

Installation Manual

WEBSERVER AIRZONE CLOUD

Español

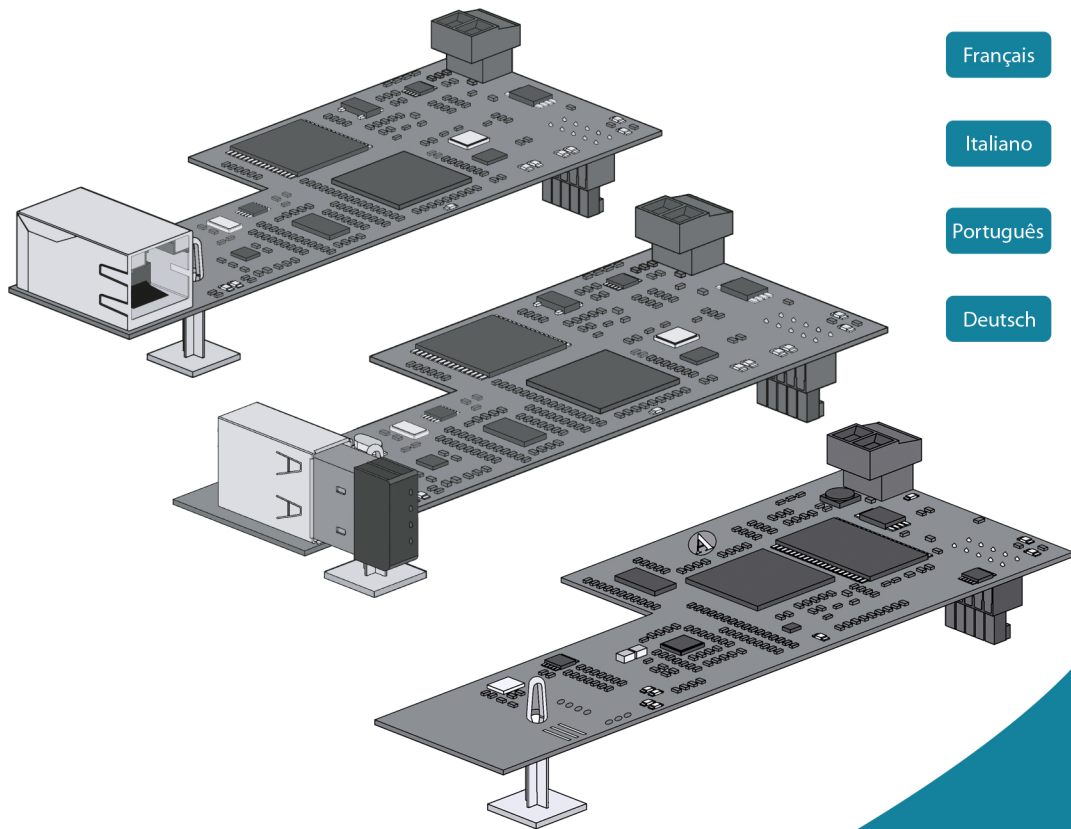
English

Français

Italiano

Português

Deutsch



AIRZONE

TABLE OF CONTENTS

Precautions and environmental policy	29
Precautions.....	29
Environmental policy	29
Introduction.....	30
System Control	30
Server Management	30
User Management.....	30
Installation and association	31
Installation	31
Webserver cloud connection to router.....	32
Ethernet Connection	32
WiFi Connection.....	33
Using the Blueface Thermostat	33
Using Airzone Cloud App	34
Association with webserver in Manual mode	37
Webserver Association	38
Navigation and Control.....	39
Main screen.....	39
Servers Menu.....	39
Edit.....	40
Configuration	40
Users.....	43
User Menu.....	43
Installation control	44
Installation control	45
Air conditioning control of the system	46
Operation Mode.....	46
Eco-Adapt saving function.....	47
Fan Speed	47

Time Schedules.....	47
System Settings	48
Air conditioning control of the zone.....	48
Time schedules	50
Zone settings.....	50
Weather Information	50
Warnings and errors	51
Change of router (Annex).....	51

PRECAUTIONS AND ENVIRONMENTAL POLICY

PRECAUTIONS

For your security, and to protect the devices, follow these instructions:

- Do not manipulate the system with wet or damp hands.
- Disconnect the power supply before making any connections.
- Take care not to cause a short circuit in any of the system connections.

ENVIRONMENTAL POLICY



Do not dispose of this equipment in the household waste. Electrical and electronic equipment contain substances that may damage the environment if they are not handled appropriately. The symbol of a crossed-out waste bin indicates that electrical equipment should be collected separately from other urban waste. For correct environmental management, it must be taken to the collection centres provided for this purpose, at the end of its useful life.

The equipment components may be recycled. Act in accordance with current regulations on environmental protection.

If you replace it with other equipment, you must return it to the distributor or take it to a specialized collection centre.

Those breaking the law or by-laws will be subject to such fines and measures as are laid down in environmental protection legislation.

INTRODUCTION

The Airzone Cloud Webserver remotely controls the Airzone system through the Airzone Cloud app available for Android and iOS devices and for web browsers.

SYSTEM CONTROL

- Air conditioning control.
- Calendar, weekly and time schedules.
- Weather information.
- Settings menu.
- Technical alarms.

SERVER MANAGEMENT

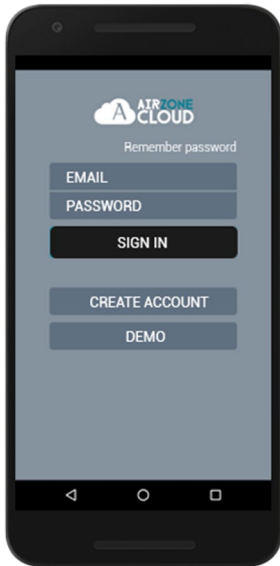
- Server editor.
- System configuration.
- Zone configuration.
- Management of users associated to the server.

USER MANAGEMENT

- Personal data editor.
- Advanced settings.
- Languages selector.
- Change of password and account deletion.

INSTALLATION AND ASSOCIATION

INSTALLATION



Use your Airzone system with an Android/iOS device through the Airzone Cloud app or through your browser on airzonecloud.com. The Airzone Cloud app is available in Google Play and Apple App Store, to download it, search “Airzone Cloud” from your device’s store.

Once the app has been installed, it is necessary to associate it with the Airzone system’s webserver (see section *Webserver Association*).

If you are already an Airzone Cloud member, login with your credentials

If you are not yet registered, press on “Create account”, complete the formulary and press start. A confirmation mail will be sent to your email address to validate your identity (if you don’t receive any email, please check the spam folder).

WEBSERVER CLOUD CONNECTION TO ROUTER

ETHERNET CONNECTION

The Airzone Webserver Cloud Ethernet is configured by default in automatic mode or DHCP connection. Connect the Airzone Webserver Cloud to the router to make it operative. The D10 LED of the server will start to blink in green color if the internet connection is correct. The warning icon of the Blueface thermostat screen will disappear verifying that the connection is correct.

EN



To associate it manually, press on Settings, select manual mode and change the required parameters: IP Address, subnet mask.



WIFI CONNECTION

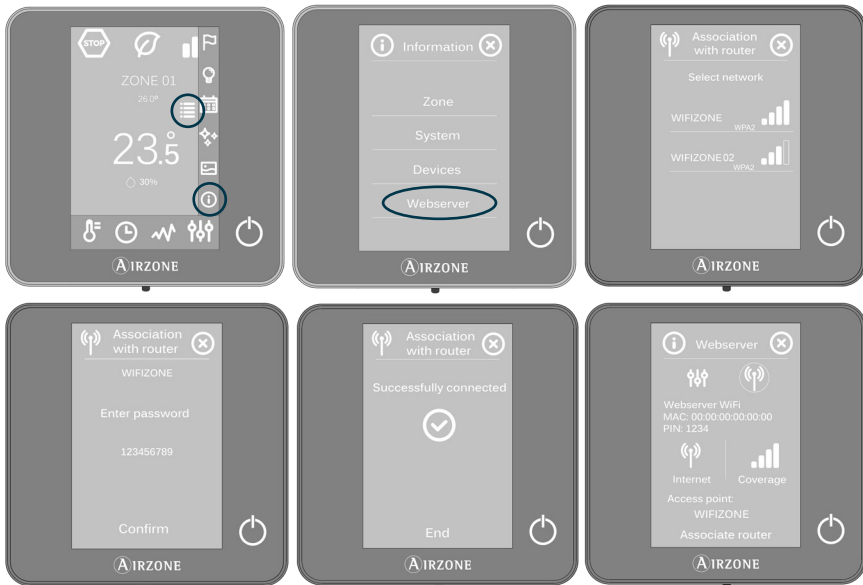
Using the Blueface Thermostat

The Airzone Webserver Cloud WiFi enables the connection to the installation router through the Blueface thermostat. To do so, access the webserver information parameter within the user menu.

Press Associate router, select the desired network and enter the password. The D10 LED will blink when the connection is correct.

The warning icon of the Blueface thermostat screen will disappear verifying that the connection is correct.

EN



The Airzone Webserver Cloud is configured by default in automatic mode or DHCP connection. To manually perform the association, press on Settings, select manual mode and change the required parameters.

EN




Using Airzone Cloud App

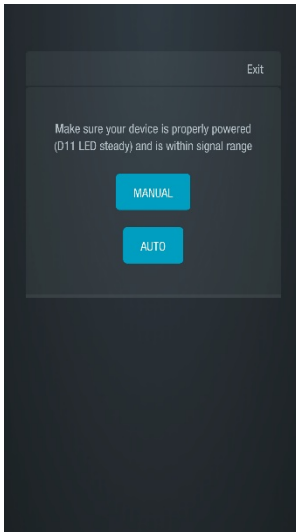
To connect to the Airzone Cloud Webserver Wi-Fi you must have the Airzone Cloud app installed on your iOS or Android device and follow the instructions.

The Airzone Cloud app offers you two options for association: Auto or Manual mode.

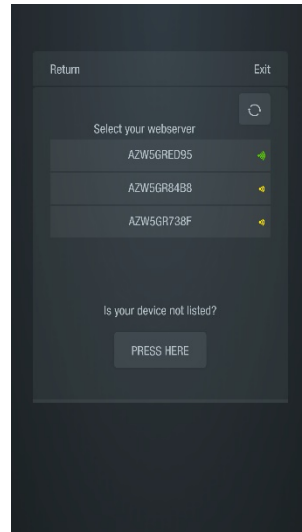
Association with webserver in Auto mode

If you select configuration in Auto mode, your mobile device will automatically activate the search for available Bluetooth devices and display a list of the devices found.

If you don't find your device on the list, make sure you are near the Webserver device you want to associate and press the update icon . If your device is not listed, press the lower button to continue with the association process in Manual mode. (See section *Manual association with Webserver*).

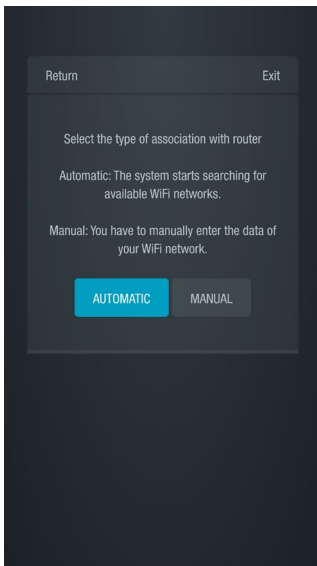


Auto/Manual association selection



Auto association

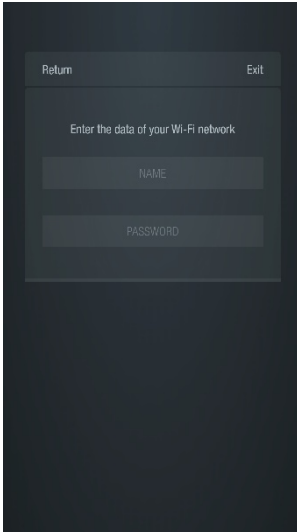
EN



Auto/Manual router association

1. Press the device you want to associate and then press Continue.
2. Next, you will need to select the router to which you want to associate your Cloud Webservice device, for which you can choose automatic or manual configuration:
 - Manual: Enter the name and password of the Wi-Fi network you want to associate.
 - Automatic: The app will show you a list of available Wi-Fi networks; select one and enter your password on the next screen.

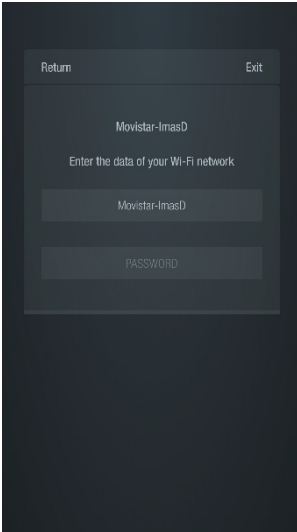
EN



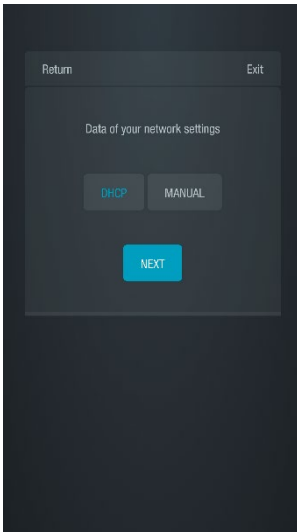
Manual router association



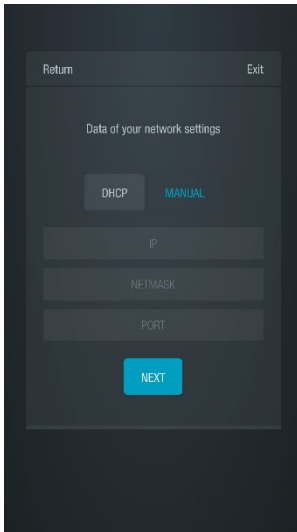
Auto router association (I)



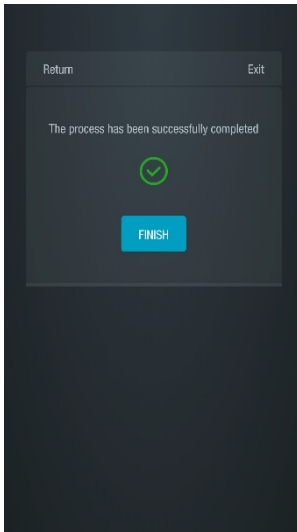
Auto router association (II)



Router configuration (I)



Router configuration (II)

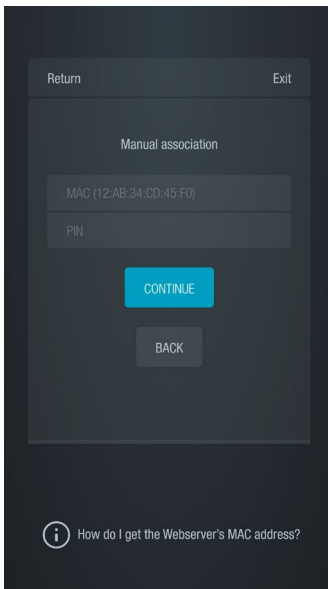


Router configuration (III)

3. Finally, you must choose the type of configuration for the connection of the device to the network: DHCP or Manual. The Cloud Webserver is configured in automatic mode or connection by DHCP; if manual association is required, press the settings icon, select the manual mode and change the required parameters: IP address, subnet mask.


The server's D12 LED will begin to blink in green if the Internet connection has been properly established.

Association with webserver in Manual mode



To complete the association process in Manual mode, you must:

1. Enter the MAC and PIN of your Webserver device on the screen that the app will display.

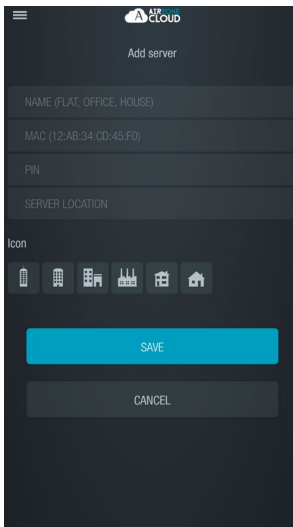
You can obtain this information in the following ways, as indicated in the app's help icon  :

- This information can be found on the back cover of this user's manual.
- On the Webserver device's information sticker.
- Via the Blueface master thermostat for system 1 in your installation. In this case, access the user menu, press Information and select Webserver to view your device's MAC and PIN parameters.
- Via the Think master thermostat for system 1 in your installation. In this case, access the system advanced settings menu, press Information, and select Webserver to view your device's MAC and PIN parameters.

2. Connect your Android or iOS device to the generated WiFi network (AZWSCLOUDxxxx). Depending on your device, a notification requesting permission to establish the connection with the network will appear, confirm by pressing yes and continue with the procedure.
3. Select the WiFi network to which the Airzone Webserver Cloud WiFi will connect and enter the password of the network. Configure your Webserver parameters of the network by DHCP (automatic mode) or manually fill the required fields: local IP and Gateway (router's IP).

The server's D12 LED will begin to blink in green if the Internet connection has been properly established.

WEBSERVER ASSOCIATION



If you don't have any associated webserver, the "Add server" option will appear on your screen when logging in. If you already have associated webserver, access the "Add server" option from the sidebar menu.

At this point, associate the Webserver Cloud with your app.

Name. Name of the installation where the webserver is located.

MAC. The unique code that identifies the Cloud Webserver*.

PIN. The password used to access the Cloud Webserver*.

***Note:** This information can be found on the back cover of the user's manual.

Server location. Location of the installation controlled by the Webserver.

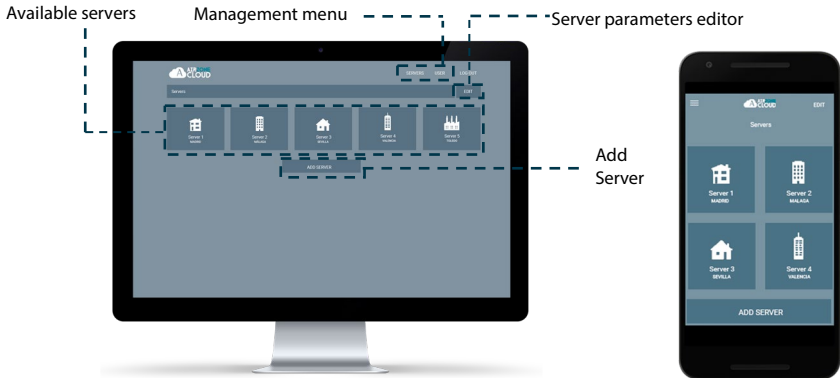
To complete the association process, press save.

NAVIGATION AND CONTROL

MAIN SCREEN

Access to the main control screen of the Airzone system from your Android/iOS app or from your browser on airzonecloud.com

This screen enables the access to the management of the servers associated to the user and the control of the user settings, if necessary, log out by pressing on “Log out”.



EN

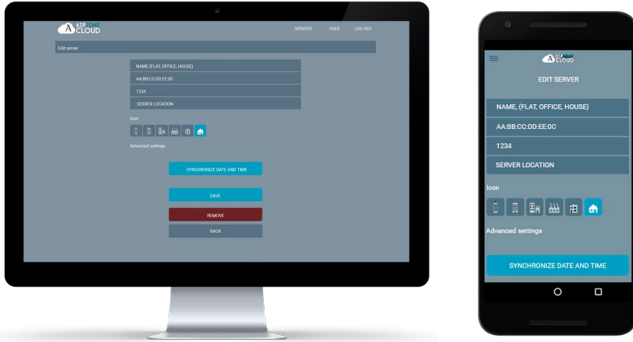
SERVERS MENU

To access the server’s management screen, press on the server icon. To access the advanced management of the associated server, press on the Edit button and select the desired parameter.



Edit

Shows and enables the management of the next parameters.



Name. Name of the installation where the server is located.

MAC. The unique code that identifies the server.

PIN. The password used to access the server.

Location. Location of the installation controlled by the server.

Icon. The icon which identifies the server.

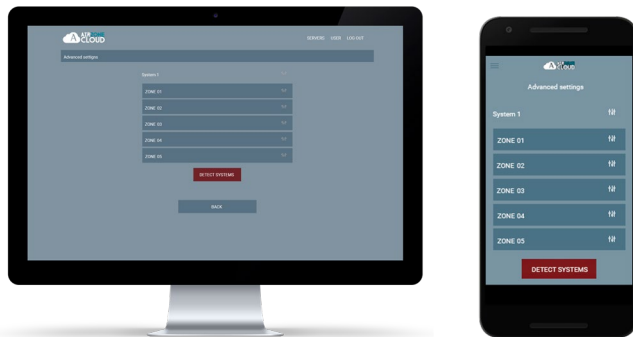
Synchronize date and time. Allows to synchronize the date and time in every system at the same time.

Remove. Eliminates the server removing the possibility to control it.

Press on save to keep the changes or back to leave the page without saving the changes.

Configuration

Option only available if the advanced settings view is activated. Enables the management of the server globally or individually.



Press on “detect systems” to update the server.

If the **system** management is selected, the available parameters are:

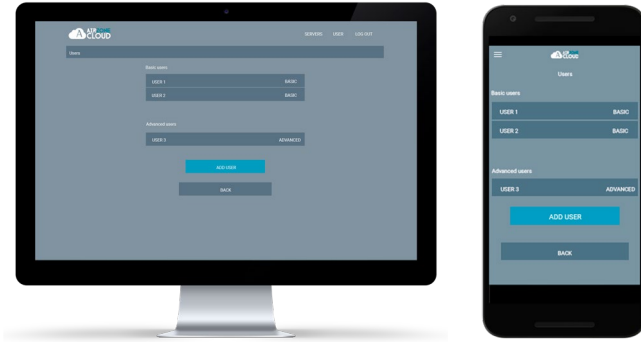
- **Name.** Shows the name of the system.
- **System address.** Defines the number of the system within your installation.
- **Condensation protection** (only available on installations with cooling radiant control). Enables to select the protection level against condensation: Very high, high, medium, low and very low. If necessary, it can be activated for 1h.
- **Stages.** Selects the highest temperature in heating mode (19-30 °C) and the lowest temperature in cooling mode (18-26 °C). It is also possible to disable some of the modes.
- **Histéresis.** Defines the temperature differential between room temperature and set-point temperature.
- **Flow.**
 - **Q-Adapt.** Select the control algorithm that best fits yours installation. These are the available:
 - **Maximum:** The system operates at maximum speed, irrespective of the number of zones.
 - **Power:** The speed of the system is higher than in standard mode to increase the flow.
 - **Standard:** The system automatically regulates the speed based on the number of zones.
 - **Silence:** The speed of the system is lower than in standard mode to reduce the noise.
 - **Minimum:** The system operates at minimum speed, irrespective of the number of zones.
 - **Proportional opening.** Use this to activate/deactivate the proportionality in the dampers of the system.
- **Output.** Use this parameter to change the operation logic of the CMV/Boiler of the system main control board.
- **Minimum air.** This allows the access of a minimum air flow in zones where the set-point temperature has been already reached.
- **Protection temperature.** Sets a limit temperature for the boiler in order to protect it.
- **Cooling mixing valve.** Select "Auto" if you have mixing valves for cooling in your installation.
- **Probe.** Defines the cut-off temperatures in heating mode and cooling mode to protect the AC unit.
- **Information.** This parameter provides information about the zone and the connected element.

If the **zone** management is selected, the available parameters are:

- **Name.** Shows the name of the zone.
- **Zone address.** Defines the number of the zone within your installation.
- **Linked zones.** It displays the control outputs associated.
- **Master.** Use this parameter to define the thermostat as Master or Zone.
- **Basic mode.** The thermostats can be set in Basic or Advanced mode. These are the parameters you can control in basic mode: On/Off, Set-point temperature, Fan Speed and Operation mode.
- **Offset.** Allows you to correct ambient temperature that is measured in the various areas or in all of them, due to deviations by sources of heat/cold nearby, with a correction factor between - 2,5°C and 2,5°C in steps of 0,5°C.
- **Master address.** This menu allows you to determine the operation mode of operation defined in a different master zone.
- **Stages.** This parameter is used to configure both cooling and heating stages in a single zone or in all the zones. These are the features to be configured:
 - **Air.** It activates the heating/cooling air in the zone.
 - **Radiant.** It activates radiant heating/cooling.
 - **Air+Radiant.** It activates both air and radiant heating/cooling in the zone selected and also allows the user to select the desired heating stage.
- **Inputs.** It determines the state of the module of a zone based:
 - **Window.** This option allows the control the state of a zone module based on the opening of the window. It only has effect on the control element of the zone module. When this contact is on, if it detects any open window, it turns off the zone after 60 seconds (displaying an Open window notification on the thermostat). In order to activate this feature, configure it as Normally open or Normally closed.
 - **Presence.** It determines the state of the module of a zone based on the occupancy. It only has effect on the zone control module if it is associated to a thermostat (it does not operate in secondary zone modules). When this contact is on, if the zone is empty for over 5 minutes, the Sleep 90 feature is activated (displaying an Occupancy notification on the thermostat). In order to activate this feature, configure it as Normally open or Normally closed.
- **Information.** This parameter provides information about the zone and the connected element.

Users

Shows all the users allowed to control the installation and the type of control to perform (advanced or basic).

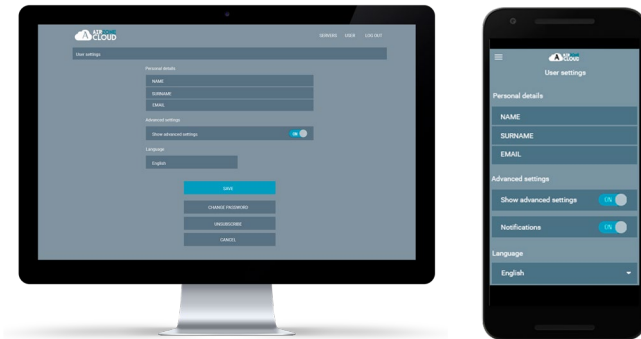


EN

To give access to the control of the server to a new user click on “Add user”, enter required data and the type of control allowed to perform. To complete the process, press save. To remove an user, press on the user and select “Remove user”.

USER MENU

This page allows to manage the properties of the user over all the Airzone Cloud app.



Personal details. Enables to modify the name, surname and email associated to the user.

Advanced settings. Activate and deactivate the visualization of the advanced installation control settings.

Language. Enables to change the language of the app, the available languages are: Spanish, English, French, Italian, Portuguese and German.

Change password. Enables to change the password.

Unsubscribe. Removes the user associated to the server.

Once all the modifications have been done, press save to keep the changes.

EN

INSTALLATION CONTROL

Allows you to update all the information on the installation and manage the schedules.



The Airzone Cloud app enables the management of the installation in several layers.

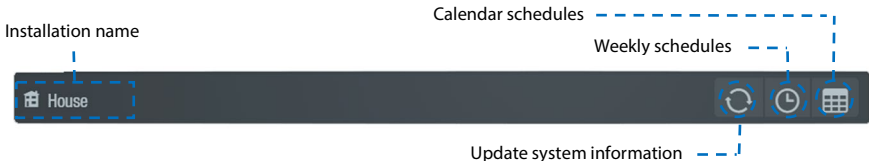
Control of the installation. Updates the information about all the zones and systems of the Airzone installation.

Control of the system. Enables the control of all the system zones at the same time.

Control of the zone. Enables the control of a single zone.

INSTALLATION CONTROL

Allows you to update all the information on the installation and manage the schedules.



Weekly schedules

A drop-down menu is displayed with the weekly schedules created, to view the available schedules press on each day.

To add a new schedule, press Add schedule and complete the fields:

- **Name**
- **Schedule types.** Select between Status type and Temperature type by pressing the button with the icon corresponding to each parameter.
- **Days.** Configure the days on which the schedule is to be executed.
- **Start time.**
- **Temperature and/or Status.** Depending on the parameter selected in Schedule types, you can select ON/OFF in the Status field and/or configure the mode and set-point temperature in the Temperature field.
- **All zones / systems.** Select whether the schedule affects all the systems in the installation, only some of them, or only specific zones.

Calendar schedules

A drop-down menu is displayed with the calendar schedules created.

To add a new schedule, press Add schedule and complete the fields:

- **Name.**
- **Schedule types.** Select between Status type and Temperature type by pressing the button with the icon corresponding to each parameter.
- **Start / End.** Select the start and end dates of the schedule.
- **Temperature and/or Status.** Depending on the parameter selected in Schedule types, you can select ON/OFF in the Status field and/or configure the mode and set-point temperature in the Temperature field.
- **All zones / systems.** Select whether the schedule affects all the systems in the installation, only some of them, or only specific zones.

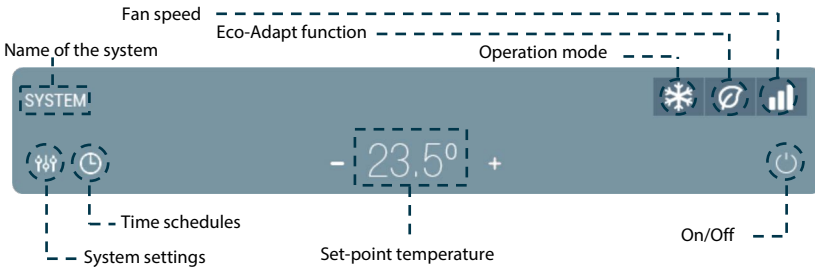



If you have created weekly or calendar schedules, remember that these schedules have priority over those created for each zone in the event of a conflict. The priority established for the time schedules is:

Calendar schedules > weekly schedules > system schedules > zone schedules.

AIR CONDITIONING CONTROL OF THE SYSTEM

Enables the control of all the zones which belong to the system at the same time.



 **On/Off.** Press to turn on/off the zone.

23° Temperature Control. Adjusts the set point temperature:
Press + or - to manually adjust by increments of 0.5° C. The permitted temperature range is 15° C to 30° C.

Operation Mode

To change the Operation Mode, press the Operation Mode icon and select the mode:



Stop. The air conditioning system will remain switched off. All the terminal elements (grilles, dampers, etc.) will remain closed.




Ventilation. The system works exclusively in ventilation mode when any zone generates demand ($T_{\text{Set-Point}} < T_{\text{room}}$).



Cool. In this mode, the conditioning unit will start a cooling cycle any time that any zone is in cool demand ($T_{\text{Set-Point}} < T_{\text{room}}$).








Heat. Enables the heating cycle whenever a zone is in heating demand ($T_{\text{Set-Point}} > T_{\text{room}}$).

 **Dry.** Only available in direct expansion systems. The system works in dry mode, refreshing the zone (reducing the humidity) when any of the zones is generating demand ($T_{\text{Set-Point}} < T_{\text{room}}$).

Note: Dry mode decreases humidity in the room by entering the dehumidification cooling cycle.

Eco-Adapt saving function


Sets the energy efficiency level of the system and adapts the temperature to more efficient temperature values, setting the limit based on the saving level selected.

-  **Off.** The available temperature ranges are the ones allowed by the system.
-  **Manual.** Sets the temperature limits of the zones based on the temperature established by the Master thermostat.
-  **A.** Sets a temperature range of 24° C-30 ° C in cooling, between 15 and 22 ° C in heating.
-  **A+.** Sets a temperature range of 25° C-30 ° C in cooling, between 15 and 21,5 ° C in heating.
-  **A++.** Sets a temperature range of 24° C-30 ° C in cooling, between 15 and 22 ° C in heating.


Fan Speed

It is used to set the airflow control of the AC unit fan imposing the flow depending on the number of zones in demand:

-  **High speed**
-  **Medium speed**
-  **Low speed**
-  **Automatic speed**

 On direct expansion units, enables to directly select the speed of the unit, setting the value 1 as the lowest speed.

Time Schedules

Access the time schedules menu by pressing the time schedule icon. After creating the time schedule, select the schedule type to perform, the days of the week, the start time of the schedule and the zones involved. Press save to complete the time schedule creation process. Once the schedule has been created, press on the zone where it applies to modify or remove it. If there are active schedules, the time schedules icon will be lit in blue . When deactivated, the icon will be lit in gray and the schedules created will remain visible in the schedule list, but will be disabled.

System Settings

Press the icons to access the parameters.

Name. Allows to change the name of the system.

Sleep. Auto power-off Eco-timer of the zone. The values to select are:

- **Off.** The timing is off.
- **30.** It activates the timing and switches off the zone after 30 minutes.
- **60.** It activates the timing. After 30 minutes, the zone varies one degree its temperature. After 60 minutes, the zone will switch off.
- **90.** It activates the timing. After 30 minutes, the zone varies one degree its temperature. After 60 minutes, the zone varies another degree the temperature. Finally, after 90 minutes, the zone will switch off.

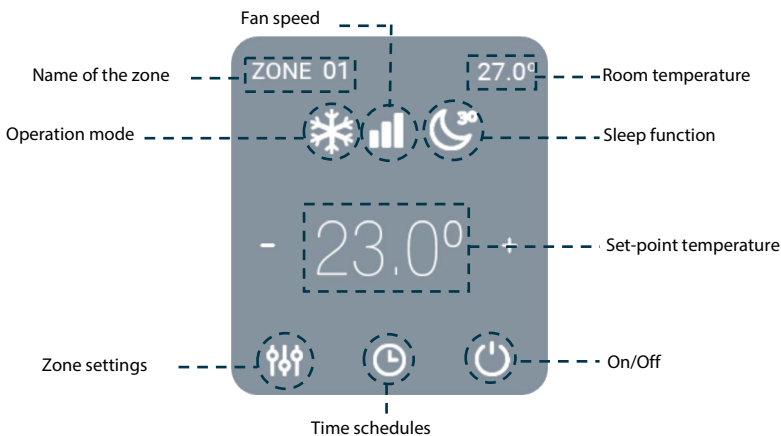
Anti-freezing. It prevents the room temperature from dropping below 12 °C even when the zone is off. (It will not activate in Stop mode).


Stages. This parameter is used to set the heating and cooling stage in the zone. These are the features to be configured:

- **Air.** It activates the cooling and heating air in the zone.
- **Radiant.** It activates radiant heating or cooling.
- **Combined.** It activates both air and radiant cooling and heating in the zone and allows the user to select the desired heating stage.

AIR CONDITIONING CONTROL OF THE ZONE

Enables the control of the zone parameters.



 **On/Off.** Press to turn on/off the zone.

23° **Temperature Control.** Adjusts the set point temperature:

Press the set point temperature to switch between heating and cooling set points. Press + or - to manually adjust by increments of 0.5° C.

The permitted temperature range is:

- Heating mode: 15° C – 29° C.
- Cooling mode: 18° C – 30° C.

In auto mode, there is a minimum difference allowed between heating and cooling set point temperatures. The system will prevent you from setting a temperature within the protection range.

Operation mode. To change the Operation Mode, press the Operation Mode icon and select the mode:

Stop. The air conditioning system will remain switched off. All the terminal elements (grilles, dampers, etc.) will remain closed.

Ventilation. The system works exclusively in ventilation mode when any zone generates demand ($T_{Set-Point} < T_{room}$).

Cool. In this mode, the conditioning unit will start a cooling cycle any time that any zone is in cool demand ($T_{Set-Point} < T_{room}$).

Heat. Enables the heating cycle whenever a zone is in heating demand ($T_{Set-Point} > T_{room}$).

Dry. Only available in direct expansion systems. The system works in dry mode, refreshing the zone (reducing the humidity) when any of the zones is generating demand ($T_{Set-Point} < T_{room}$).

Note: Dry mode decreases humidity in the room by entering the dehumidification cooling cycle.

Fan Speed. It is used to set the airflow control of the AC unit fan, imposing the flow depending on the number of zones in demand.

- High speed**
- Medium speed**
- Low speed**
- Automatic speed**

On direct expansion units, enables to directly select the speed of the unit, setting the value 1 as the lowest speed.

Time schedules

Access the time schedules menu by pressing the time schedule icon. To create a new schedule press "Add Schedule". After creating the time schedule, select the schedule type to perform, the days of the week, the start time of the schedule and the zones involved. Press save to complete the time schedule creation process.

Once the schedule has been created, press on it to modify or remove it.

Zone settings

Press on the icon to access the parameters.

Name. Allows to change the name of the zone.

Sleep. Auto power-off Eco-timer of the zone. The values to select are:

- **Off.** The timing is off.
- **30.** It activates the timing and switches off the zone after 30 minutes.
- **60.** It activates the timing. After 30 minutes, the zone varies one degree its temperature. After 60 minutes, the zone will switch off.
- **90.** It activates the timing. After 30 minutes, the zone varies one degree its temperature. After 60 minutes, the zone varies another degree the temperature. Finally, after 90 minutes, the zone will switch off.

Anti-freezing. It prevents the room temperature from dropping below 12 °C even when the zone is off. (It will not activate in Stop mode).

Stages. This parameter is used to set the heating and cooling stage in the zone. These are the features to be configured:

- **Air.** It activates the cooling and heating air in the zone.
- **Radiant.** It activates radiant heating or cooling.
- **Combined.** It activates both air and radiant cooling and heating in the zone and allows the user to select the desired heating stage.

Adjust slats. Defines the inclination type of the horizontal and vertical slats on the systems for heating and cooling.

WEATHER INFORMATION

Airzone Cloud provides updated information about the location of the installation. To access to the weather information from your smartphone, press on the location (upper right corner). On web browsers and tablets, the weather information is displayed at the right side of the screen.

WARNINGS AND ERRORS

In case of window, occupancy or antifreezing alarm, they could be visualized through Airzone Cloud App, displaying an alert about the type of warning over the zone where it is produced. They will return to its normal state once the incidences are solved.

CHANGE OF ROUTER (ANNEX)

If there is a change of router in an installation, it will be necessary to associate the Webserver to the new router from the Blueface thermostat.

EN

From Blueface Thermostat. Access the information parameter inside the user menu. Press on Webserver, start a new search and continue with the association (see section *WiFi connection using Blueface Thermostat*).

From Think Thermostat. Reset the Airzone Cloud Webserver. Access the advanced settings menu pressing and holding Airzone twice. Select: Information > Webserver > Reset. Associate again from the Airzone Cloud App (See section *WiFi connection using Think Thermostat*).

