



## argoclima CLASS WF Portable Air Conditioner Instruction Manual

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## OPERATING INSTRUCTIONS

Read the instructions carefully before operating the appliance or carrying out maintenance work. Observe all the safety instructions; failure to do so may lead to accidents and/or damage. Store these instructions in a safe place for future reference.

- Appliance is filled with flammable gas R290.



- Before installing the appliance, read the installation manual.



- Before installing and using the appliance, read the owner manual.



- Any repairs you need, contact the nearest authorized Service Centre and strictly follow manufacturer's Service Manual.



## THE REFRIGERANT R290

- To realize the function of the air conditioner unit, a special refrigerant circulates in the system. The refrigerant is R290 = 3 GWP (Global warming potential). This refrigerant is flammable and inodorous. It can lead to explosions under certain conditions, however the flammability of this refrigerant is very low and it can be ignited only by fire.
- Compared to other common refrigerants, R290 is a non-polluting refrigerant with no harm to the ozonosphere and a no effect upon the greenhouse effect. R290 has very good thermodynamic features which lead to a really high energy efficiency. The units therefore need less filling.

### Warning:

Do not try to accelerate the defrosting process or to clean the appliance in different ways other than those

recommended by the manufacturer.

Should repair be necessary, contact your nearest authorized Service Centre.

Any repairs carried out by unqualified personnel may be dangerous.

The appliance has to be stored in a room that doesn't have any continuously operating ignition sources. (for example:

open flames, an operating gas appliance or an operating electric heater.)

Do not pierce or burn.

Appliance has to be installed, used and stored in a room with a floor area larger than 15 m<sup>2</sup>.

Attention, the refrigerant gases have no smell.



## GENERAL OPERATING AND SAFETY INSTRUCTIONS

- This appliance is a local air conditioner designed for domestic use.
- Only use this air-conditioner as described in this manual.
- Ensure that the required voltage and frequency (220-240V~50Hz) match the available power source.
- Fuse style T, 250V AC, the electricity passing through the fuse cannot be above 3.15A.
- This appliance can be used by children aged from 8 years and above and people with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
- Children shall not play with the appliance.
- Cleaning and user maintenance shall not be made by children without supervision.
- Ensure that the electricity system is able to deliver the operating current required by the air conditioner, in addition to that normally absorbed by other appliances (household appliances, lighting system, etc.). Please refer to the maximum power input data indicated on the air conditioner's data plate.
- Connection to the electricity grid must take place in accordance with current installation standards.
- Ensure that the automatic switches and system protection valves are able to withstand a start-up current of 6A (normally for less than 1 second).
- The system socket must always be fitted with an efficient earth connection.
- Make sure that the plug is fully inserted. Do not use multiple adapters.  
Do not touch the plug with wet hands. Make sure that the plug is clean.
- Do not use the plug as a means by which to start/stop the air conditioner: use the POWER button on the remote control or on the control panel.
- Do not install the air conditioner in rooms where it may receive water splashes (e.g. laundry rooms).
- This air conditioner can be used by children of 8 years of age or older, and by persons with reduced physical, sensory and mental abilities or who lack the necessary know-how and experience to operate it, if under the supervision or instruction of a person responsible for their safety, so that they are fully aware of the attendant risks.
- Before moving or cleaning the device, ensure that it is unplugged from the socket.
- Do not move the air conditioner while it is operating; first turn the appliance off, check for any condensate build-up and empty it if necessary.
- To turn the appliance off, set the remote control to OFF and remove the plug from the socket. Pull on the plug only. Do not pull the cord.
- **Do not use the appliance if the cord or plug are damaged.** If the power supply cord is damaged, it must be replaced by the manufacturer, dealer or a similarly qualified person so as to avoid any safety risks.

- Keep the unit away from fire, possible fire sources, inflammable or explosive objects.
- Do not leave the unit unattended while it's operating, turn the unit off and unplug it.
- If drainage hose is used, the ambient temperature mustn't be lower than 0 °C. It can cause water leakage to the air conditioner.
- Do not splash or pour water on the air conditioner

### **PRECAUTION!**

- Do not insert any objects into the air conditioner: this is very dangerous as the fan turns at high speed.
- Ensure that air circulates freely around the unit. Do not cover the air intake and delivery grilles with drapes or any other means.

### **WARNING!**

- **The air conditioner must be positioned at least 50 cm from the wall or any other obstacles, on a flat and stable surface so as to avoid water leaks.**
- **The air conditioner is fitted with a system for protecting the compressor from overload. This means that the compressor only starts 3 minutes after its previous stoppage.**
- **Please wait at least 3 minutes before starting the unit. This helps prevent the compressor from being damaged.**

### **WARNING!**

**In the event of an anomaly, switch the appliance off and unplug it from the socket. Do not dismantle or attempt to repair or modify the product.**

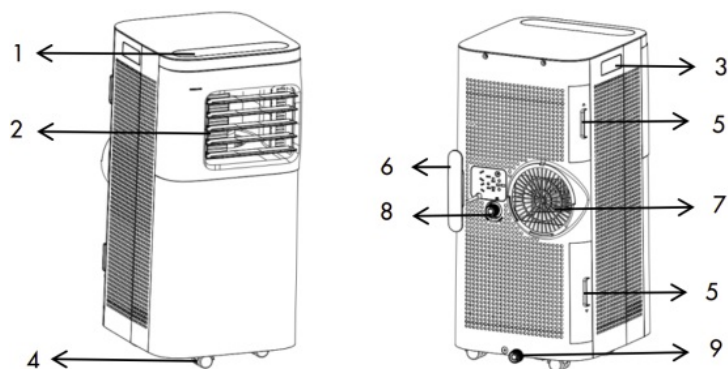
In the event of a malfunction, contact the service centre directly.

### **WARNING!**

- Do not expose the air conditioner to direct sunlight, as the colour of the materials may change; moreover, the appliance may overheat causing the protection mechanism to intervene and switch the appliance off.
- Do not use insecticides, oils, detergents or spray paints near the appliance; do not use aggressive chemical detergents to clean the casing: this may damage the finish and colour.
- Close all open windows to maximize air conditioning efficiency.

The manufacturer will not be held liable if safety and accident prevention rules are not observed.

## **DESCRIPTION OF THE APPLIANCE**



1. Control panel 2. Vertical air louver
2. Handle
3. Wheel
4. Side air filters
5. Cable reel
6. Connection of exhaust hose
7. Hole for condensate drainage (in dehumidification mode)
8. Hole for continuous condensate drainage (in cooling mode)

**Min/max operating limits:** internal temperature

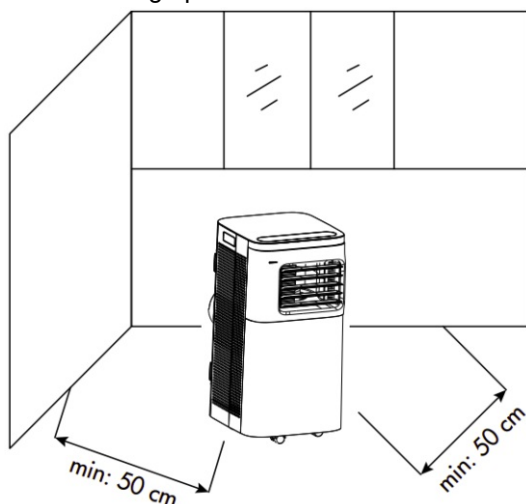
**Cooling:** 5°C D.B./35°C D.B.

**Dehumidification:** 5°C D.B./35°C D.B.

**Room temperature adjustment range:** 16°C D.B./32°C D.B.

## PRE-OPERATING CHECKS AND OPERATION

The following space must be maintained to ensure the operating efficiency of the portable air conditioner.



## APPLIANCE START-UP

Open the packaging and pull out the box. Remove the product and the other elements supplied (illustrated in the box below).

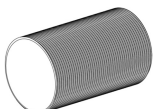
- Remote controller



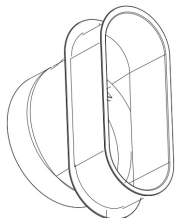
- Fitting to apply on the unit to which connect the exhaust pipe of the air



- Hose of expulsion of the air



- Terminal flat fitting to be placed between window knockers



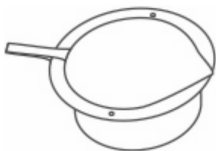
- Condensate drainage pipe to be used to empty the internal tank



- Circular fitting for kit porthole to be positioned between the final part of the tube and the porthole

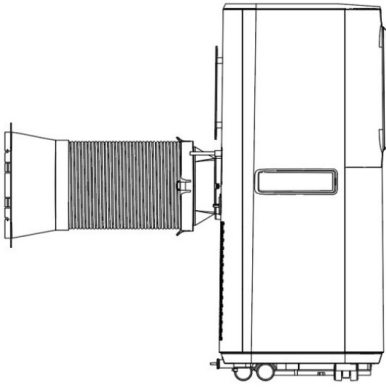


- Porthole kit with cap

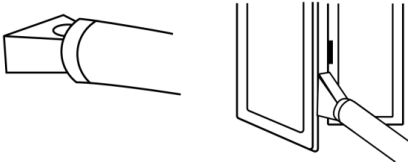


## USE WITH END FITTING FOR WINDOW

1. Stretch the flexible hose sufficiently so that it reaches the outside (max 1.5 m) and hook it to the rear part of the air conditioner (**Fig.1**).

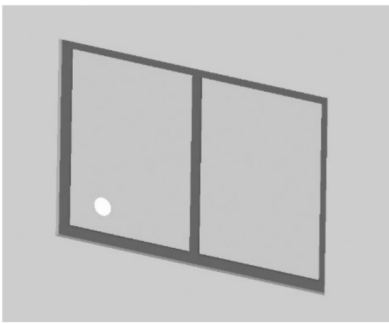


2. Open the window and lock one of the two leaves with the handle. Rest the terminal connection on the fixed leaf, bring the other leaf of the window close (**Fig.2**)

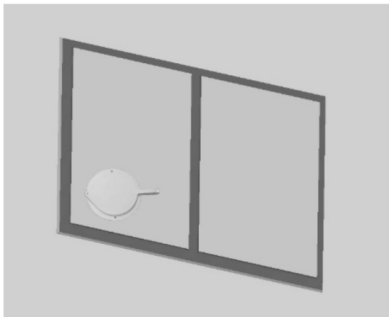


### USE WITH WINDOW UNIT KIT

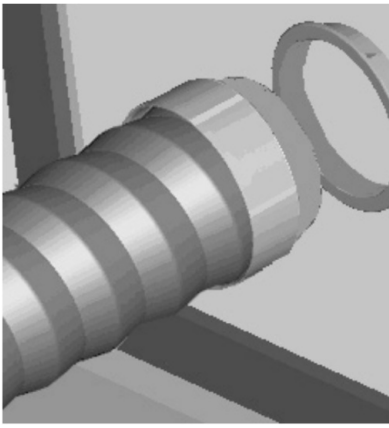
1. To make the hole in the glass, it is also advisable to take the porthole kit accessory to the glazier (**Fig. 1**).



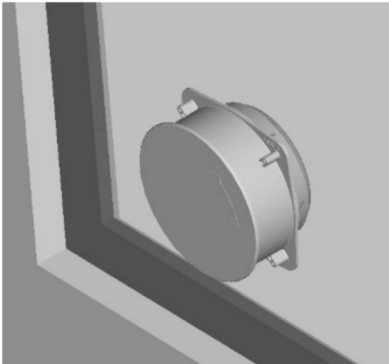
2. Insert the porthole into the window (**Fig. 2**).



3. Insert the circular connector for the porthole kit into the retractable hose and insert the retractable hose with the circular connector into the porthole without the cap (**Fig. 3**).



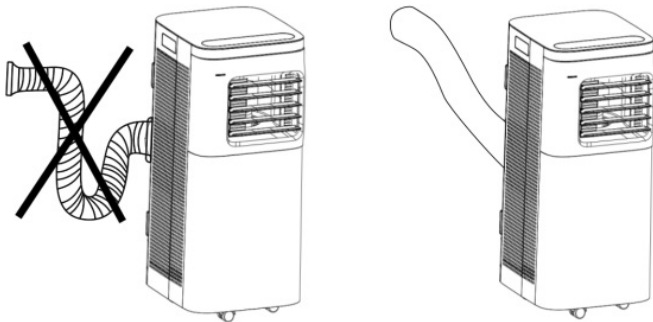
4. When not in use, disconnect the hose and close the porthole with the cap (**Fig. 4**).



Avoid tight bends or folds in the hose.

The hose, once fully extended, must be placed at a height higher than the hose attachment on the machine, approximately between 40 and 160 cm to ensure the correct height that does not compromise the performance of the air conditioner.

If the air conditioner is not used for prolonged periods, disconnect the pipe and plug the window unit.



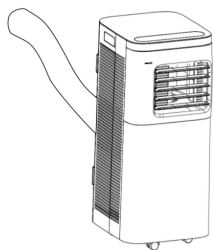
## HOW TO USE THE APPLIANCE

This appliance can be used for Cooling, Dehumidification and Ventilation. Before using the appliance, leave it in an upright position for at least two hours.

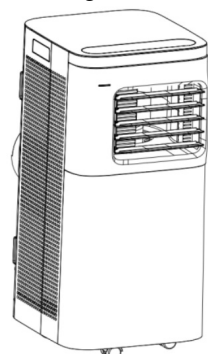
Plug the power cord into an appropriate power outlet (220-240~V). Insert the batteries into the remote controller, observing the polarities. Select the desired operating mode from the remote controller.

The air conditioner is equipped with a protection system which causes the unit to activate in Cooling and Dehumidification mode only after an interval of approximately 3 minutes from the selection. Even when passing from one mode to another, the fan continues to operate, but the compressor stops to restart after 3 minutes. This start delay protects the compressor from overload.





Cooling, Fan




Dehumidifying


**THE DRAINAGE TUBE MUST BE CONNECTED to the appliance AT ALL TIMES:** the only exception is when the appliance is used in dehumidification mode only, in which case the appliance should be left to discharge directly into the room for maximum efficiency (see the “Dehumidification Mode” paragraph). Periodically clean the easily removable air filters located on the side of the product to keep the air conditioning efficient.

## OPERATING MODES

### 1. COOLING MODE (COOL)

- Press the MODE button to select Cooling. The LED  on the control panel lights up.
- The temperature adjustment range goes from 16 °C to 32 °C with 1 °C steps.
- In this mode, every time the unit is switched off by pressing the POWER button the appliance stores the set temperature and when it is switched on again it will keep the setting.
- In cooling mode, the fan speed is low by default.
- In this mode it is possible to adjust the ventilation speed (Speed), set the Timer and activate the Sleep function.
- For quieter operation, reduce speed to low.
- The unit is equipped with a system that automatically adjusts the ventilation speed based on the temperature detected in the room. To select the desired ventilation speed, press the Speed button; the corresponding LEDs light up based on the selection made.

### 2. DEHUMIDIFICATION MODE (DRY)

- Press the MODE button to select the Dehumidification mode. The LED  on the control panel lights up.
- The temperature is controlled by the electronic board and cannot be adjusted.
- In this mode, each time the POWER button is pressed the unit switches off, the appliance saves the settings and retains them when it is switched on again.
- The humidity % adjustment range is 35-80%, in dehumidification mode it's not possible to adjust the temperature.
- The fan speed can be adjusted.

**NOTE:** the air conditioner does not cool the room when operating as a dehumidifier. When the appliance

is

used as a dehumidifier, the flexible pipe must not be connected. **For maximum dehumidification efficiency, leave the rear discharge attachment free to discharge directly into the environment.**

The dehumidification mode is recommended during autumn and winter. **If used during summer, it is best to leave the flexible pipe attached so that the hot air is discharged towards the outside rather than into the room.** During dehumidification, continuous drainage should be implemented (see the next chapter, "HOW TO ELIMINATE CONDENSATE").


### 3. FAN MODE (FAN)

- Press the MODE button to select Ventilation until the corresponding icon appears.
- In this mode, the fan speed can be adjusted.
- The temperature cannot be adjusted

## HOW TO ELIMINATE CONDENSATE

This appliance automatically vaporizes the condensate in cooling mode. When the air conditioner works in Cooling mode, it is not necessary to have continuous drainage of the condensate; only in particular climatic conditions in which the humidity rate in the air is very high can water deposit inside the unit.

When the internal tank is full, the air conditioner goes into stand-by mode within approximately 5 seconds and

emits 5 beeps. The display will show the message "**P1**", while the icon  lights up on the control panel, signaling that filling has been completed.

The buttons on the control panel are not active and the appliance stops working.

The operation LED ring located on the front of the unit lights up red.

To restore the unit, empty the tank.

### Cooling

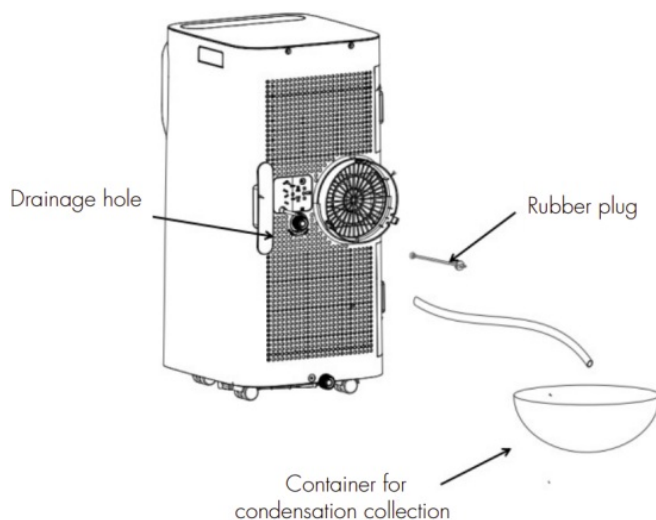
Make sure that, when the unit works in cooling mode, the rubber closure plug that closes the drain hole located at the bottom on the back is correctly positioned.

To empty the tank, turn off the air conditioner and unplug it. Remove the cap from the rear drain hole, connect the small condensate drain tube, which is supplied, and place the other end of the tube above a normal drain.

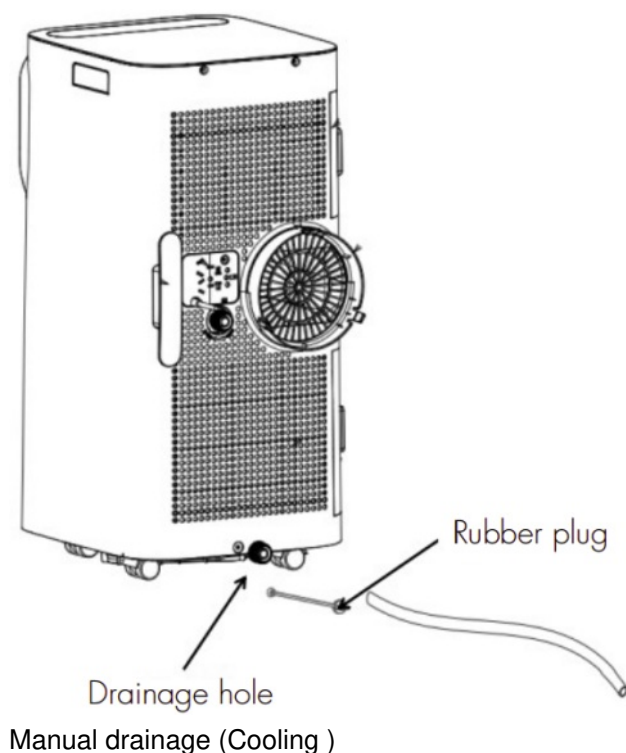
Make sure the hose is free from twists and bends. The pipe must have a descending trend. Close the drain with the cap and resume using the air conditioner.

### Dehumidification

**Warning:** when using the air conditioner in **dehumidification mode, it is advisable** to always set up **continuous drainage** to ensure maximum dehumidification efficiency. Connect one end of the PVC tubing (provided) to the top drain hole and the other end above a drain.



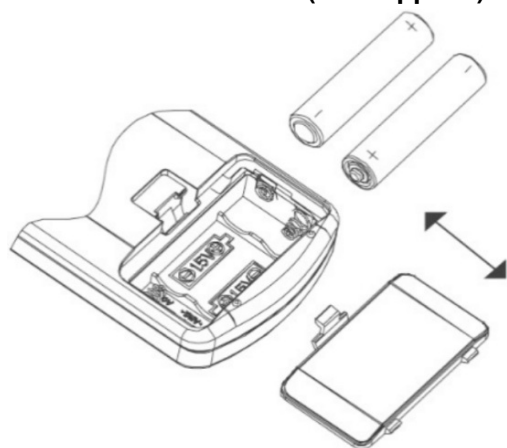
Continuous drainage (Dehumidification)



## FUNCTION CONTROLS

### BY REMOTE CONTROLLER

**How to insert batteries (not supplied) into the remote controller.**



Open the battery door on the back of the remote controller, slide to open the cover following the direction indicated by the arrow.

Place the batteries in the remote controller, taking care to check the correct positioning of the polarities. Put the cover back.

Use alkaline batteries (type AAA, LR03/1,5V), compliant with Battery Directive no. 2006/66/EC and amendments by Directive 56/2013/EU.

Do not use new batteries with dead batteries. If the remote controller is not used for a long time, remove the batteries. Make sure you dispose of batteries properly.

## WARNINGS FOR BATTERIES

- Batteries should not be exposed to heat sources such as fire, sun or similar sources;
- remove the batteries if they start to heat up or you know you will not use the appliance for a long time the batteries must be installed correctly in the battery compartment;
- when removing the batteries because they are at the end of their life or damaged, comply with the national

regulations in force for disposal (shown below);

- In the event of a battery fluid leak, remove all batteries, taking care not to let the leaked fluid come into contact with skin or clothing. If liquid from the battery gets on your skin or clothing, wash the skin with water immediately.

Before inserting new batteries, thoroughly clean the battery compartment with a dry paper towel, or follow the battery manufacturer's recommendations for cleaning. Only use batteries of the same size and type.

**Caution:** Danger of explosion if battery is replaced by a type other than that specified.

Improper use of batteries can cause them to leak, overheat, or explode. This liquid is corrosive and can be toxic.

It can cause skin and eye burns, and is harmful to ingest.

### To reduce the risk of injury:

Keep batteries out of the reach of children.

Do not heat, open, puncture, cut or throw batteries into fire.

Do not mix old and new batteries or batteries of different types. Do not leave metal objects that could come into contact with the battery terminals and therefore could heat up and/or cause burns.

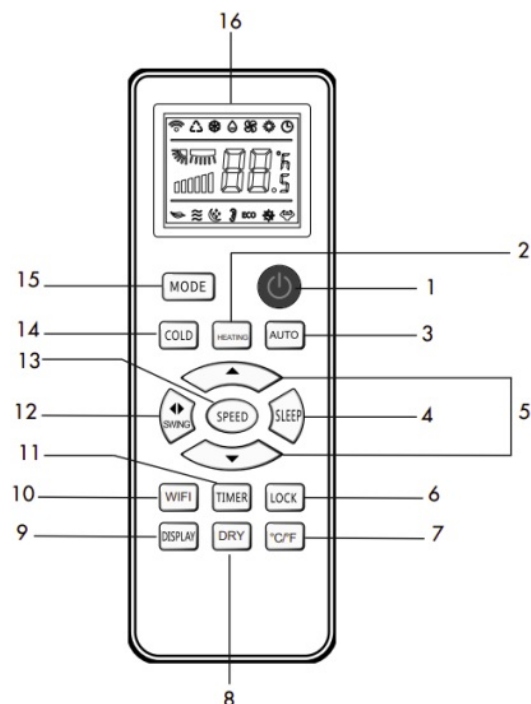


### ■ INFORMATION FOR THE CORRECT DISPOSAL OF BATTERIES IN ACCORDANCE WITH EUROPEAN DIRECTIVE 2006/66/EC and amendments Directive 2013/56/EU

Replace batteries when they are depleted. At the end of their life, batteries must be disposed of separately from unsorted waste. They must be taken to designated recycling centres or returned to a retailer providing this service. Separate disposal of batteries prevents potential negative effects on the environment and human health due to inadequate disposal, and also allows for recovering and recycling their constituent materials, resulting in significant savings in terms of energy and resources. The separate disposal obligation is underlined by the crossed-out dustbin symbol appearing on the battery. Illegal disposal of the product by the user implies administrative sanctions applied as per current regulations.

### FOR OPTIMAL WORKING OF THE REMOTE CONTROLLER, DIRECT THE TRANSMITTER HEAD TOWARDS THE RECEIVER LOCATED ON THE AIR CONDITIONER

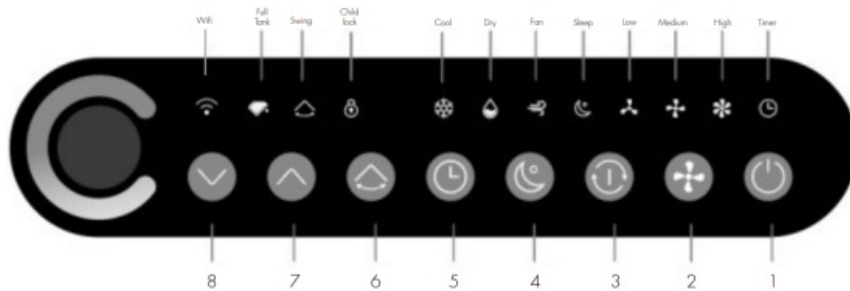
### CONTROL BY REMOTE CONTROLLER



1. POWER button

2. HEATING MODE button (not active)
3. AUTO MODE button
4. SLEEP button
5. UP/DOWN buttons
6. CHILD LOCK button
7. °C/F° DISPLAY TEMPERATURE button
8. DRY button
9. DISPLAY LIGHTING button
10. WIFI button
11. TIMER button
12. SWING button
13. SPEED button
14. COLD MODE button
15. MODE button
16. REMOTE CONTROLLER DISPLAY

### CONTROL BY CONTROL PANEL



1. POWER button
2. SPEED button
3. MODE button
4. SLEEP button
5. TIMER button
6. SWING button
7. UP button
8. DOWN button

### FUNCTION OF THE BUTTONS ON THE REMOTE CONTROLLER AND ON THE CONTROL PANEL (the numbers below refer to the control panel drawing)

When the cable is connected to the power supply, the unit emits three beeps.

Press this button to turn the unit on or off. The unit beeps. All the LEDs of the buttons light up on the control panel, and then turn off after a few seconds, while the LED of the POWER button remains on, but with a reduced intensity of brightness.

When the unit is switched on, the setting temperature is shown, and the unit enters in Cooling mode.

#### 1. POWER BUTTON

Press this button on the control panel or remote controller to turn the unit on or off. The unit beeps.

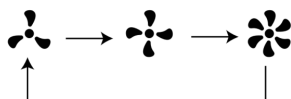
When the unit is switched on, the temperature previously set in Cooling mode (Cool) is shown. Press this

button again to start the appliance operation.

The default settings are: Cooling mode, low fan speed and the display shows the temperature present in the room.

## 2. SPEED BUTTON

Press this button on the control panel to select the desired fan speed from Low, Medium, High, Auto, in the following circular sequence:



The corresponding LEDs light up on the control panel according to your selection.

In Auto mode, the fan speed LEDs all light up at the same time.

The Auto fan speed can be selected only in the Cooling mode.

The Auto speed works by modulating the fan speed based on the temperature set by the user and on that present in the room:

- If the difference between the set temperature and the room temperature is greater than 4°C, the fan speed will be high
- If the difference between the set temperature and the room temperature is greater than 2°C or less than or equal to 4°C, the fan speed will be medium
- If the difference between the set temperature and the room temperature is less than or equal to 2°C, the fan speed will be medium

When the Speed button is selected on the remote control, the fan speed will appear on the remote

controller display as follows: Low (□□) – Medium (□□□□) – High (□□□□□□)

## 3. MODE BUTTON

Press this button on the control panel to select the operating mode among: Cooling (Cool), Dehumidification (Dry), Ventilation (Fan) in the following circular sequence:



The corresponding LEDs on the display light up on the control panel according to the selection made.


On the remote controller, press the Mode button to select the operating mode in the following circular sequence:

Cooling (Cool), Dehumidification (Dry), Ventilation (Fan).

It is also possible to directly select the desired operating mode by pressing the COOL (cooling), DRY (dehumidification). To set FAN mode (ventilation), press MODE button, the icon lights up and Fn appears on remote controller display.

The corresponding icons light up on the remote controller display according to the selection made.

## 4. SLEEP BUTTON

Press this button on the control panel or remote controller. When Sleep mode is selected, the LEDs  on the control panel lights up, while the Sleep LED on the control panel remains on continuously.

It is possible to adjust the operating mode, except in the Ventilation mode and the temperature.

The ventilation speed, on the other hand, cannot be adjusted and the appliance operates constantly at low speed.

The Sleep function allows the unit to operate silently, saving energy.

In cooling mode, after 1 hour of operation the temperature increases by 1 °C, after the second hour the

temperature increases by another 1 °C. After 5 hours of consecutive operation, the temperature still increases by 1°C. After a total of 10 hours of consecutive operation, the appliance exits Sleep mode and resumes normal operation.

## 5. TIMER BUTTON


### By control panel:

On the remote controller, when this function is activated, the icon remains lit on the remote controller display. To activate the On timer, press the button twice, 01 flash and shown on the remote controller display. Press UP/DOWN buttons, to set the appliance on time up to 24 hours. When the set time flashes on the display for 5 seconds, it indicates that the setting has been made correctly.

To activate the Off Timer, press the button twice, the remote controller display will show the time remaining before switching off.


To cancel the Timer function, hold down the button for about 3 seconds and the icon on the display will turn off.

### By remote controller:

Press this button and the display will show 1h while the icon  lights up. To activate the on timer, press the Timer button twice, 01 will flash and appear on the remote control display. Press the UP/DOWN buttons to set the on time up to 24 hours. When the set time flashes on the display for 5 seconds, it indicates that the setting is successful.

To activate the off timer, press the button twice, the remote control display will show the remaining time before the off timer.

## 6. SWING BUTTON

When the unit is on, press this button on the controller panel or on the remote controller to select the horizontal automatic swing of the air flaps, the LED  lights up on the control panel. Press this button again to stop the swinging of the flaps, which will then remain fixed in the same position. The LED on the control panel will turn off.

It is possible to manually adjust the vertical flaps by directing them to the desired position.


## 7. UP/DOWN BUTTONS

Press these buttons on the control panel or on the remote controller to adjust the temperature (each time you press the temperature increases or decreases by 1°C) and set the Timer (each time you press the time increases or decreases by 1 hour).

### FUNCTIONS THAT CAN ONLY BE ACTIVATED BY REMOTE CONTROLLER

#### CHILD LOCK FUNCTION

With the unit on, on the control panel, press the Swing button and the Timer button simultaneously for 3 seconds to activate or deactivate the control panel lock function.

The LED  on the control panel lights up.

To deactivate this function, press and hold two buttons for about 3 seconds or switch the device off and on again.

On the remote controller, to activate or deactivate this function, press the LOCK button and the display will show "Lo".

#### TEMPERATURE DISPLAY FUNCTION

On the remote controller, press Display button to change the temperature display from C° to F°.

#### MEMORY FUNCTION

In the event of a blackout, when restarted the unit operates in the same mode previously set.

#### DISPLAY LIGHTING

Press the Display button on the remote control to turn the remote controller display light on or off.

### TEMPERATURE DISPLAY AND ERRORS

The temperature set in cooling mode will appear on the display, If the unit operates in dehumidification mode, the ambient humidity will appear on the display.

Problem	Cause	Solution
E1	Room temperature sensor failure.	Contact a service centre.
E2	Failure of temperature sensor on the e vaporator.	Contact a service centre.
P1	Alarm of full water tank	Connect the PVC pipe to the condensate drain hole

## WIFI GUIDE

### INFORMATION ON THE APP “SMART LIFE – SMART LIVING”


The “Smart Life – Smart Living” app is available for Android and iOS. Scan the corresponding QR code to get directly to the download.



Download Smart Life App

### INFORMATION ON HOW TO USE THE APP

This appliance allows you to operate the appliance via your home net-work. A prerequisite is a permanent WIFI connection to your router and the free app “Smart Life – Smart Living”.

1. Install the “Smart Life – Smart Living” app. Create a user account.
2. Activate the WIFI function in the settings of your appliance.
3. Place the appliance at a distance of about 5 meters to your router.
4. Long press the “Swing” button to start the network configuration, when the WIFI indicator  flashes, you can connect the WIFI.



## WIFI CONNECTION

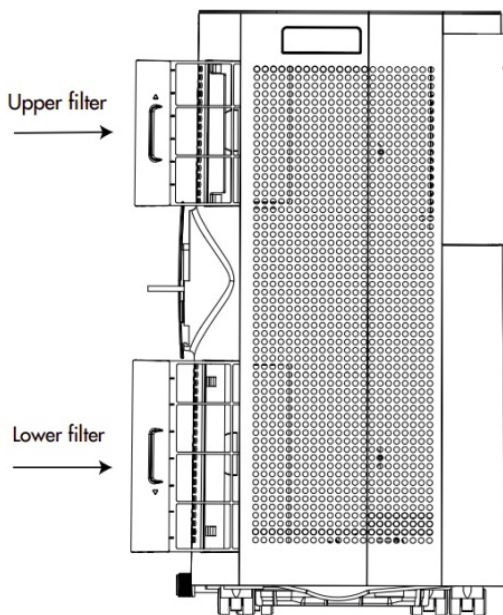
- When WIFI indicator flashes, select “+” and “Air Conditioner”, and follow the instructions on the display.
- If the configuration was successful, the Wifi LED remains on on the control panel.
- Now you can operate the device via the app.
- Press and hold the Swing button for about 5 seconds, the appliance disconnects, the WIFI indicator goes off.

## CARE AND MAINTENANCE

### WARNING!

**Before carrying out any cleaning or maintenance operations, unplug the appliance.**

#### 1. Cleaning the air filters



The air filters must be checked at least once every two weeks of operation. Operation with dirty or clogged filters always causes a reduction in the efficiency of the air conditioner and can cause serious problems. To remove the filters, positioned on the side of the unit, slide them completely out of their seat. Use a vacuum cleaner to remove dust from the filters. If this is not enough, wash the filters with warm water and possibly neutral detergent, rinse it with cold water and let them dry naturally before putting it back in their place.

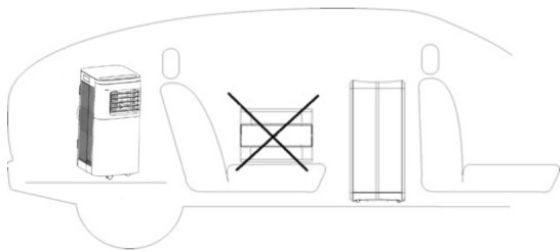
#### 2. Cleaning the casing

Use a damp and soft cloth to clean the outer surface of the appliance. Do not use excessively hot water, solvents, petrol or other aggressive chemical compounds, talcum powder or brushes: these may damage the surface or colour of the casing. Remove any stains using lukewarm water with a little neutral detergent. Do not pour water onto the air conditioner to clean it, as this may damage its internal components or cause a short circuit.

#### 3. Storage

When the air conditioner is not expected to be used for a long time, clean the filters before storing it away. Keep the appliance in a vertical position at all times. Do not place heavy objects on top of the air conditioner. It is advisable to protect the appliance with a plastic sheet.

#### 4. Transport



Transport the air conditioner in the vertical position. Should this not be possible, rest it on its right-hand side; when the appliance reaches its final destination, place it immediately in the vertical position and wait at least 4 hours before operating it in cooling mode.

5. **For complete safety, regularly check the condition of the power cord; should it be damaged as a result of wear, contact the Service Centre to replace it.**

## **TIPS FOR MAXIMIZING COMFORT AND MINIMIZING CONSUMPTION**

### **CHECK that:**

- the unit intake and delivery grilles are always free;
- the air filters are always clean; a dirty filter will decrease the passage of air and reduce the unit's performance;
- all doors and windows are closed, so as to avoid infiltration of unconditioned air;
- the flexible pipe is correctly positioned, without tight bends or curves;
- the room temperature is above 5 °C for the cooling and for the dehumidifying mode

## **REGULATION (EU) No. 517/2014 – F-GAS**

**The unit contains R290, a natural greenhouse gas with global warming potential (GWP) = 3 – Kg. 0,180 = 0,00054 Tons CO<sub>2</sub> equiv. Do not release R290 into the atmosphere.**



### **INFORMATION FOR CORRECT DISPOSAL OF THE PRODUCT IN ACCORDANCE WITH THE EUROPEAN DIRECTIVE 2012/19/EU**

At the end of its working life this equipment must not be disposed of as an household waste. It must be taken to special local community waste collection centers or to a dealer providing this service. Disposing of electrical and electronic equipment separately avoids possible negative effects on the environment and human health deriving from an inappropriate disposal and enables its components to be recovered and recycled to obtain significant savings in energy and resources. In order to underline the duty to dispose of this equipment separately, the product is marked with a crossed-out dustbin.

## **SPECIALIST'S MANUAL**

### **Aptitude requirement for maintenance man (repairs. should be done only by specialists).**

- Any person who is involved with working on or breaking into a refrigerant circuit should hold a current valid certificate from an industry-accredited assessment authority, which authorizes their competence to handle refrigerants safely in accordance with an industry recognized assessment specification.
- Servicing shall only be performed as recommended by the equipment manufacturer. Maintenance and repair requiring the assistance of other skilled personnel shall be carried out under the supervision of the person competent in the use of flammable refrigerants.

### **Safety preparation work**

The maximum refrigerant charge amount is shown on the following table a

(**Note:** Please refer to the nameplate for the charging quantity of R290).

Room area (m2)	4	11	15
Maximum charge (kg)	<0.152	0.225	0.304

Table a – Maximum charge (kg)

- **Security checks**

Prior to beginning work on systems containing flammable refrigerants, safety checks are necessary to ensure that the risk of ignition is minimized. For repair to the refrigerating system, the following precautions shall be complied with prior to conducting work on the system.

- **Work procedure**

Work shall be undertaken under a controlled procedure so as to minimise the risk of a flammable gas or vapor being present while the work is being performed.

- **General work area**

All maintenance staff and others working in the local area shall be instructed on the nature of work being carried out. Work in confined spaces shall be avoided. The area around the workspace shall be sectioned off. Ensure that the conditions within the area have been made safe by control of flammable material.

- **Checking for presence of refrigerant**

The area shall be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially toxic or flammable atmospheres. Ensure that the leak detection equipment being used is suitable for use with all applicable refrigerants, i.e. non-sparking, adequately sealed or intrinsically safe.

- **Presence of fire extinguisher**

If any hot work is to be conducted on the refrigeration equipment or any associated parts, appropriate fire extinguishing equipment shall be available to hand. Have a dry powder or CO2 fire extinguisher adjacent to the charging area.

- **No ignition sources**

No person carrying out work in relation to a refrigeration system which involves exposing any pipe work shall use any sources of ignition in such a manner that it may lead to the risk of fire or explosion. All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which refrigerant can possibly be released to the surrounding space. Prior to work taking place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks. "No Smoking" signs shall be displayed.

- **Ventilated area**

Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work. A degree of ventilation shall continue during the period that the work is carried out. The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere.

- **Checks to the refrigeration equipment**

Where electrical components are being changed, they shall be fit for the purpose and the correct specification. At all times the manufacturer's maintenance and service guidelines shall be followed. If in doubt, consult the manufacturer's technical department for assistance.

The following checks shall be applied to installations using flammable refrigerants:

- The actual refrigerant charge is in accordance with the room size within which the refrigerant containing parts are installed;
- The ventilation machinery and outlets are operating adequately and are not obstructed;
- If an indirect refrigerating circuit is being used, the secondary circuit shall be checked for the presence of refrigerant;
- Marking to the equipment continues to be visible and legible. Markings and signs that are illegible shall be corrected;
- Refrigeration pipe or components are installed in a position where they are unlikely to be exposed to any substance which may corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are suitably protected against being so corroded.

#### • **Checks to electrical devices**

Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures. If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with. If the fault cannot be corrected immediately but it is necessary to continue operation, an adequate temporary solution shall be used. This shall be reported to the owner of the equipment so all parties are advised.

**initial safety checks shall include:**

- That capacitors are discharged: this shall be done in a safe manner to avoid possibility of sparking;
- That no live electrical components and wiring are exposed while charging, recovering or purging the system;
- That there is continuity of earth bonding.

#### • **Repairs to sealed components**

During repairs to sealed components, all electrical supplies shall be disconnected from the equipment being worked upon prior to any removal of sealed covers, etc. If it is absolutely necessary to have an electrical supply to equipment during servicing, then a permanently operating form of leak detection shall be located at the most critical point to warn of a potentially hazardous situation. Particular attention shall be paid to the following to ensure that by working on electrical components, the casing is not altered in such a way that the level of protection is affected. This shall include damage to cables, excessive number of connections, terminals not made to original specification, damage to seals, incorrect fitting of glands, etc.

- Ensure that the apparatus is mounted securely.
- Ensure that seals or sealing materials have not degraded to the point that they no longer serve the purpose of preventing the ingress of flammable atmospheres. Replacement parts shall be in accordance with the manufacturer's specifications.

**NOTE:** the use of silicon sealant can inhibit the effectiveness of some types of leak detection equipment. intrinsically safe components do not have to be isolated prior to working on them.

#### • **Repair to intrinsically safe components**

Do not apply any permanent inductive or capacitance loads to the circuit without ensuring that this will not exceed the permissible voltage and current permitted for the equipment in use. intrinsically safe components are the only types that can be worked on while live in the presence of a flammable atmosphere. The test apparatus shall bear the correct rating. Replace components only with parts specified by the manufacturer. Other parts may result in the ignition of refrigerant in the atmosphere from a leak.

#### • **Cabling**

Check that cabling will not be subject to wear, corrosion, excessive pressure, vibration, sharp edges or any other adverse environmental effects. The check shall also take into account the effects of aging or continual vibration from sources such as compressors or fans.

- **Detection of flammable refrigerants**

Under no circumstances shall potential sources of ignition be used in the searching for or detection of refrigerant leaks. A halide torch (or any other detector using a naked flame) shall not be used.

- **Leak detection methods**

The following leak detection methods are deemed acceptable for all refrigerant systems. Electronic leak detectors may be used to detect refrigerant leaks but, in the case of flammable refrigerants, the sensitivity may not be adequate, or may need re-calibration. (Detection equipment shall be calibrated in a refrigerant-free area.) Ensure that the detector is not a potential source of ignition and is suitable for the refrigerant used. Leak detection equipment shall be set at a percentage of the LFL of the refrigerant and shall be calibrated to the refrigerant employed, and the appropriate percentage of gas (25 % maximum) is confirmed. Leak detection fluids are suitable for use with most refrigerants but the use of detergents containing charring shall be avoided as the charring may react with the refrigerant and corrode the copper pipe-work. If a leak is suspected, all naked flames shall be removed/extinguished. If a leakage of refrigerant is found which requires brazing, all of the refrigerant shall be recovered from the system, or isolated (by means of shut off valves) in a part of the system remote from the leak.

For appliances containing flammable refrigerants, oxygen free nitrogen (OFN) shall then be purged through the system both before and during the brazing process.

- **Removal and evacuation**

When breaking into the refrigerant circuit to make repairs or for any other purpose conventional procedures shall be used. However, for flammable refrigerants it is important that best practice is followed since flammability is a consideration.

**The following procedure shall be adhered to:**

- remove refrigerant;
- purge the circuit with inert gas; evacuate;
- purge again with inert gas;
- open the circuit by cutting or brazing.

The refrigerant charge shall be recovered into the correct recovery cylinders. For appliances containing flammable refrigerants, the system shall be flushed with OFN to render the unit safe. This process may need to be repeated several times. Compressed air or oxygen shall not be used for purging refrigerant systems. For appliances containing flammable refrigerants, flushing shall be achieved by breaking the vacuum in the system with OFN and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling down to a vacuum. This process shall be repeated until no refrigerant is within the system. When the final OFN charge is used, the system shall be vented down to atmospheric pressure to enable work to take place. This operation is absolutely vital if brazing operations on the pipe-work are to take place. Ensure that the outlet for the vacuum pump is not close to any ignition sources and that ventilation is available.

- **Charging procedures**

In addition to conventional charging procedures, the following requirements shall be followed.

- Ensure that contamination of different refrigerants does not occur when using charging equipment. Hoses or lines shall be as short as possible to minimise the amount of refrigerant contained in them.

- Cylinders shall be kept upright.
- Ensure that the refrigeration system is earthed prior to charging the system with refrigerant.
- Label the system when charging is complete (if not already).
- Extreme care shall be taken not to overfill the refrigeration system.

Prior to recharging the system, it shall be pressure-tested with the appropriate purging gas. The system shall be leak-tested on completion of charging but prior to commissioning. A follow up leak test shall be carried out prior to leaving the site.

#### • **Decommissioning**

Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its detail. It is recommended good practice that all refrigerants are recovered safely. Prior to the task being carried out, an oil and refrigerant sample shall be taken in case analysis is required prior to re-use of reclaimed refrigerant. It is essential that electrical power is available before the task is commenced.

1. Become familiar with the equipment and its operation.
2. Isolate system electrically.
3. Before attempting the procedure, ensure that:
  - mechanical handling equipment is available, if required, for handling refrigerant cylinders;
  - all personal protective equipment is available and being used correctly;
  - the recovery process is supervised at all times by a competent person;
  - recovery equipment and cylinders conform to the appropriate standards.
4. Pump down refrigerant system, if possible.
5. If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.
6. Make sure that cylinder is situated on the scales before recovery takes place.
7. Start the recovery machine and operate in accordance with manufacturer's instructions.
8. Do not overfill cylinders. (No more than 80% volume liquid charge).
9. Do not exceed the maximum working pressure of the cylinder, even temporarily.
10. When the cylinders have been filled correctly and the process completed, make sure that the cylinders and the equipment are removed from site promptly and all isolation valves on the equipment are closed off.
11. Recovered refrigerant shall not be charged into another refrigeration system unless it has been cleaned and checked.

#### • **Labelling**

Equipment shall be labelled stating that it has been de-commissioned and emptied of refrigerant. The label shall be dated and signed. For appliances containing flammable refrigerants, ensure that there are labels on the equipment stating the equipment contains flammable refrigerant.

#### • **Recovery**

When removing refrigerant from a system, either for servicing or decommissioning, it is recommended good practice that all refrigerants are removed safely. When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are employed. Ensure that the correct number of cylinders for holding the total system charge are available. All cylinders to be used are designated for the recovered refrigerant and labelled for that refrigerant (i.e. special cylinders for the recovery of refrigerant). Cylinders shall be complete with pressure-relief valve and associated shut-off valves in good working order. Empty recovery cylinders are evacuated and, if possible, cooled before recovery occurs. The recovery equipment shall be in good working

order with a set of instructions concerning the equipment that is at hand and shall be suitable for the recovery of all appropriate refrigerants including, when applicable, flammable refrigerants. In addition, a set of calibrated weighing scales shall be available and in good working order. Hoses shall be complete with leak-free disconnect couplings and in good condition. Before using the recovery machine, check that it is in satisfactory working order, has been properly maintained and that any associated electrical components are sealed to prevent ignition in the event of a refrigerant release. Consult manufacturer if in doubt. The recovered refrigerant shall be returned to the refrigerant supplier in the correct recovery cylinder, and the relevant waste transfer note arranged. Do not mix refrigerants in recovery units and especially not in cylinders. If compressors or compressor oils are to be removed, ensure that they have been evacuated to an acceptable level to make certain that flammable refrigerant does not remain within the lubricant. The evacuation process shall be carried out prior to returning the compressor to the suppliers.

Only electric heating to the compressor body shall be employed to accelerate this process. When oil is drained from a system, it shall be carried out safely.


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## Documents / Resources

	<p><a href="#">argoclima CLASS WF Portable Air Conditioner</a> [pdf] Instruction Manual 1224, 26, CLASS WF Portable Air Conditioner, CLASS WF, Portable Air Conditioner, Air Conditioner, Conditioner</p>
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## References

- [Argoclima S.p.A.](#)
- [User Manual](#)

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