

Installation and Control
Installation Manual
(original instructions)

EN

Panasonic[®]

N421133A - Rev.02 - 12/2024

RAC Solo

P-MOG16*

First of all, we would like to thank you for having chosen a device of our production.

We are sure you will be happy with it because it represents the state of the art in the technology of home air conditioning.

By following the suggestions contained in this manual, the product you have purchased will provide trouble free operation, giving you optimum room temperatures with minimum energy costs.

Panasonic Corporation

Conformity

This unit complies with the European directives:

- EN 60335-2-40 Household and similar electrical appliances - Safety Part 2-40: Particular requirements for electrical heat pumps, air-conditioners and dehumidifiers
- Low voltage 2014/35/EU
- EMC 2014/30/EU
- RED 2014/53/EU on the harmonisation of the laws of the Member States relating to the making available on the market of radio equipment

- RoHS 2011/65/UE
- 2017/1369/EU on energy labelling
- 2009/125/CE implementing regulation 206/2012/EU and Italian implementing regulation Legislative Decree no. 15 of 16/02/2011

And subsequent amendments.

⚠ For declarations of conformity, certificates and other certification details please consult the website.

Markings



TABLE OF CONTENTS

| | |
|----------------------------------|---|
| 1. Coding | 4 |
| 1.1 Product related coding | 4 |

| | |
|-------------------------------------|---|
| 2. General information | 5 |
| 2.1 About the manual | 5 |
| 2.2 General warnings | 6 |
| 2.3 Basic rules of security | 7 |
| 2.4 Disposal | 7 |

| | |
|--|----|
| 3. Product presentation | 9 |
| 3.1 Identification | 9 |
| 3.2 Destination of use | 9 |
| 3.3 Description of the appliance | 9 |
| 3.4 Components | 10 |
| 3.5 Compatible accessories | 11 |

| | |
|---|----|
| 4. Installation | 12 |
| 4.1 Preliminary warnings | 12 |
| 4.2 Reception | 12 |
| 4.3 Dimensions and weights with packaging | 13 |
| 4.4 Handling with packaging | 13 |
| 4.5 Storage | 14 |
| 4.6 Unpacking | 14 |
| 4.7 Handling without packaging | 15 |
| 4.8 Installation site | 15 |
| 4.9 Installation mode | 16 |
| 4.10 Installation minimum distances | 17 |
| 4.11 Positioning | 17 |
| 4.12 Condensation drain preparation | 21 |
| 4.13 Electric connections | 22 |
| 4.14 High/low installation configuration | 24 |
| 4.15 Operations after installation | 25 |
| 4.16 Removal of aesthetic panels and grilles | 25 |
| 4.17 Assembly of aesthetic panels and grilles | 27 |

| | |
|--|----|
| 5. Touchpad and remote control | 28 |
| 5.1 Interface | 28 |
| 5.2 Basic menu | 28 |
| 5.3 Advanced Menu | 29 |
| 5.4 Visualisation of alarms on display | 30 |

| | |
|--|----|
| 6. Wall-mounted control Coding PCZ-EEB749 | 31 |
| 6.1 Interface | 31 |
| 6.2 Installation | 32 |
| 6.3 Single connection diagram | 33 |
| 6.4 Connections | 34 |
| 6.5 Basic menu | 34 |
| 6.6 Advanced Menu | 36 |
| 6.7 Alarm display on wall control panel | 36 |

| | |
|--|----|
| 7. Wall-mounted control Coding PCZ-EFB749 | 37 |
| 7.1 Interface | 37 |
| 7.2 Installation | 38 |
| 7.3 Single connection diagram | 39 |
| 7.4 Multiple connection diagram | 40 |
| 7.5 Connections | 41 |
| 7.6 Functions | 42 |

| | |
|--------------------------------|----|
| 8. Maintenance | 45 |
| 8.1 Preliminary warnings | 45 |
| 8.2 Routine maintenance | 45 |


| | |
|---|----|
| 9. Troubleshooting | 47 |
| 9.1 Troubleshooting table | 47 |
| 9.2 Diagnosis of possible anomalies | 47 |

| | |
|--|----|
| 10. Technical information | 49 |
| 10.1 Technical data | 49 |
| 10.2 Dimensions | 51 |
| 10.3 RED Compliance Statement | 51 |
| 10.4 Safety | 51 |
| 10.5 FCC Declaration of Conformity | 52 |

1. CODING

1.1 Product related coding

This instruction manual refers to the following product codes.


 Check the correspondence with the technical rating plate on the product. See chapter "Identification" *p. 9*.


| Code | Size | Connection side | Control Panel | Valves |
|--------------|------|-----------------|---------------|--------|
| P-MOG16IC5-E | 16 | - | - | - |


2. GENERAL INFORMATION


2.1 About the manual

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

 This instruction manual forms an integral part of the device and therefore must be carefully preserved and must ALWAYS travel with it, even if you transfer the device to another owner or relocate it to other premises. If the manual gets 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.

 The Manufacturer accepts no liability for damages to persons or property caused by failure to follow the instructions in this manual.

 This document is restricted in use to the terms of the law and may not be copied or transferred to third parties without the express authorisation of the Manufacturer.

2.1.1 Editorial pictograms

The pictograms in the next chapter provide the necessary information for correct and safe use of the machine in a rapid and unmistakable way.

Related to security

High risk warning (bold text)

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

Prohibition (plain text)

- Refers to prohibited actions.

Important information (bold text)

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

In the texts

- ▶ procedures
- lists


In the control panels


- ▶ actions required
- Expected responses following an action.*

In the figures

1 The numbers indicate the individual components.

A The capital letters indicate component assemblies.

 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.

2.1.2 Pictograms on the product

Symbols are used in some parts of the device:

Related to security



Read instruction manual

- Read the instructions carefully before performing any work on the device.



Instruction manual

- Read the information available in the technical documentation of the device.



Caution: electrical danger

- The concerned personnel is informed to the presence of electricity and the risk of suffering an electric shock.

Related to refrigerant R290



Caution: low flammability material

- R290 refrigerant gas is flammable and odourless. Avoid proximity to ignition sources in continuous operation (open flames, gas appliances, electric stoves, burning cigarettes, etc.).



Instructions for the Authorised Service Centre

- The Authorised Service Centre must read the instructions carefully before performing any work on the appliance.

2.1.3 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.

To work on the refrigeration circuit, the installer must comply with the provisions of Regulation 303/2008/EC which defines, in accordance with Directive 842/2006/EC, the requirements for companies and personnel with regard to fixed refrigeration, air conditioning and heat pump equipment containing certain fluorinated greenhouse gases (F-gas licence).

Authorised Service Centre

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 itself.

Service personnel must comply with the provisions of Regulation 303/2008/EC which defines, in accordance with Directive 842/2006/EC, the requirements for companies and personnel with regard to fixed refrigeration, air conditioning and heat pump equipment containing certain fluorinated greenhouse gases (F-gas licence).

2.1.4 Manual organisation

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

Coding

It addresses all recipients.

It contains the list of products and/or accessories referred to in the manual.

General information

It addresses all recipients.

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

Product presentation

It addresses all recipients.

It contains the information to identify the product, its components, compatible accessories and destination of use.

Installation

It is addressed exclusively to the installer.

It contains specific warnings and all the information necessary for positioning, mounting and connecting the appliance.

Commissioning, maintenance and troubleshooting

They are addressed exclusively to the Authorised Service Centre.

It contains specific warnings useful information for the most common commissioning and routine maintenance.

Technical information

It addresses all recipients.

It contains detailed technical information about the appliance.

2.2 General warnings

⚠ Specific warnings are given in each chapter of the document and must 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.

⚠ The installation and maintenance of climate control equipment could be dangerous because there is pressurised refrigerant gas and live electrical components inside the appliances. The installation and subsequent maintenance phases must be carried out exclusively by authorised and qualified personnel.

⚠ 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.

⚠ Only suitably qualified installers are authorised to install the device. After having completed installation, the installer will issue a declaration of conformity to the plant manager, as required by the applicable standards and the guidelines provided by contractor's instruction manual supplied with the device.

⚠ First start-up and repair or maintenance operations must be carried out by the Technical Assistance 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 the event of liquid or oil leaks, set the main switch of the plant to "OFF" and isolate water taps where applicable. Call the Authorised Service Centre or professionally qualified personnel as soon as possible and do not work on the appliance yourself.

⚠ In case of replacement of parts, use only original 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 unit can be used by children over the age of 8, and by people with reduced physical, sensory or mental capabilities, or with no experience or necessary knowledge, as long as they are monitored or after they have received instructions on the safe use of the unit and have understood the dangers involved. Children must not play with the appliance. The cleaning and maintenance that must be performed by the user should not be carried out by children without supervision.

2.2.1 Specific warnings for R290

i This document contains only some of the warnings related to the refrigerant R290. For more comprehensive information, carefully read the safety data sheet available from the dealer.

⚠ Each chapter contains specific warnings for the operations it describes. These warnings must be read before starting activities.

⚠ All precautions concerning the treatment of the refrigerant must be observed following the regulations in force.

⚠ The unit uses environmentally friendly R290 refrigerant gas, with a Global Warming Potential (GWP) = 3. Do not release R290 gas into the atmosphere.

⚠ R290 refrigerant gas is flammable and odourless.

⚠ Do not place flammable objects (spray cans) within 1 metre of the air outlet.

⚠ Avoid proximity to sources of ignition in continuous operation (open flames, gas appliances, electric stoves, lighted cigarettes, etc.).

⚠ If refrigerant gas escapes, ventilate the room abundantly and leave. Call the Authorised Service Centre or professionally qualified personnel as soon as possible and do not intervene on the appliance yourself.

2.3 Basic rules of security

Please keep in mind that the use of products powered by electricity and water call for operators to comply with certain essential safety rules:

⊖ It is forbidden to touch the device 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 main switch to "OFF".

⊖ It is forbidden to modify the safety or adjustment devices, or adjust without authorisation and indications of the Manufacturer.

⊖ It is forbidden to pull, unplug or twist the device's electric cables, even if it is disconnected from the mains.

⊖ It is forbidden to introduce objects and substances through the air inlet and outlet grilles.

⊖ It is forbidden to open the access doors of the device's internal parts without first having set main switch of the system to "OFF".

⊖ It is forbidden to incorrectly dispose of the packaging, or leave in the reach of children, which may become a source of danger.

2.3.1 Specific safety rules for R290

i This document contains only some of the safety rules related to refrigerant R290. For more comprehensive information, carefully read the safety data sheet available from the dealer.

⊖ Smoking in the vicinity of the appliance is prohibited.

⊖ Using a mobile phone near the appliance is prohibited.

⊖ Using leak detectors with halogen lamps is prohibited.

2.4 Disposal



The symbol on the product or packaging indicates that the product must not be treated as normal household waste, but must be taken to the appropriate collection point for recycling of used electrical and electronic equipment and batteries.

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 valid in the EU Member States.

⚠ Avoid disassembling the unit yourself.

⚠ This unit contains fluorinated greenhouse gases covered by the Kyoto Protocol. Maintenance and disposal operations must be carried out by qualified personnel only.

⚠ Contact an Authorised Service Centre to disassemble the appliance.



This symbol might be used in combination with a chemical symbol.

In this case, it complies with the requirement set by the Directive for the chemical involved.

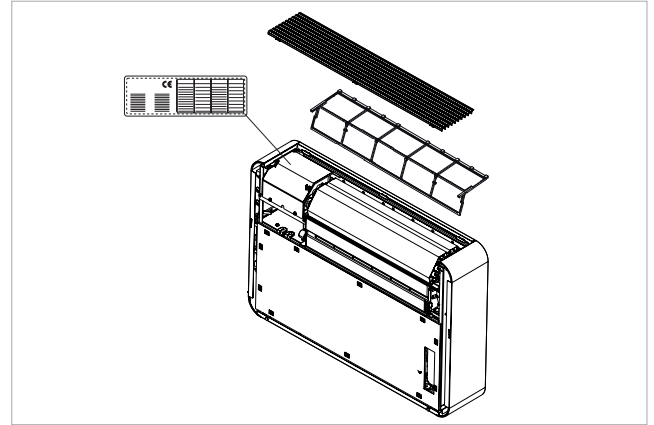
3. PRODUCT PRESENTATION

3.1 Identification

The appliance can be identified by the rating plate:

Technical rating plate

- ⚠ According to EU Regulation No. 517/2014 concerning certain fluorinated greenhouse gases, it is mandatory to indicate the total amount of refrigerant present in the installed system. This information can be found on the rating plate of the unit.
- ⚠ Tampering with, removal of, or lack of identification plates will not allow for the safe identification of the product by its serial number and therefore invalidates the warranty.



3.2 Destination of use

These appliances have been designed for conditioning and/or heating rooms and they must be destined solely for

this purpose, in accordance with their performance characteristics.

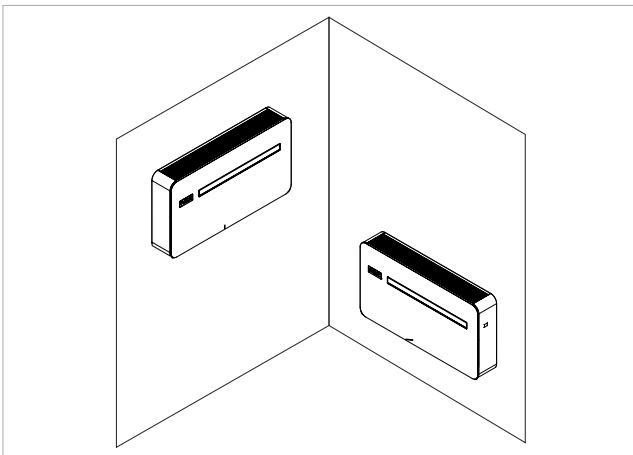
⊖ It is forbidden to use the device other than as indicated.

3.3 Description of the appliance

The RAC Solo air conditioners without an external unit are designed for indoor installation on a perimeter wall at the top or bottom, in a vertical position.

Inverter technology allows you to optimise the power for maximum comfort. The Dual Power function allows the required temperature to be reached in the shortest possible time (Inverter models only). Control is via a touch panel located on the unit or via a remote control.

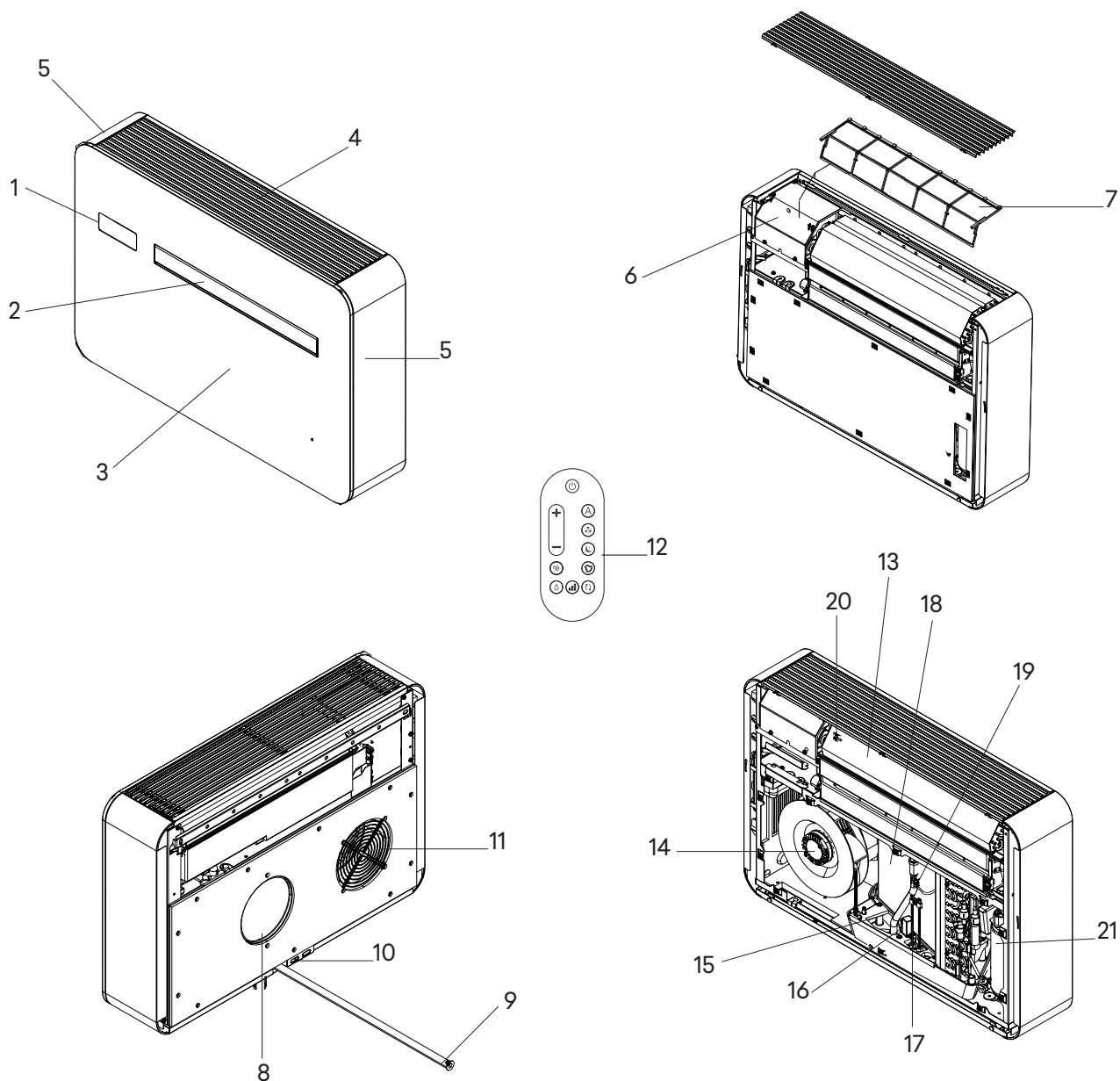
The appliance uses the refrigerant R290.






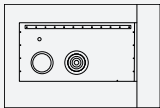
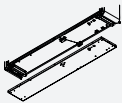
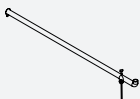
3.4 Components

| | |
|-----|------------------------------|
| 1. | Control Panel |
| 2. | Air outlet deflector |
| 3. | Front panel |
| 4. | Intake grid |
| 5. | Aesthetic side panel |
| 6. | Electrical compartment cover |
| 7. | Air filter |
| 8. | Air expulsion |
| 9. | Condensate drain |
| 10. | Anti-lifting bracket |
| 11. | Air intake |

| | |
|-----|--------------------------|
| 12. | Remote control |
| 13. | Internal exchanger |
| 14. | External fan |
| 15. | Condensation pump |
| 16. | Condensation drain valve |
| 17. | Floater |
| 18. | External exchanger |
| 19. | External air probe |
| 20. | Room air probe |
| 21. | Compressor |



3.5 Compatible accessories

| | Accessory description | Combinable products | Code |
|---|--|---------------------|------------|
| Wall-mounted control panels | | | |
| Control panels | | | |
|  | LED electronic control panel with touch interface, wall mounted complete with thermostat and room temperature and relative humidity probe. Cable connection. White colour | All | PCZ-EEB749 |
| | LED electronic control panel with touch interface, wall-mounted complete with thermostat and room temperature and relative humidity probe with integrated Wi-Fi module. Cable connection. White colour | All | PCZ-EFB749 |
| Grids and other accessories | | | |
|  | Kit n. 2 external grilles with fixed fins 160 mm for outdoor. | All | PCZ-GB0738 |
|  | Kit n. 1 insect protection for intake hole only. Can only be applied to fixed outside grilles DN 160 mm. | All | PCZ-GB0755 |
| Side exit formwork | | | |
|  | Recessed formwork for corner installation with right-hand exit, depth: 165 mm | All | PCZ-L00773 |
| | Recessed formwork for corner installation with left-hand exit, depth: 165 mm | All | PCZ-L00774 |
| Bottom cover kit | | | |
|  | Aesthetic kit lower side cover | All | PCZ-GB1105 |
| Liquid drain pipe | | | |
|  | Condensate drain pipe heating kit | All | PCZ-GB1119 |

4. INSTALLATION

4.1 Preliminary warnings

- ⚠ **This section is dedicated to the Installer. The features of the installer are described in the "Recipients" p. 5 chapter.**
- ⚠ **For detailed information on the products, refer to chapter "Technical information" p. 49**
- ⚠ The installation must be carried out by the installer in accordance with national installation regulations. There is a risk of water leakage, electric shock or fire if the installation is not performed correctly.
- ⚠ During the installation, it is necessary to observe the precautions mentioned in this manual, and on the labels placed inside the equipment, as well as to adopt any precaution suggested by common sense and by the Safety Regulations in force in the place of installation.
- ⚠ Be sure to use the supplied or specified installation parts. Use of other parts may cause the unit to come loose, leak water, or cause electrical shock, or fire.
- ⚠ The Manufacturer accepts no liability for damage caused to animals or property due to failure to apply the indicated rules which may cause malfunction of appliances.
- ⚠ The air conditioners without an external unit are designed for indoor installation. The only components suitable for outdoor use are the external grilles for air inlet and outlet.

4.1.1 Preliminary warnings for R290

- ⚠ Safety checks must be carried out to ensure that the risk of combustion is minimised before starting work on systems containing flammable refrigerants.
- ⚠ The appliance must be protected against accidental impacts to prevent mechanical damage.
- ⚠ Do not puncture or burn.

4.2 Reception

4.2.1 Preliminary warnings

- ⚠ On receipt check for any damage and, if any is found, accept the goods with reservation, and keep photographic evidence of any damage found
- ⚠ The package must be transported in an upright position; otherwise, notify the carrier immediately.
- ⚠ In the event of damage, notify the shipper within 3 days of receipt of any damage by registered mail with return receipt, submitting photographic evidence. Similar information should be sent by fax to the manufacturer (jurisdiction will be at the Court Trento for any dispute).
- ⚠ No notice of damage will be accepted after 3 days from delivery.
- ⚠ Unpack and check the contents of individual components against the packing list.

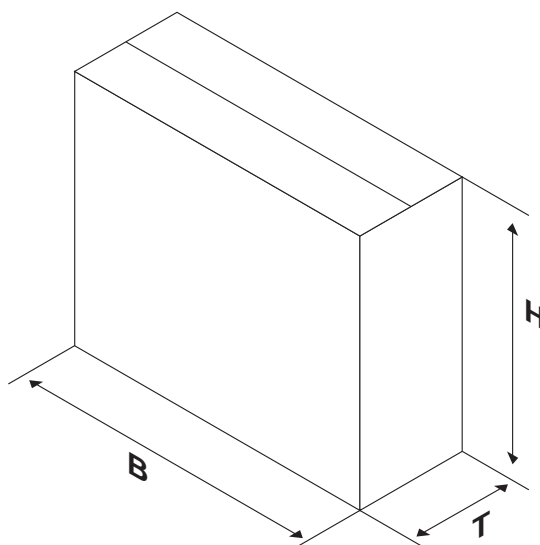
4.2.2 Package description

The packaging is made of suitable material and carried out by experienced personnel.

All units are checked and tested and are delivered complete and in perfect condition.

The appliance is shipped in standard packaging consisting of a cardboard sleeve and a set of expanded polystyrene protectors.

4.3 Dimensions and weights with packaging



| Models | m.u. | 16 |
|---|------|------|
| Dimensions and weight for shipping | | |
| Width | mm | 905 |
| Height | mm | 670 |
| Total depth | mm | 255 |
| Weight | kg | 42,0 |

4.4 Handling with packaging

4.4.1 Preliminary warnings

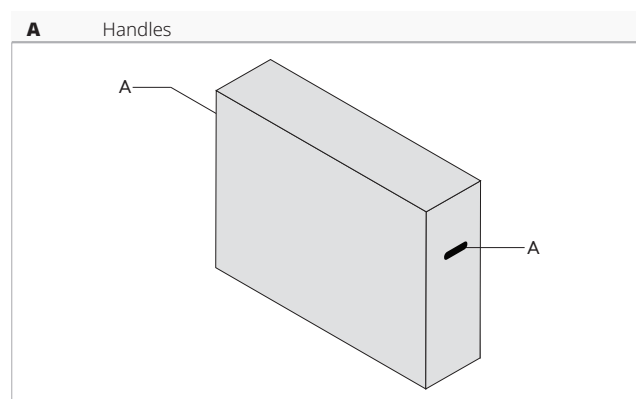
- ⚠ The appliance must be handled only by qualified personnel, adequately equipped and with equipment suitable for the weight and dimensions of the appliance.
- ⚠ Stay clear of the area below and around it when the load is lifted off the ground.
- ⚠ Avoid dangerous situations when using a hoist to lift the appliance.
- ⚠ During transportation, the unit must be kept in vertical position.
- ⚠ Avoid exposure to sources of ignition (open flames, lighted cigarettes, sources of heat or sparks) when opening the packaging.

4.4.2 Movement methods

Boxes can either be carried singularly by hand by two operators or loaded on a forklift truck evenly stacked.

- ⚠ Check the indications on the packaging for the number of packages that may be stacked together.
- ⚠ In manual operation it is compulsory to always respect the maximum weight per person provided for by the national laws and standards.

- ⚠ Use the handles provided on the packaging.



4.5 Storage

4.5.1 Preliminary warnings

- ⚠ Store in accordance with the applicable national regulations.
- ⚠ Store the box in a closed environment protected from atmospheric agents and isolate it from the floor using planks or pallets.
- ⚠ Do not turn the packaging upside down.
- ⚠ Only place the appliance in a vertical position.

⚠ Store in a clean and dry place.

Specific warnings for R290

- ⚠ Store the unit in such a way as to avoid mechanical damage.
- ⚠ Check the national/local legislation in force, regarding fire regulations. The refrigerant contributes to the fire load. (149 g R290).

4.6 Unpacking

4.6.1 Preliminary warnings

- ⚠ 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 municipality.
- ⚠ Handle with care.
- ⚠ The equipment must always be handled vertically.
- ⚠ Check if there is refrigerant inside the package using an electronic leak detector suitable for the system refrigerant. If it is present, the refrigeration circuit is likely damaged. In this case, do not install the appliance and call the Authorised Service Centre.

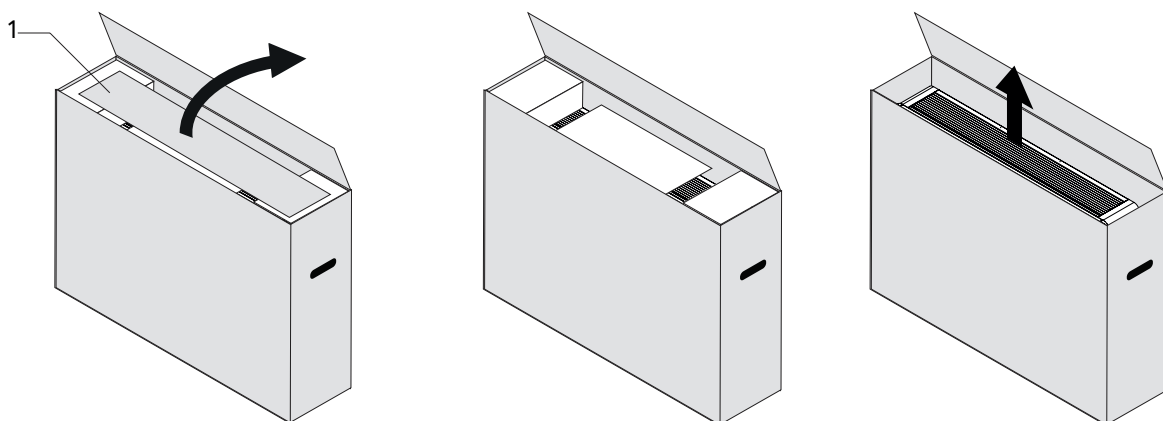
⊖ The packing material (cardboard, staples, plastic bags, etc.) must not be dispersed or abandoned in the surrounding environment and must be kept out of the reach of children, as it poses a risk of danger.

Specific warnings for R290

- ⚠ Check that there are no sources of ignition in continuous operation (open flames, gas appliances, electric stoves, lighted cigarettes, etc.).
- ⊖ Using leak detectors with halogen lamps is prohibited.
- ⊖ Smoking in the vicinity of the appliance is prohibited.
- ⊖ Using a mobile phone near the appliance is prohibited.

4.6.2 Remove the package

1. Polystyrene elements



Remove the packing:

- ▶ open the cardboard packaging
- ▶ remove the polystyrene elements

- ▶ remove the accompanying components
- ▶ remove the appliance from the box

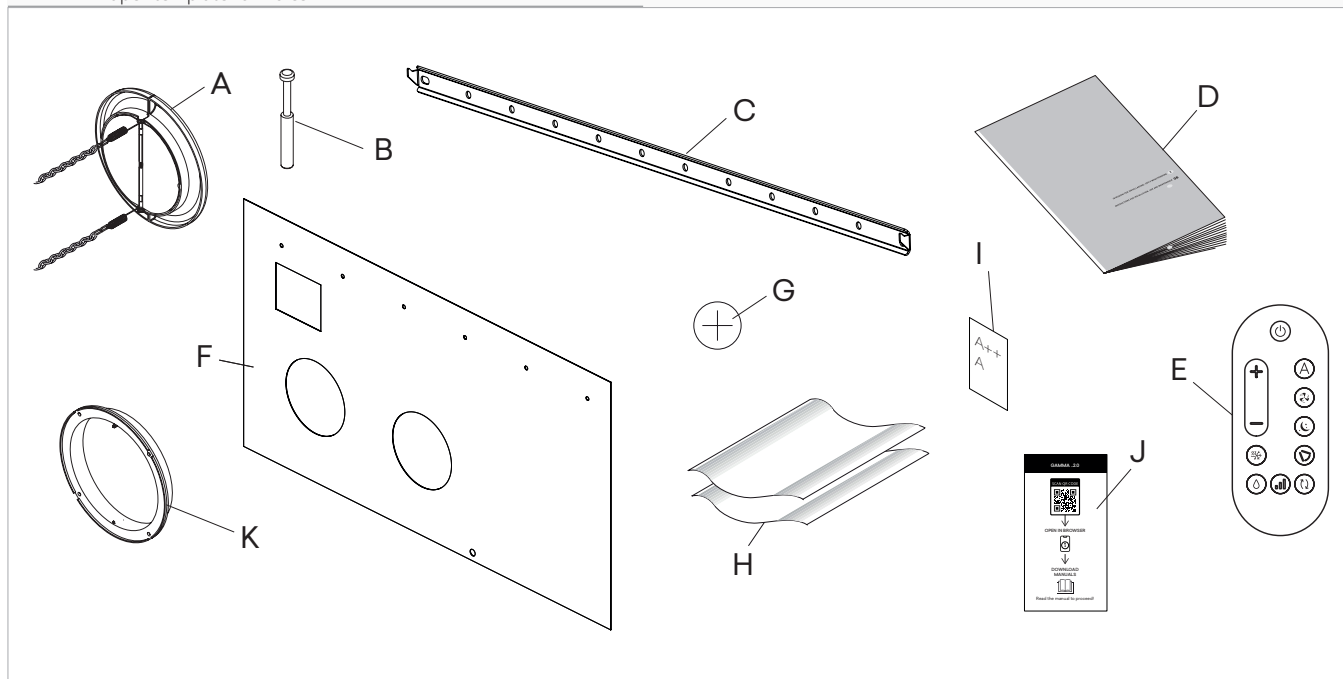
Accompanying material

They are included with the appliance, inside the packaging:

- ⚠ Check the presence of the individual components.

| | |
|----------|---|
| A | External fixed grid for air inlet and outlet (2 pcs front view) |
| B | Screws and dowels kit (6 pcs) |
| C | Wall mounting bracket |
| D | Instruction sheet for manual download |
| E | Remote control |
| F | Paper template for holes |

| | |
|----------|------------------------------------|
| G | CR2025 3V remote control battery |
| H | Wall-mounted roll-up tubes (2 pcs) |
| I | Energy efficiency label |
| J | QR Code scan label |
| K | Internal flanges |



4.7 Handling without packaging

4.7.1 Preliminary warnings

- ⚠ The appliance must be handled only by qualified personnel, adequately equipped and with equipment suitable for the weight and dimensions of the appliance.
- ⚠ The appliance is unbalanced on the right (compressor side)

4.7.2 Movement methods

- ⚠ The unit can be moved manually for short distances. In this case it is necessary to check carefully that the weight of the unit does not exceed the regulations in relation to the number of people used.

4.8 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. This appliance is designed for vertical, low-wall or high-wall indoor installation.

- ⚠ The appliance must be installed against a wall communicating with the outside.
- ⚠ The appliance is stated as having an IPX0 protection rating, therefore it is not suitable for outdoor installation and in rooms with high levels of humidity (swimming pool rooms, etc.).
- ⚠ The unit can be installed at a maximum altitude of 2700 m.

4.8.1 Preliminary warnings

- ⚠ Avoid installing the unit near:

- 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 humid environments (laundries, greenhouses, etc.)
- environments with aggressive atmospheres
- solar radiation and proximity to heat sources

- ⚠ Avoid placing the unit within 1 metre of radio and video equipment.
- ⚠ Do not install over heat sources.
- ⚠ Make sure 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 structure is able to support the weight of the appliance
- the supporting structure section does not feature building supporting elements, pipes or power lines
- 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 appliance is installed incompletely or on an inappropriate base, it could cause damage to persons or property if it should detach from its base.

⚠ The unit should not be installed in a position where the air flow is aimed directly at the people nearby.

- ⚠ Provide the following:
- a nearby drain for the outflow of condensate
 - a compliant power supply nearby
 - fixing elements suitable for the type of support

Specific warnings for R290

⚠ The installation of the unit does not have any special requirements (such as minimum area, room ventilation requirements or sensors) in relation to the use of refrigerants as the quantity used is less than 149 gr.

4.9 Installation mode

⚠ For ideal installation and performance levels, carefully follow the instructions in the manual.

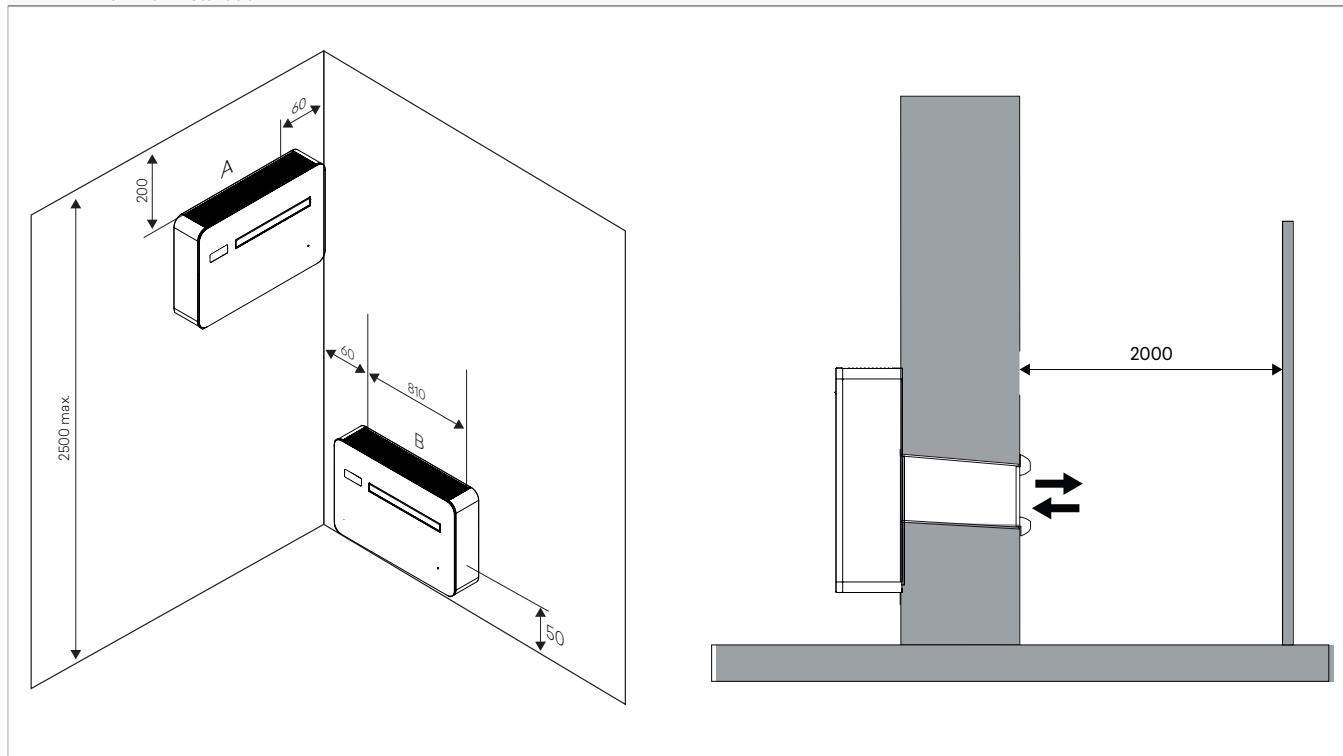
⚠ Failure to do so may cause system malfunctions and automatically voids the warranty, and relieves the manufacturer of any harm caused to person, animals or property.

4.10 Installation minimum distances

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

⚠ Make sure that there is sufficient space to allow the panels to be removed for routine and supplementary maintenance operations.

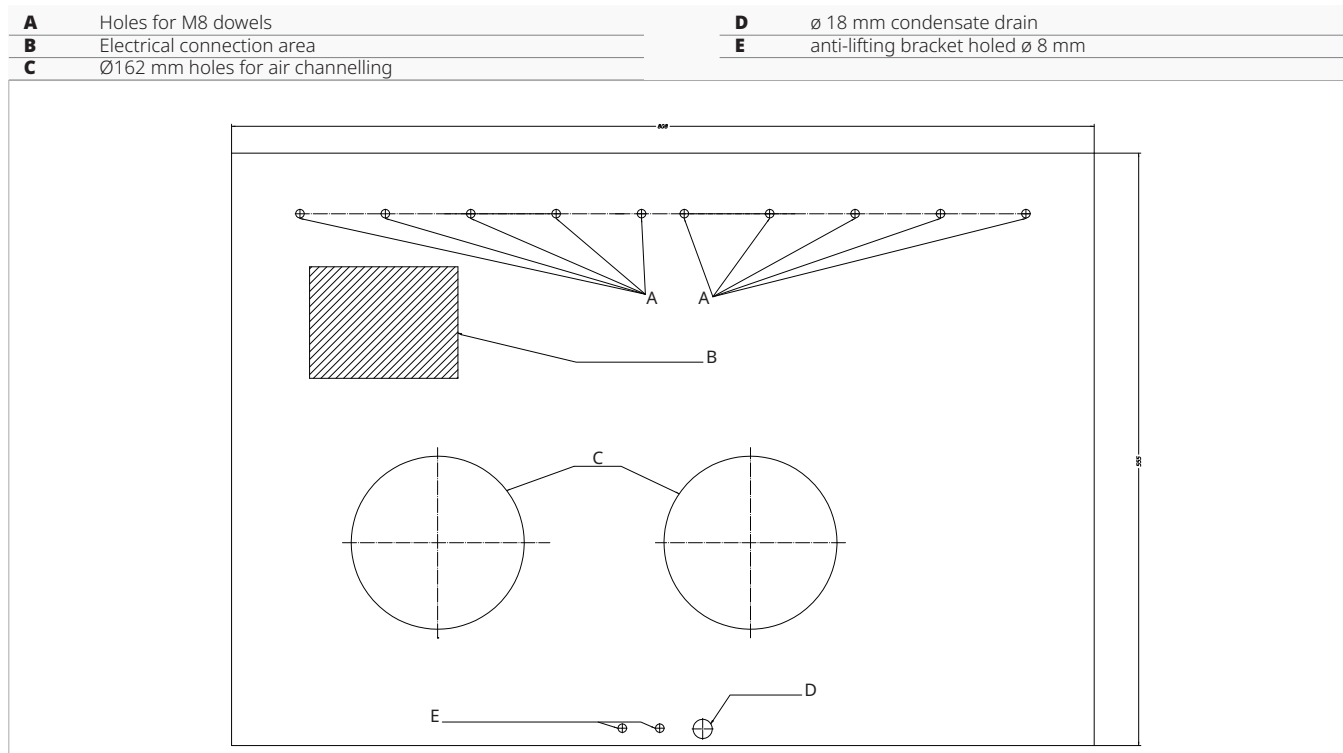
- A** High wall installation
B Low wall installation



4.11 Positioning

The units can be wall-mounted upwards or downwards. The units are supplied with a paper template for marking the holes necessary for installation.

⚠ Hold the template in the correct position with tape.



4.11.1 Preliminary warnings

- ⚠ The unit requires two or more people to position the unit.
- ⚠ The wall mounting bracket supplied as an accessory is required to position the unit on the wall.
- ⚠ Ensure that:
 - the wall supports the weight of the appliance
 - the section of the wall does not contain piping or electrical lines
 - the functionality of load-bearing elements is not compromised

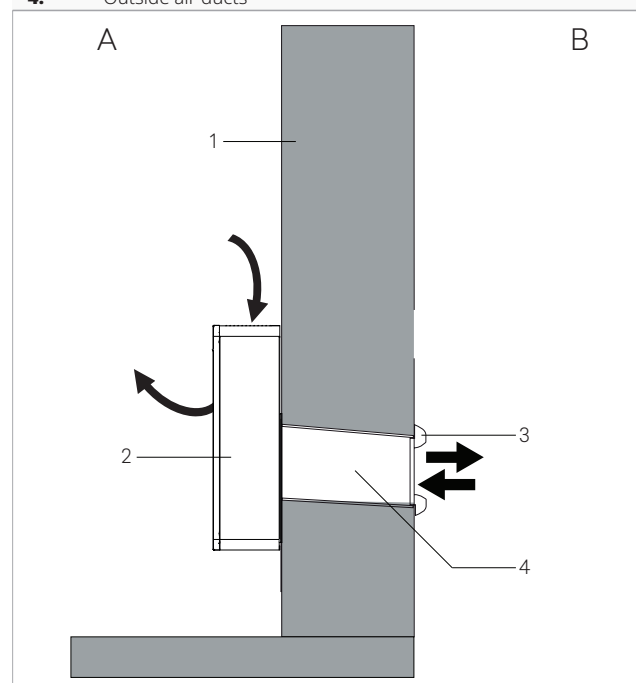
4.11.2 Installation arrangement

The units can be positioned on the floor or on a high or low wall.

- ⚠ Air conditioners without an external unit are designed for indoor installation on a perimeter wall.

Wall drilling for ducts

| | |
|-----------|---------------------------------------|
| A | Side of the wall towards the interior |
| B | Side of the wall towards the exterior |
| 1. | Perimeter wall |
| 2. | Unit |
| 3. | Return and expulsion grilles |
| 4. | Outside air ducts |



► position the paper template

- ⚠ Respect the distances indicated in chapter "Installation minimum distances" p. 17.
- mark the positions of the holes for the ducts
- use a drill
- drill a pilot hole

- ▶ use a core drill
- ▶ drill the through hole into the wall
- ▶ keep a downward inclination toward the external side

⚠ The maximum length of the holes is 1 meter.

⊖ Curves are prohibited.

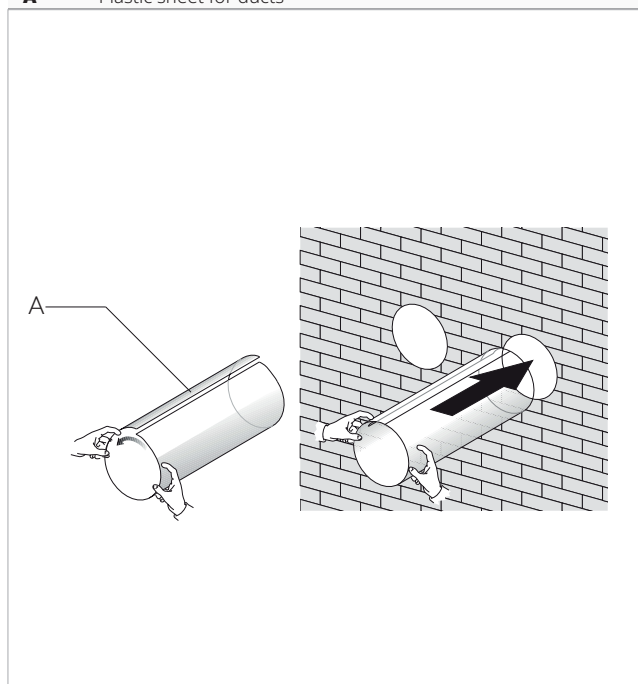
⚠ To prevent the creation of large quantities of dust and debris in the room it is recommended to couple the core drill to a vacuum system.

⚠ Proceed with caution in the vicinity of the outer wall in order to avoid the breakage of plaster around the hole.

⚠ Take precautions so that the drilled material does not fall on persons and objects below.

Positioning the ducts

A Plastic sheet for ducts



- ▶ measure the depth of the holes drilled in the wall
- ▶ subtract 5 mm from the measurement
- ▶ cut the plastic sheets supplied to size
- ▶ roll the plastic sheet
- ▶ insert the rolled sheet into the hole
- ▶ position so that the edges of the sheet are 2 mm inside both ends of the hole

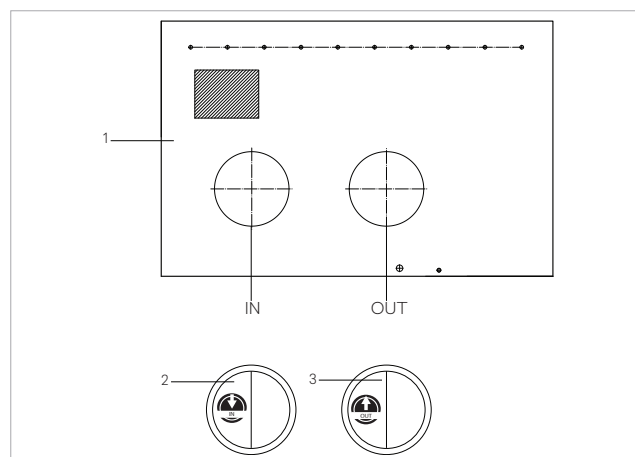
Positioning outside air dampers

Before proceeding with the installation of the external air dampers, it is necessary to discern the one to be positioned on the air intake from the one intended for the expulsion. The dampers are identified with the labels:

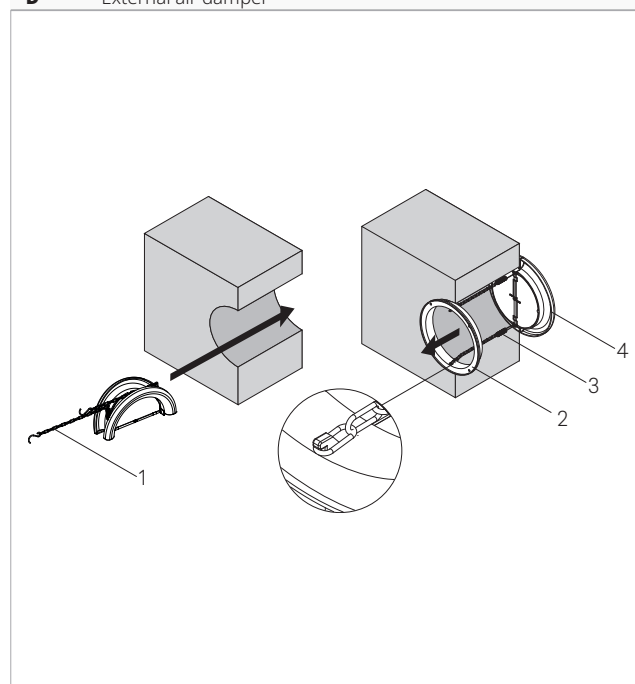
IN: air intake damper

OUT: air delivery damper

⚠ Use only the dampers supplied with the unit.



| | |
|----------|---------------------|
| A | Chain |
| B | Counterflange |
| C | Spring |
| D | External air damper |



- ▶ fold the damper
- ▶ insert it in the duct until it comes out on the other side of the wall
- ▶ hold the chains with the other hand so that the damper does not fall
- ▶ open the damper outside of the hole
- ▶ rotate the damper so that the flaps are in vertical position
- ▶ insert the counterflange in the hole toward the interior of the room
- ▶ rotate it so that the hooks are in vertical position
- ▶ pull the chains so that the springs are in tension
- ▶ hook the chains to the counterflange
- ▶ cut off the excess of chain

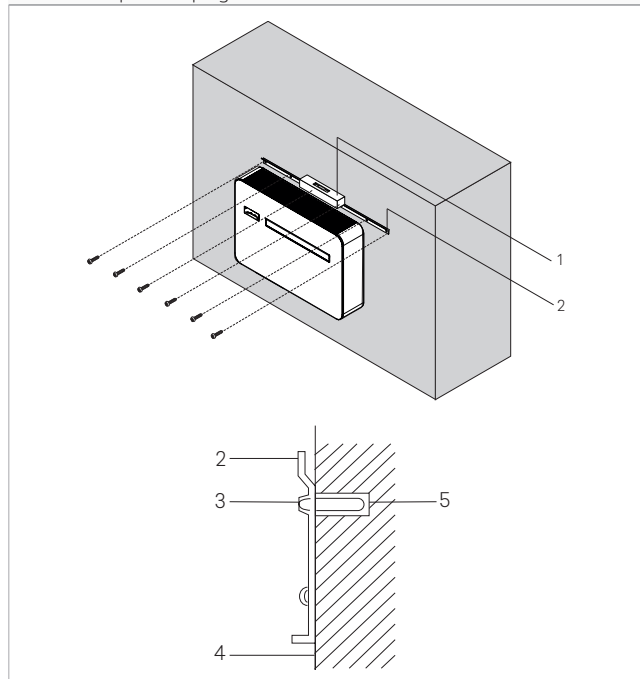
⚠ When painting the dampers, use water-based paints suitable for plastic surfaces to avoid problems with the movement of the flaps.

⚠ Do not use thick, sticky paints like enamels.

Fixing the bracket

The devices are provided with metallic support for mounting on the wall.

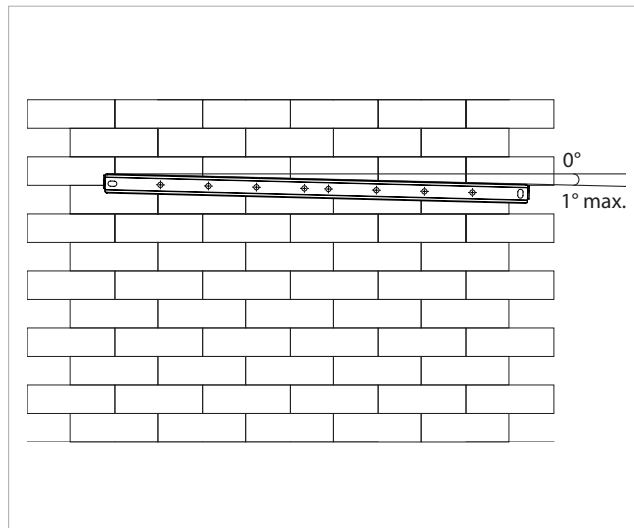
- | | |
|----|----------------|
| 1. | Spirit level |
| 2. | Metal support |
| 3. | Fixing screw |
| 4. | Support wall |
| 5. | Expansion plug |



► use the paper template

- mark the positions of the fixing holes
- use a drill
- mark the position of the mounting holes
- fix the metallic support with the screws and the wall plugs

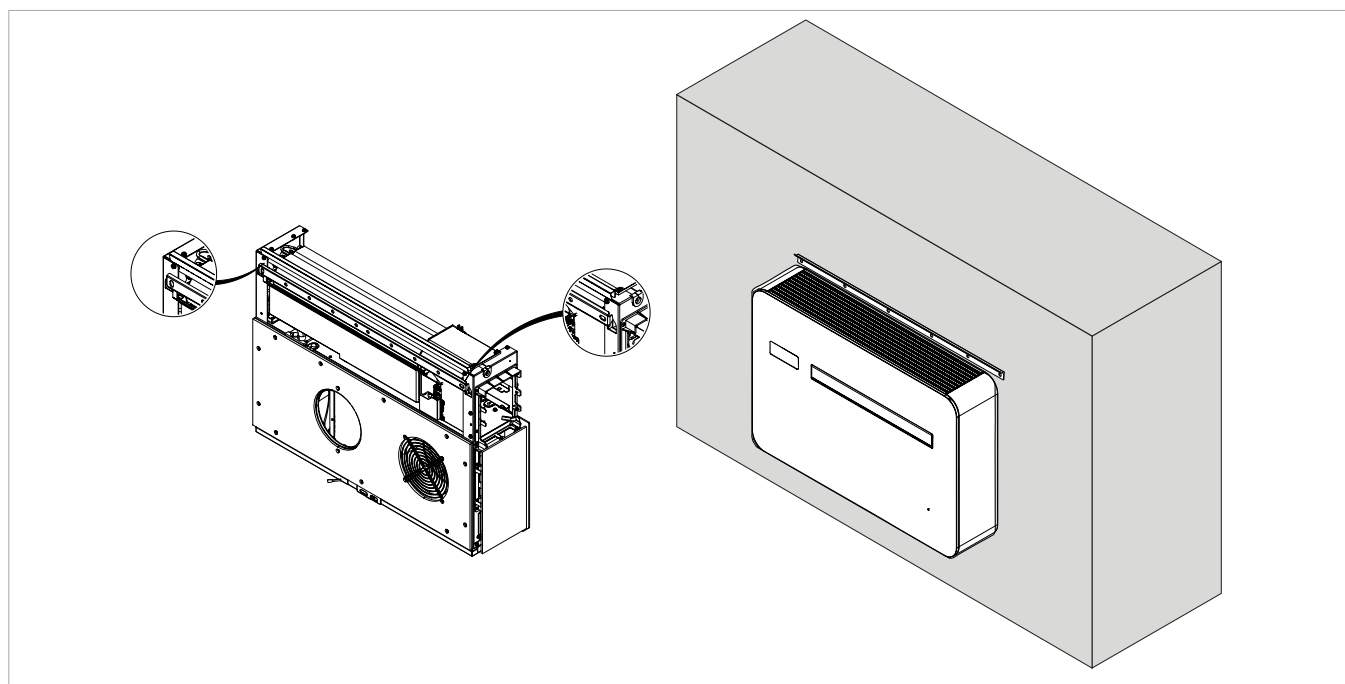
⚠ Place the metallic support on a level surface that is capable of supporting its weight.



⚠ Check that the installation is horizontal using a water level.

⚠ A maximum inclination of 1° towards the right side of the appliance is allowed to facilitate the drainage of condensate.

4.11.3 Positioning



- fasten the unit to the upper part of the metallic support
- verify the correct hooking to the interlocking points

⚠ To facilitate connections, a spacer can be used to keep the bottom of the unit away from the wall.

4.12 Condensation drain preparation

This appliance is complete with a tray for collecting the condensation produced during heating, cooling and dehumidification operation.

The size and positioning of the drainage tube are shown below.

In heating operation, condensation should be conveyed to a appropriate place by providing a condensate drain.

In cooling or dehumidification operation, the unit has a system for self-disposal of condensation.

In these modes of operation, an external condensate drain does not need to be provided.

In cooling or dehumidification function, in extreme operating condition (high temperature and high humidity) the unit may not be able to automatically dispose of the produced condensate, in this case the display will show OF.

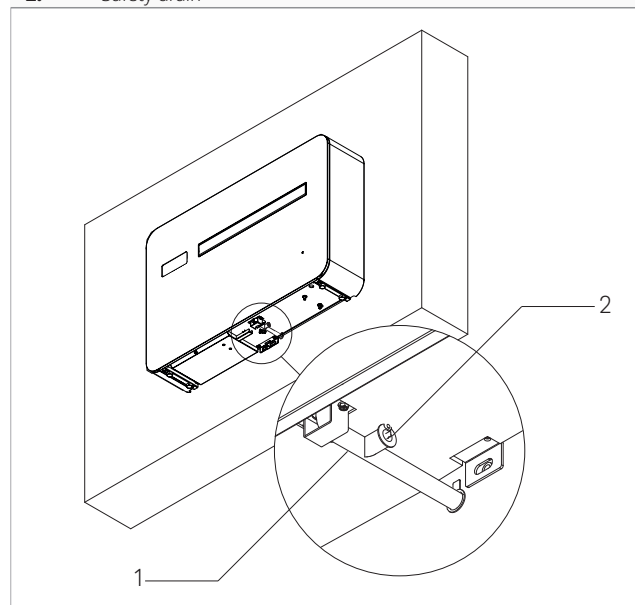
Refer to the "Maximum condensate collection level warning" p. 47 section for more details.

4.12.1 Preliminary warnings

- ⚠ If the line flows into a container (e.g. a tank), do not close the container hermetically and avoid immersing the draining pipe into the water.
- ⚠ The hole for the condensation pipe must always slope towards the outside.
- ⚠ The exact position in which to place the pipe mouth is indicated on the template.
- ⚠ Check that the expelled water does not cause any damage or problems to people or objects. During winter, this water may create sheets of ice outside.
- ⚠ When connecting the condensation drain, be careful not to squeeze the rubber duct.
- ⚠ It is possible to empty the collection tray using the safety drain at the base of the appliance if necessary.
- ⚠ If you do not want to prepare an external drainage pipe in "cold only" mode, it is advisable to close the condensate drain with a plug.

4.12.2 Positioning

- | | |
|----|-------------------------|
| 1. | Condensation drain stub |
| 2. | Safety drain |

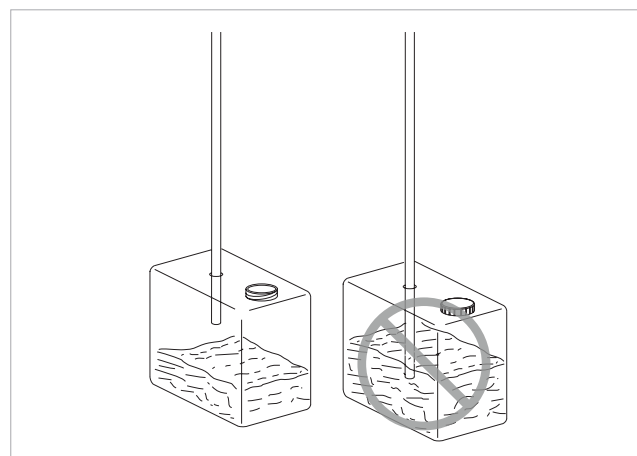


The device is factory supplied with a stub pipe connected to the condensation drain connection. If it is not enough:

- ▶ remove the nozzle from the discharge connection
- ▶ connect a drainage pipe of greater length not supplied
- ▶ keep a minimum slope of 3% towards the drain location
- ▶ insulate fitting points

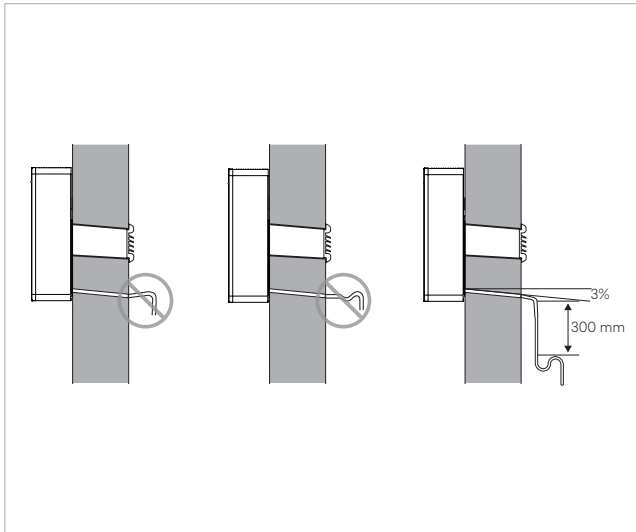
- ⚠ Use plastic drainage pipes.
- ⚠ Avoid pipes made of metallic material.
- ⚠ Make sure all joints are sealed to prevent leakage of water.
- ⚠ Condensate drainage pipes must be insulated for both indoor and outdoor sections of the house to avoid condensation on the surface and/or freezing problems.
- ⚠ If needed it is possible to empty the condensation collection pan through a safety drain provided on the base of the device. See Chapter Extraordinary maintenance

If using a jug for collecting the condensation:



- ⚠ Avoid the hermetic closure of the container.
- ⚠ Prevent the end of the drainage tube from falling below the water level.

If draining into the sewage system:



- ⚠ The discharge system must feature a suitable syphon in order to prevent air from entering the vacuum system. The syphon also prevents odours and insects from entering the system.

- ⚠ The syphon must feature a plug in its lower part or must otherwise allow for quick disassembly for cleaning purposes.

If using an open drain:

- ⚠ If the condensation is not collected, it will be deposited on the support surface. The water could freeze if the outdoor temperatures are below zero, thus creating a hazard. In this case, appropriate barriers should be installed in order to prevent people from approaching the area.

4.12.3 Condensate drain pipe insulation

In case of condensate drain pipe use, the pipe must be coated with anti-condensation insulation for the internal part of the building and the wall.

- ⚠ The insulation must be fitted until the condensate drain pipe is plugged into the connection provided on the unit.

4.13 Electric connections

4.13.1 Preliminary warnings

- ⚠ All operations of an electrical nature must be carried out by qualified personnel having the necessary training, who understands the legal requirements, and is informed about the risks related to such operations.
- ⚠ All connections must be made following the regulations in force in the country of installation.
- ⚠ Before carrying out any work, make sure that the power supply is switched off.
- ⚠ The unit must only be powered after all plumbing and electrical work has been completed.
- ⚠ References:
 - refer to the wiring diagrams in this manual for the electrical connections, especially the part concerning the power supply terminal block
- ⚠ Make sure that:
 - the characteristics of the electric network are adapted to the absorption of the apparatus, considering also any other devices in parallel operation
 - the power supply voltage and system frequency match to the values indicated on the device's plate data
 - the cables must be appropriate for the type of installation in accordance with the applicable IEC standards
 - the power supply is provided with protection against overload and/or short-circuit
 - the disconnection device is located in an easily accessible place in order to be able to intervene in the event of an emergency
- ⚠ It is required:
 - provide a suitable earthing connection
 - provide an all-pole switch with a contact opening distance of 3 mm or more that allows complete disconnection under overvoltage category III conditions
 - Install a residual-current device. Failure to install this device may result in electric shock
- ⚠ Use a dedicated power supply circuit. Never use a power supply to which another appliance is also connected because of the risk of overheating, electric shock or fire.
- ⚠ Any replacement of the power cable must be carried out by authorised personnel and in accordance with the applicable national law.
- ⚠ 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.
- ⚠ Please check that the power supply is provided with suitable protections against overloads and/or short-circuits (using a 10 Amp Time delay fuse or other equivalent devices is recommended).
- ⚠ To prevent any risk of electrocution, always disconnect the main circuit breaker before making electric connections or performing any maintenance on the units.
- ⚠ Access to the electrical panel is only necessary when replacing the wired cable or when using the presence contact.
- ⚠ In the case of direct supply to the terminal block:
 - for the electrical connection, use a cable that is long enough to cover the entire distance without any connection, do not apply other loads on the power supply
 - After connecting the interconnection cables, make sure that the cables are arranged so as not to exert excessive forces on the covers or electrical panels. In-

complete connection of the covers may result in overheating of the terminals, electric shock or fire.

- ⊖ It is forbidden the use of gas and water pipes for grounding the appliance.

Preliminary warnings for R290

- ⚠ R290 refrigerant gas is flammable and odourless.
- ⚠ Do not place flammable objects (spray cans) within 1 metre of the air outlet.
- ⚠ All precautions concerning the treatment of the refrigerant must be observed following the regulations in force.

- ⚠ Avoid proximity to sources of ignition in continuous operation (open flames, gas appliances, electric stoves, lighted cigarettes, etc.).

- ⊖ Smoking in the vicinity of the appliance is prohibited.

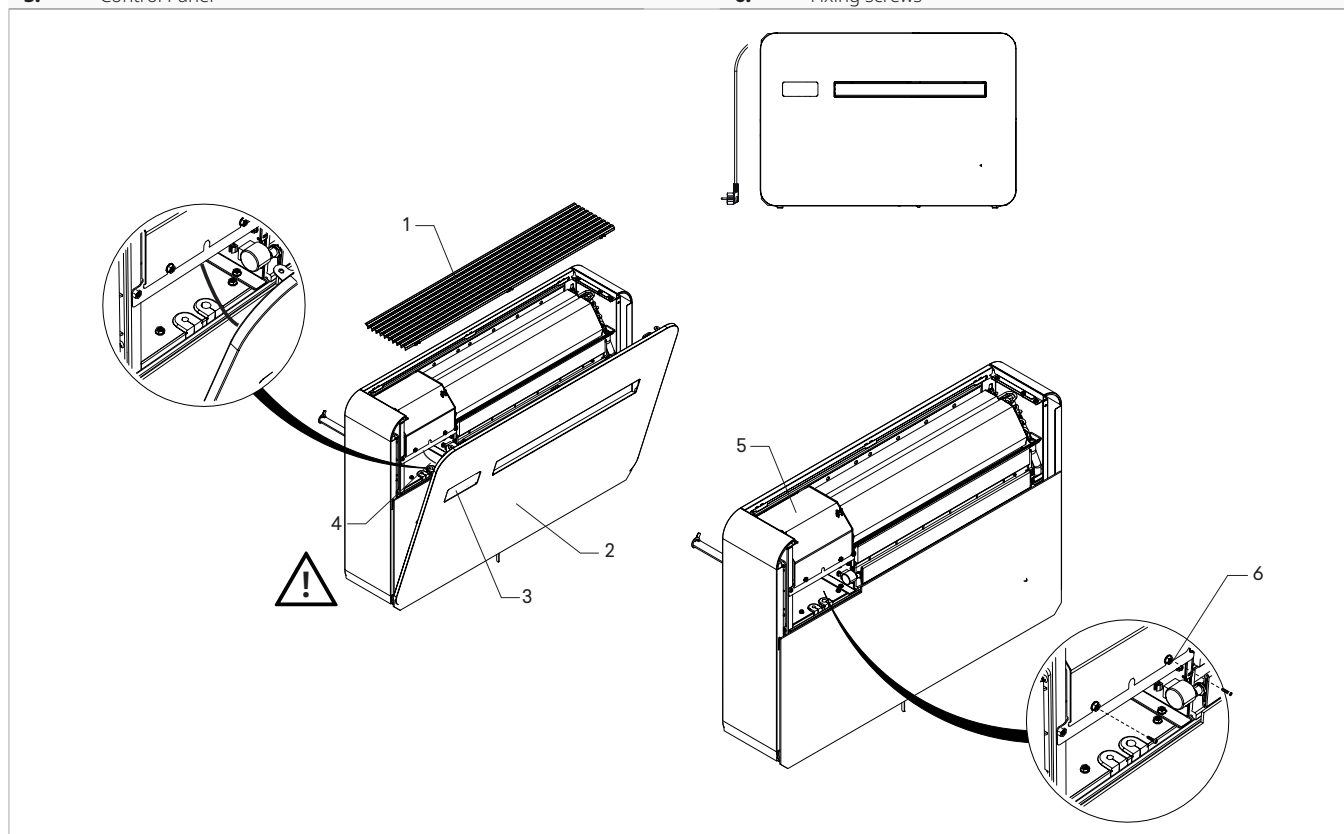
- ⊖ Using a mobile phone near the appliance is prohibited.

- ⚠ Perform the following checks:
 - carry out safety checks to ensure that the risk of combustion is minimised
 - avoid working in confined spaces
 - delimit the area around the workspace
 - ensure safe working conditions around the area by controlling flammable material

4.13.2 Access to the electrical panel

- | | |
|----|---------------|
| 1. | Intake grid |
| 2. | Front panel |
| 3. | Control Panel |

- | | |
|----|---------------------------|
| 4. | Connectors |
| 5. | Electrical panel covering |
| 6. | Fixing screws |



- ⚠ Access to the electrical panel is only permitted to qualified personnel.
- ⚠ Before carrying out any works, please ensure the power supply is disconnected.
- ⚠ The control panel is fixed on the front panel and is connected to the device by a connector.
- ⚠ Disconnect the connector when opening the front panel.

To access:

- ▶ remove the cosmetic panels (if fitted)
- ▶ see chapter "Removal of aesthetic panels and grilles" p. 25

To access the connections:

- ▶ unscrew the screws of the electrical panel
- ▶ remove the electrical panel cover

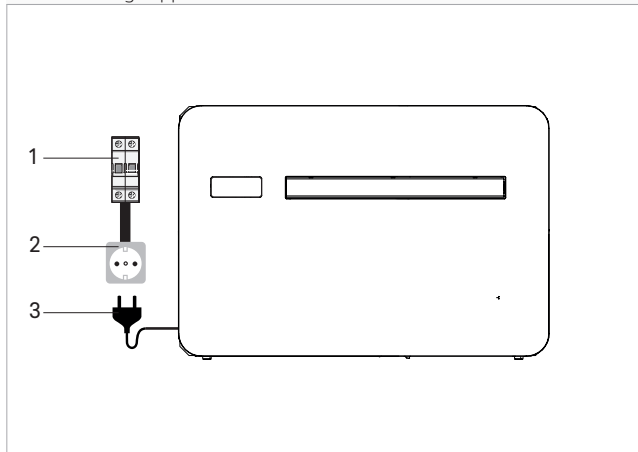
4.13.3 Connection

The appliance leaves the factory fully wired and equipped with a cable with Y-type plug for connection to the power supply. To power the unit simply insert the plug into a suitable socket protected by a circuit breaker.

- ⚠ In the event of damage to the power cable, contact the Technical Service Centre or qualified personnel for replacement.

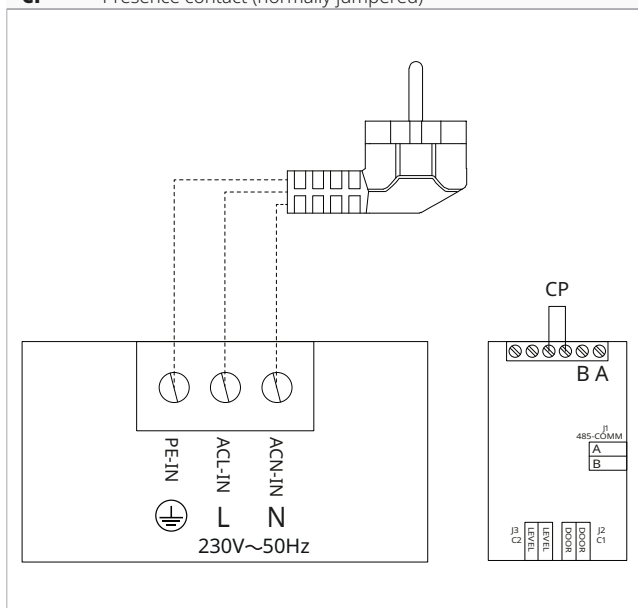
- ⊖ It is forbidden to replace damaged cables yourself.

1. Circuit breaker 1P+N, 6A, type C
2. Y-type socket
3. Plug supplied with the device



If necessary, it is possible to remove the factory cable with plug and connect the power supply directly to the terminal block (recommended connection for installation of the equipment at the top of the wall).

| | |
|---------------|--------------------------------------|
| PE-IN | Earth connection |
| ACL-IN | Phase |
| ACN-IN | Neutral |
| B A | Serial connection |
| CP | Presence contact (normally jumpered) |



⚠ This operation must be only be carried out by the installation or Technical Assistance Centre.

To carry out direct connections and substitute the power cord using the cable in the wall, proceed as follows:

- ▶ access the terminal block
- ▶ Disconnect the power cord from the terminal block.
- ▶ Connect the wall cable, checking that the power supply line has a suitable earth connection
- ▶ The power supply line has a suitable earth connection and that it is sized for the maximum absorption of the conditioner (minimum cable section equal to 1,5 mm²).

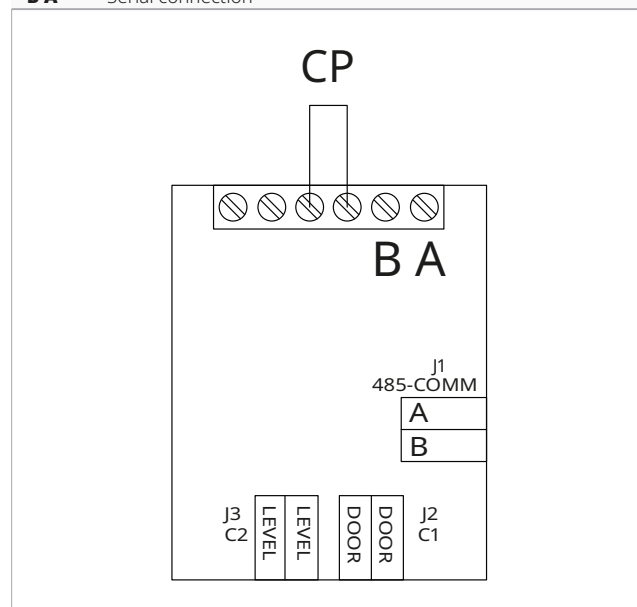
4.13.4 CP occupancy contact input connection

When the CP contact opens (very low voltage, connected to a volt-free contact) the appliance is put in stand-by and CP appears on the display.

Through this contact it is possible to connect an external device that inhibits operation of the unit such as: window opening contact, remote on/off, infrared presence sensor, activation badge etc.

⚠ We recommend using a double insulated cable.

| | |
|------------|--------------------------------------|
| CP | Presence contact (normally jumpered) |
| B A | Serial connection |



4.14 High/low installation configuration

The unit can be installed either at the bottom of the wall (adjacent to the floor) or at the top of the wall (adjacent to the ceiling).

The unit is supplied for low wall installation with the air outlet from the bottom to the top.

For high-wall installation:

- ▶ purchase the the lower cover decorative kit code PCZ-GB1105.

⚠ High wall installation is recommended if the unit is to be used for cooling only.

⚠ If the unit operates in cooling and heating or heating only, low wall installation is recommended.

4.14.1 Modification for low-wall to high-wall installation

⚠ If necessary, the air outlet can be changed from top to bottom.

⚠ This operation must be performed while the appliance is switched off and disconnected.

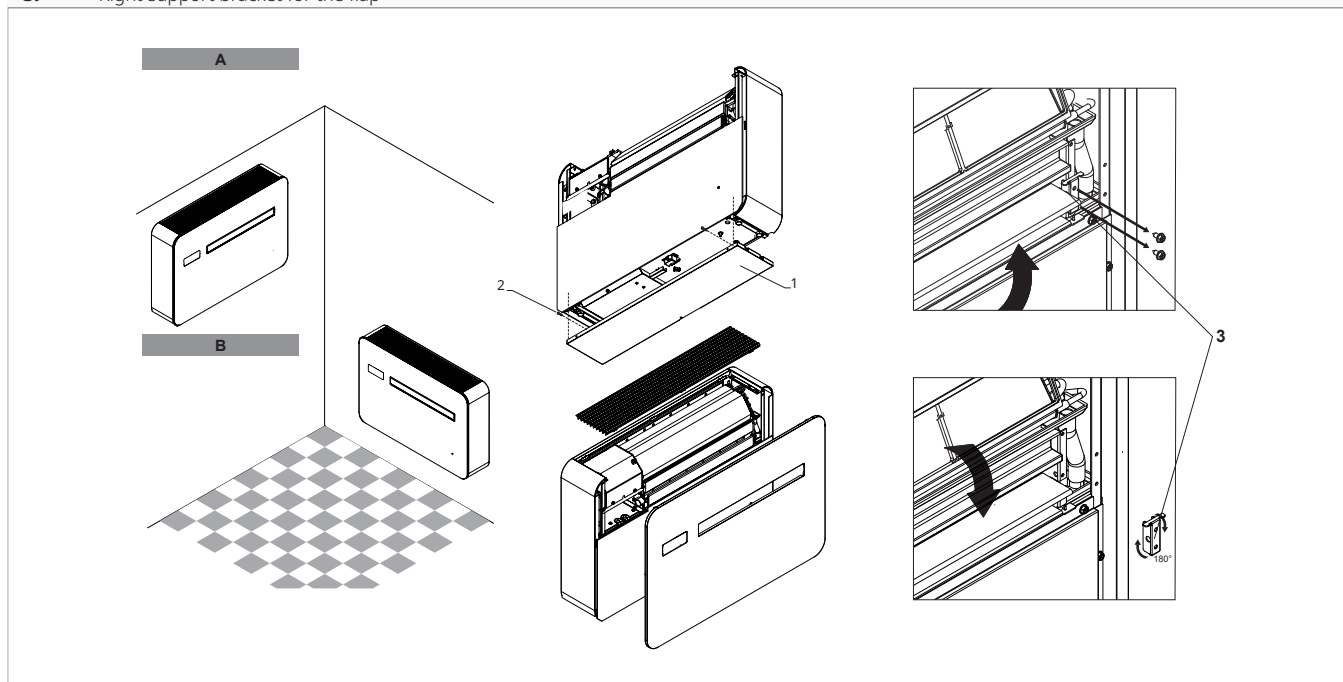
To make changes:

- ▶ if installed, remove aesthetic panels see chapter "Removal of aesthetic panels and grilles" *p. 25*
- ▶ Position the lower aesthetic cover kit (codice PCZ-GB1105).
- ▶ fix with the screws provided
- ▶ remove the fixing screws of the right support bracket for the flap

- ▶ Rotate the bracket 180°
- ▶ re-install the stirrup
- ▶ reassemble the aesthetic panel
- ▶ re-install the grid

see the chapter "Assembly of aesthetic panels and grilles" *p. 27*

| | |
|-----------|---|
| A | Overhead installation |
| B | Low installation (factory settings) |
| 1. | Aesthetic lower cover kit (codice PCZ-GB1105) |
| 2. | Fixing screws (supplied with the optional kit PCZ-GB1105) |
| 3. | Right support bracket for the flap |

**4.14.2 Configuration**

After adjusting the air outlet flap position, it is necessary to set up the electronic control of the appliance.

To configure

- ▶ refer to chapter "Installation position" *p. 30*

⚠ For the appliance to work properly, each time the configuration of the air outlet flap is modified, the electronic control must be set.

4.15 Operations after installation

Before leaving the site, the packaging should be gathered up and all traces of dirt that have deposited on the unit during assembly should be eliminated with a damp cloth. Once all the checks and controls on the correct operation of the appliance have been completed, the installer must explain the following to the user:

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

4.16 Removal of aesthetic panels and grilles

⚠ The control panel is fixed on the front panel and is connected to the device by a connector.

⚠ Disconnect the connector when opening the front panel.

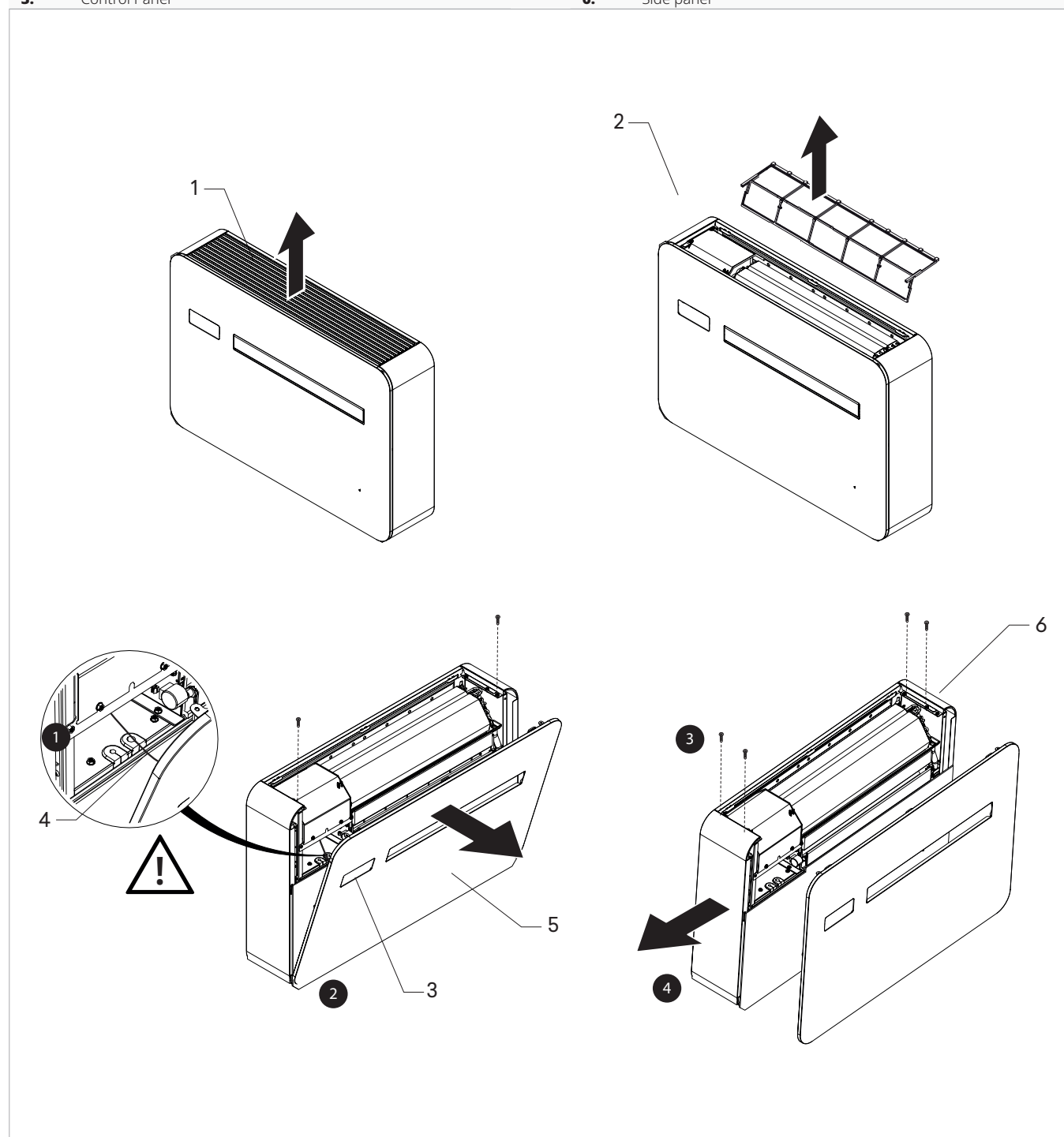
- ▶ remove the upper grille
- ▶ remove the filter
- ▶ unscrew the fixing screws of the aesthetic panel

- ▶ disconnect the connector of the on-board control
- ▶ remove the aesthetic panel
- ▶ unscrew the fixing screws of the side panel
- ▶ remove the side panel

4. INSTALLATION

1. Intake grid
2. Filter
3. Control Panel

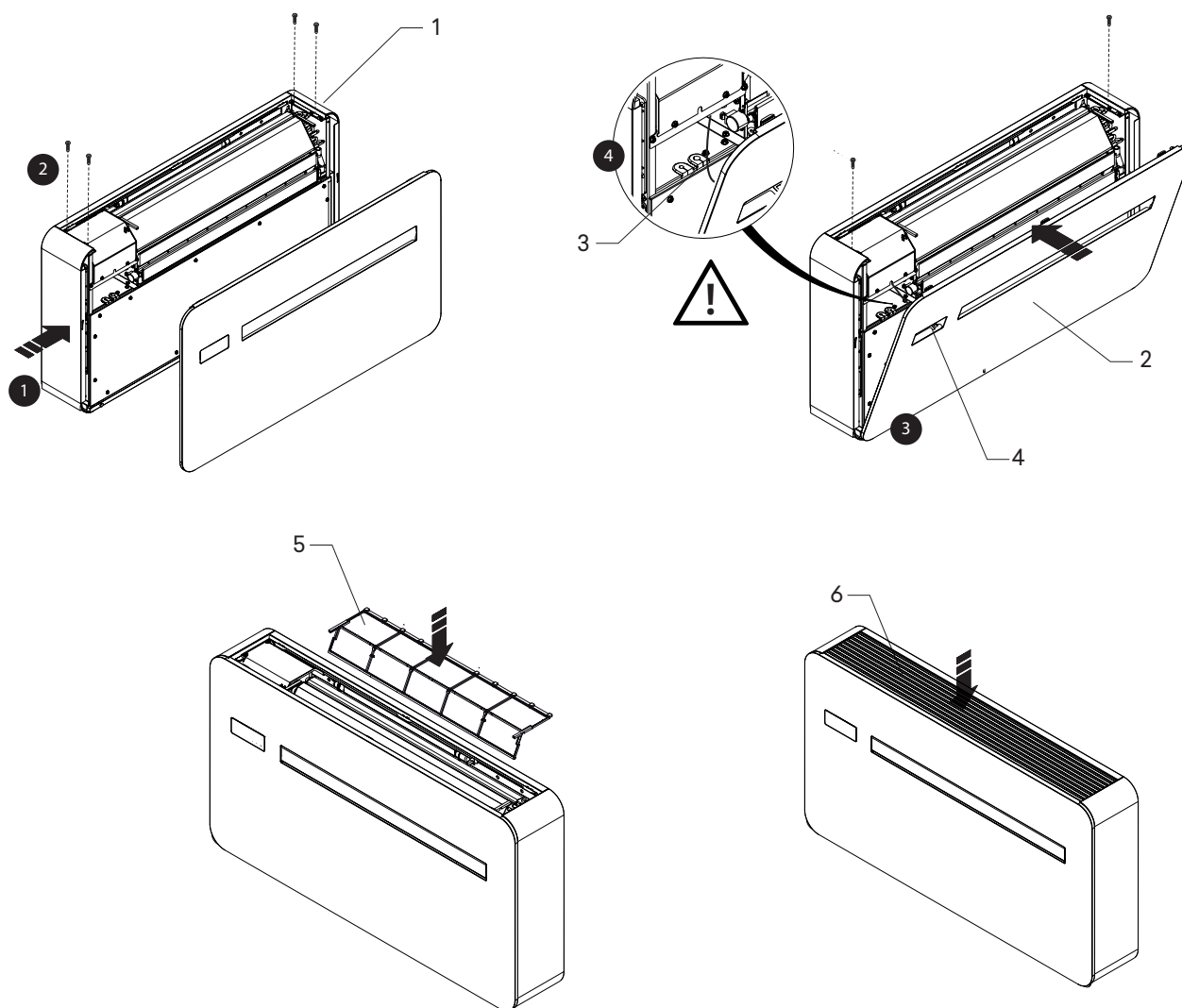
4. Connectors
5. Front panel
6. Side panel



4.17 Assembly of aesthetic panels and grilles

To assemble:

- ▶ place the side panel
- ▶ screw in the fixing screws
- ▶ positioning the aesthetic panel
- ▶ connect the connector of the on-board control
- ▶ screw in the fixing screws
- ▶ place the filter
- ▶ positioning the grill



5. TOUCHPAD AND REMOTE CONTROL

5.1 Interface

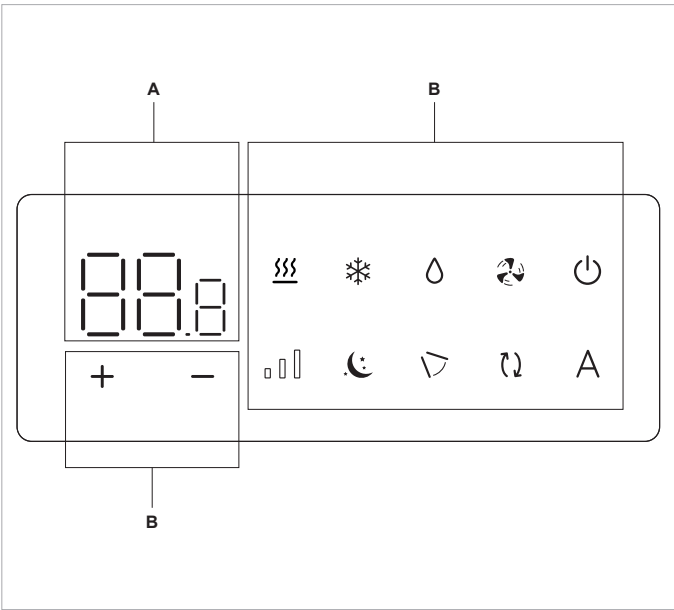
5.1.1 Description

The touchpad control is supplied as standard on board the unit, does not require any connections and enables:

- show the operating status
- show any alarms
- select the various functions

5.1.2 Touchpad

Keys and functions related.



| | |
|----------|---|
| A | Display area |
| B | Keys area |
| | Setpoint |
| | Up key |
| | Down key |
| | Allows you to select the Heating mode of operation |
| | Allows you to select the Cooling mode of operation |
| | Allows you to activate the Dehumidification function |
| | Allows you to activate the Ventilation function |
| | This can be used to switch the unit on or off |
| | Allows you to control ventilation speed |
| | Enables the Night function |
| | Allows you to activate the Moving Deflector Control function |
| | Allows you to activate the Air Change function (not visible on base unit) |
| | Enables the Automatic function |

5.2 Basic menu

To access the basic menu

- ▶ press for 10 seconds
Appears .

To move within the menu or change values

- ▶ use

To select a menu item and to confirm the changes made

- ▶ press
The menu item is selected and the settings are accessed.
Changes are confirmed when the symbol appears.

To exit menu items without saving

- ▶ press
You exit the selected menu item.

To exit the basic menu

- ▶ press once
Appears .

- ▶ press again
You exit the basic menu.

After a period of 30 seconds from the last action, the display turns off.

5.2.1 Menu items

- CF:** Scale
- Ub:** Buzzer volume
- oH:** Temperature offset in Heating
- oC:** Temperature offset in Cooling
- ur:** Wi-Fi reset
- uP:** Wi-Fi pairing

5.2.2 Scale

To change the temperature unit of measure

- ▶ select 
- ▶ select °C or °F
By default the temperature unit of measure is °C.

5.2.3 Buzzer volume


To change the volume

- ▶ select 
- The volume setting range is from 00 (min) to 03 (max).*

⚠ The volume changes after change is confirmed.

5.2.4 Temperature offset in Heating


To set the temperature offset in Heating

- ▶ select 
- The temperature offset setting range in Heating is from -9 °C (minimum) to 9 °C (maximum).*

⚠ The range for °F is smaller, equivalent to -5 °C/5 °C.

5.2.5 Temperature offset in Cooling











To set the temperature offset in Cooling

- ▶ select 
- The temperature offset setting range in Cooling is from -9 °C (minimum) to 9 °C (maximum).*

⚠ The range for °F is smaller, equivalent to -5 °C/5 °C.











5.2.6 Wi-Fi reset

To reset the Wi-Fi credentials and return the device to its original configuration

- ▶ select 
- ▶ press  to change settings
- ▶ use the   icons in sequence
Appears  .
- ▶ press 
-   appears to reset Wi-Fi credentials.
- ▶ press  to confirm
Credentials have been reset.

5.2.7 Activate Wi-Fi

To activate Wi-Fi

- ▶ select 
- ▶ press  to change settings
- ▶ use the   icons in sequence
Appears  .
- ▶ press 
-   appears to enable Wi-Fi pairing.
- ▶ press  to confirm





⚠ The device remains visible on Aquarea Home App for the first 15 minutes after the device is switched on.

5.3 Advanced Menu



Through the control panel, it is possible to access the advanced menu.

⚠ To access the advanced menu, it is first necessary to access the basic menu. See section "Basic menu" p. 28.



To access the advanced menu

- ▶ from the basic menu press   at the same time for about 5 seconds
Appears  .
The advanced menu is accessed.


To move within the menu or change values

- ▶ use  




To select a menu item and to confirm the changes made

- ▶ press 
- The menu item is selected and the settings are accessed.*
Changes are confirmed when the symbol  appears.

To exit menu items without saving

- ▶ press 
- You exit the selected menu item.*

To exit the settings menu

- ▶ press 
- Appears  .*
You return to the basic menu.

⚠ After a period of 30 seconds from the last action, the display turns off.

5.3.1 Menu items

HC: Heating only or Cooling only configuration

ho: Hotel Mode

in: Installation position

co: Connectivity expansion module

Ad: Modbus address

rF: Remote function

Ht: Not used

HE: Not used


Uu: Not used

Hr: Not used


5.3.2 Heating only or Cooling only configuration

⚠ It is possible to disable the Heating or Cooling function by setting the unit in Heating only or Cooling only mode.

To set the Heating only or Cooling only mode

- ▶ select 
 - ▶ select HC to set the Heating and Cooling mode
 - ▶ select HO to set the Heating only mode
 - ▶ select CO to set the Cooling only mode
- By default, the unit is set to HC.*

5.3.3 Hotel Mode**To set the Hotel mode**

- ▶ select 
 - ▶ select YS to turn on Hotel mode
 - ▶ select NO to turn off the Hotel mode
- By default the device is set to NO.*

Activating the Hotel mode:

- the Dehumidification Only and Automatic functions are deactivated
- only the Ventilation Only, Heating and Cooling functions remain active
- the temperature setting range is reduced, in Cooling you can set from 22 °C to 28 °C, in Heating you can set from 16 °C to 24 °C

5.3.4 Installation position

After completing the mechanical operations of changing the air outlet flap position, it is necessary to configure the unit.


To configure the installation position

- ▶ select 
 - ▶ select DN to set up installation at the bottom of the device
 - ▶ select UP to set the top installation of the unit
- By default, the unit is set to DN.*


⚠ For the appliance to work properly, each time the configuration of the air outlet flap is modified, the electronic control must be set.

5.4 Visualisation of alarms on display

⚠ In the event of an alarm, the device still maintains active functions.




⚠ A flashing  symbol and alarm code are displayed on the touchpad to indicate alarms.

5.3.5 Connectivity expansion module**To enable or disable the connectivity expansion module**


- ▶ select 
 - ▶ select YS to activate the connectivity expansion module
 - ▶ select NO to disable the connectivity expansion module
- By default the device is set to NO.*

⚠ In case of pairing with wall-mounted control, the connectivity expansion module must be deactivated.

5.3.6 Modbus address**To set the Modbus address**

- ▶ select 
 - ▶ press  at the same time to be able to change the value
- The value shown in the display flashes.*
- ▶ act on 
- The setting range is from 01 (min) to 99 (max).
By default the device is set to 01.*

5.3.7 Remote function**To set the Remote function**

- ▶ select 
 - ▶ select NO to disable the Remote function
 - ▶ select YS to enable Remote function
- By default the device is set to NO.*

⚠ Set the remote mode to make the touchpad view only.

Alarm codes

- ▶ Er01 Room temperature sensor disconnected or faulty
- ▶ Er02 Internal heat exchanger temperature error
- ▶ Er03 Source fluid temperature sensor error
- ▶ Er04 Source heat exchanger temperature sensor error
- ▶ Er05 Internal fan speed out of range (min/max)
- ▶ Er06 External fan speed out of range (min/max)
- ▶ Er07 Driver communication error
- ▶ Er08 Delivery temperature probe error
- ▶ Er09 Remote function error
- ▶ Er10 Condensate level in the bowl too high
- ▶ CP CP contact activation
- ▶ Er12 Compressor driver failure
- ▶ Er16 No refrigerant / 4-way valve malfunction
- ▶ Er17 Driver malfunction / Compressor mismatch
- ▶ Er19 Heating element temperature probe error
- ▶ Er20 Error second temperature probe of the external exchanger
- ▶ Er22 Incorrect power supply
- ▶ Er23 UV lamp error

6. WALL-MOUNTED CONTROL CODING PCZ-EEB749

6.1 Interface

6.1.1 Description

LED electronic control panels with touch interface for wall installation allow:

- room temperature control
- management of the main functions of the device
- temperature and humidity measurement
- fan speed regulation

They are fitted with:

- internal memory with data saving even in case of shut-down or power outage

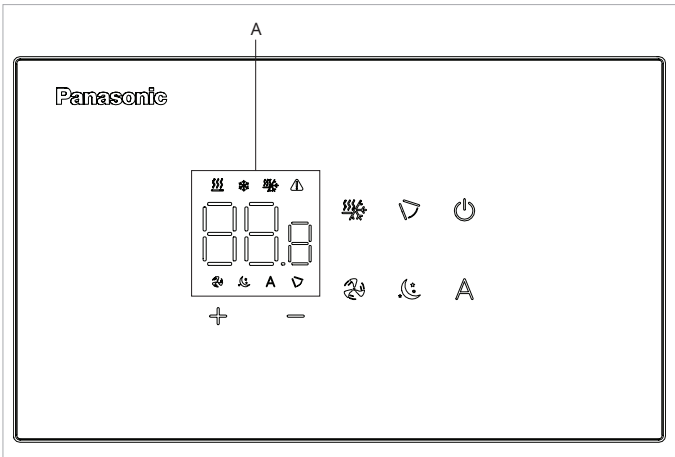
⚠ After 20 seconds after the last action the panel brightness is reduced, only the room temperature is seen on the display.

⚠ The maximum brightness is restored to the pressure of any key.

⚠ **It is mandatory to disable the connectivity expansion module (Wi-Fi) from the Touchpad. See paragraph "Connectivity expansion module" p. 30. In case of using the app to control the unit, it must be paired with a wall control cod. PCZ-EFB749.**

6.1.2 Display

Status and active alarms on display.



A Display area

88.8 Setpoint

⚠ Alarm signals

▽ Moving Deflector Control function active

🌀 Active ventilation function

🔥 Heating / Cooling (Cannot be used)

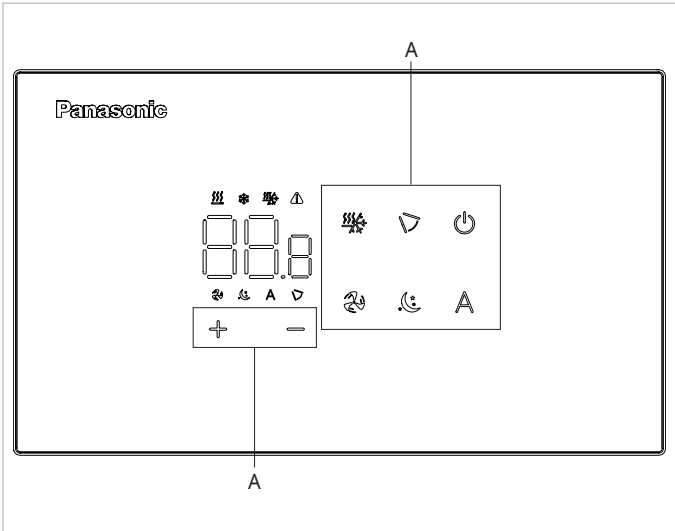
❄ Cooling operating mode active

🔥 Heating operating mode active

A Automatic function active

🌙 Night function active

6.1.3 Keys functions



A Keys area

+

Up key

-

Down key

🔥

This can be used to switch the unit on or off

▽

Allows you to activate the Moving Deflector Control function

🌀

Allows you to control ventilation speed

🔥

This can be used to select the operating mode (Cooling or Heating) or Autochangeover

A

Enables the Automatic function

🌙

Enables the Night function

6.2 Installation

6.2.1 Description

The wall-mounted remote control is an electronic LED thermostat with a touch interface, with the possibility of controlling multiple appliances equipped with the same electronic board. It is equipped with a temperature and humidity probe.

⚠ The control can manage a maximum of 16 units.

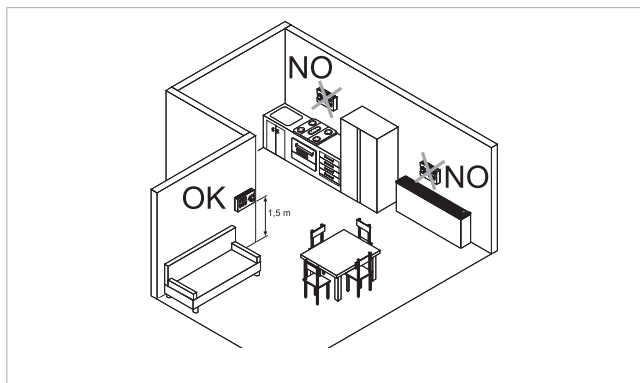
6.2.2 Mounting

⚠ The control panel must be mounted in an electrical back box.

⚠ A wall must be prepared to accommodate the electrical box before installing the wall control.

⚠ Ensure that:

- the wall supports the weight of the appliance
- the section of the wall does not contain piping or electrical lines
- the functionality of load-bearing elements is not compromised



The wall-mounted remote control must be installed:

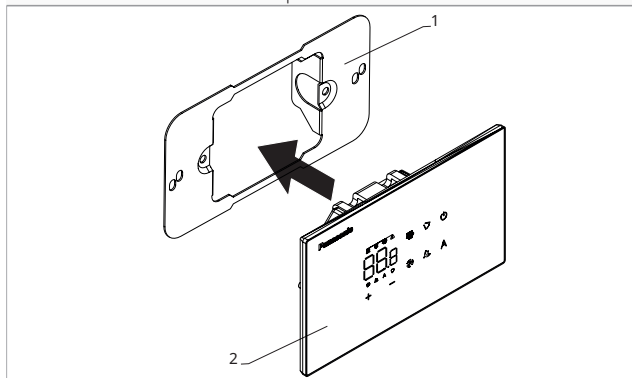
- on internal walls
- at a height of about 1,5 m from the floor

⚠ Should the control be located in an area utilised by persons with reduced physical capabilities, please refer to local regulations.

- away from doors or windows
- away from heat sources (heaters, convectors, stoves, direct sunlight)

⚠ The wall control is provided inside the package already assembled.

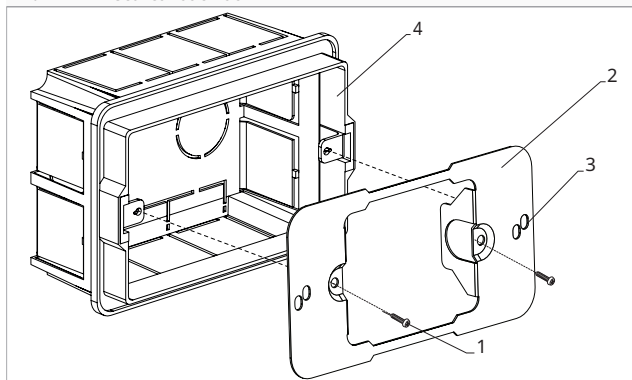
- | | |
|----|----------------------------|
| 1. | Back plate |
| 2. | Wall-mounted control panel |



Before wall installation:

- separate the back plate from the control panel

- | | |
|----|------------------------------------|
| 1. | Fixing screws |
| 2. | Back plate |
| 3. | Holes for fixing to electrical box |
| 4. | Electrical back box |

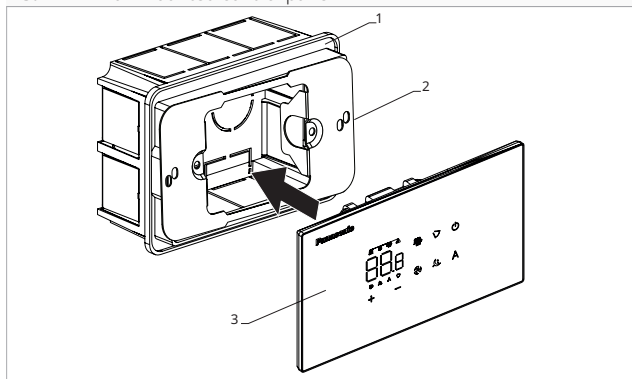


For wall mounting of the control panel:

- fix the back plate to the electrical back box with screws
- connect the electrical wiring

⚠ Before making the connections, please verify that the control terminal block is on the right-hand side.

- | | |
|----|----------------------------|
| 1. | Electrical back box |
| 2. | Back plate |
| 3. | Wall-mounted control panel |

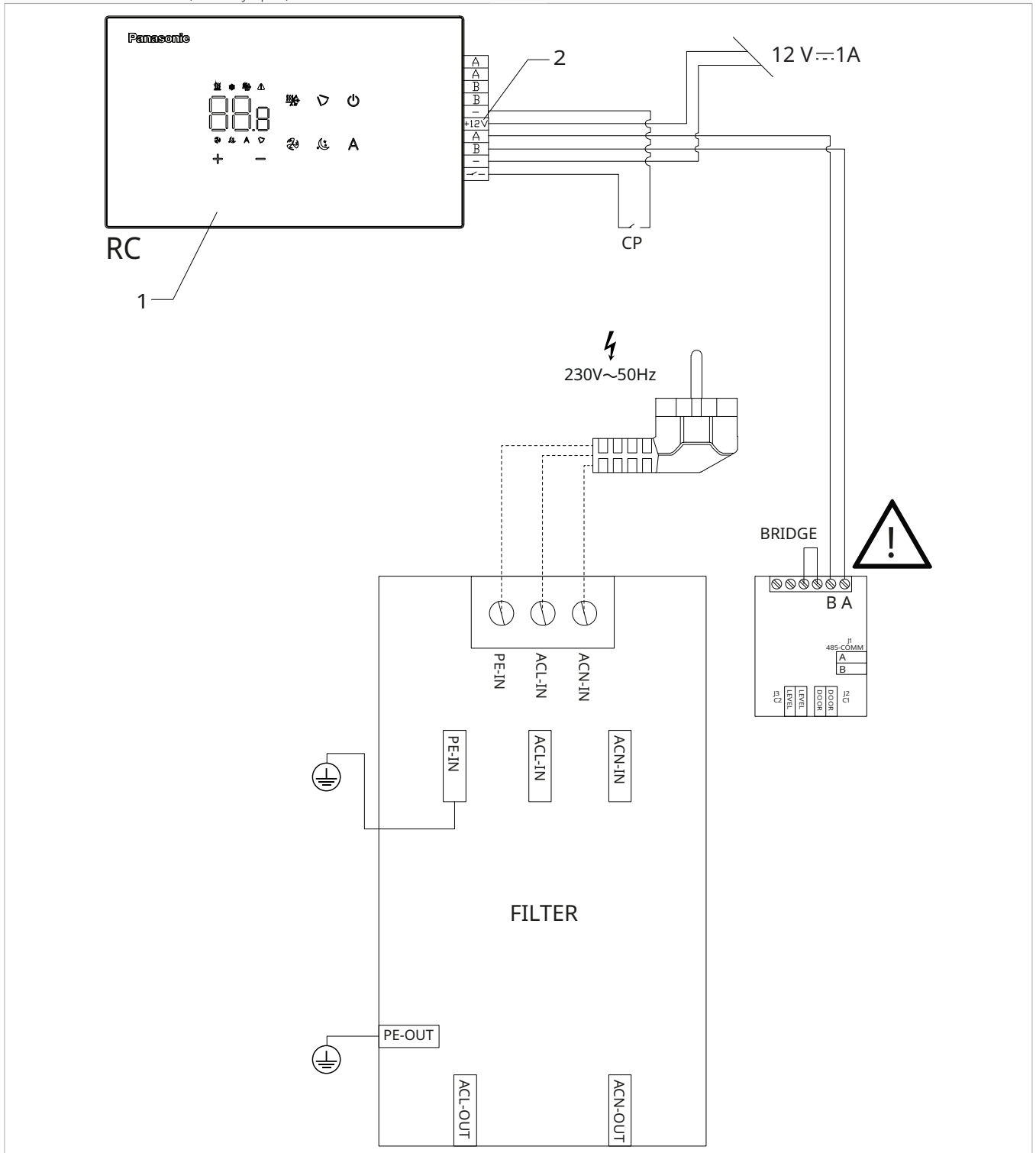


- Close the control panel

⚠ Pay attention not to crush the conductors when you close the control.

6.3 Single connection diagram

| | | | |
|-----------|--------------------------------------|-----------|---|
| 1. | Wall-mounted control panel | BA | Serial connection for wall-mounted remote control |
| 2. | Terminal block for device connection | -+ | 12 V-DC 1A power supply |
| CP | Presence contact (normally open) | RC | Wall-mounted control |



⚠ Reverse A and B for connecting the wall control panel with the board.

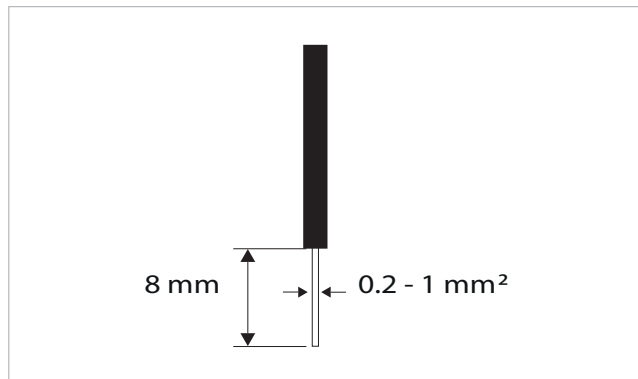
⚠ Power for the control is to be supplied through a 12 V-DC 1A power supply (fiend supplied).

6.4 Connections

6.4.1 Preliminary warnings

The terminals accept:

- rigid or flexible wires with a 0.2 to 1 mm² cross-section
- rigid or flexible wires with 0,5 mm² cross-section if two wires are connected to the same terminal block
- rigid or flexible wires with 0,75 mm² cross-section If the wires have wire end ferrules with a plastic collar



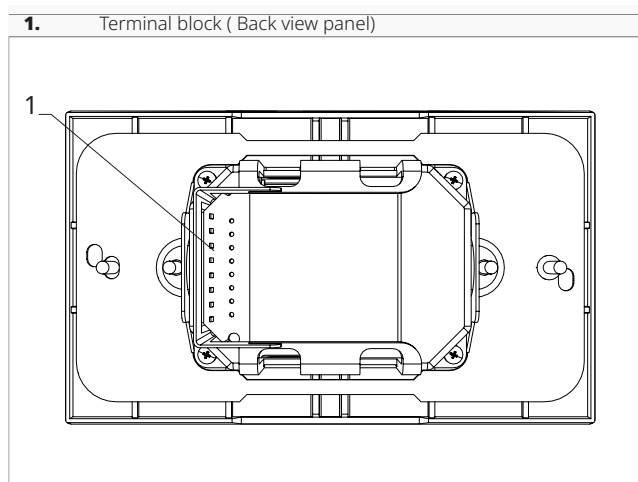
To connect the cables:

- ▶ strip 8 mm of the wire
- ▶ if the wire is rigid, you can insert it easily whereas
- ▶ if it is flexible, use appropriate crimp terminals
- ▶ push the wire in completely
- ▶ check the right fixing by pulling it gently

6.4.2 Control Panel

⚠ The control panel for wall control must be ordered separately.

Terminal block position:



To make the connections:

- ▶ connect the + - power supply wires to a 12 V-DC 1A power supply
- ▶ connect the Modbus serial connection cables to terminals A and B

⚠ Reverse A and B for connecting the wall control panel with the board.

6.4.3 Presence contact CP

Through this device it is possible to connect an external control signal that inhibits the operation of the control signal, for example:

- opening window contact
- remote on/off
- infrared presence sensor
- enabling badge
- remote change of season

Function

The contact is normally open (NO).

- ▶ when closing the CP contact, connected to a potential-free contact, the device switches to standby mode
CP appears on the display.
- ▶ At the touch of a button on the display the symbol ⚠ flashes.

⊖ It is forbidden to connect the CP input to that of another unit electronic board. Use separate contacts.

6.4.4 Extended display

⚠ To enable device connectivity and enable selection of fan power level, the display must be extended. See section "Extended display" p. 36.



6.5 Basic menu

To access the basic menu


- ▶ with the display off, hold down ⏻ for 10 seconds
The device turns on and ⏻ appears

- ▶ keep pressed until the indication ⏻ appears
- ▶ release the ⏻ key
The symbol ⏻ appears


To navigate in the menu


- ▶ use the icons  

To select a menu item and to confirm the changes made

- ▶ press the icon 
Confirming the change takes you to the next item.

To exit the menu

- ▶ press the icon  for 10 seconds
- ▶ or wait 30 seconds the automatic shutdown

 After a period of 30 seconds from the last action, the display turns off.

6.5.1 Menu items

ot: AIR probe offset (air probe setting)

ur: Value read by the R.H. sensor

ut: Probe Offset PT4

uS: Humidity setpoint

uI: Humidity hysteresis






CF: Scale

ub: Buzzer volume


uu: Not used

uP: Not used






6.5.2 Set AIR probe offset**To set the air probe offset**

- ▶ select 
- ▶ press  to change settings
- ▶ increase or decrease the value with the icons  
- ▶ press  to confirm
*By default it is set to -2,5°C.
The setting range is from a minimum of -12.0 °C to a maximum of 12.0 °C.*






6.5.3 Set probe offset RH

 Modify only after real deviations from an actual measurement has been established with professional equipment.






To set the RH probe offset

- ▶ select 
- ▶ press  to change settings
- ▶ increase or decrease the value with the icons  
- ▶ press  to confirm
By default it is set to -2.




6.5.4 Set the humidity setpoint**To set the humidity setpoint**

- ▶ select 
- ▶ press  to change settings
- ▶ increase or decrease the value with the icons  
- ▶ press  to confirm
*By default it is set to 50.
The setting range is from 20.0% to 90.0%.*






6.5.5 Setting the humidity hysteresis**To set the humidity hysteresis**

- ▶ select 
- ▶ press  to change settings
- ▶ increase or decrease the value with the icons  
- ▶ press  to confirm
*By default it is set to 5.
The setting range is from 1 (min) to 30 (max).*

6.5.6 Scale**To change the temperature unit of measure**

- ▶ select 
- ▶ press  to change settings
- ▶ select °C or °F
- ▶ press  to confirm
By default the temperature unit of measure is ° C.

6.5.7 Adjusting the volume**To change the volume**

- ▶ select 
- ▶ press  to change settings
- ▶ increase or decrease the value with the icons  
- ▶ press  to confirm
*By default it is set to 1.
The volume setting range is from 00 (min) to 03 (max).*





 The volume changes after confirming the modification.

6.6 Advanced Menu



Through the control panel, it is possible to access the advanced menu.

⚠ To access the advanced menu, it is first necessary to access the basic menu. See section "Basic menu" p. 34.


To access the advanced menu

- ▶ from the basic menu press **A**
Appears 
- ▶ press the  key once
Appears 
- ▶ press  to confirm and log in
The advanced menu is accessed.




To navigate in the menu

- ▶ use the icons  

To select a menu item and to confirm the changes made

- ▶ press  for 2 seconds
Confirming the change takes you to the next item.

To exit the menu

- ▶ press  for about 10 seconds
Appears 
- ▶ press  for about 10 seconds
The display turns off.
- ▶ or wait 30 seconds after the last action
The display is switched off automatically.

⚠ After a period of 30 seconds from the last action, the display turns off.

6.6.1 Menu items

Ad: Not used

Pr: Not used

di: Options for digital output

rH: Not used

rC: Not used

UC: Not used

Ac: Not used




Ah: Not used

Ed: Extended display


Fr: Not used

6.6.2 To select digital input

To change the digital input

- ▶ select 
- ▶ press  to change settings
- ▶ select CP for contact presence (default)
- ▶ select CO to cooling open
- ▶ select CC to cooling close
- ▶ press  to confirm
By default digital input is set to CP.

⚠ For return to the default settings, set the digital input to "CP".


⚠ By selecting one of the other inputs (CO,CC) the seasonality is locked. It is not possible to modify it through the key  of the control.

6.6.3 Extended display

⚠ Allows device connectivity and enables the selection of the ventilation power level.

⚠ To use the ventilation speed selection, it is necessary to enable the display extension.

To enable the display extension

- ▶ select 
- ▶ select no to disable
- ▶ select Ys to enable
By default, the device is set to no.

6.7 Alarm display on wall control panel

⚠ In the event of an alarm, the device still maintains active functions.

⚠ Alarm codes are shown on the on-board display. Refer to the "Visualisation of alarms on display" p. 30 chapter for the complete list.

7. WALL-MOUNTED CONTROL CODING PCZ-EFB749

7.1 Interface

7.1.1 Description

LED electronic control panels with touch interface for wall installation allow:

- room temperature control
- management of the main functions of the device
- temperature and humidity measurement
- fan speed regulation

They are fitted with:

- internal memory with data saving even in case of shut-down or power outage

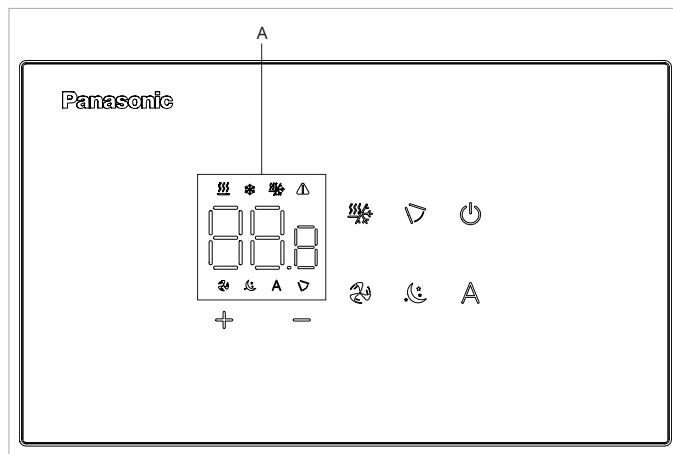
⚠ After 20 seconds after the last action the panel brightness is reduced, only the room temperature is seen on the display.

⚠ The maximum brightness is restored to the pressure of any key.

⚠ **It is mandatory to disable the connectivity expansion module (Wi-Fi) from the Touchpad. See paragraph "Extended display" p. 44. In case of using Aquarea Home App to control the unit, it must be paired with a wall-mounted control code PCZ-EFB749.**

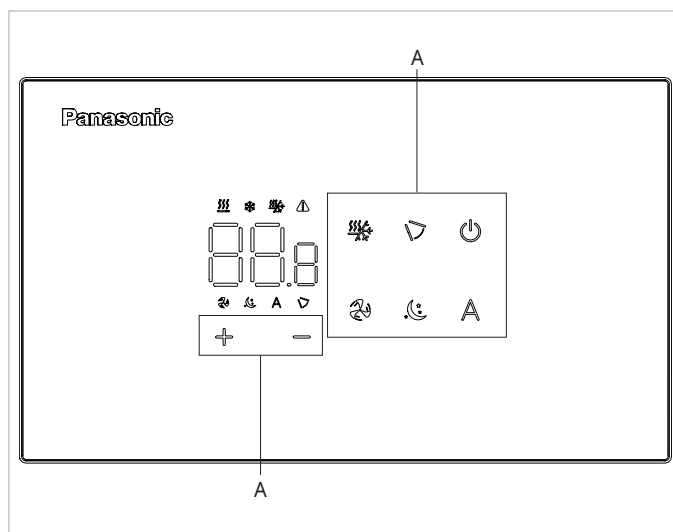
7.1.2 Display

Status and active alarms on display.



| | |
|----------|--|
| A | Display area |
| 88.8 | Setpoint |
| ⚠ | Alarm signals |
| 🌀 | Moving Deflector Control function active |
| 🌀 | Active ventilation function |
| ❄️ | Heating / Cooling (Cannot be used) |
| ❄️ | Cooling operating mode active |
| 🌊 | Heating operating mode active |
| A | Automatic function active |
| 🌙 | Night function active |

7.1.3 Keys functions



| | |
|----------|--|
| A | Keys area |
| + | Up key |
| - | Down key |
| 🔌 | This can be used to switch the unit on or off |
| 🌀 | Allows you to activate the Moving Deflector Control function |
| 🌀 | Allows you to control ventilation speed |
| ❄️ | This can be used to select the operating mode (Cooling or Heating) or Autochangeover |
| A | Enables the Automatic function |
| 🌙 | Enables the Night function |

7.2 Installation

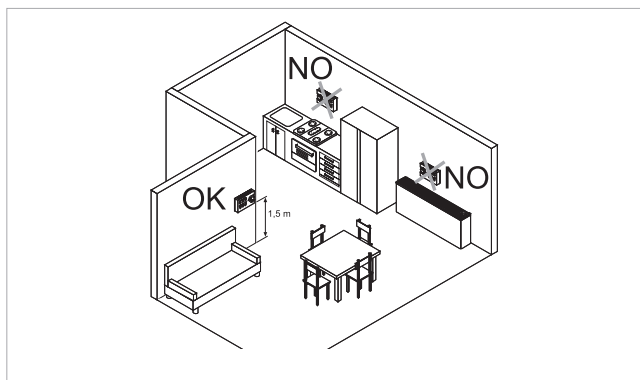
7.2.1 Description

The wall-mounted remote control is an electronic LED thermostat with a touch interface, with the possibility of controlling multiple appliances equipped with the same electronic board. It is equipped with a temperature and humidity probe.

- ⚠ The control can manage a maximum of 16 units.
- ⚠ For wall control coding PCZ-EFB749, the Aquarea Home App is available.

7.2.2 Mounting

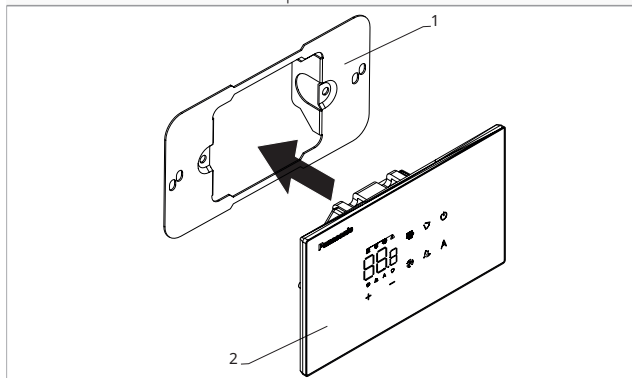
- ⚠ The control panel must be mounted in an electrical back box.
- ⚠ A wall must be prepared to accommodate the electrical box before installing the wall control.
- ⚠ Ensure that:
 - the wall supports the weight of the appliance
 - the section of the wall does not contain piping or electrical lines
 - the functionality of load-bearing elements is not compromised



The wall-mounted remote control must be installed:

- on internal walls
- at a height of about 1,5 m from the floor
- ⚠ Should the control be located in an area utilised by persons with reduced physical capabilities, please refer to local regulations.
 - away from doors or windows
 - away from heat sources (heaters, convectors, stoves, direct sunlight)
- ⚠ The wall control is provided inside the package already assembled.

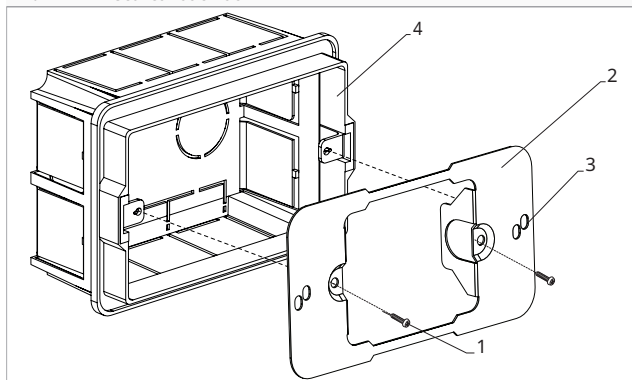
- | | |
|----|----------------------------|
| 1. | Back plate |
| 2. | Wall-mounted control panel |



Before wall installation:

- separate the back plate from the control panel

- | | |
|----|------------------------------------|
| 1. | Fixing screws |
| 2. | Back plate |
| 3. | Holes for fixing to electrical box |
| 4. | Electrical back box |

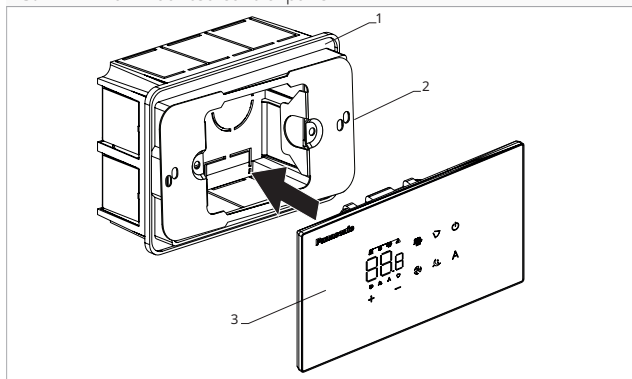


For wall mounting of the control panel:

- fix the back plate to the electrical back box with screws
- connect the electrical wiring

- ⚠ Before making the connections, please verify that the control terminal block is on the right-hand side.

- | | |
|----|----------------------------|
| 1. | Electrical back box |
| 2. | Back plate |
| 3. | Wall-mounted control panel |

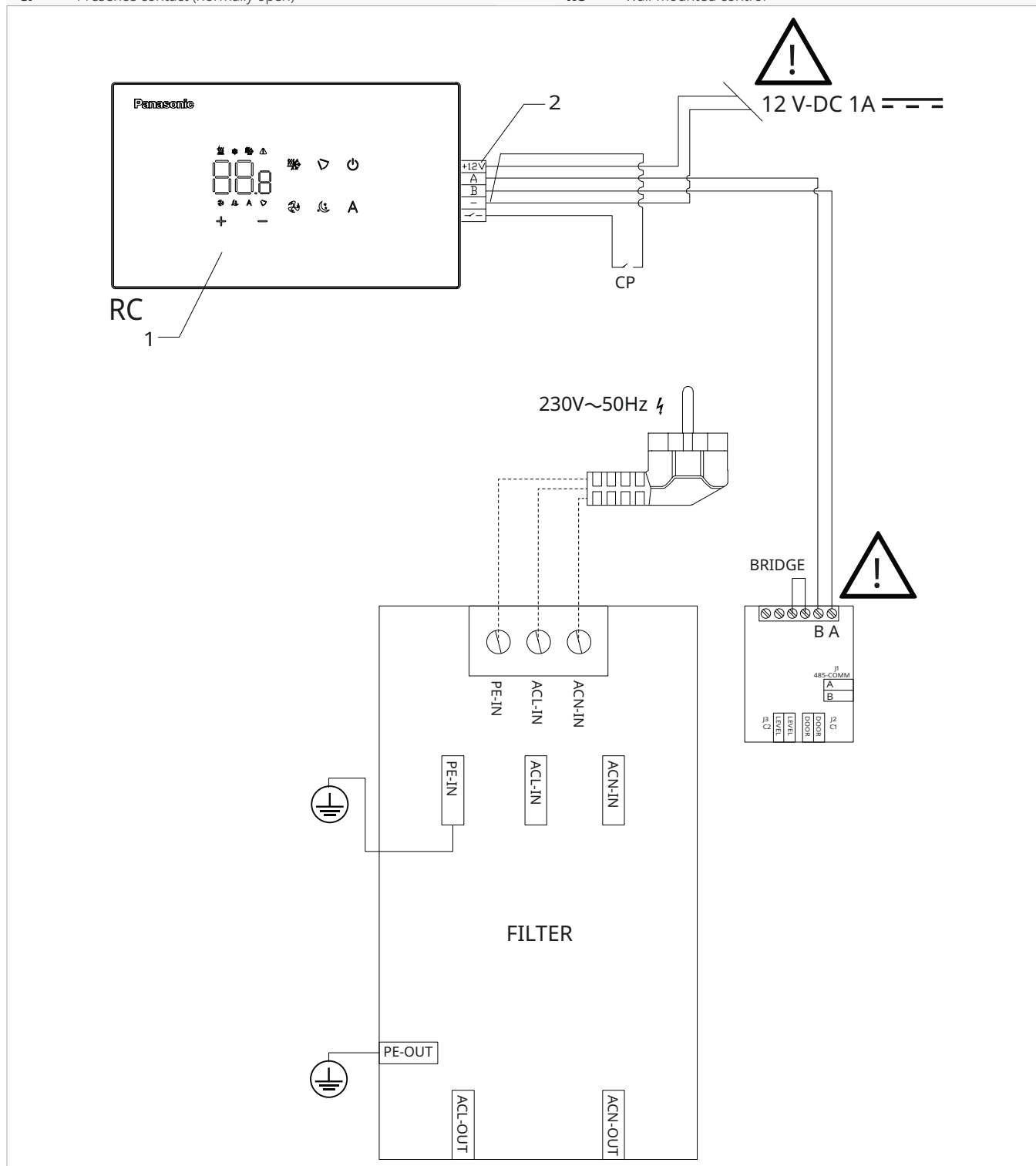


- Close the control panel

- ⚠ Pay attention not to crush the conductors when you close the control.

7.3 Single connection diagram

| | | | |
|-----------|--------------------------------------|-----------|---|
| 1. | Wall-mounted control panel | BA | Serial connection for wall-mounted remote control |
| 2. | Terminal block for device connection | -+ | 12 V-DC 1A power supply |
| CP | Presence contact (normally open) | RC | Wall-mounted control |



⚠ Reverse A and B for connecting the wall control panel with the board.

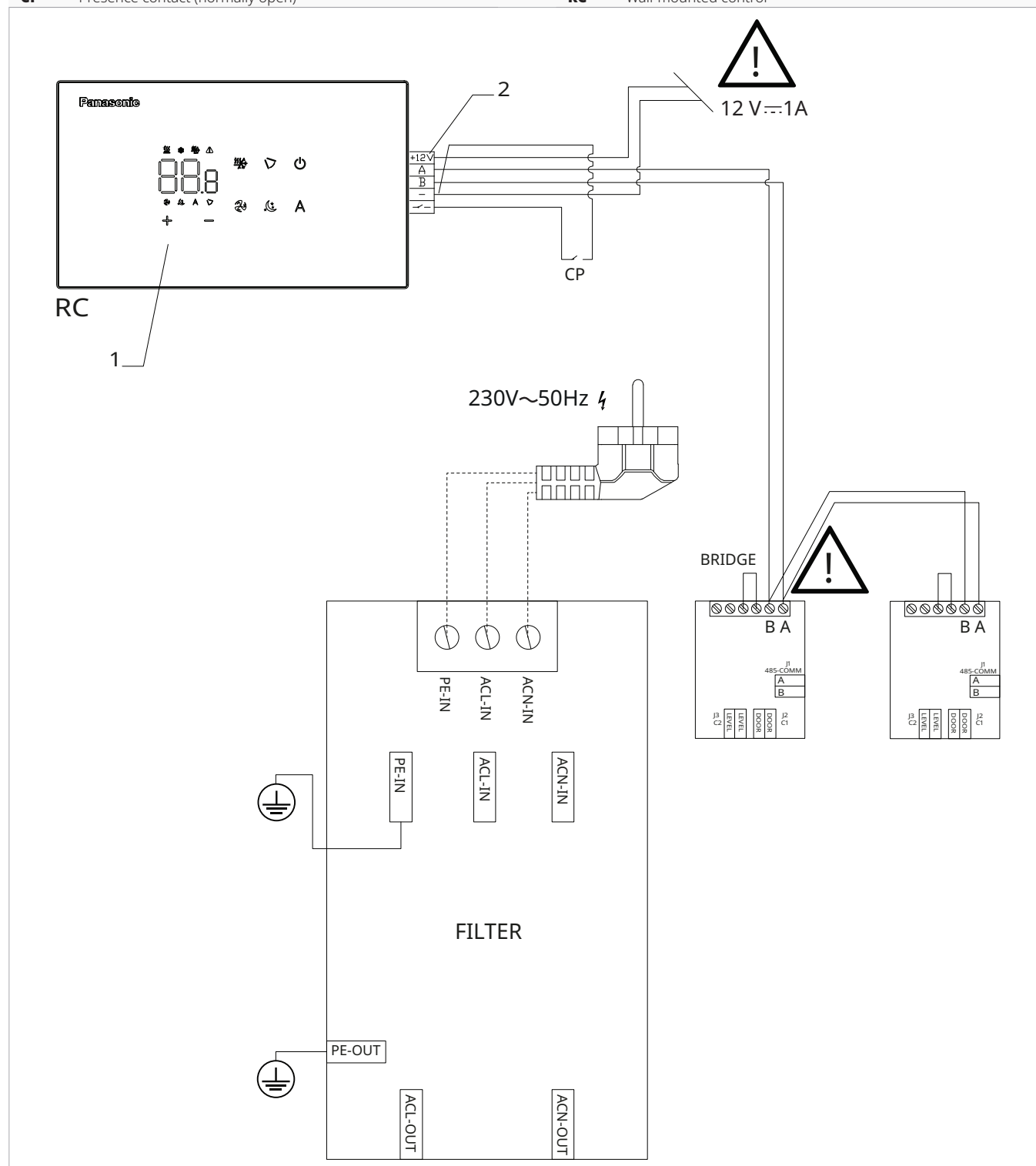
⚠ Power for the control is to be supplied through a 12 V-DC 1A power supply (not supplied)

⚠ For wall control coding PCZ-EFB749, the Aquarea Home App is available.

7.4 Multiple connection diagram

1. Wall-mounted control panel
 2. Terminal block for device connection
 CP Presence contact (normally open)

- BA Serial connection for wall-mounted remote control
 + 12 V-DC 1A power supply
 RC Wall-mounted control



⚠ Reverse A and B for connecting the wall control panel with the boards.

⚠ Power for the control is to be supplied through a 12 V-DC 1A power supply (not supplied)

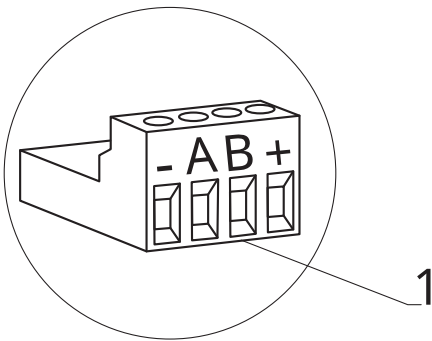
⚠ For wall control coding PCZ-EFB749, the Aquarea Home App is available.

7.5 Connections

7.5.1 Preliminary warnings

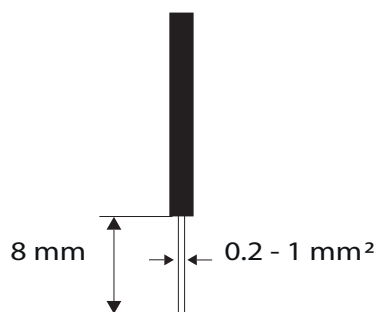
- ⚠ The terminals for connecting the control panel and the presence contact CP are inserted in a plastic bag and placed inside the electrical box.

1. Terminal blocks



The terminals accept:

- rigid or flexible wires with a 0.2 to 1 mm² cross-section
- rigid or flexible wires with 0,5 mm² cross-section if two wires are connected to the same terminal block
- rigid or flexible wires with 0,75 mm² cross-section If the wires have wire end ferrules with a plastic collar



To connect the cables:

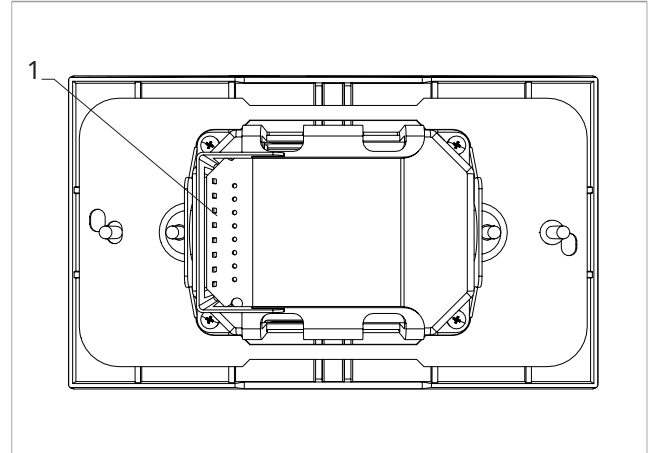
- ▶ strip 8 mm of the wire
- ▶ if the wire is rigid, you can insert it easily whereas
- ▶ if it is flexible, use appropriate crimp terminals
- ▶ push the wire in completely
- ▶ check the right fixing by pulling it gently

7.5.2 Control Panel

- ⚠ The control panel for wall control must be ordered separately.

Terminal block position:

1. Terminal block (Back view panel)



To make the connections:

- ▶ connect the + - power supply wires to a 12 V-DC 1A power supply
- ▶ connect the Modbus serial connection cables to terminals A and B

7.5.3 Presence contact CP

Through this device it is possible to connect an external control signal that inhibits the operation of the control signal, for example:

- opening window contact
- remote on/off
- infrared presence sensor
- enabling badge
- remote change of season

Function

The contact is normally open (NO).

- ▶ when closing the CP contact, connected to a potential-free contact, the device switches to stand-by mode
- CP appears on the display.*
- ▶ At the touch of a button on the display the symbol ⚠ flashes.

⊖ It is forbidden to connect the CP input to that of another unit electronic board. Use separate contacts.

The CP presence contact can be configured for heating and cooling operation via the "To select digital input" *p. 44* settings menu item (digital input).

7.5.4 RS485 Serial Connection

The wall-mounted remote control can be connected through an RS485 serial line to one or more devices, up to a maximum of 16.

The devices must be equipped with an electronic board suitable for remote control.

For the connection:

- ▶ follow the indication on the connection diagram
- ▶ connect respecting the polarity indication A and B

⚠ Use a bipolar shielded cable suitable for the RS485 serial connection with a minimum section of 0,35 mm².

- ⚠ Keep the bipolar cable separate from power supply cable by a minimum of 50 mm.
- ⚠ Chase out the wall in order to minimise the length of the leads.
- ⚠ Complete the line with the 120 Ω resistor.
- ⊖ It is forbidden make star connections.

- ⚠ In the case of a connection between several devices, it is mandatory to carry out the matching between control and device.






7.5.5 Extended display

To enable device connectivity and enable selection of fan power level, the display must be extended. See section "Extended display" p. 44.



7.6 Functions

7.6.1 Basic menu

To access the basic menu

- ▶ with the display off, hold down  for 10 seconds
The device turns on and  appears
- ▶ keep pressed until the indication  appears
- ▶ release the  key
The symbol  appears


To navigate in the menu

- ▶ use the icons  

To select a menu item and to confirm the changes made

- ▶ press the icon 
Confirming the change takes you to the next item.

To exit the menu

- ▶ press the icon  for 10 seconds
- ▶ or wait 30 seconds the automatic shutdown

- ⚠ After 30 seconds from the last action the control resets and the last setting changed is memorised.

Menu items

ot: AIR probe offset (air probe setting)

ur: Value read by the R.H. sensor

ut: Probe Offset PT4

uS: Humidity setpoint

uI: Humidity hysteresis

CF: Scale






ub: Buzzer volume

uu: Wi-Fi reset

up: Wi-Fi pairing






Set AIR probe offset

To set the air probe offset

- ▶ select 
- ▶ press  to change settings
- ▶ increase or decrease the value with the icons  
- ▶ press  to confirm
*By default it is set to 0.
The setting range is from a minimum of -12.0 °C to a maximum of 12.0 °C.*

Set AIR probe offset






To set the air probe offset

- ▶ select 
- ▶ press  to change settings
- ▶ increase or decrease the value with the icons  
- ▶ press  to confirm
*By default it is set to -2,5°C.
The setting range is from a minimum of -12.0 °C to a maximum of 12.0 °C.*

Set probe offset RH






- ⚠ Modify only after real deviations from an actual measurement has been established with professional equipment.

To set the RH probe offset

- ▶ select 
- ▶ press  to change settings
- ▶ increase or decrease the value with the icons  
- ▶ press  to confirm
By default it is set to -2.






Set the humidity setpoint

To set the humidity setpoint

- ▶ select 
- ▶ press  to change settings
- ▶ increase or decrease the value with the icons  
- ▶ press  to confirm
By default it is set to 50.
The setting range is from 20.0% to 90.0%.




Setting the humidity hysteresis

To set the humidity hysteresis

- ▶ select 
- ▶ press  to change settings
- ▶ increase or decrease the value with the icons  
- ▶ press  to confirm
By default it is set to 5.
The setting range is from 1 (min) to 30 (max).






Scale

To change the temperature unit of measure


- ▶ select 
- ▶ press  to change settings
- ▶ select °C or °F
- ▶ press  to confirm
By default the temperature unit of measure is °C.

Adjusting the volume

To change the volume




- ▶ select 
- ▶ press  to change settings
- ▶ increase or decrease the value with the icons  
- ▶ press  to confirm
By default it is set to 1.

The volume setting range is from 00 (min) to 03 (max).

 The volume changes after confirming the modification.









Factory reset

To reset the factory parameters

- ▶ select 
- ▶ press  to change settings
- ▶ select No to keep current parameters
- ▶ select Yes to reset the factory parameters
- ▶ press  to confirm
By default digital input is set to No.









Wi-Fi reset


To reset the Wi-Fi credentials and return the device to its original configuration

- ▶ select 
- ▶ press  to change settings
- ▶ use the   icons in sequence
Appears 
- ▶ press 
- ▶  appears to reset Wi-Fi credentials.
- ▶ press  to confirm
Credentials have been reset.

Activate Wi-Fi

To activate Wi-Fi

- ▶ select 
- ▶ press  to change settings
- ▶ use the   icons in sequence
Appears 
- ▶ press 
- ▶  appears to enable Wi-Fi pairing.
- ▶ press  to confirm






 The device remains visible on Aquarea Home App for the first 15 minutes after the device is switched on.

7.6.2 Advanced Menu



 To access the setup menu, it is necessary to access the Basic menu. See section "Basic menu" p. 42.

The special functions menu can be accessed via the control panel.


To access the advanced menu

- ▶ from the basic menu press 
Appears 
- ▶ press the  key once
Appears 
- ▶ press  to confirm and log in
The advanced menu is accessed.




To navigate in the menu

- ▶ use the icons  

To select a menu item and to confirm the changes made

- ▶ press  for 2 seconds
Confirming the change takes you to the next item.

To exit the menu

- ▶ press  for about 10 seconds
Appears 
- ▶ press  for about 10 seconds
The display turns off.
- ▶ or wait 30 seconds after the last action
The display is switched off automatically.

 After 30 seconds from the last action the control resets and the last setting changed is memorised.

Menu items

Ad: Not used

Pr: Not used

di: Options for digital output

rH: Not used

rC: Not used

UC: Not used

Ac: Not used




Ah: Not used

Ed: Extended display

Fr: Not used


To select digital input

To change the digital input

- ▶ select 
- ▶ press  to change settings
- ▶ select CP for contact presence (default)
- ▶ select CO to cooling open
- ▶ select CC to cooling close
- ▶ press  to confirm

By default digital input is set to CP.

⚠ For return to the default settings, set the digital input to "CP".


⚠ By selecting one of the other inputs (CO,CC) the seasonality is locked. It is not possible to modify it through the key  of the control.

Extended display

⚠ **Allows device connectivity and enables the selection of the ventilation power level.**

⚠ To use the ventilation speed selection, it is necessary to enable the display extension.

To enable the display extension

- ▶ select 
- ▶ select no to disable
- ▶ select Ys to enable

By default, the device is set to no.

7.6.3 Alarm display on wall control panel

⚠ In the event of an alarm, the device still maintains active functions.

⚠ Alarm codes are shown on the on-board display. Refer to the "Visualisation of alarms on display" *p. 30* chapter for the complete list.

8. MAINTENANCE

Routine maintenance is essential to keep the device efficient, safe, and reliable over time.

8.1 Preliminary warnings

This section is dedicated to the Technical Assistance Center. The features of the Technical Assistance Center are described in chapter "Recipients" p. 5.

Before each cleaning and maintenance intervention:

- ▶ disconnect the device from the power supply by turning the system main switch to "OFF"
- ▶ wait for the components to cool down in order to avoid any burns
- ⊖ Carrying out any technical or cleaning work before disconnecting the unit from the power supply is forbidden.
- ⚠ Make sure that there is no voltage before operating.
- ⚠ After completing the maintenance work, the unit must be restored its original condition.

- ⚠ Handle refrigerant with care. Leaking refrigerant can cause freezing.

8.1.1 Specific warnings for R290

- ⚠ R290 refrigerant gas is flammable and odourless.
- ⚠ Check that there are no sources of ignition in continuous operation (open flames, gas appliances, electric stoves, lighted cigarettes, etc.).
- ⊖ Smoking in the vicinity of the appliance is prohibited.
- ⊖ Using a mobile phone near the appliance is prohibited.
- ⊖ Using leak detectors with halogen lamps is prohibited.

8.2 Routine maintenance

The routine maintenance plan includes the following cleaning operations

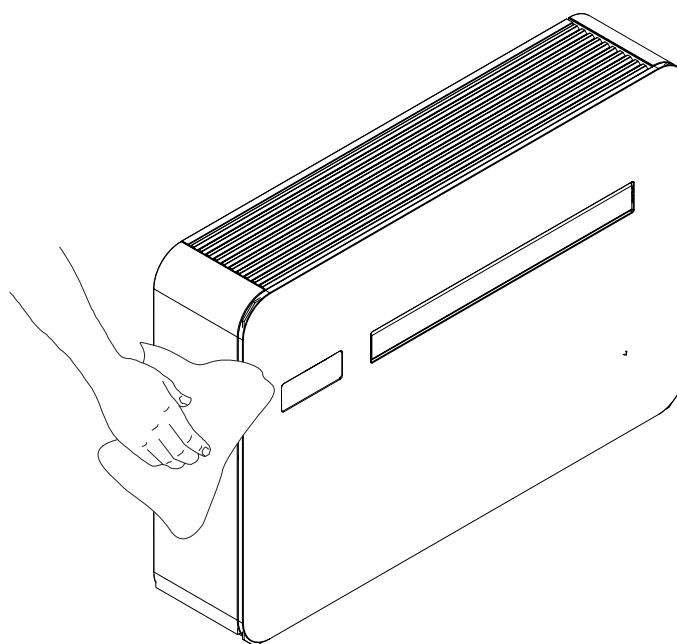
Carry out cleaning:

- every six months

8.2.1 External cleaning

Clean the external surfaces with a soft damp cloth.

- ⚠ Do not use abrasive sponges, or abrasive or corrosive detergents, as you might damage the painted surfaces.

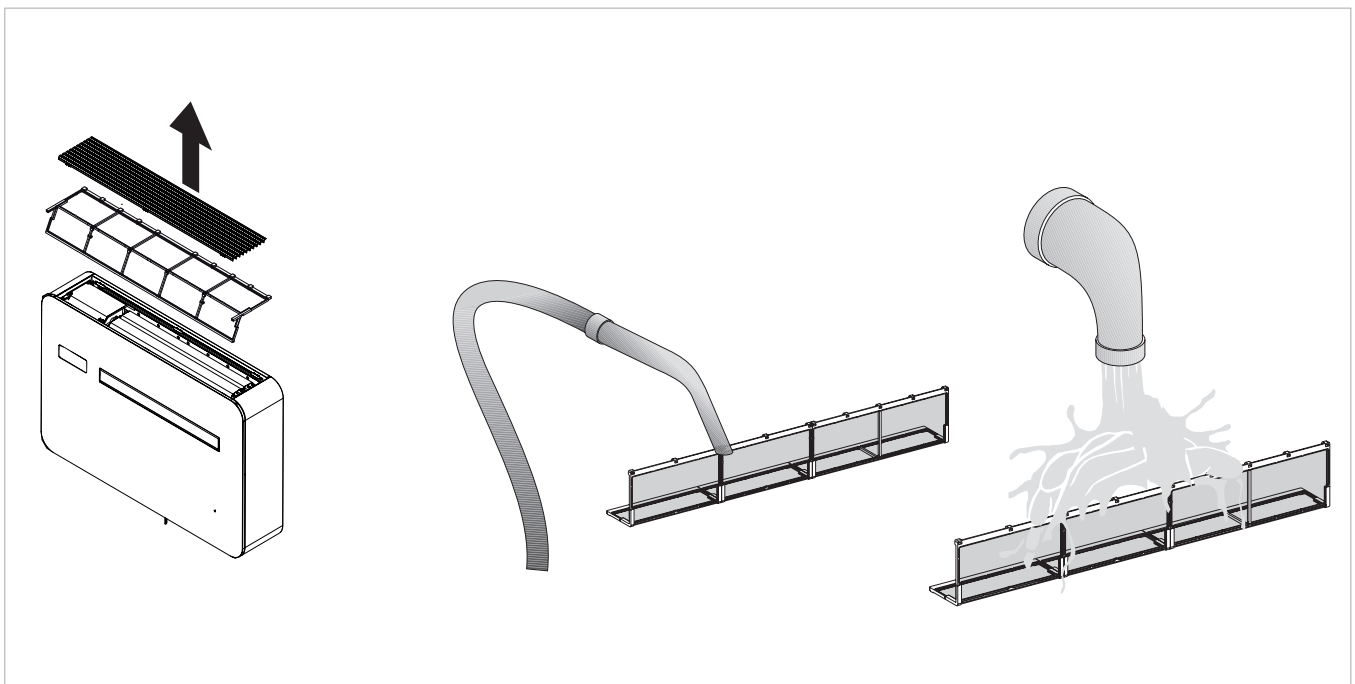


8.2.2 Cleaning the filters

Clean the air filter after a period of continuous use and according to the concentration of impurities in the air, or when you wish to start-up the appliance after a period of inactivity.

- ⚠ Take care of hot and/or sharp sheet metal surfaces before any operation.
- ⚠ The filter is located in the bottom part of the appliance.
- ⚠ Wait for the components to cool down in order to avoid any burns.
- ⚠ Pay attention to the sharp edges.
- ⚠ During cleaning operations, do not use corrosive liquids, abrasive sponges or tools that do not pose a risk of perforating the elements or igniting a flame.

- ⚠ For grid disassembly operations see chapter "Removal of aesthetic panels and grilles" *p. 25*.
- ⚠ For grid assembly operations see chapter "Assembly of aesthetic panels and grilles" *p. 27*.
 - ▶ extract the filter by lifting it
 - ▶ remove the dust from the filter with a vacuum cleaner or by washing it in running water
 - ▶ allow it dry
 - ▶ put the filters back on top of the coils, taking care to position them correctly
- ⚠ Do not use detergents or solvents
- ⚠ After filter cleaning check if the panel is properly mounted.
- ⊘ The use of the appliance without the mesh filter is prohibited



9. TROUBLESHOOTING

9.1 Troubleshooting table

In the event of a malfunction, please refer to the following table. If, after performing the suggested checks, the prob-

lem is not solved, please contact the Authorised Technical Assistance.

| Anomalies | Possible causes | Remedies |
|--|---|--|
| The appliance doesn't switch on | No power supply | Check there is power supply (by turning a light on, for example). Check that the thermal-magnetic circuit breaker used exclusively to protect the appliance has not been tripped (if it has, reset it). If the problem repeats immediately, please call the Service Centre and avoid trying to make the appliance work. |
| | Remote control batteries have run out | Check that the appliance can be turned on using the touch-screen display and substitute the batteries. |
| The appliance does not cool/heat adequately. | The temperature set is too high or too low. | Check and, if necessary, adjust the temperature setting on the remote control |
| | The air filter is clogged | Check the air filter and clean it if necessary |
| | Check that there are no other obstacles to the air flow both inside and outside the appliance. | Remove anything that might block the air flow. |
| | The heating and cooling load has increased (for example, a door or a window has been left open or an appliance has been installed in the room which generates a lot of heat). | Try to reduce the heating and cooling load of the room following instructions below: Cover large windows exposed to sunlight with curtains or with external maskings (blinds, porches, reflecting films, etc.); The air conditioned room must remain closed for as long as possible; Avoid turning on halogen lamps or other high energy consumption appliances such as small ovens, steam irons, hot plates etc.). |

9.2 Diagnosis of possible anomalies

If the conditioner blocks because of an alarm, please communicate to the assistance centre the code on the display to facilitate interventions.

9.2.1 Open CP contact

If the presence contact is not closed, the appliance will not start and the **CP** alarm appears on the display.

Please refer to chapter "CP occupancy contact input connection" *p. 24*.

9.2.2 Maximum condensate collection level warning

In heating operation, condensate drains free through the appropriate pipe.

In case of an OF alarm, check that the condensation drain line is not bent or obstructed to prevent water from draining out.

In cooling or dehumidification function, in extreme operating condition (high temperature and high humidity) the unit may not be able to automatically dispose of the produced condensate, in this case the display will show OF. The OF sign, is not an error, but an alarm indicating that the water has reached the maximum level of the condensate drip tray.

In this case, it is necessary to drain the condensate manually:

- place a drip pan (not provided) below the condensate drain pipe
- drain the water using the cap on the condensate drain pipe

⚠ If after performing the procedure, the OF alarm remains, you should contact the Technical Service Center.

9.2.3 Use of the appliance

⚠ Objects or structural obstacles (furniture, curtains, plants, leaves, blinds, etc.) must not obstruct the normal air flow both from the internal and from the external grids.

⚠ Do not lean against, or worse sit on, the body of the conditioner, this would damage the appliance.

⚠ Do not move the horizontal air outlet flap manually. Always use the remote control to perform such operation.

⚠ In the event of water leaks, turn off the appliance and disconnect the electric power supply. Call the nearest service centre.

⚠ During heating mode, the conditioner eliminates periodically any ice formed on the external battery. In such situation, the machine keeps on working, but it does not dispense warm air to the room. This phase can last from 3 up to maximum 10 minutes.

- ⚠ The appliance must not be installed in rooms where explosive gases develop or where there are humidity and temperature conditions that exceed the maximum levels reported on the installation manual.
- ⚠ Clean the air filter regularly as described in the specific paragraph.

10. TECHNICAL INFORMATION

10.1 Technical data

| | | | P-MOG** |
|--|-----|---------|----------|
| Models | | m.u. | 16 |
| Cooling performance (AT 35°C; AT 27°C) | | | |
| Maximum cooling capacity Dual Power | (1) | kW | 2,35 |
| Nominal cooling capacity | (1) | kW | 1,73 |
| Minimum Cooling Capacity | (1) | kW | 0,70 |
| Dehumidification capacity | | L/h | 0,7 |
| total input power | | kW | 0,57 |
| EER | | | 3,01 |
| Energy efficiency class | (2) | | A |
| Energy efficiency class (EN 14825) | (3) | | B |
| SEER | | | 4,60 |
| Heating performance (AT 7°C; AT °C) | | | |
| Maximum heat output Dual Power | (4) | kW | 2,40 |
| Nominal heat power | (4) | kW | 1,71 |
| Minimum heat output | (4) | kW | 0,75 |
| Total absorbed power | (4) | kW | 0,54 |
| COP | | | 3,15 |
| Energy efficiency class | (2) | | A |
| SCOP | | | 3,70 |
| Energy efficiency class (EN 14825) | (3) | | A |
| Electrical data | | | |
| Maximum absorbed power | | kW | 0,90 |
| Maximum absorbed current | | A | 3,90 |
| Power Supply | | V/ph/Hz | 230/1/50 |
| Aeraulic data indoor (5) | | | |
| Ventilation speed | (6) | Nr. | 3+2 |
| General characteristics | | | |
| Maximum indoor air flow | | m³/h | 360 |
| Maximum external air flow | | m³/h | 430 |
| Medium indoor air flow | | m³/h | 300 |
| Medium air flow external | | m³/h | 360 |
| Minimum indoor air flow | | m³/h | 240 |

1. Outdoor air temperature 35 °, relative humidity 41%. Ambient temperature 27 ° C; relative humidity 47%. Performance according to EN 14511
2. Energy Efficiency according to Directive 626/2011- Valid for tax deduction
3. Energy classification according to EN 14825: 2022
4. Fresh air temperature 7 °C, relative humidity 87%. Room temperature 20°C, relative humidity 59% (max). Performance according to UNI 14511
5. Efficiency according to UNI EN 13141-7 Indoor temperature 20 °C - Indoor humidity 28 % - Outdoor temperature 7 °C - Outdoor humidity 72 %
6. 3 manual speed + auto speed + boost speed
7. Internal side sound pressure measured in semi-anechoic chamber at a distance of 2 m according to ISO 7779

| | | | P-MOG** |
|--------------------------------------|-----|-------------------|----------------------|
| Minimum external air flow | | m ³ /h | 320 |
| Type of compressor | | | Rotary - DC Inverter |
| Sound data | | | |
| Nominal sound pressure | (7) | dB(A) | 39 |
| Minimum sound pressure level | (7) | dB(A) | 27 |
| Refrigerant gas data | | | |
| Type of refrigerant | | | R290 |
| Quantity of refrigerant | | kg | 0,14 |
| Product dimensions and weight | | | |
| Width | | mm | 810 |
| Height | | mm | 549 |
| Total depth | | mm | 165 |
| Wall hole diameter | | mm | 162 |
| Wall holes distance | | mm | 293 |
| Empty weight | | kg | 38,0 |

1. Outdoor air temperature 35 °, relative humidity 41%. Ambient temperature 27 ° C; relative humidity 47%. Performance according to EN 14511
2. Energy Efficiency according to Directive 626/2011- Valid for tax deduction
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6. 3 manual speed + auto speed + boost speed
7. Internal side sound pressure measured in semi-anechoic chamber at a distance of 2 m according to ISO 7779

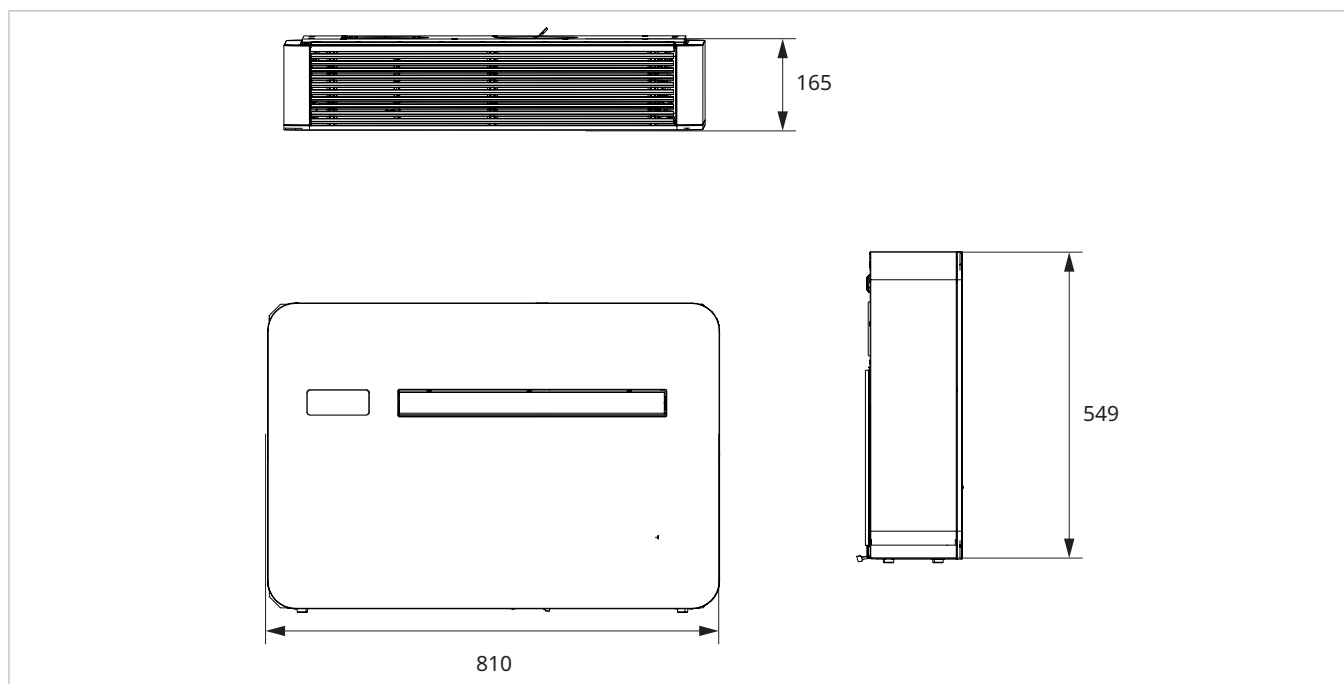
Reference conditions

| | | Environment T | External T |
|-----|--|-------------------|-------------------|
| (1) | Cooling mode tests (EN 14511) | DB 27°C - WB 19°C | DB 35°C - WB 24°C |
| (2) | Heating mode tests (EN 14511) | DB 20°C - WB 15°C | DB 7°C - WB 6°C |
| (3) | Heating mode tests | DB 20°C - WB 15°C | DB -7°C - WB -8°C |
| (4) | Internal side sound pressure measured in semi-anechoic chamber at a distance of 2 m. | | |
| (5) | Internal side sound pressure measured in accordance with regulation EN 12012 | | |

Operating limits

| | Indoor environment T | External environment T |
|--|----------------------|------------------------|
| Maximum operating temperature in cooling mode | DB 35°C - WB 24° C | DB 43°C - WB 32° C |
| Minimum operating temperature in cooling mode | DB 18°C | DB -5°C |
| Maximum operating temperatures in heating mode | DB 27°C | DB 24°C - WB 18° C |
| Minimum operating temperatures in heating mode | DB 5°C | DB -15°C |

10.2 Dimensions



| Models | m.u. | 16 |
|--------------------------------------|------|------|
| Product dimensions and weight | | |
| Width | mm | 810 |
| Height | mm | 549 |
| Total depth | mm | 165 |
| Empty weight | kg | 38,0 |
| Wall hole diameter | mm | 162 |
| Wall holes distance | mm | 293 |

10.3 RED Compliance Statement

Compliance with 2014/53/EU Radio Equipment Directive (RED).

In accordance with Article 10.8(a) and 10.8(b) of the RED, the following table provides information on the frequency

bands used and the maximum RF transmit power of the product for sale in the EU:

| Frequency range (MHz) | Max. Transmit Power |
|-----------------------|---------------------|
| 2400-2472 | <20 |

Hereby, the company declares that the device is in compliance with Directive 2014/53/EU.

⚠ For declarations of conformity, certificates and other certification details please consult the website.

This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

10.4 Safety

This equipment is designed with the utmost care for the safety of those who install and use it.

However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment.

All guidelines must therefore be allowed at all times to ensure safe use of the equipment.

10.5 FCC Declaration of Conformity

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

To avoid the possibility of exceeding the exposure limits, maintain a distance of not less than 0.5 cm between the antenna and the person during normal operation.

10.5.1 Warnings

- ⚠ This wireless device uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.
- ⚠ This device must not be placed or used in conjunction with any other antenna or transmitter.
- ⚠ This equipment complies with the limits for a Class B digital device, pursuant to FCC Rules.
- ⚠ The limits are designed to provide reasonable protection against harmful interference in a residential installation.

10.5.2 Notes on Wi-Fi communication

This equipment complies with the limits for a Class B digital device, pursuant to FCC Rules.

In case of interference:

- increase the distance between the object and the receiver
- immediately contact an Authorised Service Centre or suitably qualified personnel

EU countries intended for use

The version of this device is intended for home and business use in Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Turkey and the United Kingdom and is also authorised in the EFTA Member States: Iceland, Liechtenstein, Norway and Switzerland.

EU countries not intended for use

None.

Panasonic®

Panasonic Corporation
1006 Kadoma, Kadoma City, Osaka, Japan