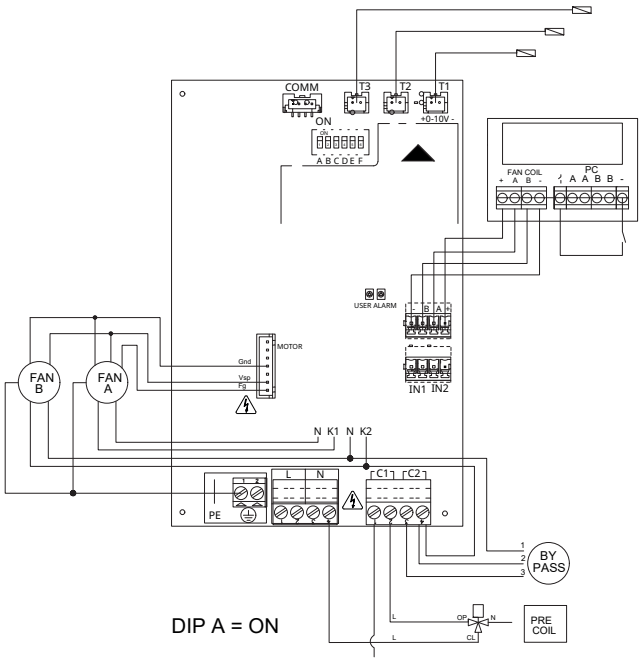
9.2 Water coil wiring diagram



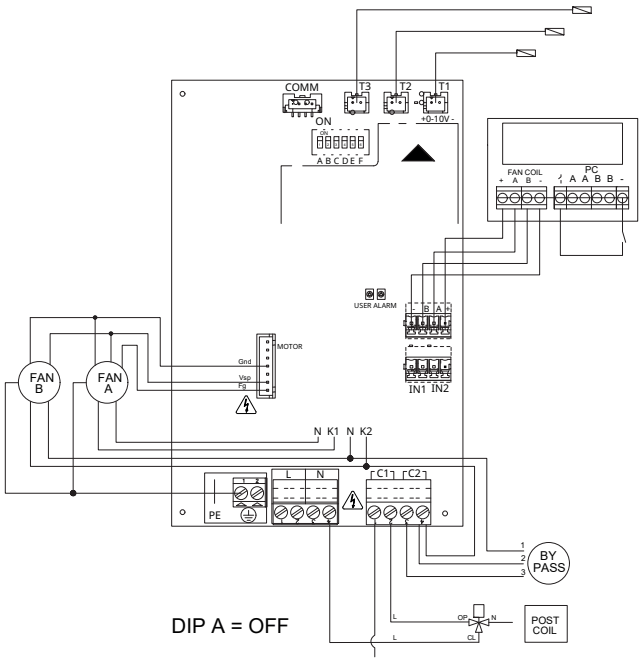
DIP A = ON



DIP A = OFF



DIP A = ON



DIP A = OFF