



EN INSTALLATION AND TECHNICAL SERVICE INSTRUCTIONS



Dear Technician,

We would like to congratulate you on having recommended a **RIELO** 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 AMK 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

CE

WARRANTY

RIELLO product has a **Conventional Warranty** (valid for Italy, Republic of San Marino, Vatican City), starting from the product's date of purchase.

\Lambda WARNING

Keep the product purchase documents for tax purposes to be presented to the Authorised Technical Support upon request of a service call under warranty.

Find the nearest Authorised Technical Support by visiting the website

www.riello.it Support // Authorized Support Centre

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.

RANGE

Model	Code
AMK 25 P	20151428
AMK 35 P	20151429
AMK 50 P	20151430
AMK 70 P	20151432
4 ways panel for AMK 70 P	20151433
4 ways panel for AMK 25-35-50 P	20151431

ACCESSORIES

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

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4	DISPOSAL

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 tech- nical service instructions.
Before performing maintenance and service tasks, read the installation and technical service instruc- tions.
Before the installation, read the installation and technical service instructions.
The following symbols are used in this publication:
WARNING = actions requiring special care and appropri- ate training.
DO NOT = actions that MUST ON NO ACCOUNT be carried out.

This Booklet cod. Doc-0090218 rev. 0 (06/2018) consists of 28 pag-

es.

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 **RIELIO** 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" *p. 9*.
- The product must be used for its intended purpose, as stated by **RIELIO** for which it has been expressly manufactured. **RIELIO** 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. **RIELO** 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 **RIELO** 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

RIELIO AMK P is an indoor unit for ceiling installation, suitable for use in residential and light commercial 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 **RIELIO AMK P** among the most efficient devices on the market.

1.4 Safety and adjustment devices

The device safety and setting are achieved thanks to:

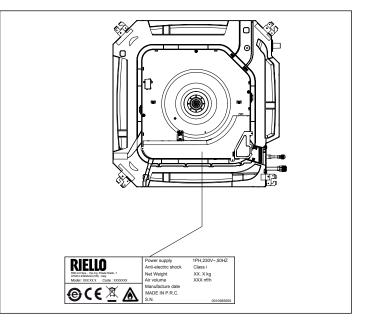
- heat exchanger temperature sensor transmitting the detected value to the control panel, which is trigged in case of abnormal temperature with regard to the operating mode
- room air temperature sensor transmitting the detected value to the control panel in order to control the operation of the outdoor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

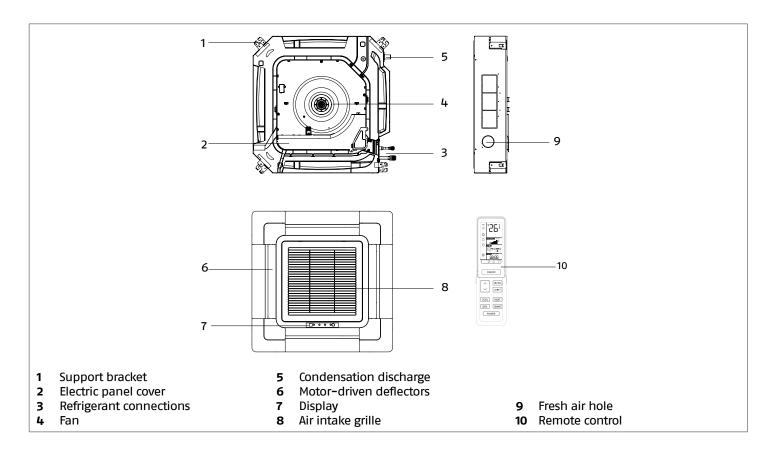


Technical data plate

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

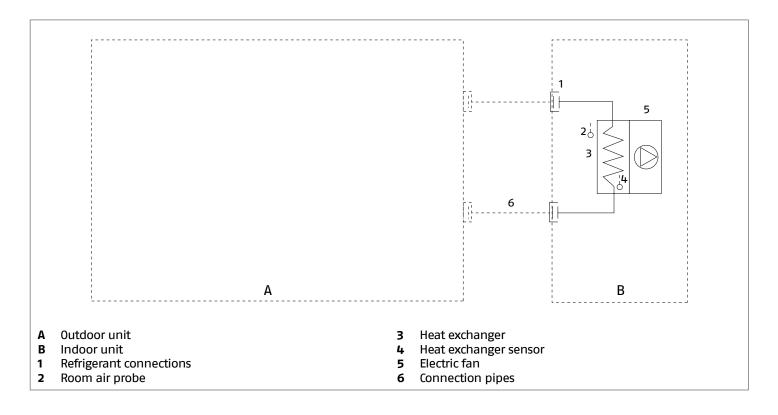


1.7 Technical specifications

Model	25	35	50	70	
Electrical characteristics		Į	I		_!
Power supply		230/	1/50	•	V/Ph/Hz
Fan			••••	•	
Quantity	1	1	1	1	no.
Nominal power input	0,03	0,04	0,04	0,05	kW
Nominal current consumption	0,14	0,15	0,17	0,22	A
Maximum air flow	510	620	700	1260	m³/h
Medium air flow	450	520	620	1070	m³/h
Minimum air flow	390	420	500	820	m³/h
Superminimum air flow	330	350	450	680	m³/h
Maximum speed	600	700	800	650	rpm
Medium speed	550	600	700	600	rpm
Minimum speed	500	550	600	550	rpm
Super minimum speed	450	500	550	500	rpm
Cooling sound levels					
Superminimum sound pressure	23	28	32	26	dB(A)
Minimum sound pressure	25	32	35	29	dB(A)
Medium sound pressure	28	35	37	33	dB(A)
Maximum sound pressure	31	37	42	36	dB(A)
Maximum sound power	48	52	55	55	dB(A)
Heating sound levels					
Superminimum sound pressure	24	29	33	27	dB(A)
Minimum sound pressure	26	29 33	36	30	dB(A)
Medium sound pressure	29	36	38	34	dB(A)
Maximum sound pressure	32	38	43	38	dB(A)
Maximum sound power	49	53	56	56	dB(A)

Performance data are indicated in the matching outdoor unit manual.

1.8 Cooling circuit



2 INSTALLATION

- 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.
- 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.
- Use an electronic leak finder properly calibrated for the system refrigerant.
- igodot It is forbidden to use leak finders with halogen lamps.
- 2.1 Receiving the product

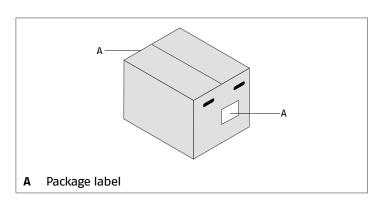
RIELIO AMK P is supplied in a single package, protected by a cardboard packaging, polystyrene elements and a polyethylene film. The following items can be found inside the packaging: Document envelope:

- 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 AAA batteries
 - support for remote control
 - no. 2 screws for remote control support
 - 4 screws
 - flare nut for liquid pipe
 - flare nut for gas pipe
 - insulating material
 - clamps
 - hose clamp
 - condensate discharge pipe

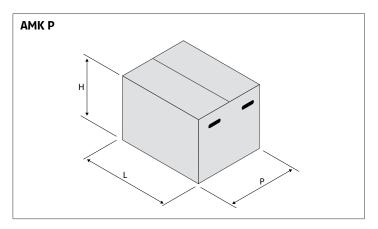
The Instruction book comes with the equipment and it should be taken, read and kept carefully.

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.

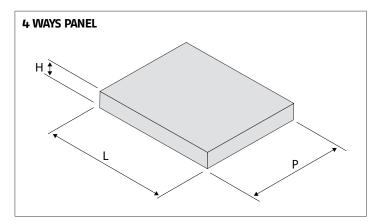
2.2 Labels positioning



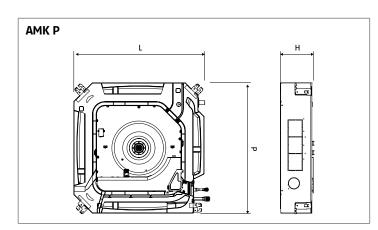
2.3 Dimensions and weight



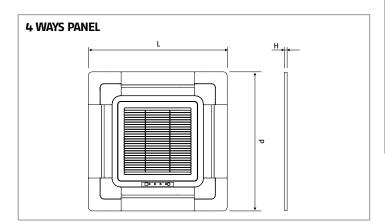
Model	25	35	50	70				
Packaging dimensions								
Н	353	353	353	275	mm			
L	705	705	705	970	mm			
Р	667	667	667	970	mm			
Weight	22,0	22,0	22,0	32,0	kg			



Model	25-35-50	70					
Packaging dimensions							
L	740	1000	mm				
Р	750	1000	mm				
Н	115	110	mm				
Weight	4,8	9,0	kg				



Model	25	35	50	70			
Product dimensions							
Н	260	260	260	204	mm		
L	570	570	570	840	mm		
Р	570	570	570	840	mm		
Weight	18,5	18,5	18,5	27,0	kg		



Model	25-35-50	70					
Product dimensions							
L	700	950	mm				
Р	700	950	mm				
Н	60	50	mm				
Weight	2,8	6,5	kg				

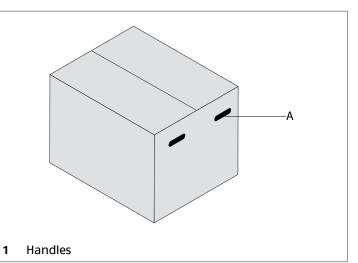
2.4 Storage

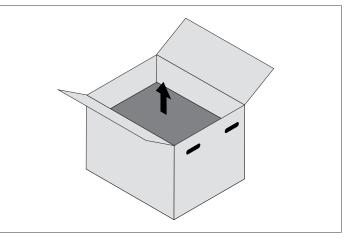
The product must be stored of according to the regulations in force.

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.

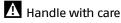
The product can be handled manually.





Follow the below instructions for packing removal and product handling:

- transport the equipment in the installation place
- open the cardboard packaging
- remove the document envelope
- take out the device by lifting it up
- remove the polystyrene elements
- remove the polyethylene bag
- In manual operation it is compulsory to respect always the maximum weight per person provided for by the national laws and standards.



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 **RIELIO** AMK **P** devices must be determined by the system's designer or by another competent person, and must

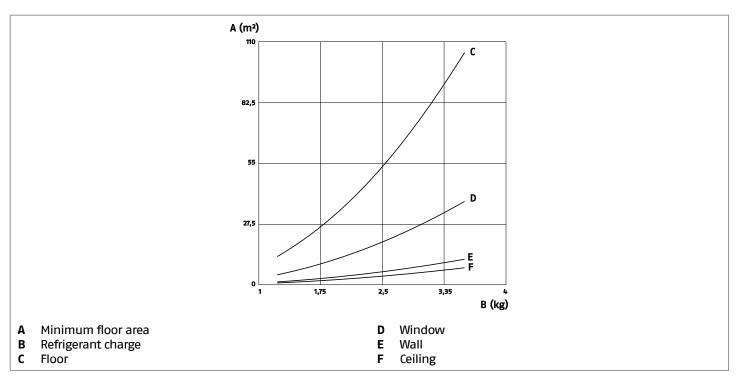
take into account the technical requirements, as well as any current local regulations.

RIELLO AMK P is designed for indoor on false-ceilin 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
- The R32 refrigerant gas is slightly inflammable and odourless. Carefully read the safety data sheet available from the dealer.
- 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 appicable, 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 indoor unit (m²)

Gas charge	Indoor unit installation							
kg	Floor	Window	Wall	Ceiling				
1,10		No roquiro	monto	·				
1,224		No require	ments					
1,225	12,88	4,64	1,43	0,96				
1,30	14,50	5,22	1,61	1,08				
1,90	30,98	11,15	3,44	2,30				
2,00	34,32	12,36	3,81	2,55				
2,30	45,39	16,34	5,04	3,38				
2,60	58,00	20,88	6,44	4,31				
3,00	77,22	27,80	8,58	5,74				
3,50	105,11	37,84	11,68	7,82				



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

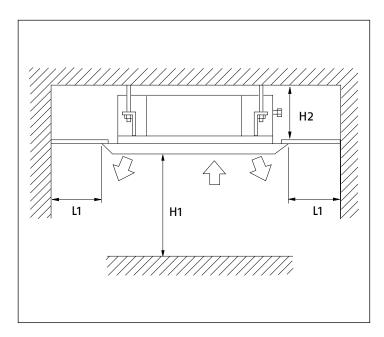
Avoid:

- 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.
- A detachable section cut into the suspended ceiling is reguired in order to access the unit.

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.



Model	25	35	50	70			
Spacing distance							
[1]		mm					
H1	2300						
H2		320	••••••	257	mm		

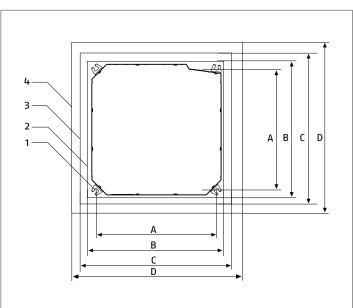
2.8 Installation on old systems or systems in need of upgrading

When **RIELLO AMK 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 AMK P units are supplied with a paper template for installation:



- 1 Fastening slots
- 2 Equipment overall dimensions
- 3 Hole in false ceiling
- 4 4 ways panel overall dimensions

Model	25	35	50	70		
Template dimensions						
Α		535		765	mm	
В	570			840	mm	
C	650			890	mm	
D		700		950	mm	

Hole in false ceiling:

- use the paper template provided for the installation
- make an opening in the false ceiling that allows insertionand links

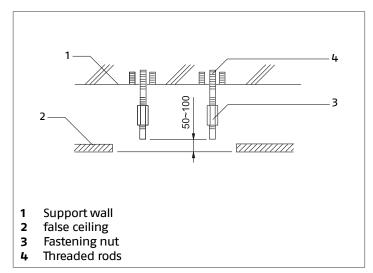
The opening must be made near suitable structures to support the overall weight of the appliance and accessories.

Leak test:

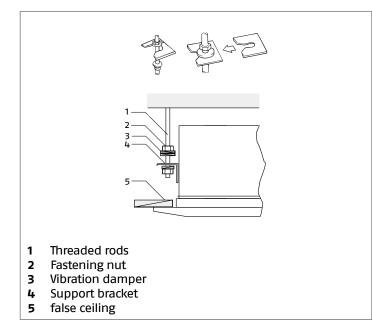
The unit is supplied as pre-charged with nitrogen.

- 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.
- A Contact **RIELLO** Technical Support Service.

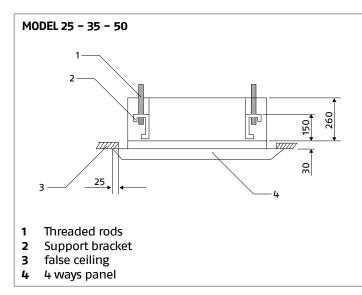
Ceiling mounting:

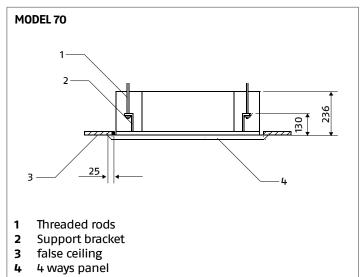


- use the paper template provided for the installation
- position the support rods and fix them properly to the bearing structures

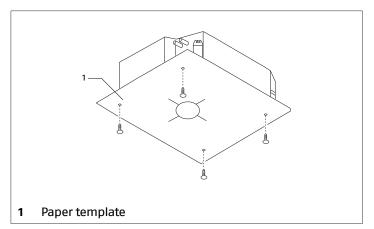


- place the nuts on the threaded bars
- hook the unit to the threaded bars





- regulate the height of installation of the unit
- center the unit over the opening
- regulate the unit's position so as to create a slope towards the condensation drainage
- tighten the fastening nut



 $oldsymbol{\Lambda}$ If the false-ceiling is done after the installation of the device position the installation template on the unit, using the screws provided, for the reference of the dimensions of the opening to achieve.



Seal the nuts with some liquid thread lock.

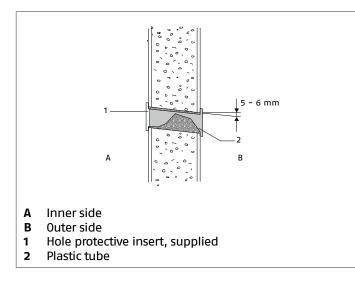


 $oldsymbol{\Lambda}$ The support rods must be attached to structures able to support the weight of the unit.



 $oldsymbol{\Lambda}$ The incorrect positioning of the device can cause water leakage.

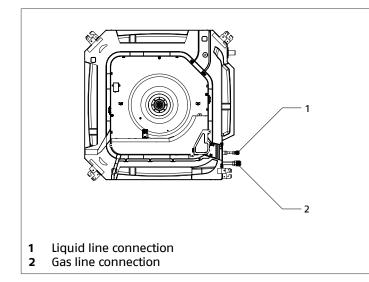
Drilling into the wall:



- 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" p. 12 for the position of the hole.

Refrigerating connection 2.10

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



Model	25	35	50	70				
Connections								
Liquid line connection		1/4″		3/8″	Inches			
Gas line connection	3/8″	3/8	1/2″	5/8″	Inches			
Liquid line connection	6,35			9,52	mm			
Gas line connection	9,52 12,70			15,88	mm			

- A 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.



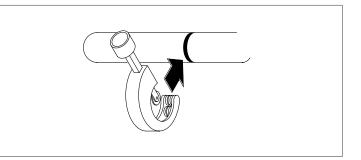
⚠️ Use copper pipes for cooling systems.

position the connecting pipes

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

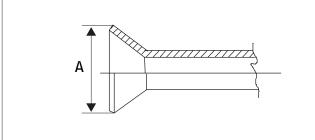
Connections

- 0K 0K
- A Before threading the lines through the hole in the wall, close the lines ends.

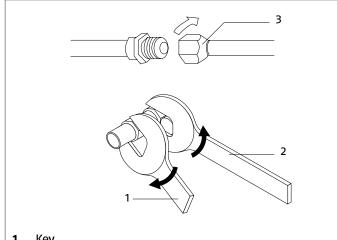


 [—] cut the pipe end square using a pipe cutter

- 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

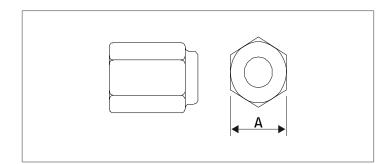


Pipe Ø		Α
mm	inches	mm
6,35	1/4	9,1
9,52	3/8	13,2
12,70	1/2	16,6
15,88	5/8	19,7



- 1 Key
- Torque wrench 2
- 3 Flare nut

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

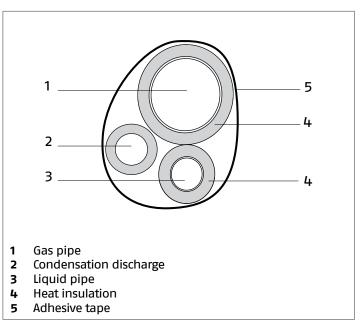


Pipe Ø		Α
mm	inches	mm
6,35	1/4	17
9,52	3/8	22
12,70	1/2	26
15,88	5/8	29

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

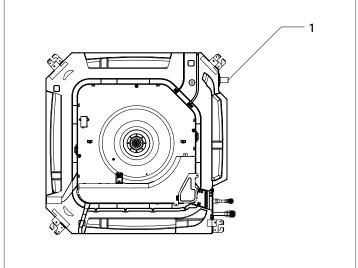
For gas pipes:

- 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

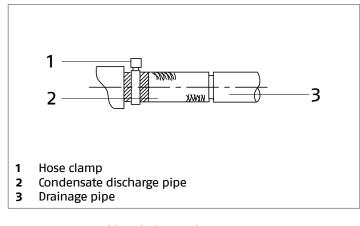
RIELLO AMK P is equipped with condensate drain pan which is produced during cooling operation and which must be conveyed to a place suitable for drain

The unit is equipped with a drain pump.

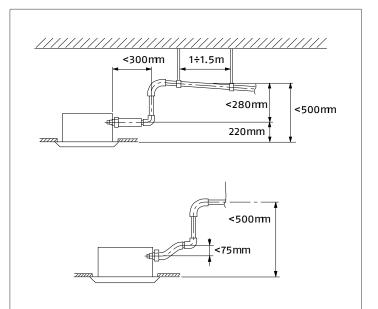


1 Condensate discharge attachment

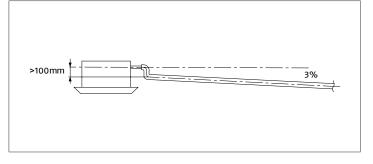
Model	25	35	50	70	
Connections					
Condensate discharge attachment Ø	PVC 27/31 mr		mm		



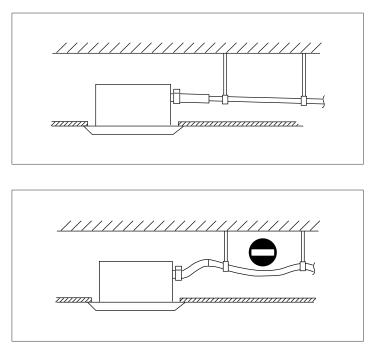
- connect a rubber drainage pipe



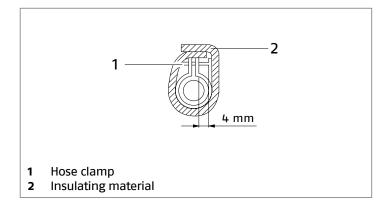
- direct it toward a suitable place for discharge



— keep a slope of 3%



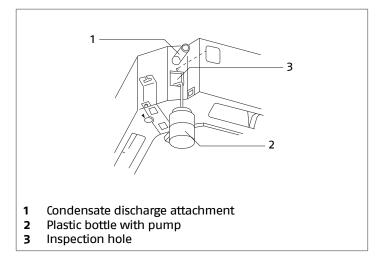
- support the drain pipe properly



- 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.

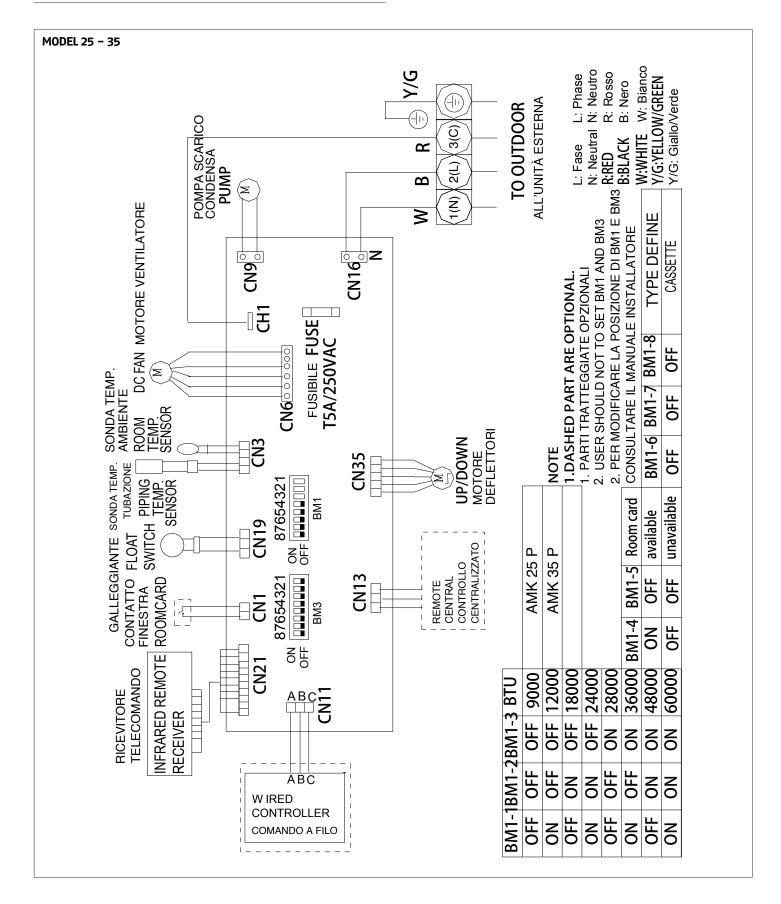
Drainage check:

• After electrical connection:

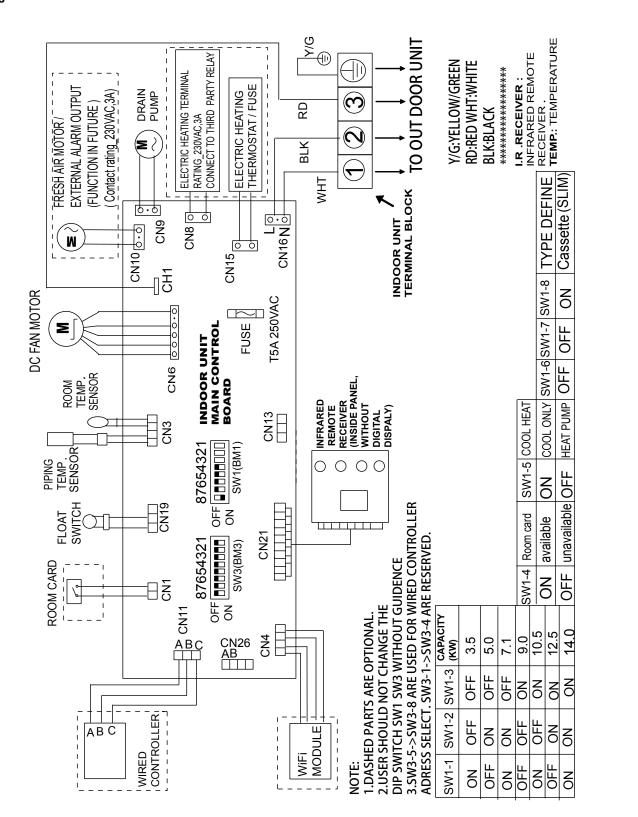


- charge 1,2 liters of water trough the inspection hole
- turn on the unit in cooling mode
- check that it flows out correctly through the drainage pipe

2.12 Wiring diagram

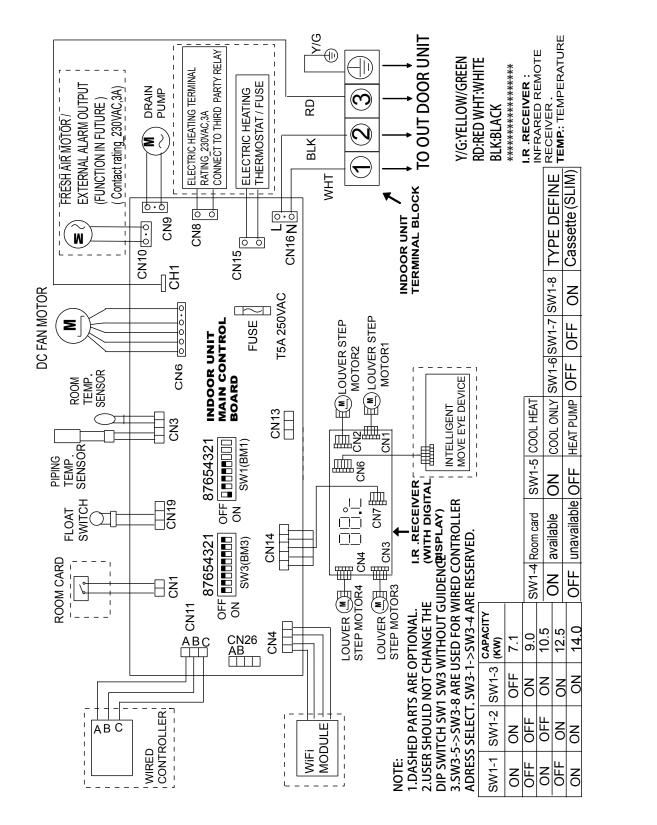






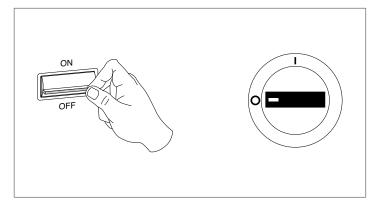
INSTALLATION



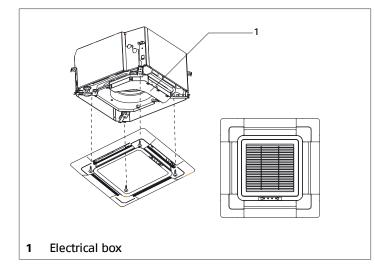


2.13 Electrical connection

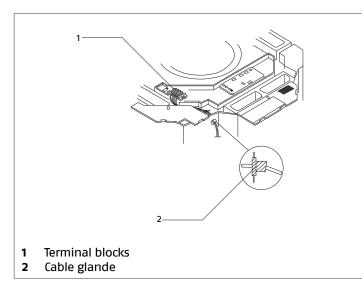
AMK P it leaves the factory completely wired, and only requires a connection to the outdoor unit.



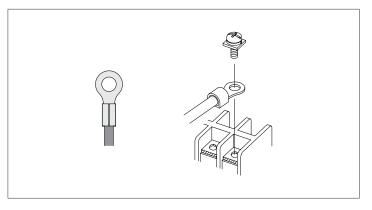
position the system's main switch in the "OFF" position.
 To access the terminal board:



- unscrew the fastening screws
- remove 4 ways panel
- unscrew the fastening screw
- 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 50 70				
Electrical characte	ristics				
Power supply		230/	1/50		V/Ph/ Hz
Signal cable	4 x 2,5		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.

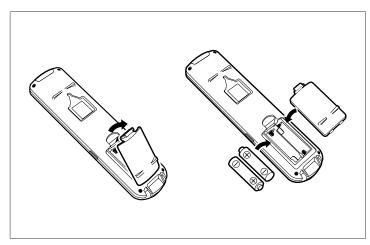
2.14 Remote control

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 out-door units.

Battery insertion

The remote control is powered by two 1.5V AAA batteries that must be inserted into its rear side and protected by a cover. To insert the batteries:

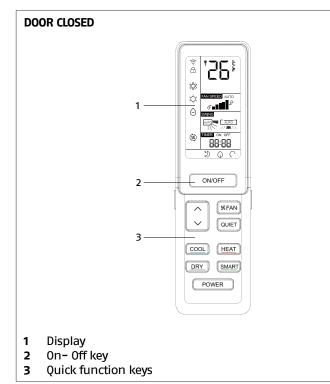


- remove the cover by pressing it down and lifting it up
- insert the batteries respecting the polarities
- put the cover back in place

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

Function keys

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



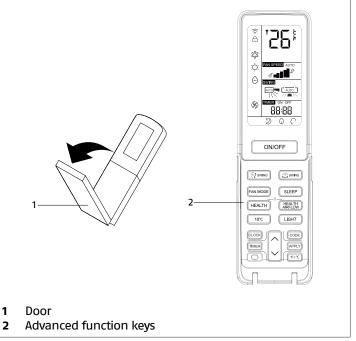
When the door is closed, you can activate the quick functions, such as choosing the operating mode and setting the desired temperature.

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

Function keys with door closed

- ON/OFF It switches the device on and off
- It increases or decreases the selected parameter
 value
- Select required ventilation speed: minimum, medium, maximum or automatic
- QUIET It activates the Ouiet mode
- [COOL] It activates the Cooling mode
- [HEAT] It activates the Heating mode
- DRY It activates the Dehumidification mode
- **SMART** It activates the Smart mode.
- POWER It enables the Maximum Power function

DOOR OPEN



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

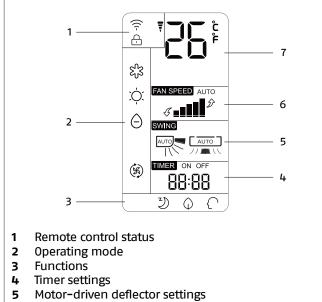
(SVIIVG	It activates and deactivates the automatic movement of the horizontal deflector or stops it in a specific position
	It activates and deactivates the automatic movement of the vertical deflector or stops it in a specific position (not available on AMW ST)
FAN MODE	It selects the Ventilation operating mode
SLEEP	It activates the Sleep function
HEALTH	Function not available
HEALTH	It enables the Health Air Flow function
HEALTH + HEALTH AIRFLOW	If pressed at the same time, they lock and unlock the remote control keys

10°C	It activates the Room Anti-Freeze function (not available on AMW ST)
LIGHT	Switch on or off the unit display
CLOCK	It gives access to current time change settings
TIMER	It gives access to Timer settings
\sim	It increases or decreases the selected parameter value
CODE	It allows to change the remote control transmission channel A – b with the unit
APPLY	It confirms settings
(°۶ / °C	It switches the temperature scale from Celsius to Fahrenheit and vice versa

Remote control display

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

The display is divided into uniform areas according to function type.



- 6 Fan settings
- 7 Climatic settings

Remote control status

Ŧ	Signal transmission upon pressing the keys
---	--

🔶 WiFi connection enabled

Remote control keys locked

Operating mode

- දායි Cooling mode enabled
- O. Heating mode enabled
- (-) Dehumidification mode enabled
- (K) Ventilation mode enabled

Functions

- Sleep function enabled
- () Not available
- Smart mode enabled

Timer settings

88:88	Timer setting value or current time display
ON	Switch on timer enabled
OFF	Switch off timer enabled

Motor-driven deflector settings

AUTO	
AUTO	Horizontal deflector position

AUTO	Vertical deflector position (not available on AMW
77	ST)

AUTO Deflector automatic operation

Fan settings

AUTO Automatic speed enabled

Climatic settings

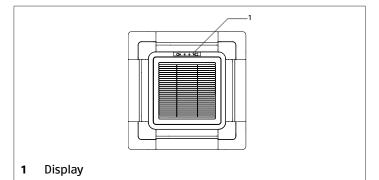


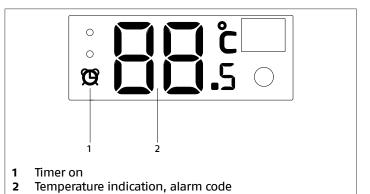
- 1. Detected ambient temperature
- 2. Required temperature when using the button

\sim

2.15 Unit display

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





21

3 COMMISSIONING AND MAINTENANCE

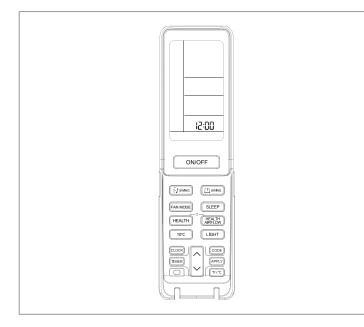
3.1 Preparation for first commissioning

Prior to commissioning, it is necessary to check that:

- 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

Time setting

The current time must be set before using the remote control:



- open the door
- press

The time indication starts to blink.

- work 🗳
- select the current time

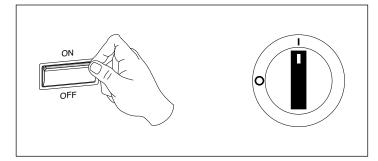
Each time the key is pressed, the values changes by 1. By keeping the key pressed down, the value changes faster.

— confirm with APPLY

The time indication stops blinking.

3.2 Putting into service

After having completed all the operations required to prepare for first commissioning, do the following to activate the device:



- position the system's main switch in the "ON" position.
- activate the unit with the remote control $% \left({{{\mathbf{r}}_{\mathrm{s}}}^{\mathrm{T}}} \right)$
- check its operation in the different modes

The compressor activates 3 minutes after unit activation.

A 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" *p.* 19.

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
- A 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%.

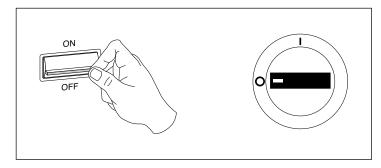
- Avoid using mobile phones.
- 3.3 Temporary shutdown

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.



1 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 housing and front panel

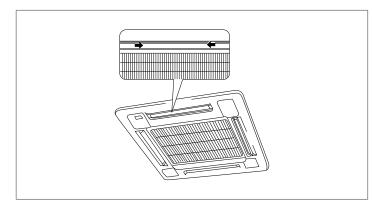
mesh filter cleaning

Cleaning 4 ways panel

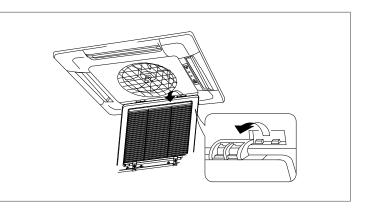
- wet a sponge or soft cloth with water and soap to wash once cleaning is over dry surfaces with care

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

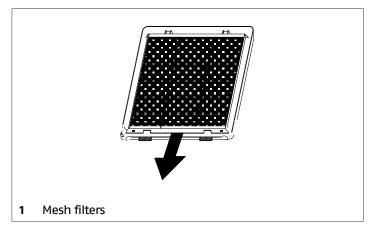
Mesh filter cleaning



open the air intake grill



- unfasten grill
- remove grill



- take out the mesh filter by grabbing the relevant fins remove dust with an vacuum cleaner
- A 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.
- A 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.
- E 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

Extraordinary maintenance 3.6

Removal

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

Proceed as follows to remove the capacitors:

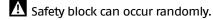
carry out the evaporator emptying operation

 $oldsymbol{\Lambda}$ 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.

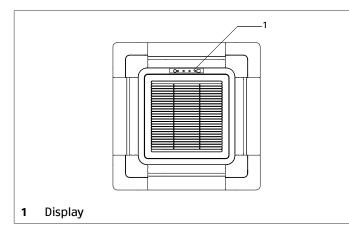


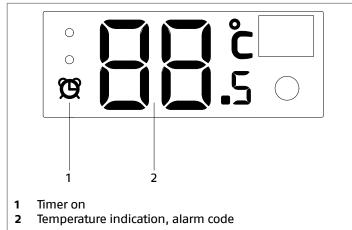


Mait for at least 10 minutes before restarting the unit.

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 unit display.







Indoor unit faults

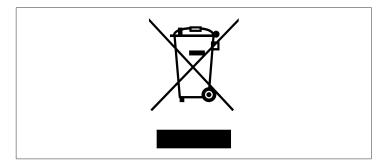
Code	Display	Description	Remarks
01	01.5°C	Room probe fault	
02	02.5°C	Exchanger probe fault	
04	04.5°C	Microprocessor malfunction	
07	07.5°C	Communication error between indoor unit and outdoor unit	
12	0C.5°C	Malfunction condensation drain system	The unit resets after problem resolution
13	0D.5°C	Zero cross signal detected wrong	
14	0E.5°C	Fan motor malfunction	
16	10.5°C	Indoor unit operating mode different from outdoor unit	

Outdoor unit faults

A 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.





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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.