

# User's Manual

## RADIAN T

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**AIRZONE**

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## PRECAUTIONS AND ENVIRONMENTAL POLICY

### Precautions

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

- Do not handle the system with wet or damp hands.
- Disconnect the power supply from the air conditioning and heating system before making any connections or disconnecting equipment.
- Take care not to cause a short circuit in any of the system's connections.

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### 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's 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 specialised 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.

## AIRZONE INTERFACES

Airzone thermostats control the air conditioning and boost the energy efficiency of your AC unit.

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Both master and zone thermostats can be easily configured. From your master thermostats you can change modes or define the degree of energy efficiency with Eco-Adapt.



**1 AIRZONE BLUEFACE.** Interface with a 3,5" colour screen for controlling the air conditioning.

- Basic functions of air conditioning control.
- Room temperature and relative humidity reading.
- Eco-Adapt saving function.
- Navigation through zones.
- Time schedules



**2 AIRZONE THINK.** Low-energy E-ink thermostat for controlling your air conditioning through capacitive buttons.

- Basic functions of air conditioning control.
- Room temperature and relative humidity reading.
- Navigation through zones.



**3 AIRZONE LITE.** Interface for controlling the air conditioning through capacitive buttons.

- On/off button.
- Buttons for selecting the temperature.

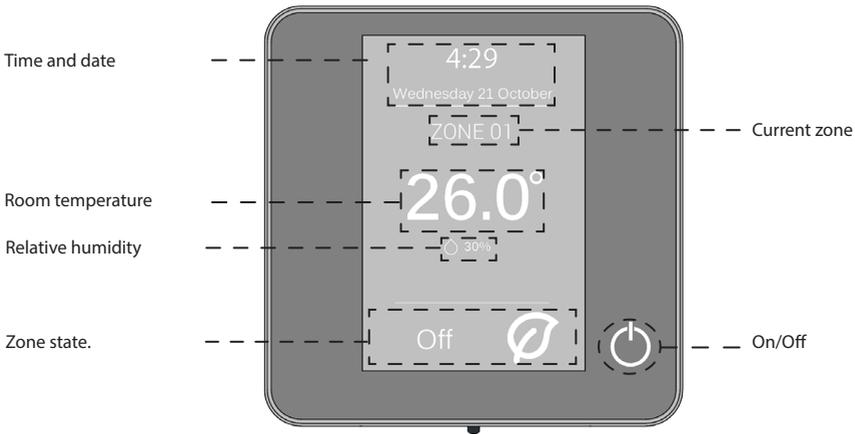
# 1 AIRZONE BLUEFACE

## GETTING TO KNOW YOUR BLUEFACE

### Screensaver

The screensaver pops up after about 30 seconds of inactivity, displaying the following information:

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**Time and date.** This information can be edited from the user settings menu. (See *user settings*, page 8).

**Current zone.** It indicates the zone where the interface is located.

**Room temperature.** It indicates the room temperature of the zone where the Blueface is located.

**Relative humidity** It indicates the humidity of the zone.

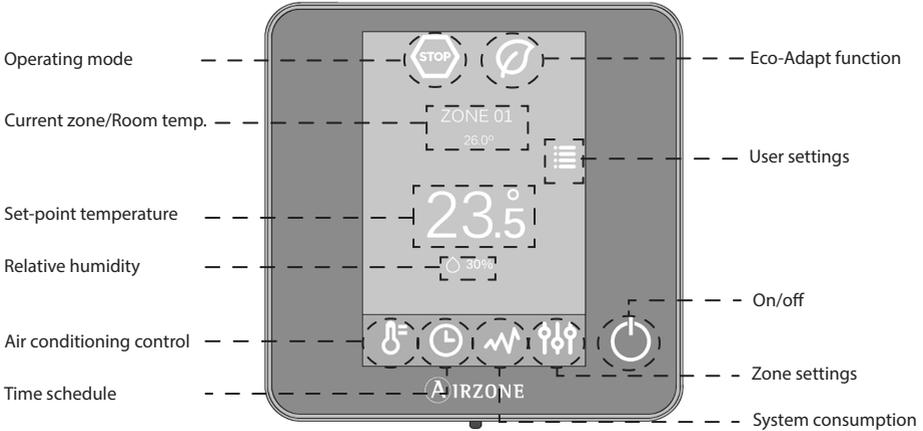
**Zone state.** It displays information about the zone state and settings, warnings and errors of the system (see *system warnings and errors* on page 12).

**On/Off** On and off of the zone where the thermostat is located.

## Home screen (temperature control)

With just one touch, the thermostat goes from the screensaver to home screen. There we can find the following functions:

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**Operating modes:** Select among the available modes: cooling, heating and stop. (See *air conditioning control and operating modes* on pages 6 and 7).

**Eco-Adapt saving function:** It offers several energy efficiency levels and also adapts the temperatures to boost the efficiency of your system. (See *air conditioning control; Eco-Adapt saving function* on page 7).

**Current zone/Room temperature:** It indicates the zone where the thermostat is located. The name of the zone can be edited. It also works as shortcut to zone navigation. (See *navigation through zones* on page 7 - 8). It displays the current temperature of the zone where the Blueface is located.

**User settings:** From this parameter you can control several functions such as the language, the screen brightness, the screensaver, etc. (See page 8 - 9).

**Set-point temperature:** Press on the temperature to set the set point. (See *air conditioning control* on page 6).

**Relative humidity:** It indicates the humidity of the zone.

**Air conditioning control:** Control menu of the basic functions of Airzone systems.

**Time schedules:** In this menu, you can program your Airzone system and activate/deactivate time schedules. (See *time schedules*, page 10).

**System consumption** It provides information about the consumption of your system.

**Zone settings** Sleep, anti-freezing and other parameters depending on your type of system (see page 11).

**On/off.** On and off of the zone where the thermostat is located.

## HOW TO USE THE BLUEFACE

### Air conditioning control



**On/off:** Press this icon to switch on or off the zone where the thermostat is located.

**23.5° Temperature control:** Press on the temperature and use the - and + icons to select the desired set-point temperature (accuracy:  $\pm 0.5^{\circ}\text{C}$ ).

The available ranges for heating mode are: 15-30° C. For cooling mode, they are: 18-30° C. These ranges may vary depending on the level of efficiency (Eco-Adapt) set on the master thermostat.



**Operating modes:** It displays the operating mode of the system. This parameter can be accessed from your master thermostat. The available modes are:



**Stop:** The air conditioning system will be off regardless of state of demand of the rest of the zones.

 **Cooling:** In this operating mode, the system works exclusively in cooling mode when any of the zones is generating demand (Setpoint T < room T).

 **Heating:** In this operating mode, the system works exclusively in heating mode when any of the zones is generating demand (Setpoint T < room T).

 **Eco-Adapt saving function** It offers several energy efficiency levels and also adapts the temperatures to make your system more efficient. Eco-Adapt sets limits based on the level of efficiency:

#### Efficiency indicator

Depending on the operating temperature, the Blueface displays a range of colors that reflects the level of efficiency of the system:

Green: very efficient.  
Yellow: efficient.  
Orange: inefficient.  
Red: very inefficient.

 **Disabled:** In this option, there are no saving limits. The available temperature ranges of temperatures are the ones allowed by the system: 15-30 °C in heating mode and 18-30 °C in cooling mode.

 **Manual:** It sets the temperature limits of the zones according to the temperature set in the Master thermostat.

 **A.** It sets the saving limits for saving heat in 24 °C to 30 °C, for cold between 15 and 22 °C.

 **A+.** It sets temperature limits to raise the level of energy efficiency: 25-30 °C in cooling and 15-21.5 °C in heating.

 **A++.** It sets limits to reach the highest level of efficiency. Cooling: 26-30 °C; heating: 15-21 °C.

 **Navigation through zones:** Press on the name of the zone and you will access the list of zones of the system. Once there, you will find information about the state of each zone. You will also have the possibility to switch on or off zones.

Moreover, you can control all the parameters of a zone just pressing on it.

 Air conditioning control: on/off; temperature, mode, etc.

 Time schedules: create a time schedule or activate/deactivate an existing one. (See page 9 y 10).

 System consumption. (See page 11)

 Zone settings. (See page 11)

**Edit names:** Press and hold on the name of the zone to access the name editor. Then, change the name.

**Remote zone icons:**  
 Exit zone. It closes the zone and returns to the main zone.

If you want any of your changes to apply to the rest of the zones, press the option "**all zones**" and make all your changes.

 It returns to the list of zones.

## User settings

Use this parameter to control and change all the basic functionalities. Touch once to display the shortcuts. Press on the icons to access the parameters.

 **Language/Country:** Select your language.

 **Brightness:** You can set the brightness intensity and determine whether want to activate the screen brightness while the screensaver is displayed or not.

 **Date and time:** Press on the clock to set the time, the format type (12 or 24 hours) and if you want the system to change the time automatically. Press on the calendar to set the date.

 **Clean screen:** Select this option if you want to clean the screen. The screen will lock for a few seconds in order to help you clean it.

**Screensaver** You can define the information displayed on the screensaver. Depending on your system configuration, you can select:

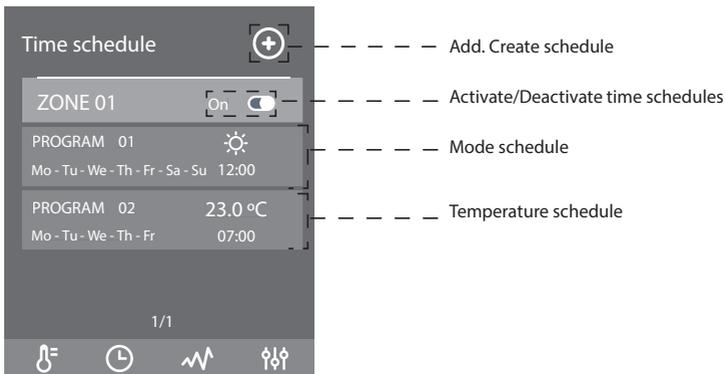
- State of the zone: it displays information about the state and configuration of the zone.
- Weather information: Only available with Webserver Airzone Cloud.
- AC unit consumption: only available for computers with consumption reading.
- If you disable the information option, only the time and state will be displayed.

**Information.** This parameter provides information on:

- Zone: firmware, zone, association, actuator or status of the communications.
- System: firmware, settings and information about the system controllers.
- Devices: It displays the elements connected to the system.
- Webserver: How to configuration and how to associate it, IP address and MAC address.
- Errors: Warnings on system incidents.

## Time schedule

If you press the time schedule icon, you will access the menu where you can schedule your air conditioning:



Use the Add icon to apply a time schedule to a zone.

First, select the type of time schedule you want to apply. There are two types of schedules:

- **Mode:** It allows you to choose the operating mode (only available for Master Blueface).
- **Temperature:** It allows you switch on/off or activate a zone with a certain temperature.

Once you have selected the type of schedule, please configure it (day, time, action).

In addition, you can change the name of any schedule just pressing on it.

Finally, activate or deactivate the schedules using the on/off selector. When you activate a schedule, the schedule icon is displayed as usual. ⌚ If you deactivate it, the icon will be displayed as crossed out. Also, the list of schedules will be deactivated although visible. ⌚

To configure the schedules, press on the one you want to modify and then change all the parameters that you want.

If you press and hold on any schedule, you will see all the features you can act on:



Edit: You will access the name edition menu.



Delete: It deletes a schedule.



Copy: You can copy a schedule to apply it in any other zone.

## System consumption

This menu displays information about the amount of time of demand of the zone and also about the operation of the system during the day.

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## Zone settings

From this menu you can act on:

 **Sleep Mode:** The Sleep mode works as an auto power-off Eco-timer of the zone. These are the values you can select:

- **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, although the zone is off. (It will not activate in Stop mode)

 **Lite settings:** You can use this parameter to define base set-point temperature for zones with Airzone Lite. Besides, you can also configure your wired Airzone Lite cable to act as wireless (the LED light will switch off after a few seconds).

**Note:** To access this parameter, you have to access any zone controlled by a Lite thermostat through the zone navigation.

## Warnings and errors in the system

Airzone Blueface thermostat displays all the system warnings in your screensaver. Besides, if there is any error, it will be displayed on the screensaver, on the main screen and on "Errors", in user settings.

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### Warnings

**Anti-freezing:** It will be displayed in case of activation (see *zone settings*, page 11).

**Drew:** This alert warns of a risk of water condensation and the zone has been shut off, turning on the dehumidifier if it has been installed. Only available in systems with radiant stages in cooling mode.

**Battery.** Low battery warning. You will know the zone the warning comes from by pressing on the icon.

### Incidents

The system has a mechanism to control all the incidents. If any message error is displayed, please contact your installer.

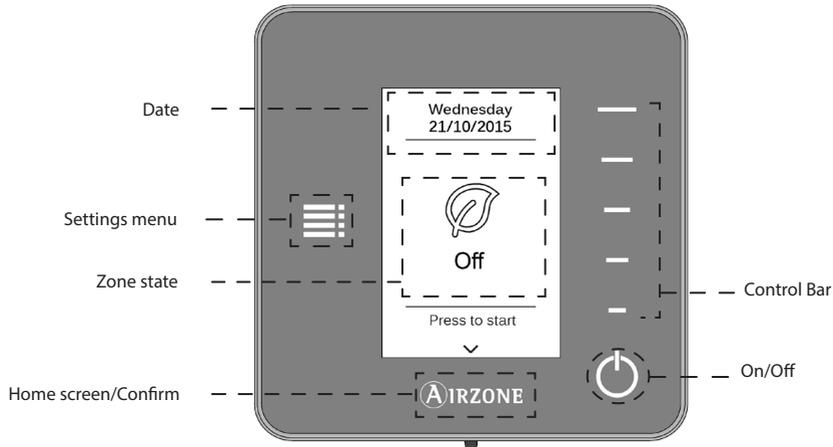
Once the incident is solved, the error warning will disappear from the screen.

## 2 AIRZONE THINK

### How to use the Airzone Think

#### Screensaver

When the screensaver is displayed, you will see the following information:



**Date:** Informative parameter defined by the master controller in user settings (see *user settings (Airzone Blueface)* on page 8 - 9).

**Settings menu:** The sleep mode parameters can be configured at any time. If you have a Master Think, you can change the mode. (See page 16).

**Zone state:** It displays information about the general settings of the zone: the state (on/off) and the operating mode. In case of failure, it also displays all the errors (see *warnings and errors*, page 17).

**Control bar:** It adjusts (by pressing or by sliding) all the parameters controlled by the Think.

**Airzone:** A button used to confirm and return to home.

**On/off:** On/off of the zone where the thermostat is located.

## Home screen (temperature control)

Press on the Airzone icon once to deactivate the screensaver and go to home. Once there, you will find the following functions:



**Operating modes:** It displays the operating mode selected from the Master controller (or from the Think thermostat if configured as Master). These are 5 available modes: cooling, heating and stop (see *settings menu* on page 16).

**Eco-Adapt saving function:** It defines the level of energy efficiency set by the Blueface.

**Zone/Room temperature:** It displays the zone where the thermostat is located. Its name is defined from the Master Blueface thermostat. It displays the room temperature of the zone.

**Settings menu:** The Sleep mode parameters can be always configured. If you have a Master Think, you can change the mode. (See page 16).

**Set-point temperature:** It displays the temperature set from the Think control bar (see *temperature control* on page 15).

**Relative humidity:** Indicator of the humidity of the environment.

**Sleep Mode:** Indicator of the state of the Sleep mode (set from settings menu or from the Blueface).

**Time schedules:** It displays the state (on/off) of the time schedules of the zone. It is set from the Blueface.

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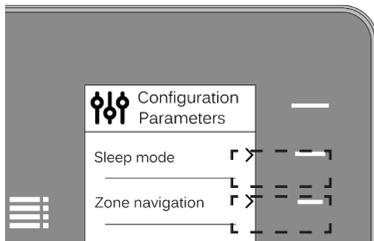
**Control bar:** It adjusts (by pressing or by sliding) all the parameters controlled by the Think.

**Airzone:** A button used to confirm and return to home.

**On/Off:** On/off of the zone where the thermostat is located.

## USING AIRZONE THINK

### Navigation



To navigate through Airzone Think thermostat, follow the instructions you will see in the screen. Press the side buttons on the control bars to execute the instructions. ▶ < > ∨ ^ - +

### Basic functions



**On/off:** Pressing the icon, you will switch on or off the zone where the thermostat is located.

**23.5° Temperature control:** Select the set-point temperature (0.5 °C) using the control bar.

These are the available ranges for heating mode: 15-30 °C. For cooling mode: 18-30 °C. These ranges may vary based on the efficiency level (Eco-Adapt) selected on the master interface.

## Settings menu



Thanks to this parameter, you can set with the control bar the Sleep mode values: the Sleep mode is an auto power-off timer of the zone. These are the values you can select:

- **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 one more degree its temperature. Finally, after 90 minutes, it switches off the zone.

If your Think is configured as Master, you can change the operating mode.



**Stop:** The air conditioning system will be stopped regardless of the state of the rest of the zones. Moreover, all the terminal elements (grilles, dampers, etc.) will stay closed.



**Cooling:** In this mode, when any zone is generating demand (Set-point  $T < \text{Room } T$ ), the system operates exclusively in cooling mode.



**Heating** In this mode, when any zone is generating demand (Set-point  $T > \text{Room } T$ ), the system operates exclusively in heating mode.



**Zone navigation.** Access any zone of the system to change the set-point temperature, switch it on or off or see all its information.

## Warnings and errors of the system

The Airzone Think thermostat screensaver displays several system warnings.

### Warnings



**Battery.** Low battery warning.

**Anti-freezing:** It will be displayed in case of activation (see *zone settings*, page 11).

**Drew:** This alert warns of a risk of water condensation and the zone has been shut off, turning on the dehumidifier if it has been installed. Only available in systems with radiant stages in cooling mode.

### Incidents

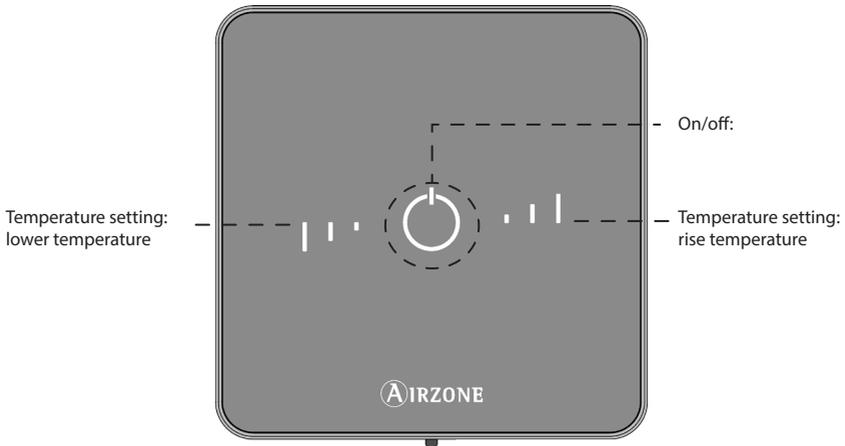
The system has an error-control mechanism. If the system displays any error, please contact your trusted installer.

### 3 AIRZONE LITE THERMOSTAT

#### GETTING TO KNOW YOUR AIRZONE LITE

The Airzone Lite thermostat allows you to easily control the temperature of the zone.

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**On/off:** On/off of the zone. In addition, it indicates the operating mode by using different colours. (see *On/off* on page 19).

**Temperature settings:** You can increase or lower by 3°C the set-point temperatures set in the Master interface (see *temperature control* on page 19).

## USING YOUR AIRZONE LITE

### Basic Functions

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**On/off.** By clicking on the icon will turn on or off the area in which the thermostat is located. This button also works as indicator of the operating mode. It follows a colour code system:



**Purple:** Stop mode.



**Red:** Heating mode.



**Blue:** Cooling mode



**Green:** The set-point temperature has been reached.

Your thermostat will be **on** if the icon is **constantly lit** in any of the above-mentioned colours. After about 10 seconds, your wireless Airzone Lite will switch off. In case of wired Lite, you can configure this option in the Blueface: *Lite settings* (see *zone settings* on page 11).

The thermostat is switched **off** when the icon **flashes** to touch the interface. After about 10 seconds, your wireless Airzone Lite will switch off. In the case of having a wired Lite, you can configure this option in the Blueface: *Lite settings* (see *zone settings*, page 11).

**Temperature Control.** Using the buttons, in probe settings, you can rise or lower (up to 3 °C, in intervals of 1 °C) the set-point temperature with regard to the one set in the Blueface. (See *zone settings*, page 11).

The Leds indicate the set-point temperature.

In the event that it exceeds the permissible temperature limit, the icons to adjust the temperature will flash indicating the limit has been reached.

### Errors



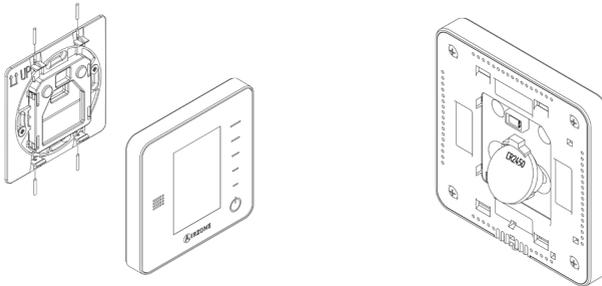
**On/off icon flashing red quickly.** Loss of communication with the central.

## ABOUT THE BATTERY

Blueface thermostats and Think thermostats will display on their screen a battery alert when their batteries are dying. Lite thermostats also report when their batteries are dying but on the Blueface thermostat display.

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In order to replace the battery, please remove the thermostat from its support and then replace it (CR2450).



**Important:** We recommend using of top-brand batteries. Using low-quality batteries may reduce the duration of use.

We recommend using of top-brand batteries. Using low-quality batteries may reduce the duration of use.

**Note:** Do not forget to remove the security system before taking away the thermostat from the wall.



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