

AMC P

SERIES R32

EN INSTALLATION AND TECHNICAL SERVICE INSTRUCTIONS

RIELLO

Dear Technician,

We would like to congratulate you on having recommended a **RIELLO** unit: a modern product that is capable of ensuring maximum comfort at length, with a high degree of reliability, efficiency, quality and safety.

While your technical skills and knowledge will certainly be more than sufficient, this booklet contains all the information that we have deemed necessary for the device's correct and easy installation.

Thank you again, and keep up the good work.

RIELLO

COMPLIANCE

RIELLO AMC P heat pumps **are compliant** with the following European Directives:

- Low Voltage Directive 2014/35/EU
- Electromagnetic Compatibility Directive 2014/30/EU
- RoHS Directive 2011/65/EU
- ErP Directive 2009/125/EC and Regulation 2012/206/EC
- WEEE Directive 2012/19/EU
- F-Gas Regulation 2014/517/EU



RANGE

Model	Code
AMC 25 P	20151549
AMC 35 P	20151550
AMC 42 P	20151551

ACCESSORIES

For the complete list of accessories and the information relating to their usage combinations, please refer to the catalogue.

TABLE OF CONTENTS

1	GENERAL INFORMATION	<i>p. 4</i>
1.1	General Notices	<i>p. 4</i>
1.2	Safety precautions	<i>p. 4</i>
1.3	Unit description	<i>p. 5</i>
1.4	Safety and adjustment devices	<i>p. 5</i>
1.5	Identification	<i>p. 5</i>
1.6	Layout	<i>p. 5</i>
1.7	Technical specifications	<i>p. 6</i>
1.8	Cooling circuit	<i>p. 6</i>
2	INSTALLATION	<i>p. 7</i>
2.1	Receiving the product	<i>p. 7</i>
2.2	Labels positioning	<i>p. 7</i>
2.3	Dimensions and weight	<i>p. 7</i>
2.4	Storage	<i>p. 8</i>
2.5	Handling and removal of the packing	<i>p. 8</i>
2.6	Place of installation	<i>p. 8</i>
2.7	Recommended distances	<i>p. 8</i>
2.8	Installation on old systems or systems in need of upgrading	<i>p. 9</i>
2.9	Positioning	<i>p. 9</i>
2.10	Refrigerating connection	<i>p. 10</i>
2.11	Condensate discharge connection	<i>p. 12</i>
2.12	Wiring diagram	<i>p. 14</i>
2.13	Electrical connection	<i>p. 15</i>
2.14	Remote control	<i>p. 17</i>
	Unit display	<i>p. 19</i>
3	COMMISSIONING AND MAINTENANCE	<i>p. 20</i>
3.1	Preparation for first commissioning	<i>p. 20</i>
3.2	Putting into service	<i>p. 20</i>
3.3	Temporary shutdown	<i>p. 22</i>
3.4	Stop for an extended period of time	<i>p. 22</i>
3.5	Ordinary maintenance	<i>p. 22</i>
3.6	Extraordinary maintenance	<i>p. 23</i>
3.7	Alarms	<i>p. 23</i>
4	DISPOSAL	<i>p. 24</i>

The following symbols are used on the product:



The R32 refrigerant gas is slightly inflammable and odourless. Avoid proximity to sources of ignition in continuous operation (open flames, gas household appliances, electric stoves, lit cigarettes, etc).



For more information, see the installation and technical service instructions.



Before performing maintenance and service tasks, read the installation and technical service instructions.



Before the installation, read the installation and technical service instructions.

The following symbols are used in this publication:















WARNING = actions requiring special care and appropriate training.





DO NOT = actions that **MUST ON NO ACCOUNT** be carried out.


1 GENERAL INFORMATION

1.1 General Notices

-  When you get the product, check immediately that the contents are all present and undamaged. Contact the dealer **RIELLO** if you notice any problems.
-  The product's installation must be carried out by an authorised company that will issue a declaration of the installation's conformity to the product's owner once the work has been completed, indicating that the work has been carried out in accordance with the standards of good practice, current National and Local regulations, and the indications provided by **RIELLO** in the instruction booklet accompanying the device.
-  The R32 refrigerant gas is slightly inflammable and odourless. Carefully read the safety data sheet available from the dealer and see table "Minimum floor area for ceiling installation" .
-  The product must be used for its intended purpose, as stated by **RIELLO** for which it has been expressly manufactured. **RIELLO** shall bear no responsibility, whether of a contractual or non-contractual nature, for any damage caused to people, animals, or property due to incorrect installation, adjustments, or maintenance, or improper use.
-  Suitable clothing, instrumentation, and accident-prevention devices must be utilized during the installation and/or maintenance operations. **RIELLO** shall bear no responsibility for any failure to comply with current safety and accident-prevention regulations.
-  During installation and/or service operations, keep the area around the unit tidy and clean.
-  Comply with the legislation in force on the country of deployment with regard to the use and disposal of packaging, of cleaning and maintenance products and for the management of the unit's decommissioning.
-  Any repair and maintenance interventions must be carried out by **RIELLO** Technical Support Service, in accordance with the provisions contained in this publication. Do not modify or tamper with the unit as dangerous situations may arise and the unit manufacturer will not be liable for any damage caused.
-  In the event of any functional anomalies or fluid leaks, set the system's main switch to its "off" position. Promptly contact your local **RIELLO** Technical Support Service, and do not perform any interventions upon the device on your own.
-  The units contain refrigerant gas: operate carefully so as to avoid damaging the gas circuit and the fin bank.
-  Any gas leaks indoors can generate toxic gases if they come into contact with naked flames or high temperature bodies, in case of leaks, please air the rooms thoroughly.
-  Do not place any inflammable object (spray cans) within a 1 metre radius from the air expulsion.









 According to EU Regulation no. 517/2014 regarding certain fluorinated greenhouse gases, the total amount of refrigerant contained within the installed system must be indicated. This information can be found on the unit technical data plate.

 This unit contains fluorinated greenhouse gases covered by the Kyoto protocol. Maintenance and disposal activities must be carried out exclusively by skilled personnel.

 This booklet is an integral part of the device, and must therefore be carefully preserved, and must ALWAYS accompany it, even in the event that it is sold to another Owner or User, or is transferred to another system. If it is damaged or lost, another copy can be requested to **RIELLO** Technical Support Service in your Area.

1.2 Safety precautions

It should be noted that the use of products that utilize electric energy requires certain essential safety regulations to be respected, including the following:

-  Do not allow children or unassisted disabled people to use the unit.
-  Do not touch the unit while barefoot and/or partially wet.
-  Do not spray or throw water directly on the unit.
-  It is strictly forbidden to touch the coil fins, the moving parts, to place any body parts between them, or to insert pointy objects into the grilles.
-  It is forbidden to perform any technical interventions or cleaning operations before having disconnected the device from its electrical power supply, by setting the system's main switch to its "OFF" position.
-  It is forbidden to modify the safety or regulation devices without the authorisation of the manufacturer.
-  Do not pull, detach or twist the electrical wires coming out of the unit, even when the unit is disconnected from the power grid.
-  The packing material must not be disposed of in the surrounding environment and must be kept out of children reach, as it can be dangerous. It must be disposed of according to the regulations in force.

1.3 Unit description

RIELLO AMC P is an indoor unit for floor installation, suitable for use in residential and small business premises in combination with the outdoor unit. The multiple-speed fan DC motor improves performance and sound comfort.

Control, regulation and programming of the unit are carried out by means of the infra-red remote control, whose functions and use are detailed in the user manual.

The R32 refrigerant allows high yields, thus placing **RIELLO AMC P** among the most efficient devices on the market.

1.4 Safety and adjustment devices

The device safety and setting are achieved thanks to:

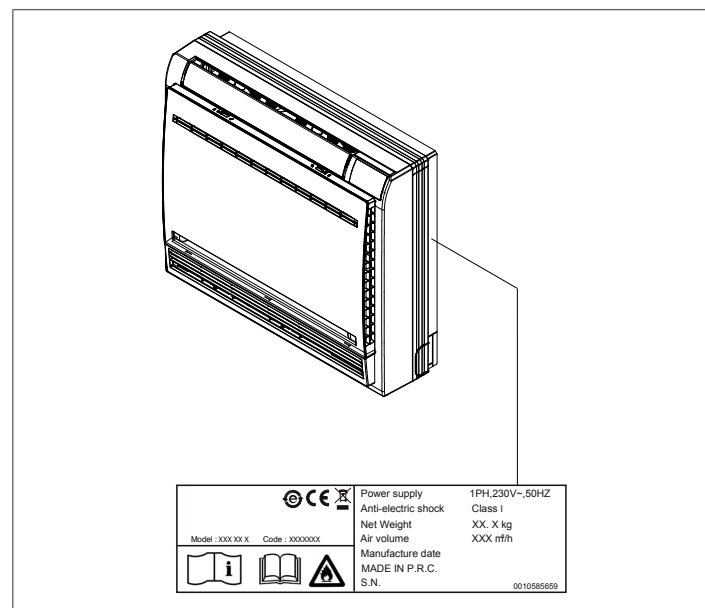
- heat exchanger temperature sensor transmitting the detected value to the control panel, which is triggered in case of abnormal temperature with regard to the operating mode
- room air temperature sensor transmitting the detected value to the control panel in order to control the operation of the outdoor unit and regulate the room temperature

⚠ Safety device replacement must be carried out by **RIELLO** Technical Support Service, using only original components. Please refer to the spare parts catalogue.

⊘ IT IS FORBIDDEN to operate the device with faulty safety systems.

1.5 Identification

The unit can be identified through the technical data plate:

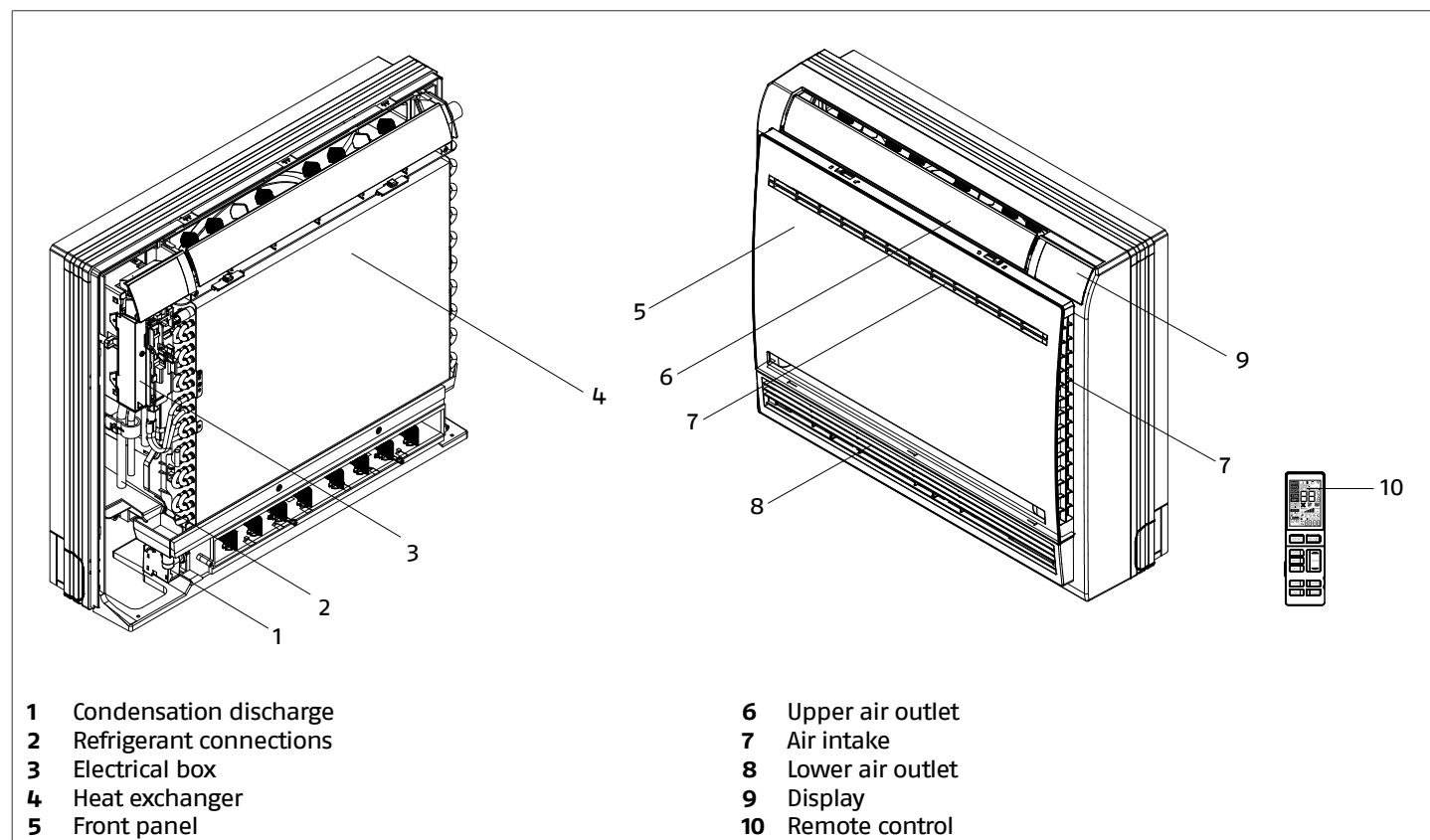


Technical data plate

Contains the device's technical and performance data.

⚠ The tampering, removal, or absence of the identification plates will not allow the product to be properly identified by its serial number.

1.6 Layout

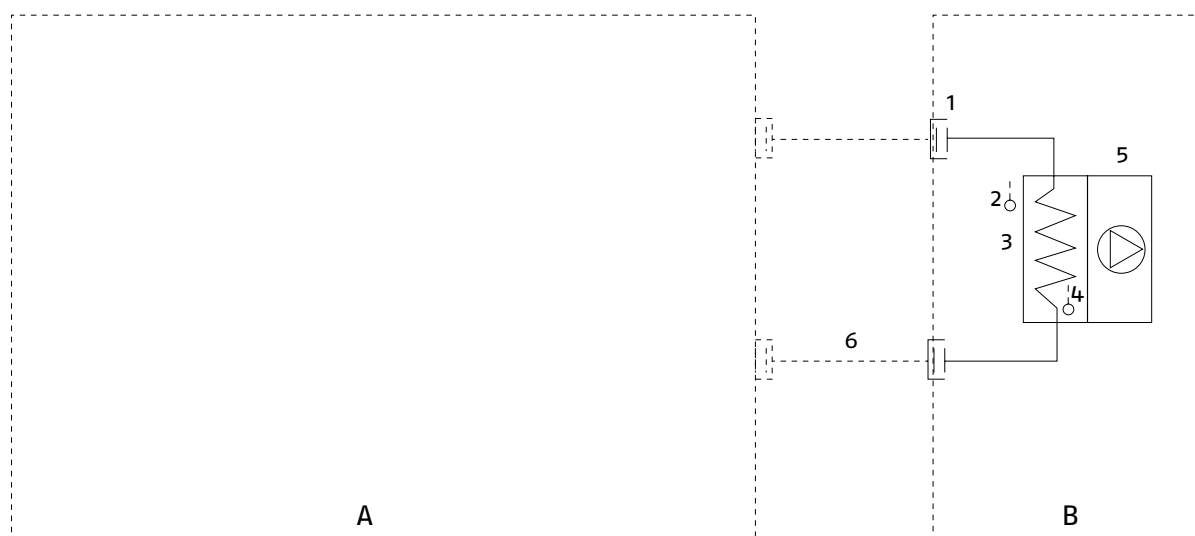


1.7 Technical specifications

Model	25	35	42	
Electrical characteristics				
Power supply	230/1/50			V/Ph/Hz
Fan				
Quantity	1	1	1	no.
Nominal power input	0,04	0,04	0,04	kW
Nominal current consumption	0,25	0,25	0,25	A
Maximum air flow	400	450	530	m³/h
Medium air flow	350	400	480	m³/h
Minimum air flow	300	350	430	m³/h
Superminimum air flow	250	300	380	m³/h
Maximum speed	600	650	750	rpm
Medium speed	520	570	670	rpm
Minimum speed	450	500	600	rpm
Super minimum speed	400	450	550	rpm
Cooling sound levels				
Superminimum sound pressure	31	36	41	dB(A)
Minimum sound pressure	34	38	43	dB(A)
Medium sound pressure	38	42	46	dB(A)
Maximum sound pressure	42	46	49	dB(A)
Maximum sound power	52	55	58	dB(A)
Heating sound levels				
Superminimum sound pressure	31	36	41	dB(A)
Minimum sound pressure	34	38	43	dB(A)
Medium sound pressure	38	42	46	dB(A)
Maximum sound pressure	42	46	49	dB(A)
Maximum sound power	52	55	58	dB(A)

⚠ Performance data are indicated in the matching outdoor unit manual.

1.8 Cooling circuit



- A** Outdoor unit
- B** Indoor unit
- 1** Refrigerant connections
- 2** Room air probe

- 3** Heat exchanger
- 4** Heat exchanger sensor
- 5** Electric fan
- 6** Connection pipes

2 INSTALLATION

- A** Ensure that the installation and operation sites are properly ventilated in order to disperse any gas leaks that could cause flames during activities with intense heat generation and high temperature.
- A** Avoid proximity to sources of ignition in continuous operation (open flames, gas household appliances, electric stoves, lit cigarettes, etc).
- A** Use equipment suitable for the system refrigerant.
- A** Use an electronic leak finder properly calibrated for the system refrigerant.
- ⊘** It is forbidden to use leak finders with halogen lamps.

2.1 Receiving the product

RIELLO AMC P is supplied in a single package, protected by a cardboard packaging, polystyrene elements and a polyethylene film. The following items can be found inside the packaging:

Document envelope:

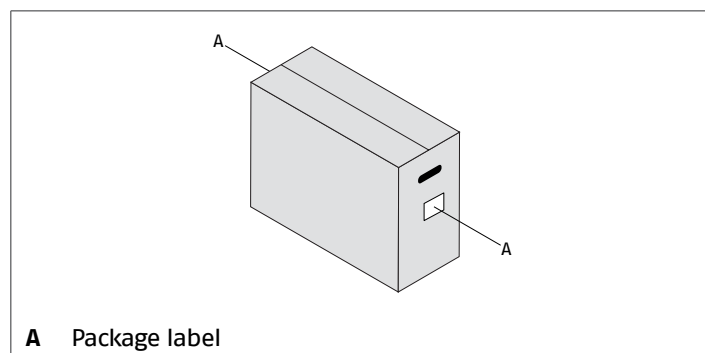
- Instruction's book for the installer and for the Technical Service in Italian
- Instruction's book for the installer and for the Technical Service in English
- user instruction booklet in Italian
- user instruction booklet in English
- Warranty/Spare parts labels.
- contact sheets

It is also supplied as kit:

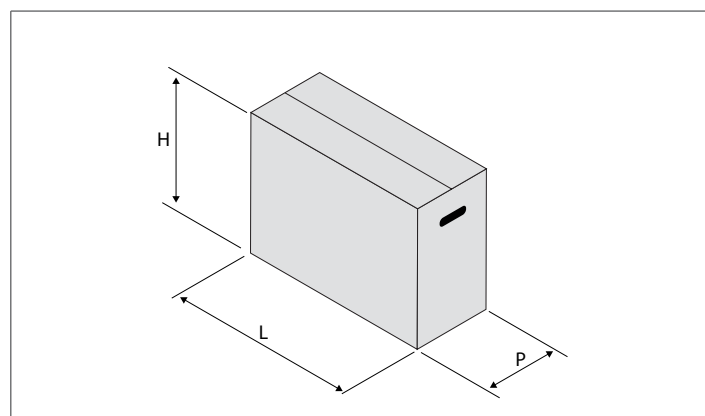
- remote control
- no. 2 screws for remote control support
- no. 2 AAA batteries
- flare nut for liquid pipe
- flare nut for gas pipe
- insulating material
- Screws and anchor bolts set
- condensate discharge pipe
- support bracket
- protective insert for gas passageway hole

- A** The Instruction book comes with the equipment and it should be taken, read and kept carefully.
- A** The document envelope must be kept in a safe place. Any duplicate must be requested from RIELLO S.p.A. which reserves to charge the cost.
- A** Remove the supplied material and the control panel from the fan housing before installing the unit.

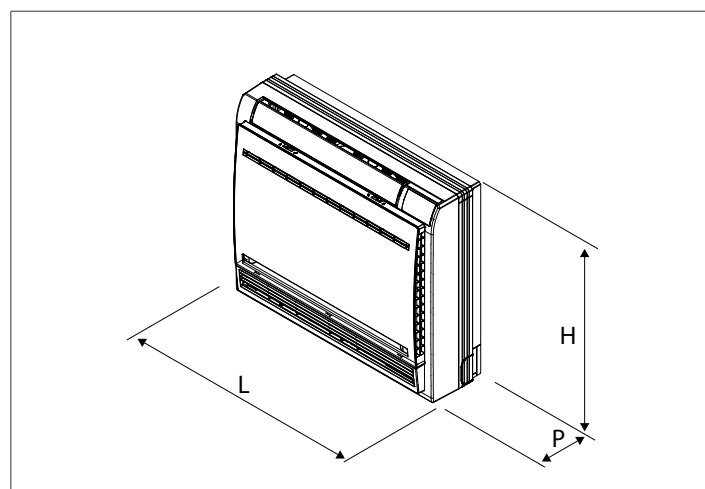
2.2 Labels positioning



2.3 Dimensions and weight



Model	25	35	42	
Packaging dimensions				
H	695	695	695	mm
L	783	783	783	mm
P	303	303	303	mm
Weight	18,5	18,5	18,5	kg



Model	25	35	42	
Product dimensions				
H	600	600	600	mm
L	700	700	700	mm
P	210	210	210	mm
Weight	16,5	16,5	16,5	kg

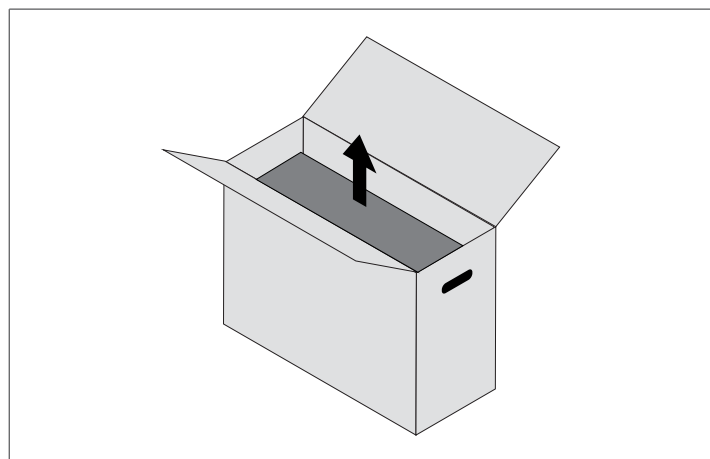
2.4 Storage

⚠ The product must be stored according to the regulations in force.

2.5 Handling and removal of the packing

⚠ Before unpacking, personal protective clothing should be worn and used transport means and tools suitable for the size and weight of the unit.

The product can be handled manually.



Follow the below instructions for packing removal and product handling:

- transport the equipment in the installation place
- cut strapping bands
- remove the packaging cover
- remove the protection elements
- remove the polyethylene bag
- remove the document envelope
- take out the device by lifting it up
- remove accessories and control panel from the fan compartment

⚠ In manual operation it is compulsory to respect always the maximum weight per person provided for by the national laws and standards.

⚠ Handle with care

⚠ The packing material must not be disposed of in the surrounding environment and must be kept out of children reach, as it can be dangerous. It must be disposed of according to the regulations in force.

2.6 Place of installation

The location of **RIELLO AMC P** devices must be determined by the system's designer or by another competent person, and must

take into account the technical requirements, as well as any current local regulations.

⚠ The product uses R32 refrigerant gas and must be installed in rooms with a minimum floor area, as indicated in the following table, depending on the total refrigerant charge of the system (given by the sum of the factory charge of the outdoor unit and, if applicable, the additional charge).

⚠ The amount of refrigerant charged inside the unit refer to the **INSTALLATION AND TECHNICAL SERVICE INSTRUCTIONS** of outdoor unit used.

Minimum floor area for floor installation

mc kg	A min m ²	mc kg	A min m ²
0,2	No requirements	2,1	37,84
0,6		2,2	41,53
0,8		2,3	45,39
1,0		2,4	49,42
1,1		2,5	53,63
1,224		2,6	58,00
1,225	12,88	2,8	67,27
1,3	14,50	3,0	77,22
1,4	16,82	3,4	99,19
1,5	19,31	3,8	123,90
1,6	21,97	4,2	151,36
1,7	24,80	4,6	181,56
1,8	27,80	5,0	214,51
1,9	30,98	5,4	250,21
2,0	34,32	5,8	288,65

mc: refrigerant charge of the system
A min: minimum floor area for indoor unit

RIELLO AMC P is designed for indoor floor installation:

- install the indoor unit in the room to be air-conditioned
- its position must allow for the circulation of treated air in the whole room
- consider an area where there are no obstacles to the regular air delivery and intake

Check that:

- the support wall is able to support the device weight
- the wall section does not feature building supporting elements, pipes or power lines

Avoid:

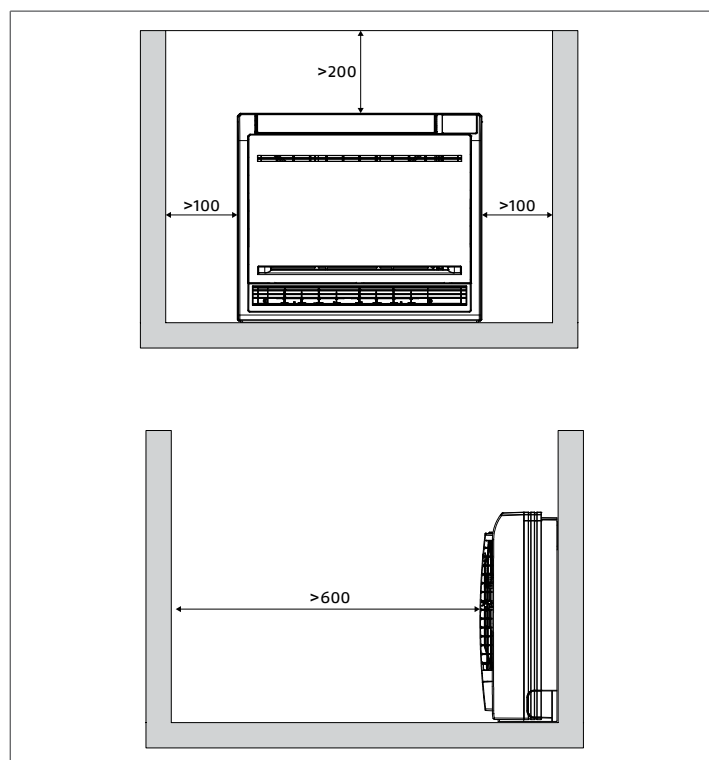
- installing the device in hallways or passageways
- any obstacles or barriers that will cause the expelled air to recirculate
- locations with aggressive or explosive atmospheres or with inflammable fluids
- direct exposure to sunlight and proximity to heat sources
- humid locations or positions where the unit could come into contact with water
- environment containing oil vapours
- locations with high frequency contamination

⚠ Avoid placing the unit less than 1 metre away from radio and video systems.

2.7 Recommended distances

The distances for the device installation and maintenance are shown in the figure. The indicated spaces are necessary in order to prevent the airflow from being blocked, as well as to allow

normal cleaning and maintenance operations to be carried out.



2.8 Installation on old systems or systems in need of upgrading

When **RIELLO AMC P** is installed on old systems or systems in need of upgrading, it is recommended to ensure that:

- the electrical system is compliant with the applicable regulations and has been installed by qualified professionals

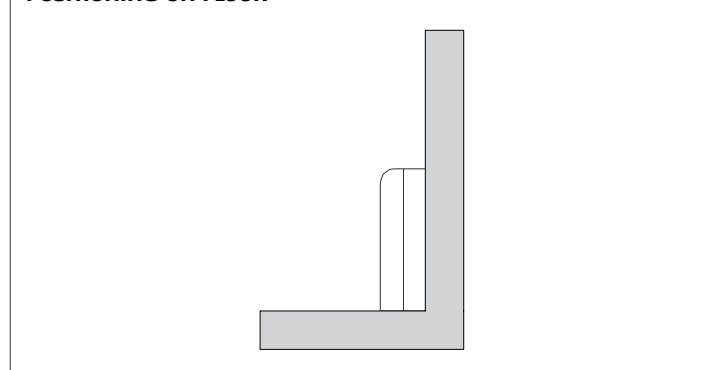
⚠ In the event of a replacement, the system must be inspected by the designer or by another competent person, and must be compliant with the technical requirements, as well as the current legislations and regulations.

⚠ The manufacturer shall bear no responsibility for any damages caused by incorrect system installation.

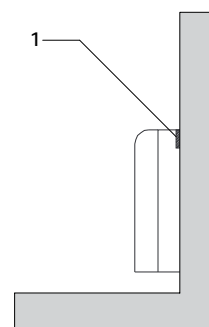
2.9 Positioning

RIELLO AMC P devices must be positioned in a vertical position, resting on the floor or slightly off the ground. They must be fixed to the floor or to the supporting wall.

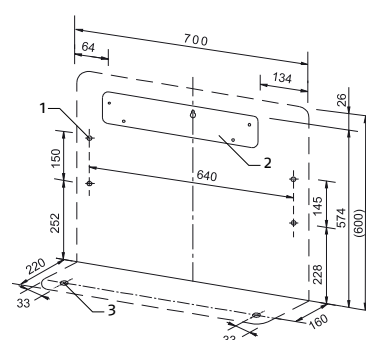
POSITIONING ON FLOOR



HANGING POSITION



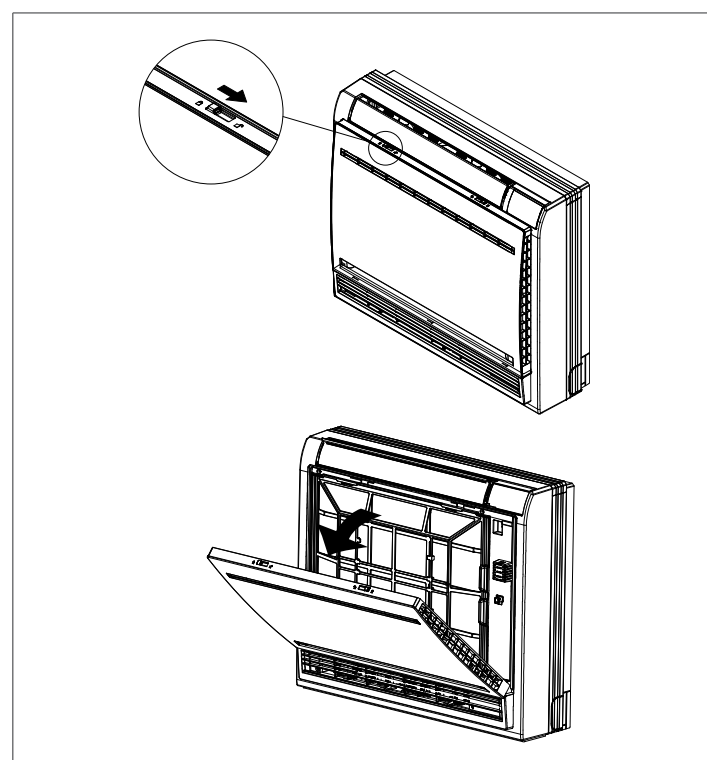
1 Support bracket



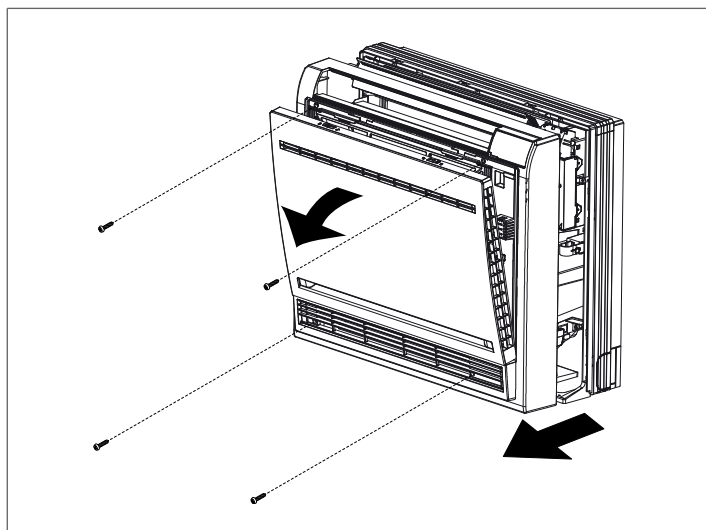
- 1 Fixing holes for wall mounting
- 2 Support bracket
- 3 Fixing holes for floor mounting

To fix the unit is required to remove the covering cabinet.

To remove the cover cabinet:



- move the locking sliders
- open the front panel



- unscrew the fastening screws
- remove the cabinet

Leak test:

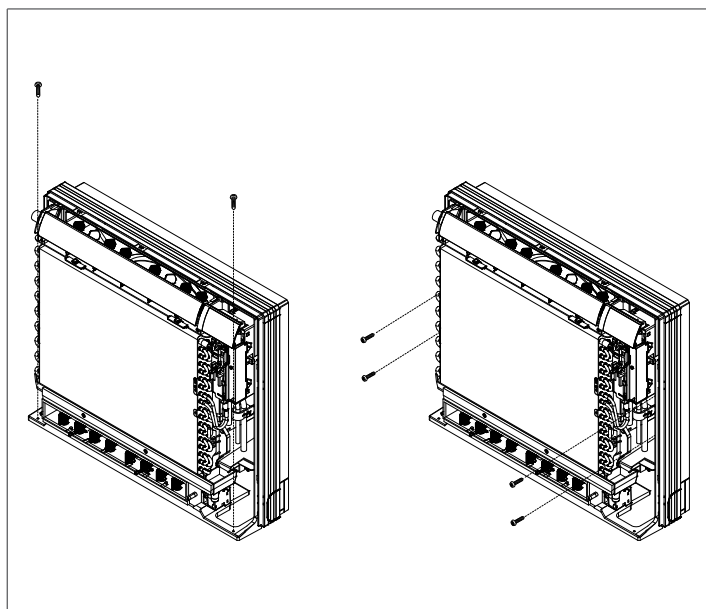
The unit is supplied as pre-charged with nitrogen.

- partially loosen one fitting plug
- check for nitrogen leaks to verify that there is pressure inside the device

⚠ If pressure down, do not continue installation and check for leakage inside the unit.

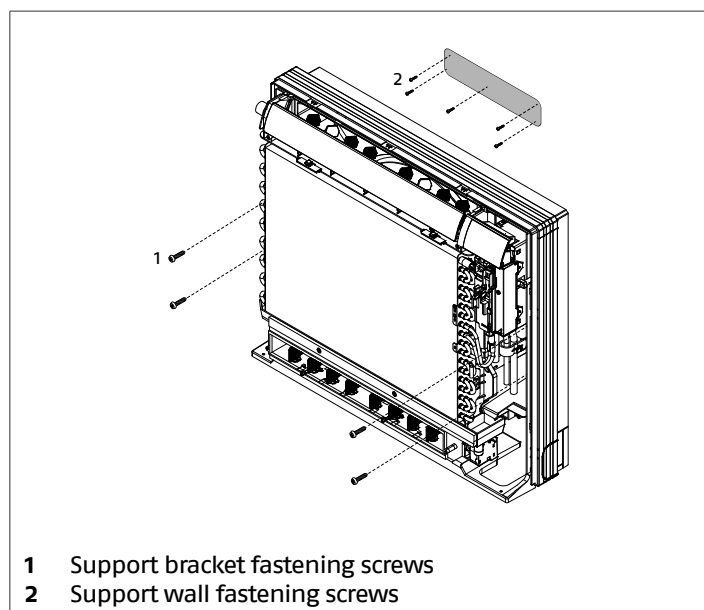
⚠ Contact **RIELLO** Technical Support Service.

Positioning on floor



- lean the unit against the floor
- fix the unit to the floor
- fix the unit to the wall

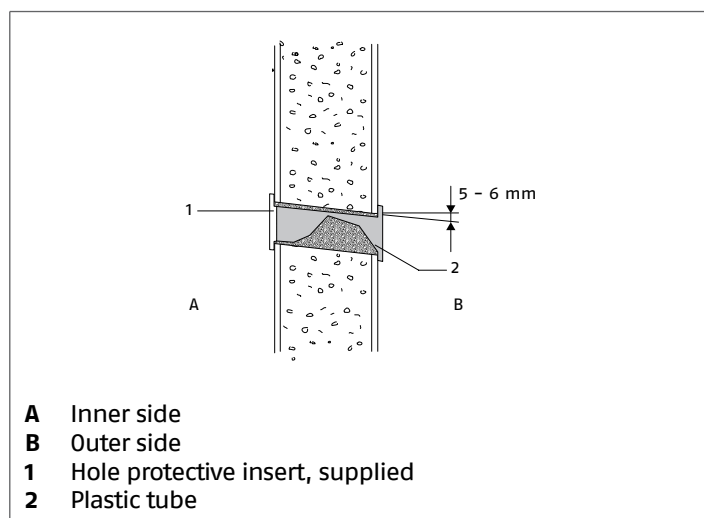
Positioning off the ground:



- 1 Support bracket fastening screws
- 2 Support wall fastening screws

- fasten the fixing bracket to the support wall
- hook the device to the bracket
- secure with screws to the wall

Drilling into the wall:



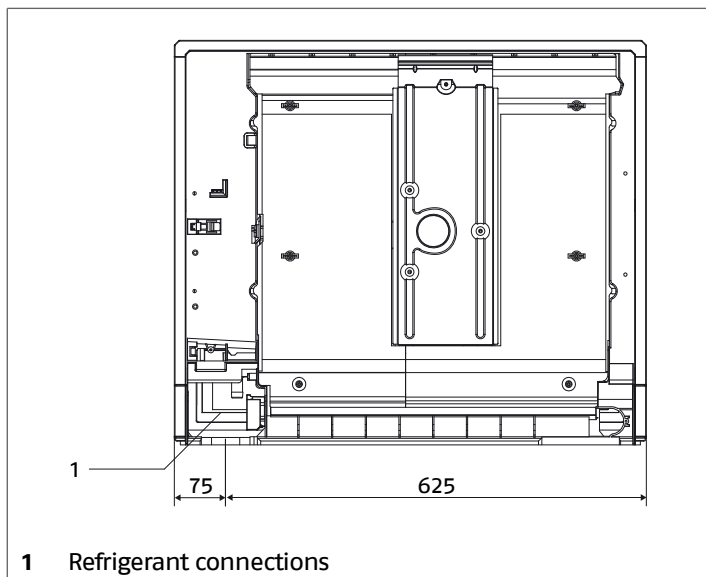
- A Inner side
- B Outer side
- 1 Hole protective insert, supplied
- 2 Plastic tube

- drill the through hole into the wall
- keep a downward inclination toward the external side
- insert a plastic tube in the hole in order to protect the connections
- introduce the supplied hole protection insert on the internal side of the wall
- seal with stucco

⚠ In case of connections on the rear side of the unit, refer to chapter “Refrigerating connection” for the position of the hole.

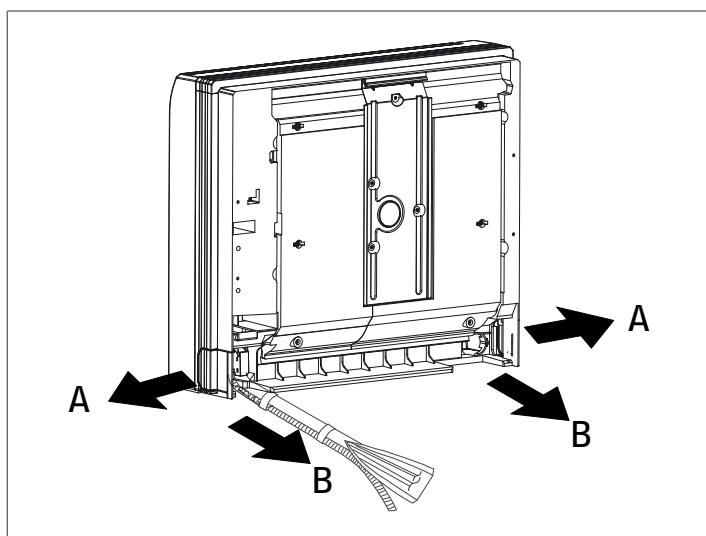
2.10 Refrigerating connection

The dimensions and positions of **RIELLO AMC P** cooling connections are shown hereunder.



Model	25	35	42	
Connections				
Liquid line connection		1/4		Inches
Gas line connection		3/8		Inches
Liquid line connection		6,35		mm
Gas line connection		9,52		mm

Connection outlet directions are indicated below.



In case of connection in directions A:

- remove the relevant pre-trimmed part on the cover cabinet

! For indications concerning distances and differences in height of connection pipes, refer to the matching outdoor unit manual.

! Use clean hoses. Make sure the inside is free of dust, residues, water.

! Avoid the entry of uncondensable gases (air) in the circuit, otherwise, with the unit in operation, high pressures with the risk of damages might ensue.

! Use copper pipes for cooling systems.

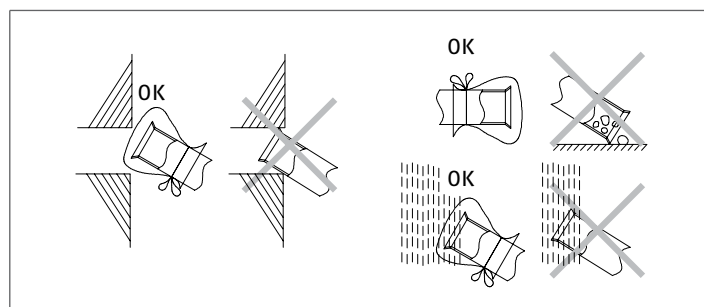
⊖ It is forbidden to use second-hand cooling lines since their flare connection seal is not guaranteed.

⊖ It is forbidden to use pre-charged cooling lines.

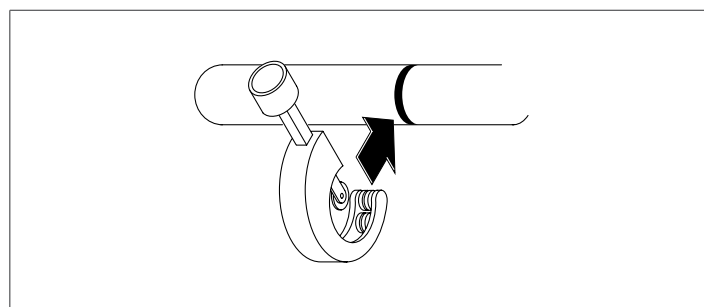
⊖ It is forbidden to carry out welding operations with refrigerant inside the cooling circuit. If necessary, the refrigerant must be recovered and the circuit must be cleaned with nitrogen without oxygen.

Connections

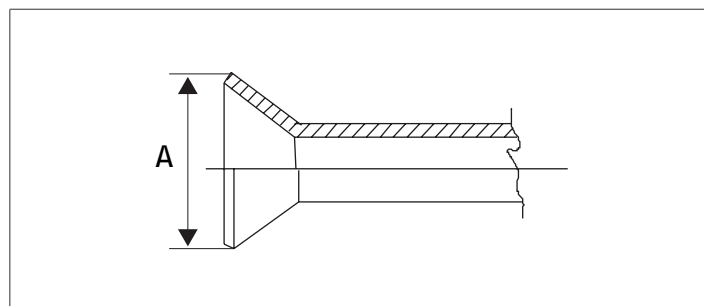
— position the connecting pipes



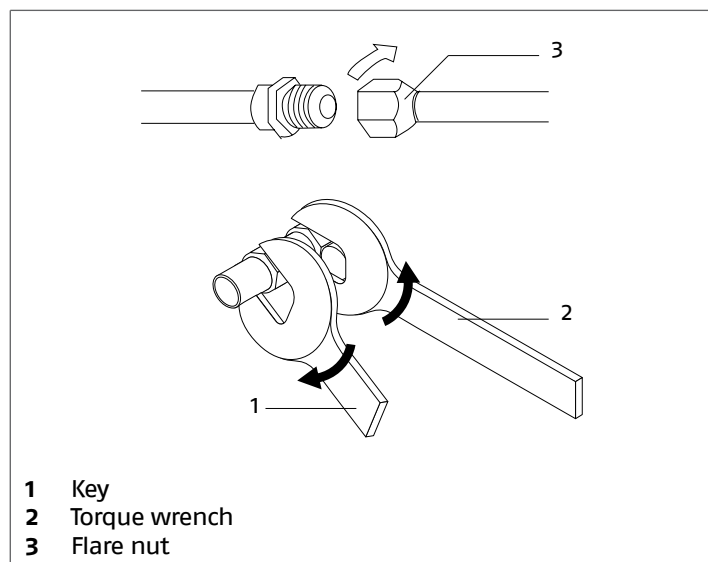
! Before threading the lines through the hole in the wall, close the lines ends.



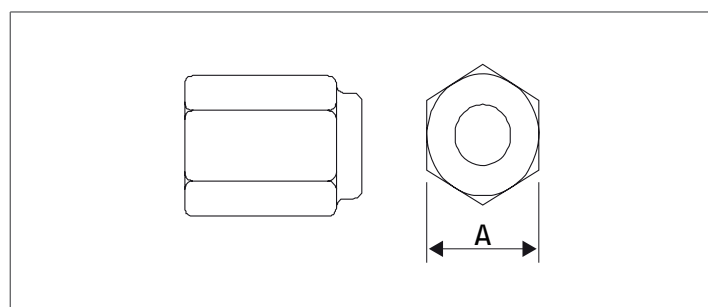
- cut the pipe end square using a pipe cutter
- remove burrs keeping the cut edge facing down
- remove the flare nut on the unit connection
- insert it into the connection pipe
- flare the tube



Pipe Ø		A
mm	inches	mm
6,35	1/4	9,1
9,52	3/8	13,2
12,70	1/2	16,6
15,88	5/8	19,7



Pipe Ø		Tightening torque
mm	inches	Nm
6,35	1/4	18
9,52	3/8	42
12,70	1/2	55
15,88	5/8	60



Pipe Ø		A
mm	inches	mm
6,35	1/4	17
9,52	3/8	22
12,70	1/2	26
15,88	5/8	29

- bring line ends with flare connection close to their coupling on the unit
- manually rotate the flare nuts by 3 - 4 turns
- tighten the connections using a spanner and a counter spanner

⚠ Use a torque wrench to tighten so as to prevent damage to flare nuts and gas leaks.

⚠ Use equipment suitable for the system refrigerant.

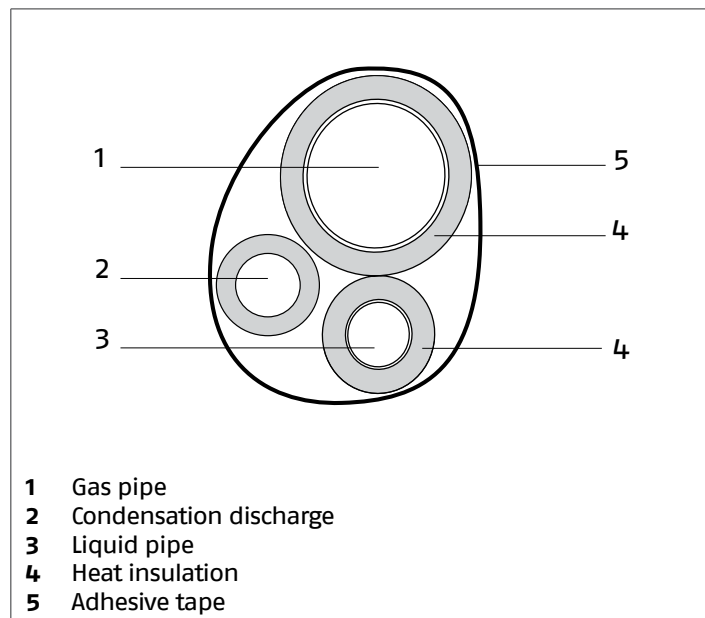
⚠ Avoid using the refrigerant oil on the external part of the flaring.

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

⚠ As for circuit leak and pneumatic vacuum tests, refer to the matching outdoor unit instruction booklet for the installer.

Pipe insulation

Connection pipes must be thermally insulated to prevent dispersions of heat or formation of condensate.



- insulate the liquid and gas pipes separately
- use insulating material that is thicker than 15 mm
- ensure that the insulating material adheres to the pipe without gaps
- fix using adhesive tape

⚠ Do not tighten the adhesive tape too much, so as to avoid damaging the insulation.

⚠ Avoid partial insulation of the pipes.

⚠ In case of use with outdoor temperature above 30 °C and relative humidity above 80%, increase wall thickness up to 20 mm.

For gas pipes:

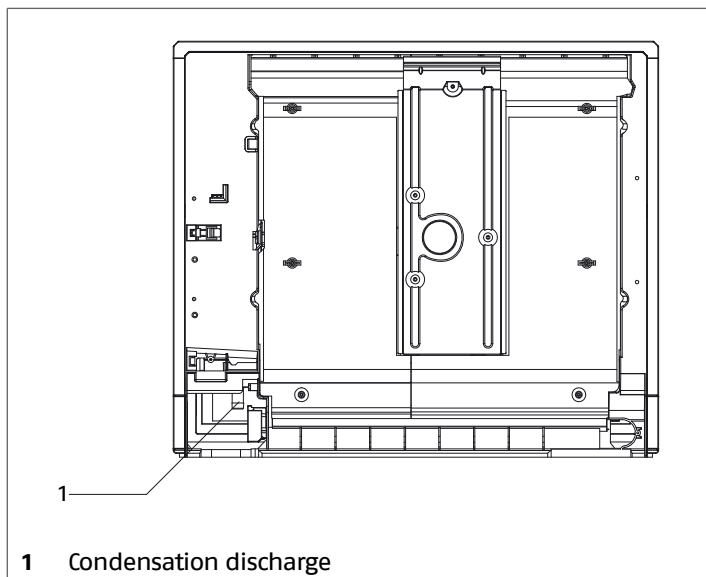
- ensure that the material used resists to temperatures up to 120°C

For liquid pipes:

- ensure that the material used resists to temperatures up to 70°C

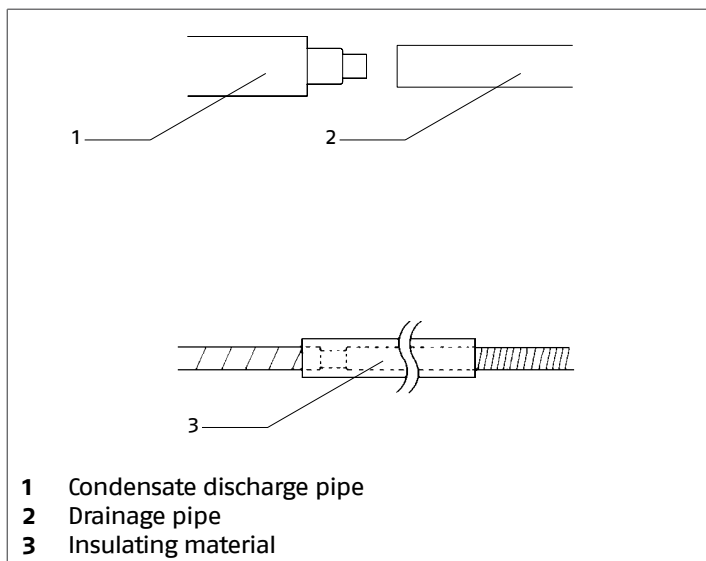
2.11 Condensate discharge connection

RIELLO AMC P is equipped with condensate drain pan which is produced during cooling operation and which must be conveyed to a place suitable for drain

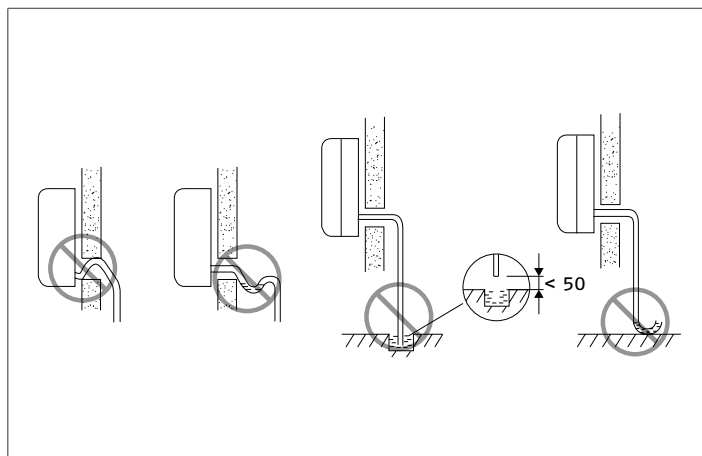


Model	25	35	42	
Connections				
Condensate discharge attachment Ø	PVC 15 /20		mm	

Connections



- connect a rubber drainage pipe
- direct it toward a suitable place for discharge
- insulate the joints



! 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 a quick disassembly for cleaning purposes.

! Ensure that all joints are properly sealed so as to prevent water leaks.

! The drainage pipe must be insulated for sections running inside houses in order to prevent condensate formation on its surface.

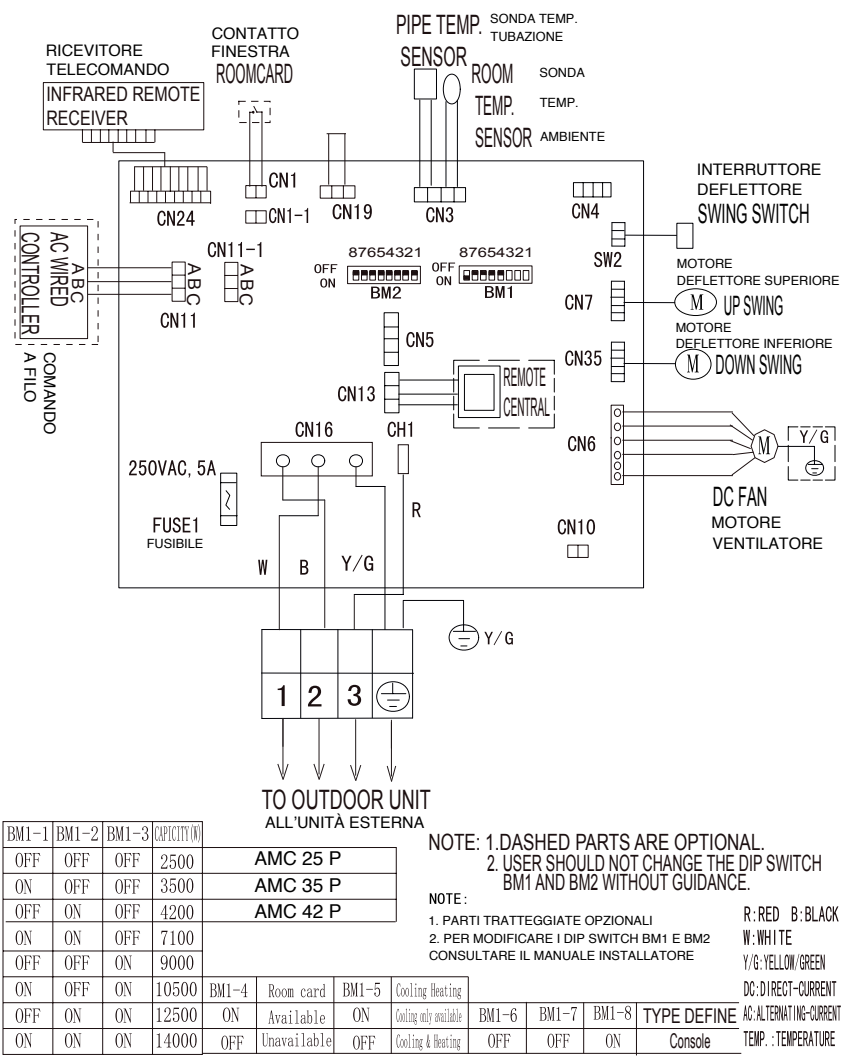
Drainage check

After electrical connection:

- charge 1,2 l water into the condensate tray
- check that it flows out correctly through the drainage pipe

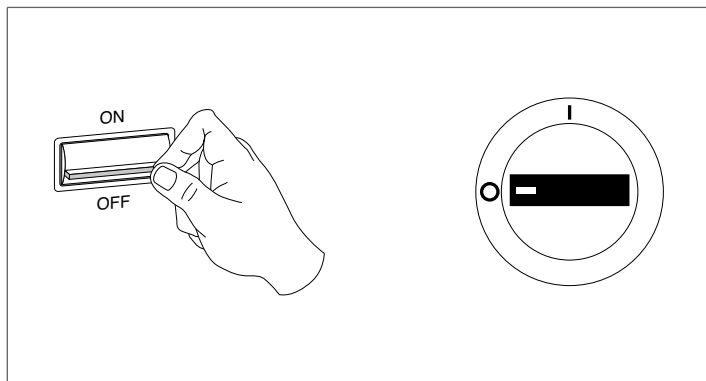
2.12 Wiring diagram

MODEL 25 - 35 - 42



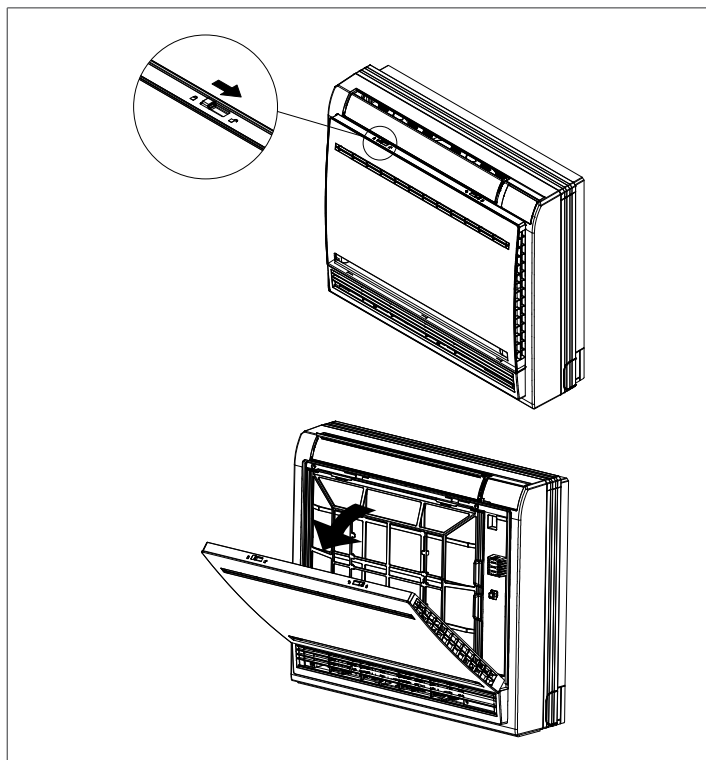
2.13 Electrical connection

AMC P it leaves the factory completely wired, and only requires a connection to the outdoor unit.

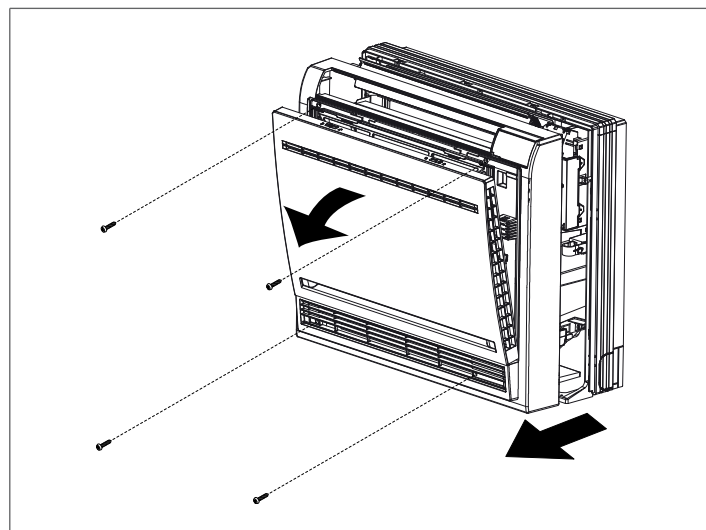


— position the system's main switch in the "OFF" position.
To access the terminal board first remove the cabinet:

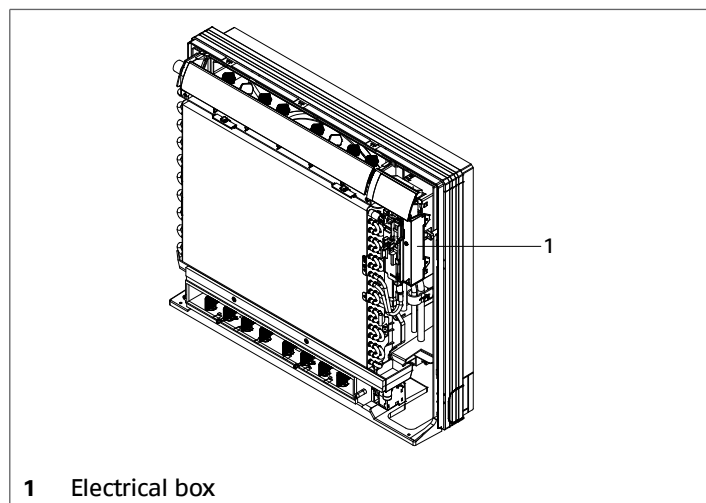
To remove the cover cabinet:



- move the locking sliders
- open the front panel

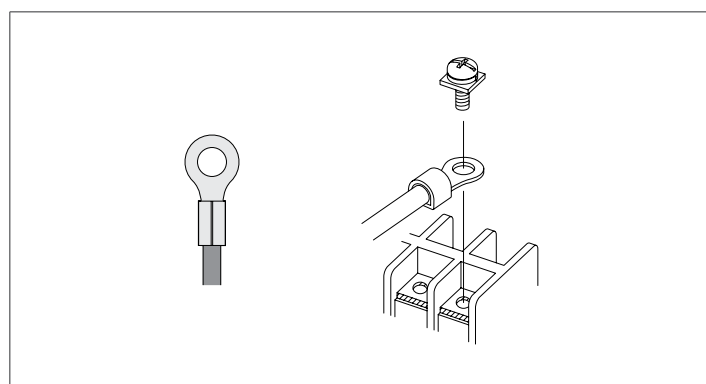


- unscrew the fastening screws
- remove the cabinet



1 Electrical box

- unscrew the fastening screws
- remove the electric panel access panel
- make the electric connections according to the diagrams on the installation booklet of the matching outdoor unit



⚠ It is compulsory to use ring crimp terminals to connect to the terminal board.

For the sizing of the electrical cables, use the following table:

Model	25	35	42	
Electrical characteristics				
Power supply	230/1/50		V/Ph/Hz	
Power cable	H07RN-F		Type	
Power cable	3 x 1,5		n. x mm²	
Signal cable	4 x 1		n. x mm²	

⚠ The cable sections specified in the table are minimum requirements. The correct size must be calculated taking into account the actual length, the type of routing and other conditions set by the existing regulations.

- fasten the wires with the wire retainer
- check the correct positioning of the cable gland
- complete the electric connections and refit all components by performing the described operations in reverse order

Mandatory items:

- connect the device to a properly functioning earthing system
- for any electrical intervention, always refer to the wiring diagrams contained within this booklet
- take anti-static precautions in case of weather conditions where humidity is less than 40%

⚠ Electric connections shall be made in compliance with national regulations.

⚠ Avoid placing the connection cables less than 1 metre away from radio and video systems.

⚠ Avoid using mobile phones.

⊖ It is forbidden to earth the device together with pipes, lightning conductors or the earthing system of a telephone line. Using an improper earthing system can cause electric shocks.

2.14 Remote control

Control, setting and programming operations are carried out with the IR remote control.

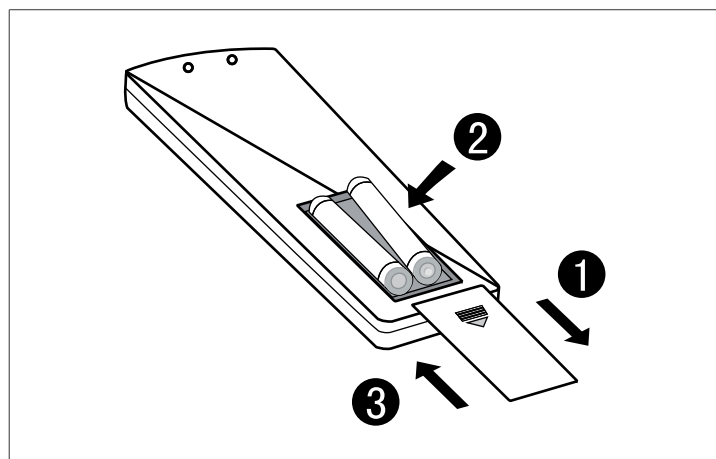
The electronics modulates the device operation according to the temperatures detected by the probes inside the indoor and outdoor units.

Battery insertion

The remote control is powered by two AAA batteries (1.5 V) housed at the back, under a cover.

Should you notice a poorer reception or if display information fades out, the batteries must be changed.

To fit or change batteries:



- remove the cover by pressing it down and lifting it up
- if present, remove old batteries
- fit new batteries according to proper polarity

⚠ Two 1.5V AAA batteries are supplied with the unit for its first set-up.

⚠ Never mix and match new and old batteries or different types of batteries.

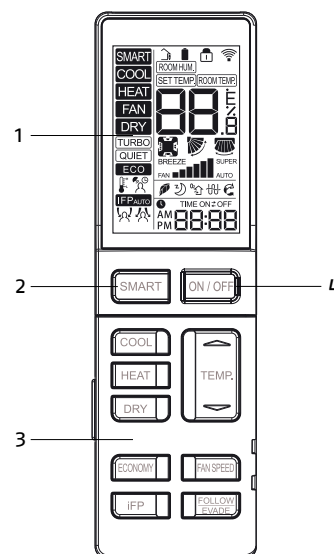
⚠ When you remove the batteries, all settings in the remote control will be deleted. Fit the new batteries and reprogram.

⚠ Do not dispose of old batteries in the environment. Always take them to the suitable containers at points of sale.

Function keys

The remote control features a small door in the key area:

DOOR CLOSED



- 1 Display
- 2 Smart button
- 3 Quick function keys
- 4 On-Off key

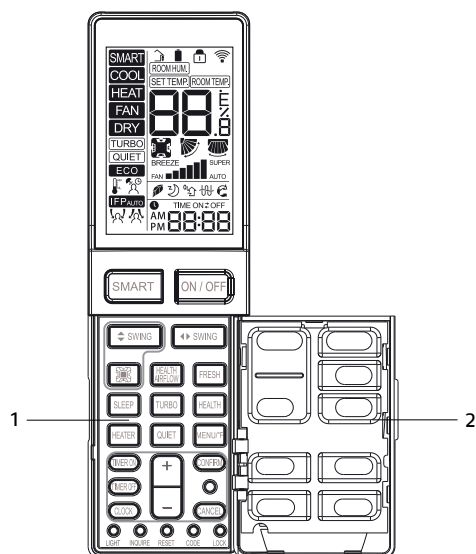
When the door is closed, you can activate the quick functions, such as choosing the operating mode and setting the desired temperature.

⚠ Ensure that the door is fully closed. If this is not the case, the external keys will not work.

Function keys with door closed

- SMART** Enables Automatic mode
- ON / OFF** It switches the device on and off
- COOL** It activates the Cooling mode
- HEAT** It activates the Heating mode
- DRY** It activates the Dehumidification mode
- TEMP.** It increases or decreases the selected parameter value
- ECONOMY** Enables ECO function
- IFP** Function not available
- FAN SPEED** Select required ventilation speed: minimum, medium, maximum or automatic
- FOLLOW LEAVE** Function not available

DOOR OPEN



- 1 Door
- 2 Advanced function keys

When the door is open, you can access the advanced functions, e.g. time scheduling and motor-driven deflector settings.

Function keys with door open



It activates and deactivates the automatic movement of the horizontal deflector or stops it in a specific position



It activates and deactivates the automatic movement of the vertical deflector or stops it in a specific position
Function not available for Cassette unit



Select the desired deflector



It enables the Health Air Flow function



Enable Fresh function (low speed ventilation)
Not available for Console unit



It activates the Sleep function



Enable Turbo function (maximum speed ventilation)



Function not available



Function not available



Enable Quiet function



It switches the temperature scale from Celsius to Fahrenheit and vice versa



Gives access to Timer ON settings



Gives access to Timer OFF settings



It gives access to current time change settings



It increases or decreases the selected parameter value



Confirm the settings



Delete the settings



Switch on or off the unit display



Indoor unit processing



Press to restart the air conditioner



Private function

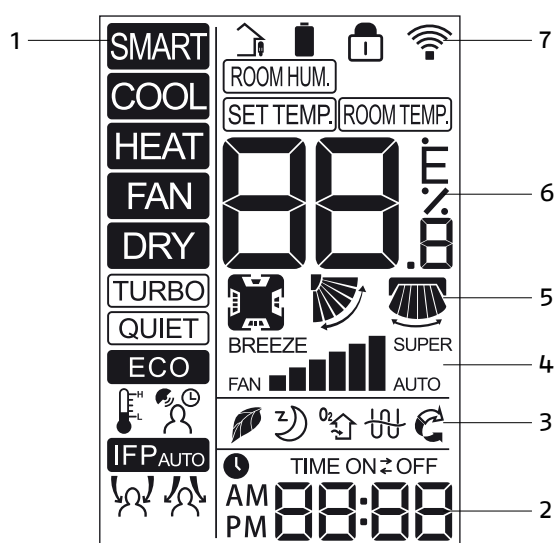


Keys locking

Remote control display

The remote control display shows the settings as changed by the user and the detected weather conditions.

The backlit display is divided in areas according to function type.



- 1 Operating mode
- 2 Timer settings
- 3 Functions
- 4 Fan settings
- 5 Motor-driven deflector settings
- 6 Climatic settings
- 7 Remote control status

Operating mode



Smart mode enabled



Cooling mode enabled



Heating mode enabled



Ventilation mode enabled



Dehumidification mode enabled



Turbo function enabled



Quiet function enabled



Economy function enabled








Not available

Timer settings


88:88 Timer setting value or current time display

ON Switch on timer enabled
OFF Switch off timer enabled




Functions

-  Not available
-  Sleep function enabled
-  Fresh function enabled
Not available for Console unit
-  Not available
-  Health Airflow function enabled

Fan settings

-  Fan speed set
- BREEZE Quiet speed enabled
- SUPER Turbo speed enabled
- AUTO Auto speed enabled

Motor-driven deflector settings

-  Deflectors enabled
Available for Cassette unit only
-  Horizontal deflector position
-  Vertical deflector position
Not available for Cassette unit

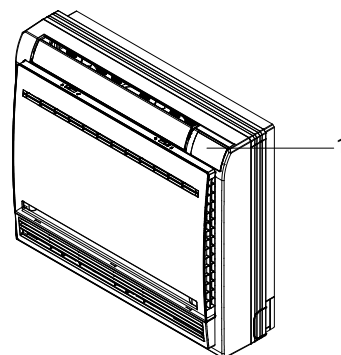
Climatic settings

- 1. Detected ambient humidity
- 2. Required temperature when using the button
- 3. Detected ambient temperature

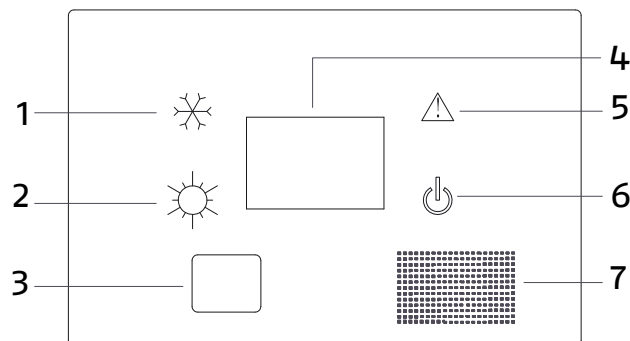


Unit display

The unit display shows the active functioning mode, the temperature and the alarms, if any.







1 Display

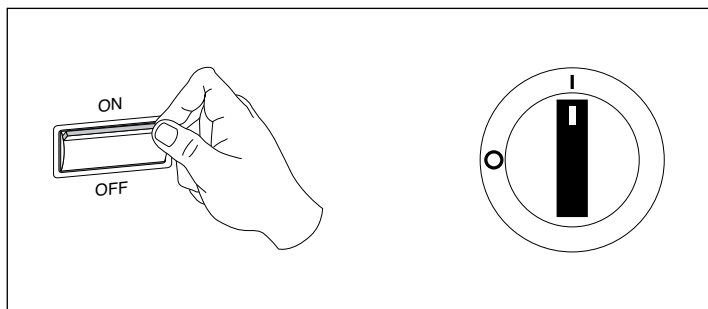


- 1 Cooling mode enabled
- 2 Heating mode enabled
- 3 Emergency switch
- 4 Temperature indication, alarm code
- 5 Alarm on
- 6 Device on
- 7 Remote control receiver

Remote control status

-  Signal transmission upon pressing the keys
-  Battery level
-  Remote control keys locked
-  WiFi connection enabled

- all the safety conditions have been met
- all distances have been respected
- the electrical connections have been properly completed
- power supply values are correct.
- the earthing has been carried out correctly
- all the connections have been properly tightened



- position the system's main switch in the "ON" position.
- activate the unit with the remote control
- check its operation in the different modes

⚠ The compressor activates 3 minutes after unit activation.

⚠ Refer to the user booklet as for the use of the remote control.

Start-up in cooling mode with low temperatures

When the indoor air temperature is less than 16 °C the unit does not start in cooling mode. In case either it is necessary to check the operation in these conditions it can be used the emergency switch positioned on the unit's electronic board.

Open the electrical panel and access the electronic board following what is indicated in the chapter "Electrical connection".

To switch on:

- keep the emergency switch pressed down until a double acoustic signal is emitted
- the air-conditioner starts in cooling mode with high ventilation speed and active air deflector

To switch off:

- press the emergency switch again

⚠ This operation must be carried out in specific conditions and not for usual operation.

Checks during and after the first commissioning

After starting the device, check that:

- the current consumed by the compressor is less than the maximum permitted
- the device is operating under the recommended operating conditions
- the unit is able to stop and start up again

⚠ Should any of the above-listed controls have problems: turn the device off and call the Technical Service immediately.

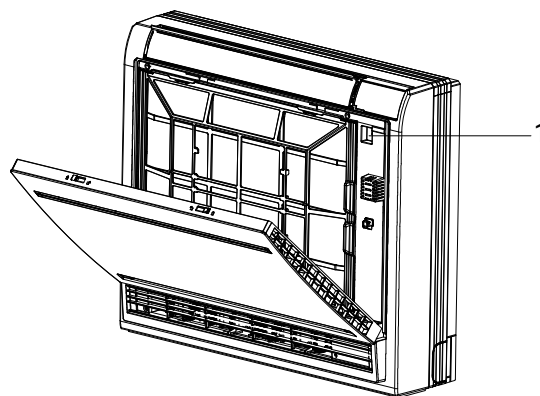
⚠ Do not touch the device pipes to prevent potential burns.

⚠ Take anti-static precautions in case of weather conditions where humidity is less than 40%.

⚠ Avoid using mobile phones.

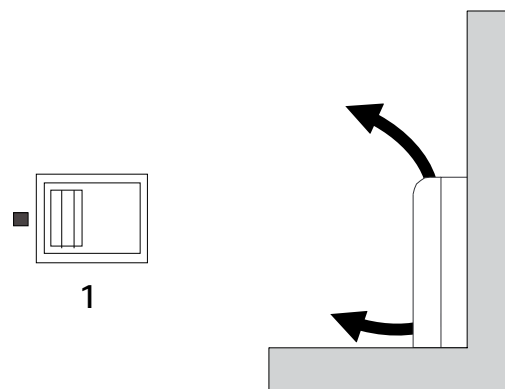
Air outlet selection

The air supply is set by default to exit both the upper and lower vents. The delivery mode is decided by the program based on the operating mode and the temperature setting.



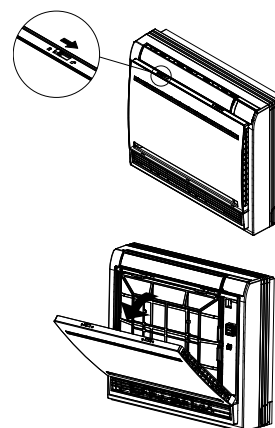
1 Air outlet selector

FACTORY SETTING

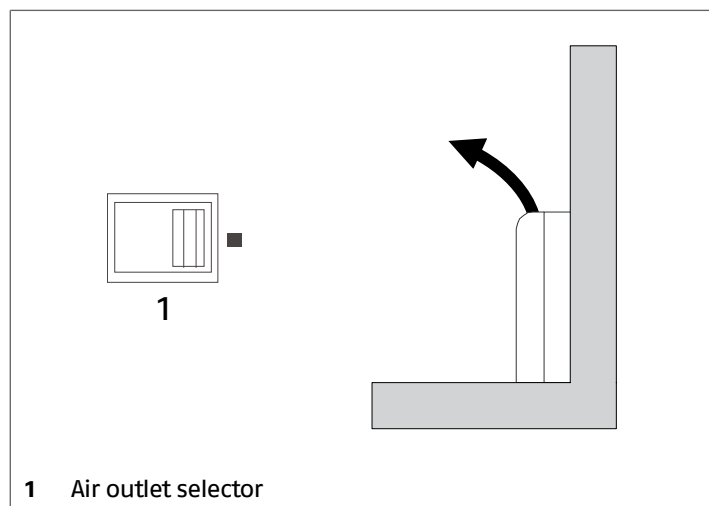


1 Air outlet selector

- in Cooling, Dehumidification and Ventilation the air is supplied only by the upper vent
 - in Heating both from the upper and lower vents
- If necessary, it is possible to deactivate the delivery from the lower outlet by a selector positioned below the front panel. To deactivate the delivery from the lower outlet:



- move the locking sliders
- open the front panel



- set the selector as shown in the illustration

3.3 Temporary shutdown

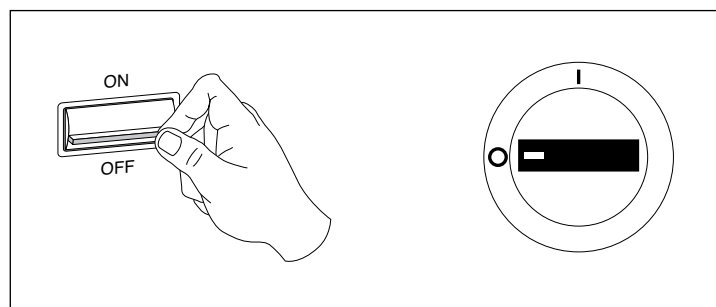
In order to shut down the unit for periods of brief absences:

- only use the remote control to disable the unit

3.4 Stop for an extended period of time

If the device has not been used for an extended period of time, carry out the following operations:

- start the device in ventilation mode
- select the maximum speed
- let the device run for 6 hours
- deactivate the unit with the remote control



- position the system's main switch in the "OFF" position.

3.5 Ordinary maintenance

Routine maintenance is fundamental for keeping the equipment efficient, safe and reliable. It can be performed periodically by the Technical Support Service, whose staff is technically qualified and can use genuine spare parts, if necessary.

⚠ Original conditions must be restored after performing the required maintenance operations.

⚠ All described operations **MUST** be carried out under the following conditions:

- cold device
- device NOT supplied with electric power
- suitable personal protection equipment

⊘ Do not open the access covers and carry out technical or cleaning activities before disconnecting the unit from the power grid by positioning the system's main switch in the "OFF" position

Monthly operations

The following checks are part of the monthly maintenance plan:

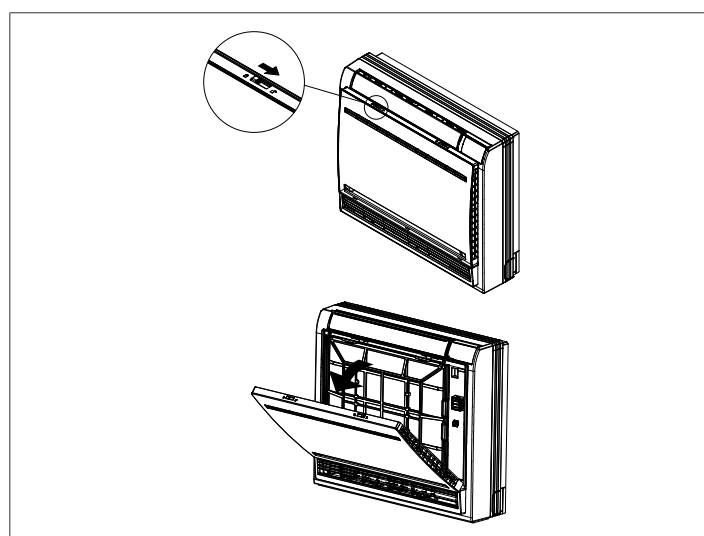
- Cleaning the cabinet
- mesh filter cleaning

Cleaning the cabinet

- wet a sponge or soft cloth with water and soap to wash
- once cleaning is over dry surfaces with care

⚠ Do not use water at a temperature that is higher than 40°C, powder or abrasive detergents, solvents and brushes.

Mesh filter cleaning



- open the fixing pin
- open the air intake grill
- take out the mesh filter by grabbing the relevant fins
- remove dust with an vacuum cleaner
- repeat for all elements

⚠ Stubborn dirt can be removed by washing the filter in a luke warm (max. 40 °C) solution of water and neutral detergent. After washing, rinse the filters well and leave to dry in the shade.

⚠ Exposing the filters to the sun or washing them with water at a temperature that is higher than 40 °C can cause the filters to shrink.

⊘ It is forbidden to use the device without mesh filter.

Yearly operations

The annual maintenance plan includes the following checks:

- power supply voltage
- electric connection tightening
- status of cooling and hydraulic joint
- condensate tray cleaning
- electric absorption

3.6 Extraordinary maintenance

Removal

In case of replacement or extraordinary reparations, you may need to remove the unit.

Proceed as follows to remove the capacitors:

- carry out the evaporator emptying operation

⚠ The operation is detailed in the Installer booklet of the matching outdoor unit.

- deactivate the unit with the remote control
- position the system's main switch in the "OFF" position.
- disconnect the cooling pipes
- disconnect the condensate discharge
- disconnect the electric connections
- loosen the fastening nuts
- unfasten the unit from the threaded bars
- remove the unit

3.7 Alarms

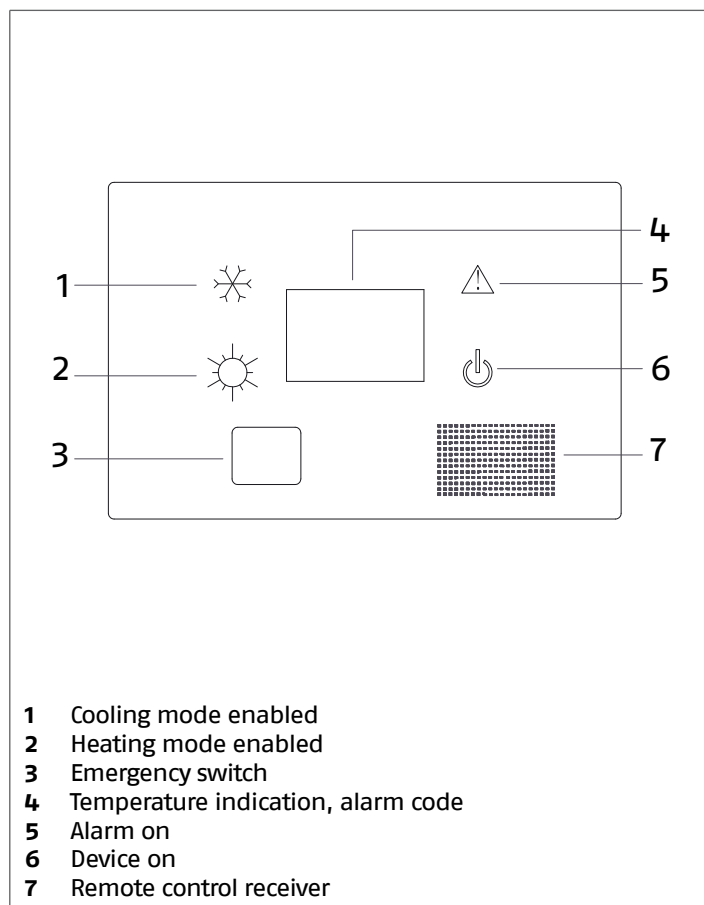
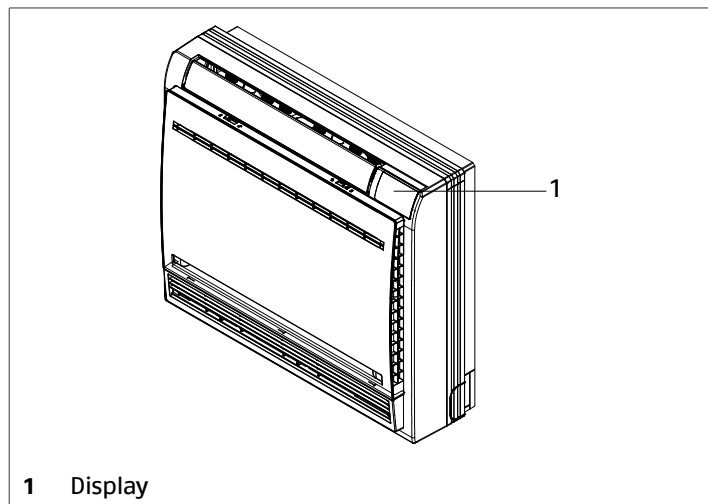
In the presence of operating abnormalities, the unit is secured and blocked.

⚠ Safety block can occur randomly.

⚠ Wait for at least 10 minutes before restarting the unit.

⚠ If the fault occurs again, an accurate check of the device components is required. Contact **RIELLO** Technical Support Service.

Faults are identified by a code on the control display and by LED 1 blinking on main board.



Indoor unit faults

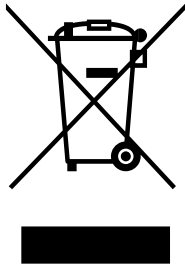
LED1	Display	Description	Remarks
1	E1	Room probe fault	The unit resets after problem resolution
2	E2	Exchanger probe fault	
4	E4	Microprocessor malfunction	
7	E7	Communication error between indoor unit and outdoor unit	
8	E8	Communication error between unit and control panel	
12	E10	Malfunction condensation drain system	
13	C1	Zero cross signal detected wrong	
14	E14	Fan motor malfunction	

Outdoor unit faults

⚠ Refer to the matching outdoor unit instruction booklet for the installer.

4 DISPOSAL

Packaging materials shall be disposed of separately so as to recover and recycle them. At the end of its service life, the device shall be disposed of according to the existing legislation.



RIELLO

RIELLO S.p.A. - 37045 Legnago (VR)
tel. +39 0442 630111 - fax +39 0442 630371
www.riello.it

As the manufacturer is constantly improving its products, the aesthetic or dimensional features, the technical data, the equipment and accessories indicated could be subject to variations.