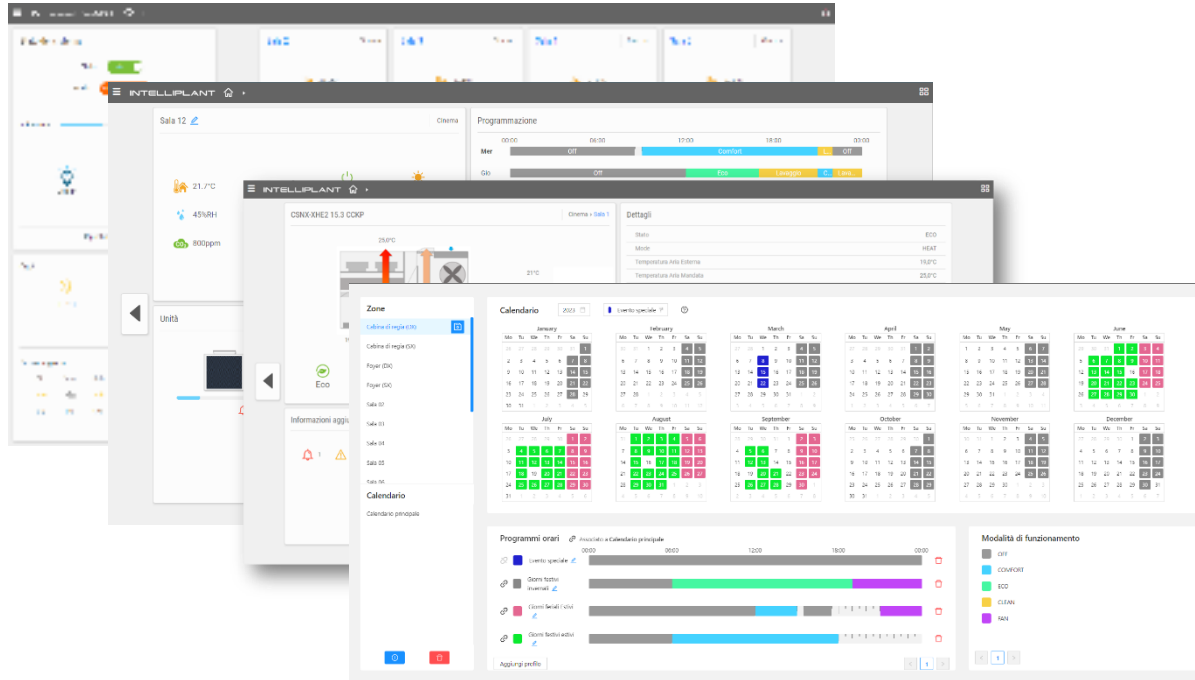


INTELLIAIR CLIVET

USER MANUAL





Main start-up page

INTELLIAIR is displayed on a touch screen platform inside the control box.

When logging in for the first time, you are asked to enter your user name and password: there is a default account.

After entering your user name and password, you will access the “Plant Schematic”, which provides an overview of the situation of the zones.

There are 2 categories of users used in the plant:

- Operator (Designer, Energy Manager)
- Administrator (Facility Manager, Plant Manager, Maintenance Head, Maintenance Operator, Receptionist)

The Operator has read-only permissions, while the Administrator has read/write permissions.



Accessing graphic pages via the App

INTELLIAIR's graphic user interface functions can also be accessed with "home" consisting of clickable buttons (apps) with specific modes.

The available apps can be accessed by clicking on the  icon in the top left corner.

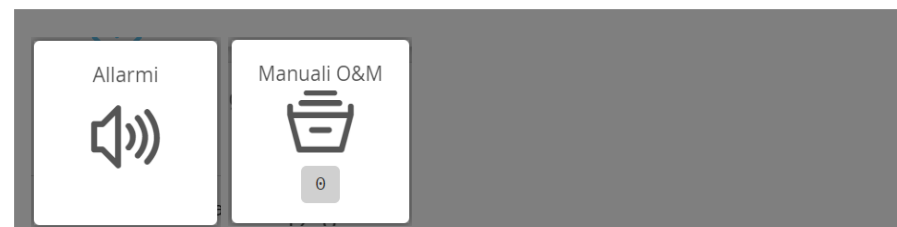
The apps are divided into 2 categories:

INTELLIAIR



Allows you to access the system operation status screens

USER APPS



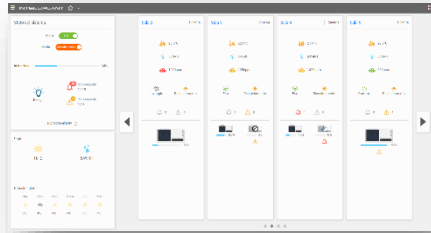
Allows you to access the auxiliary functions

Notes

The apps available depend on the type of user and the system's functions. Depending on the permissions assigned to the user, certain apps will be visible.



Plant Dashboard – System status

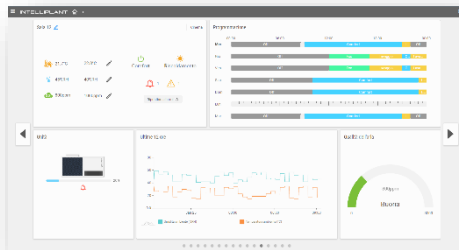


General display of plant parameters:

- Plant control
- Weather
- Information on current zone operation



Zones

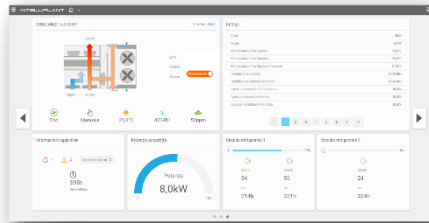


General display of zone operation:

- Zone mode setting (Comfort / eco temperature setpoint, humidity setpoint, air quality setpoint)
- Operating mode
- Time schedule
- Operation of units in the zone
- Temperature, humidity and air quality (expressed in ppm/100) trends over the last 12 hours
- Graphical indication of current air quality



Unit

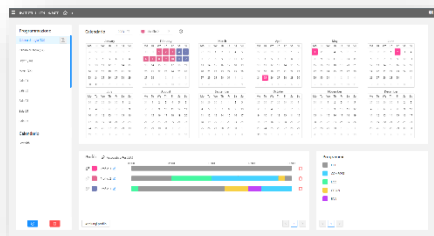


Displays the operation status of each unit and allows the main controls to be set:

- Unit settings (Mode: Cooling / Heating / Auto – Mode, operating mode: Off / Comfort / Eco / Washing / Ventilation, control mode: Manual / Programmed, heating / cooling setpoint, humidity setpoint, air quality setpoint)
- Complete operation statuses
- Additional information (active serious alarms, active slight alarms, hours of operation)
- Power input of the individual unit
- Status and load of compressors for each circuit and power output in percentage



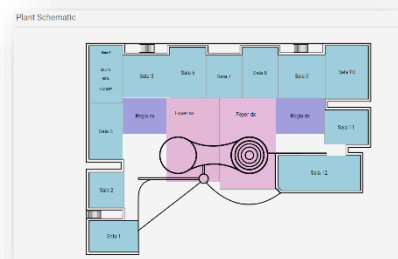
Daily programming



It enables hourly zone programming to be changed and events linked to a shared calendar to be created.



Plant Schematic - Plant diagram



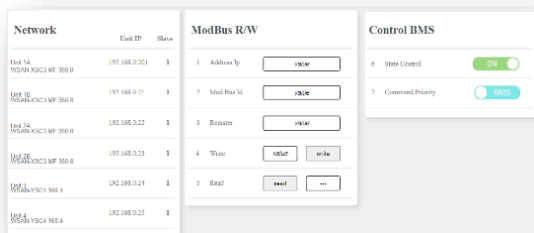
A floor plan of the building is displayed, showing the division into zones with information about each zone.

i Notes

The diagram shown varies according to each plant



Tools

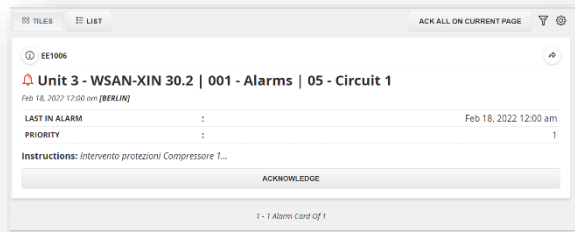


Contains diagnostics tools:

- Readout of main information directly from the built-in controller
- Modbus verification tool



Alarms

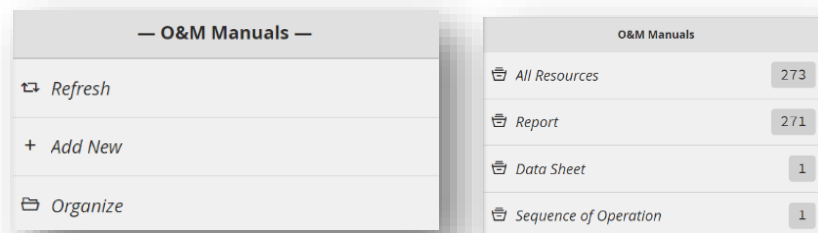


Displays high priority shutdown alarms and/or warnings.
The information given is:

- Alarm code
- Alarm description (unit that generated it)
- Date and time of last event
- Priority
- Alarm description

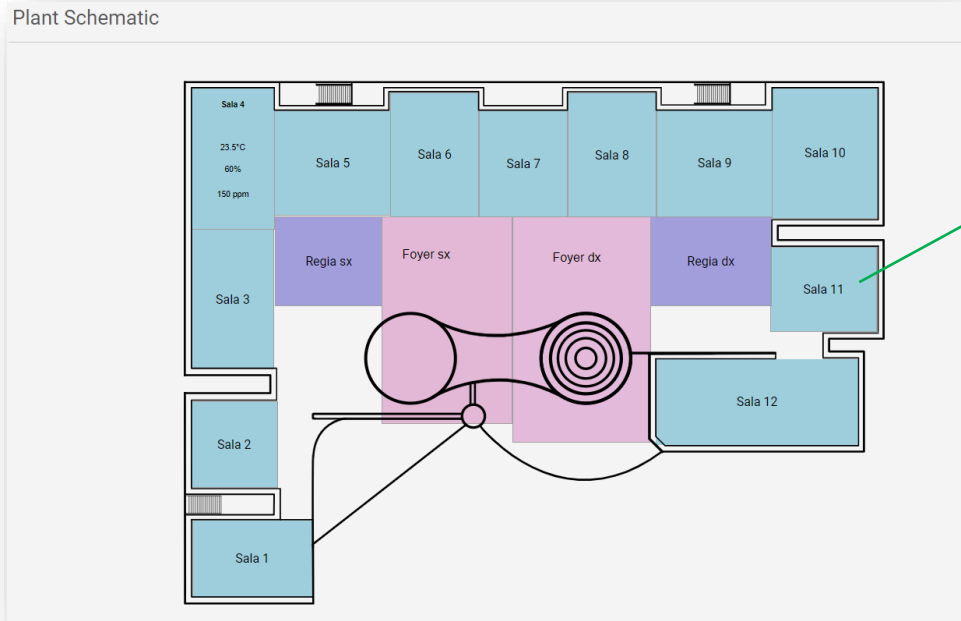


O&M Manuals



Contains documents that are useful in the plant, such as technical manuals, wiring diagrams and so on.

After logging in, the first page to be displayed is the Plant Schematic and is common to all users. It shows the division into zones with data relating to the zone



Sala 04

☺

23 °C

60 %RH

800 ppm

- zone in manual mode 🖱️
- zone in programmed mode 🕒
- [Operation status](#)
- Zone temperature
- Humidity percentage
- Air quality

The colour indicates the status of the zone:
 White = no values read
 Grey = zone in off mode
 Light blue = zone in Comfort / Eco cooling mode
 Orange = zone in Comfort / Eco heating mode
 Yellow = Washing
 Purple = Ventilation

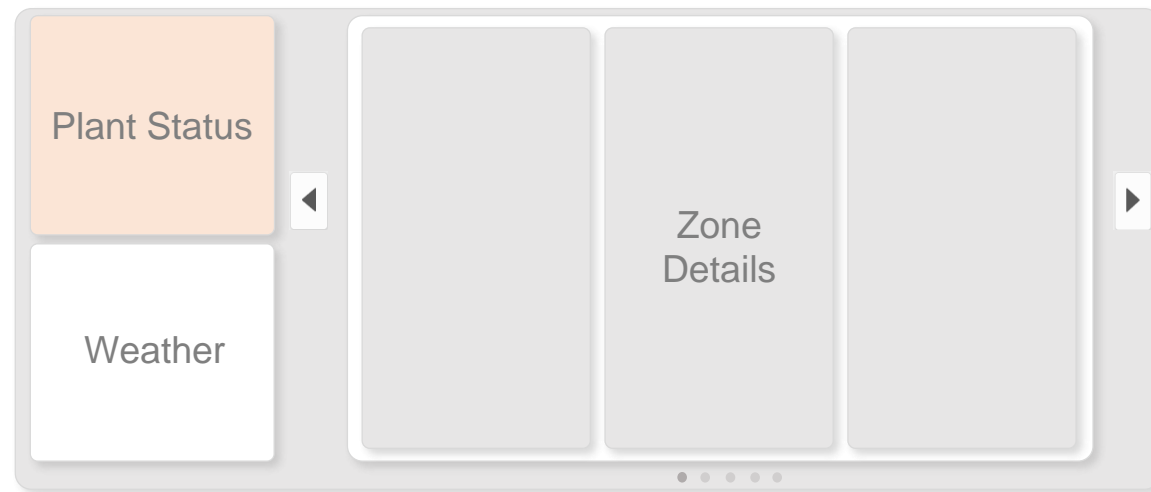
Notes
 The figure above is an example of a specific case. It will vary depending on each application. By pressing on the zone, you can access the [“Zone”](#) app



Plant Dashboard

By going to the “Plant Dashboard” page, you can see how the entire system is performing.

The page consists of 3 sections containing the information of a specific function.



From the Plant Dashboard you can access the other graphic pages by clicking the specific section.

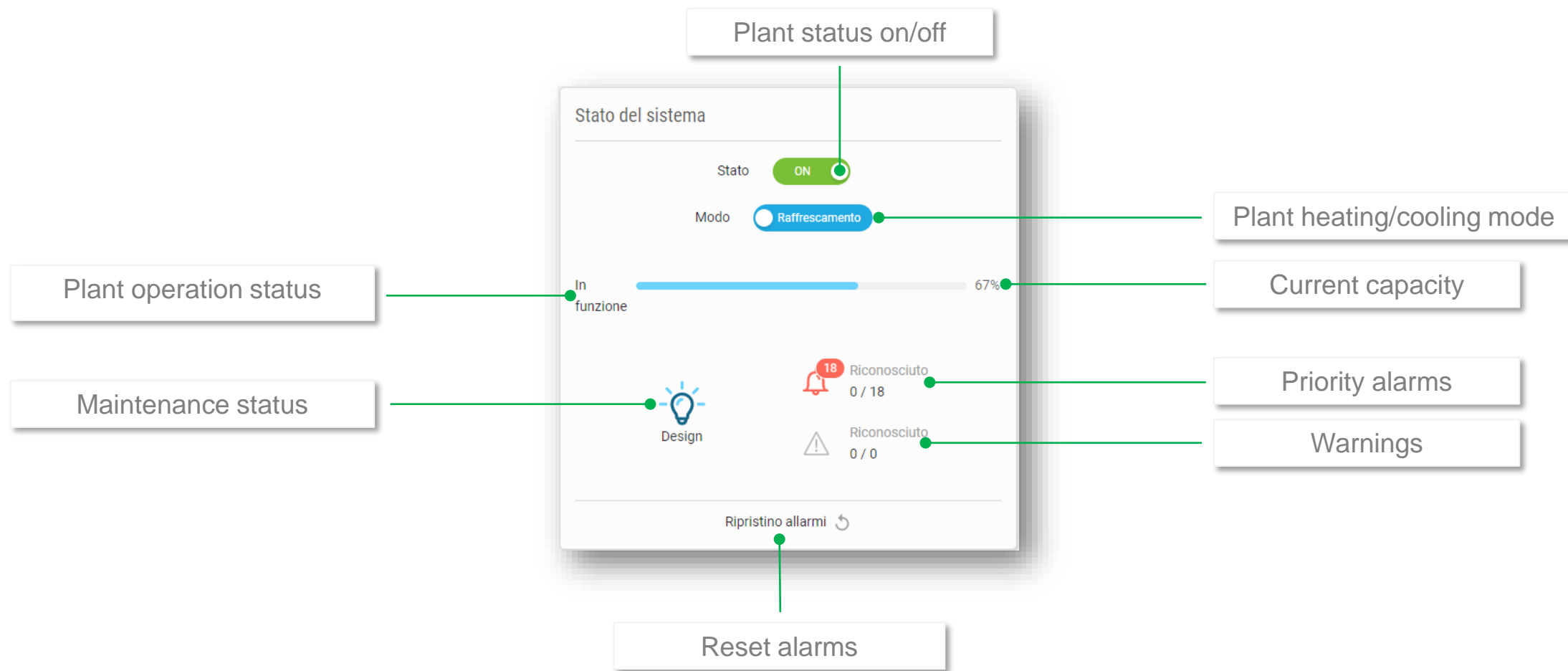
If the specific section does not open, you must enable navigation via the App (see [“Accessing graphic pages via the App”](#)).

The screenshot displays the INTELLIPLANT dashboard interface. On the left, the 'Stato del sistema' (System Status) panel shows the system is 'ON' in 'Riscaldamento' (Heating) mode, with a 34% 'In funzione' (Operational) indicator. It also lists 'Design' and 'Riconosciuto' (Recognized) alerts. Below this is the 'Oggi' (Today) weather section showing 10°C and 54%RH, and a 'Prossimi giorni' (Next days) forecast table:

Giorno	Gio	Ven	Sab	Dom	Lun	Mar
Temp	6°C	4°C	6°C	6°C	5°C	7°C

The main area features three zone panels: 'Sala 1', 'Sala 2', and 'Sala 3'. Each panel displays temperature, humidity, CO2 levels, and control options (Eco, Raffrescamento, Manuale for Sala 1; Riscaldamento, Programmato for Sala 2 and 3). A 'Zone status' callout points to the top of the dashboard. A 'Plant control' callout points to the system status panel. A 'Weather' callout points to the weather forecast section. A 'Zone navigation area' callout points to the navigation arrows between the zone panels. Another 'Zone navigation area' callout points to the navigation arrows on the right side of the zone panels. A 'Status of units linked to the zone' callout points to the unit status indicators at the bottom of the zone panels.

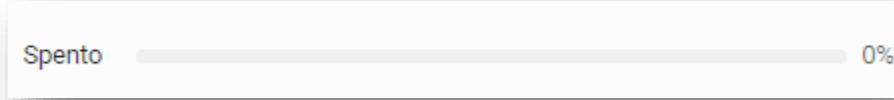
Page dedicated to a general plant check, from which you can directly access all the zones



It shows the general operation status of the system through graphic elements and icons

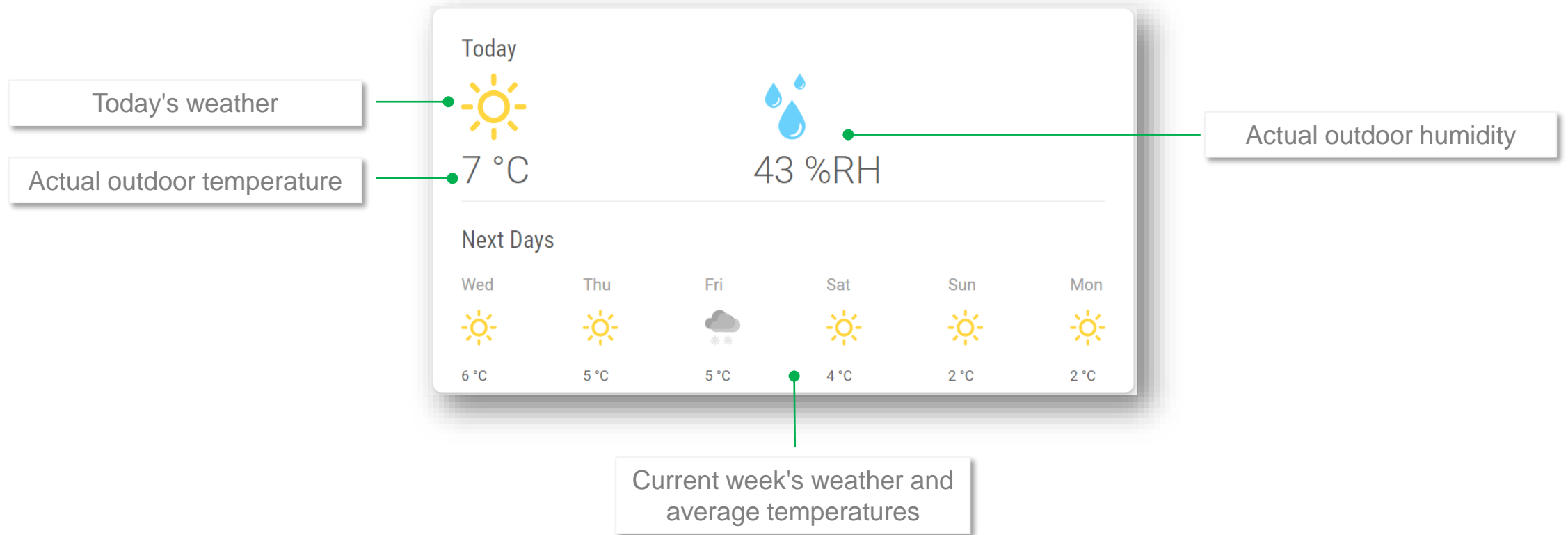
← Additional information

- The operation status of the plant may vary between:
 - In operation (as you can see in the picture on the previous page)
 - Switched off



Switching off the entire plant means that in all zones present, if they are [in “Manual” control mode](#), the operating mode is forced to “Off”, whereas if they are in “Programmed” control mode, the time programming of the zone is forced to “Off”.

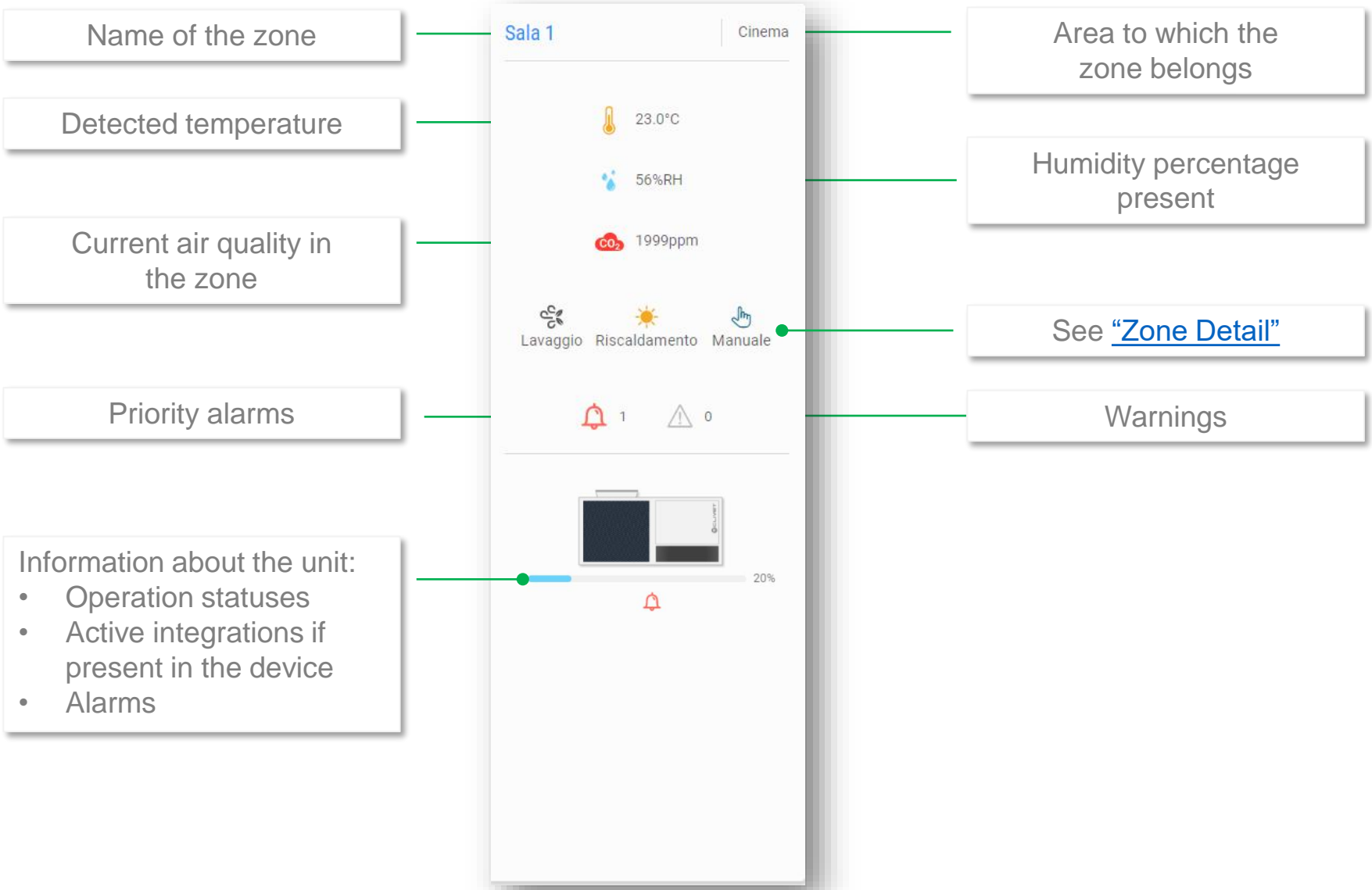
- The maintenance status takes on the value “Design” if the plant does not require maintenance, whereas if plant maintenance is required it takes on the value “Inspect”.



This card shows the actual outdoor weather conditions, and the predicted weather is provided by online services and is updated on an hourly basis.

Zone detail

i Notes
For more details on the icons relating to zone data, see ["Zone detail"](#)

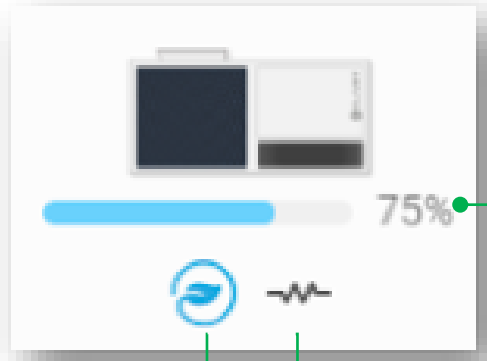
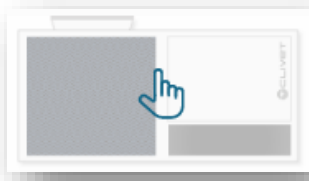


The card shows the current status of the concerned zone and the linked units

← Additional information









Information about the unit:

Unit offline Unit in manual mode






The value is an average of the capacity values used by the compressors in the unit


Operation status:

- Wash 
- Comfort in cooling mode 
- Comfort in heating mode 
- Defrost 
- Eco in cooling mode 
- Eco in heating mode 
- Ventilation 
- Off 

Integrations, if active

- Hot water coil 
- Gas 
- Heater 

i Notes

If alarms are active, an icon appears on the unit 

Button for changing the name of the zone

Hourly programming for the next 7 days (See [“Daily programming”](#))

Current temperature, relative humidity and air quality values

Link to previous page

Basic information on units linked to the zone (See [“Unit Detail”](#))

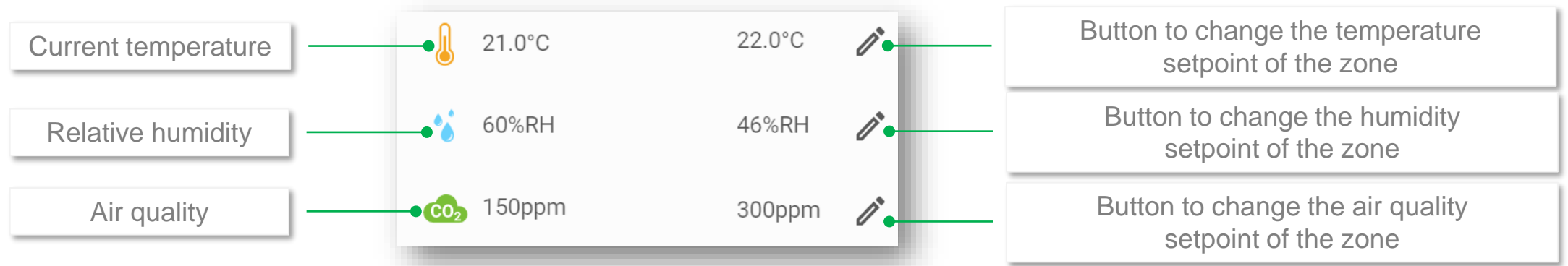
Link to next page

Air quality sensor

Temperature, relative humidity and air quality (expressed in ppm/100) trends over the last 12 hours, updated every minute

The screenshot shows the INTELLIPLANT interface for 'Sala 12'. At the top left, there is a link to change the zone name. The main area displays current environmental data: temperature (21.7°C and 22.0°C), relative humidity (45%RH and 40%RH), and air quality (800ppm and 1000ppm). Below this are control buttons for 'Comfort', 'Riscaldamento', and 'Manuale', along with alarm indicators. To the right, a 'Programmazione' section shows a 7-day hourly schedule with bars for 'Off', 'Eco', 'Lavaggio', and 'Comfort'. At the bottom, there are three panels: 'Unità' showing unit status, 'Ultime 12 ore' showing a line graph of humidity and temperature trends, and 'Qualità dell'aria' showing a gauge for air quality (800ppm, Buona).

This page displays zone data in detail, enabling set-points and operating modes to be changed

 Zone detail


- The temperature icon varies according to the set mode of the zone



If zone mode = Heating



If zone mode = Cooling

- The air quality icon varies based on the air quality value detected in the zone



Good air quality



Fair air quality



Unhealthy air quality

It shows the current values of the zone and enables setpoints to be changed

 Change zone setpoint

Setpoint di temperatura della zona

Comfort: °CEco: °C

Cancella

OK

Setpoint di umidità della zona

Umidità:

Cancella

OK

Setpoint di qualità dell'aria della zona

Qualità dell'aria: ppm

Cancella

OK

To change the temperature setpoint, temperatures can be set to Comfort mode and Eco mode.

The change can be made by going to the right of the label where the temperature value is shown and pressing the arrows


i Notes

Temperature values of between 15 °C and a maximum of 30 °C can be set

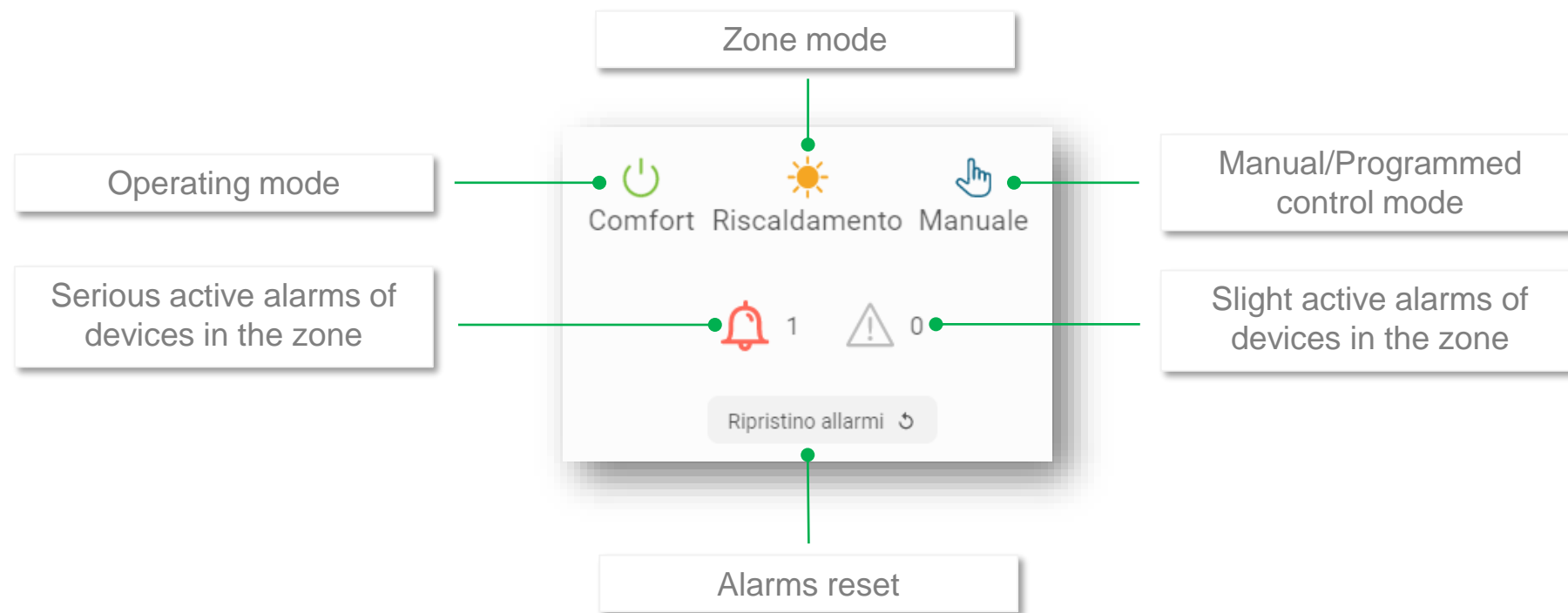
To change the humidity setpoint, it is necessary to enter a value from 0 to 100 %RH in the same way as for the temperature setpoints

To change the air quality setpoint, it is necessary to enter a value from 0 to 2000 ppm in the same way as for the temperature setpoints

i Notes

If you try to enter values that are lower or higher than those shown, the following icon will appear 

Zone detail



- The operating modes are Off, Comfort, Eco, Clean, Fan
- The zone mode can be Auto, Heating, Cooling, Auto – Mode

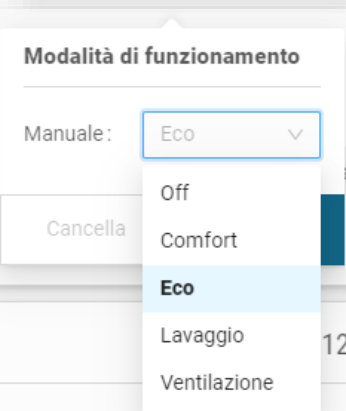
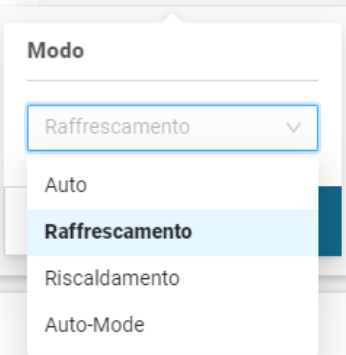
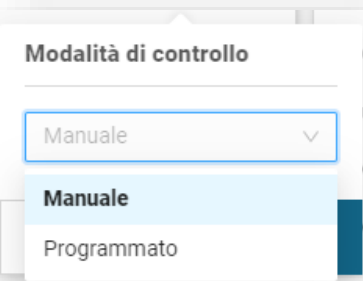
i Notes

When the control mode is manual, an operating mode can be selected; if it is not manual, the operating mode will be the one indicated by the time schedule

It shows the modes currently in use for the zone

← Change zone mode

Changes to the operating mode and zone mode can only be made if the control mode is “Manual”

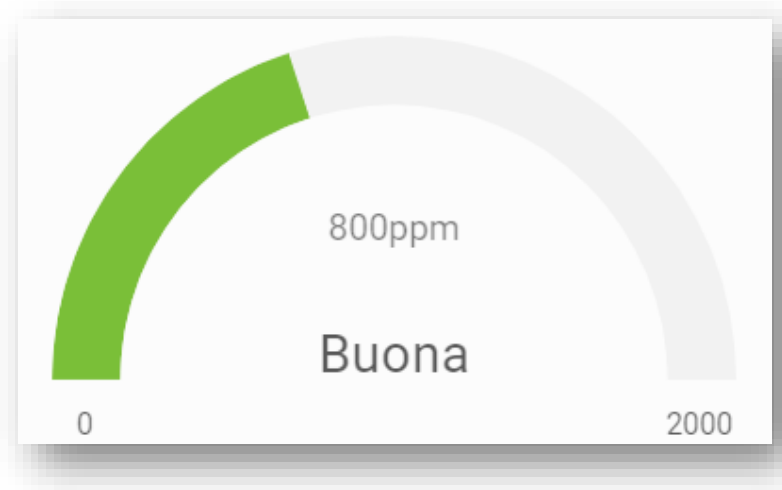
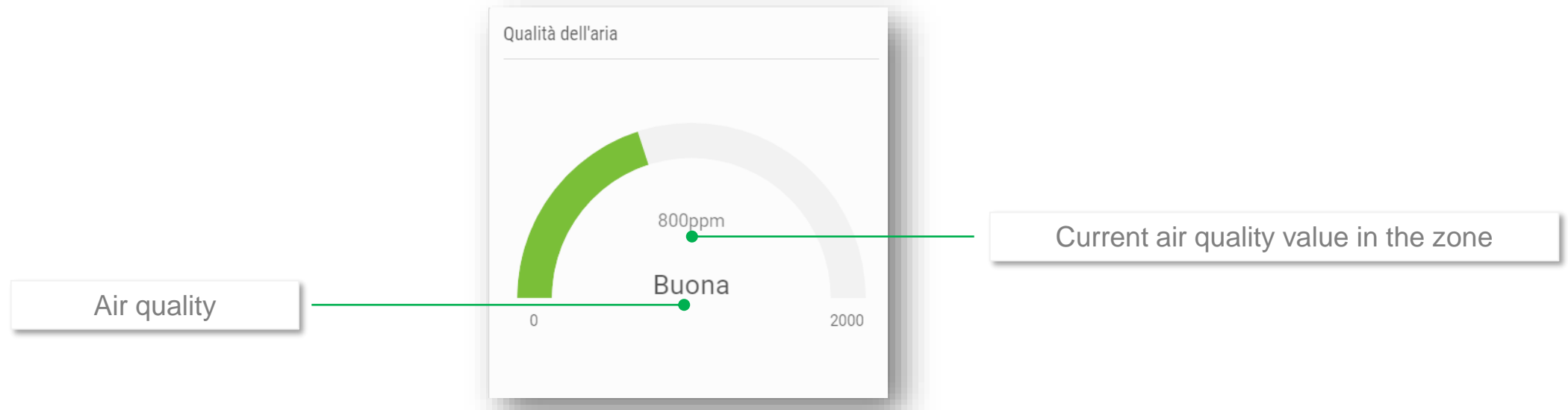


Mode = “Auto” means that the zone follows the mode set by the Plant Dashboard page, which is the general plant mode

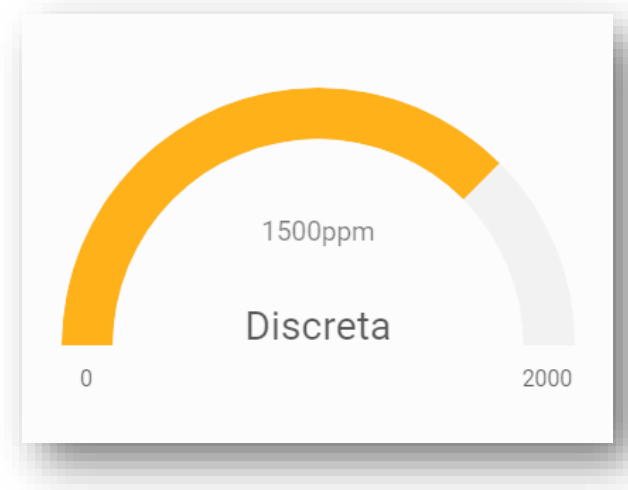
Mode = “Auto-Mode” means that the devices linked to the zone concerned regulate themselves and the zone uses the mode chosen by the device (Heating / Cooling).

i Notes

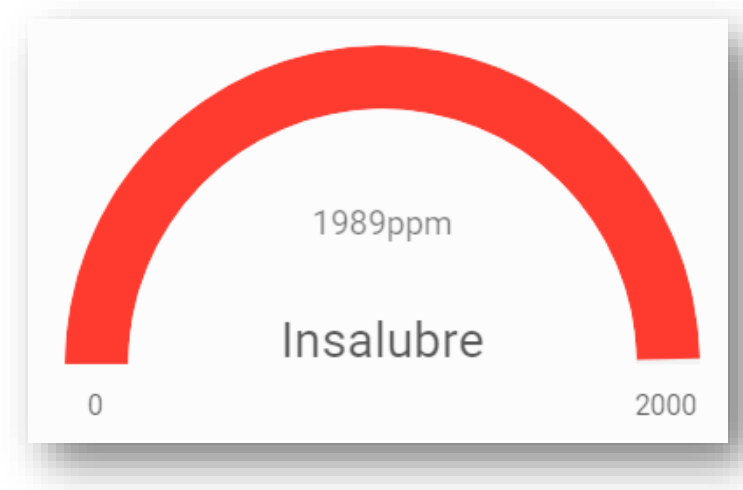
You can only use the mode “Auto-Mode” if it is present on the device



From 0 to 1000 ppm



From 1000 to 1600 ppm



Value higher than 1600 ppm

It shows air quality based on measured CO₂



Unit mode settings with picture showing air flows

Link to the previous unit

Additional info:

- Slight alarms active
- Slight alarms active
- Alarm reset command
- Hours of use of the device

Stato	ECO
Mode	HEAT
Temperatura Aria Esterna	19,0°C
Temperatura Aria Mandata	25,0°C
Temperatura Aria Ripresa Ambiente	21,5°C
Umidità Aria Esterna	37,0%RH
Umidità Aria Ripresa Ambiente	65,0%RH
Apertura Serranda Di Espulsione	50,0%
Apertura Serranda Esterna	50,0%
Segnale Ventilatore Mandata	80,0%

Main unit data

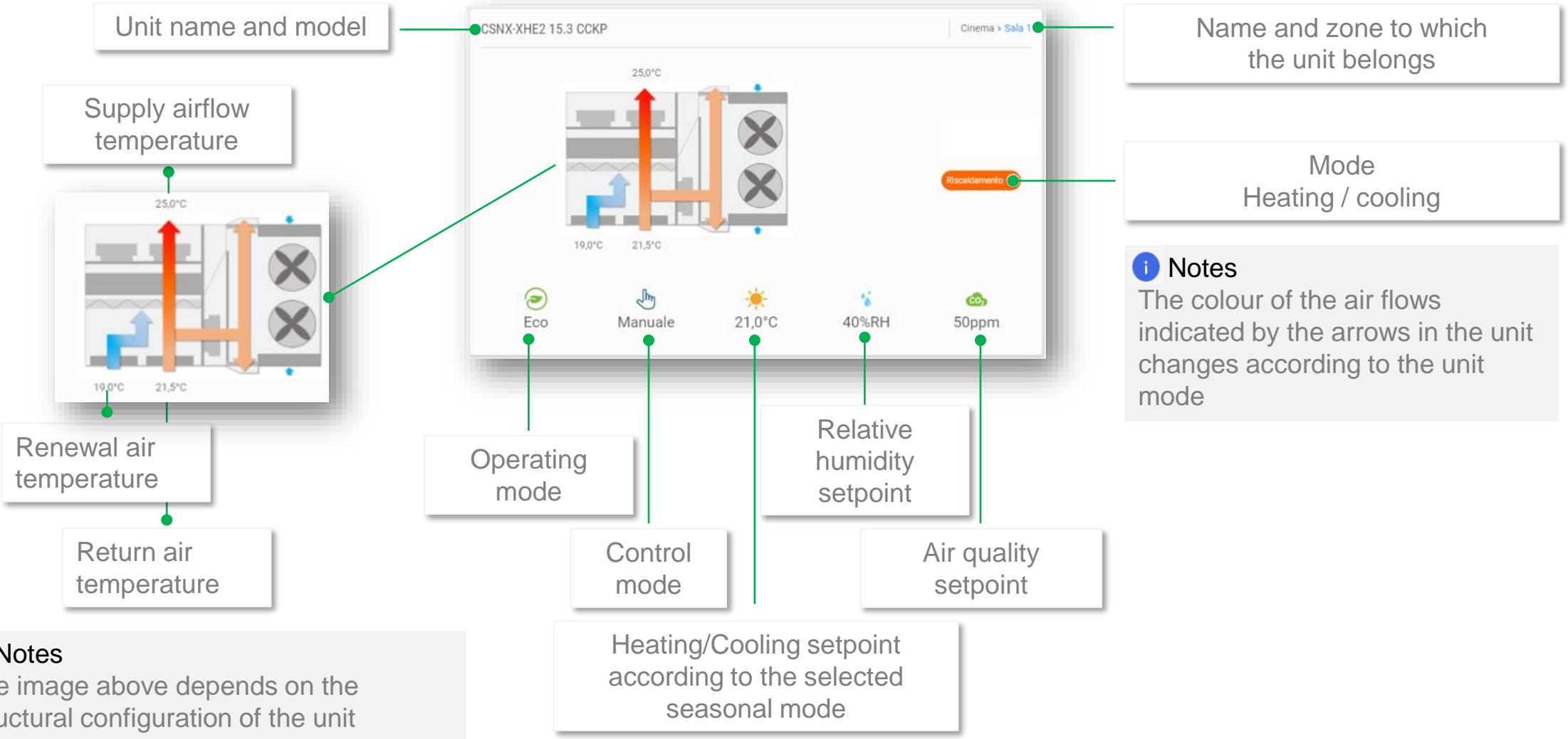
Link to the next unit

Power input of the unit in real time

Status and load of compressors for each circuit

Page containing the unit's details, such as actual status with dedicated settings, circuit details, list of main unit values, power input, hours of operation, serious and slight alarms with the option of resetting the alarms, and it is also possible to scroll through the units.

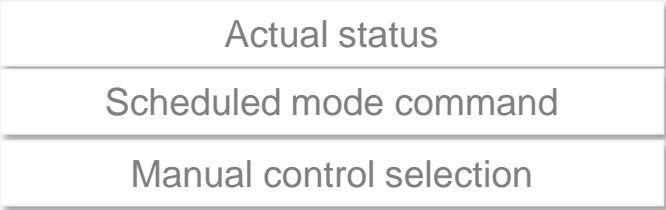
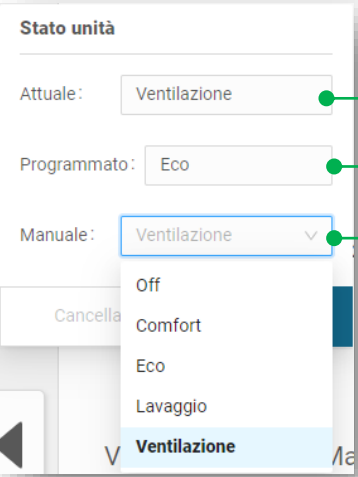
Unit detail



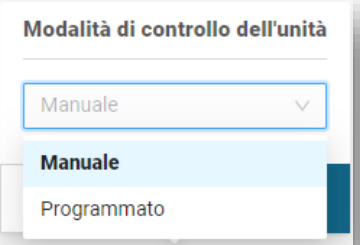
This card is dedicated to unit details with related mode settings such as unit mode, status, control mode, heating/cooling setpoint, relative humidity and air quality.

Additional information

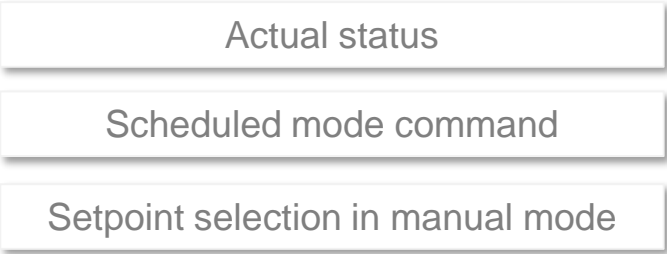
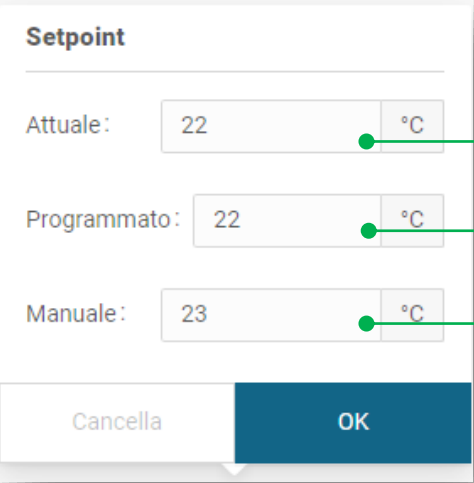
Operating mode



Control mode



Heating/cooling setpoint



The relative humidity setpoint and air quality setpoint operate in the same way.

i Notes
Manual control is the only parameter that can be changed

Unit details and circuit information

Description	Values
Details	
Temperature Air Outside	10.2 °C
Temperature Leaving Main	45.8 °C
Temperature Entering Main	45.3 °C
Temperature Leaving Main	45.5 °C
Temperature Entering Main	46.4 °C
Flow	6.8 m³/h
Power Delivered Total	23.2 kW
Power Absorbed	6.1 kW
Temperature Electrical Cabinet	0.0 °C
State	1.00

Navigation buttons: < 1 2 >

Card that displays the unit's operation values in real time

Compressor status

Circuit status

Percentage of power output

Circuit	Status	Starts	Hours
011 - Refrigerant Circuit 1	0% (Off)	1400	4668 h
012 - Refrigerant Circuit 2	48% (On)	9268	936 h

Number of compressor starts

Compressor hours of operation

The status of each circuit is shown and can either be switched off (Refrigerant Circuit 1) or working (Refrigerant Circuit 2), while the compressor status can be switched on or off

Time schedule

List of zones to be scheduled

Section dedicated to creating shared calendars between zones

Zone

- Cabina di regia (DX)
- Cabina di regia (SX)
- Foyer (DX)
- Foyer (SX)
- Sala 02
- Sala 03
- Sala 04
- Sala 05
- Sala 06

Calendario

2023

Evento speciale

Programmi orari Associato a Calendario principale

- Evento speciale
- Giorni festivi invernali
- Giorni feriali Estivi
- Giorni festivi estivi

Modalità di funzionamento

- OFF
- COMFORT
- ECO
- CLEAN
- FAN

Calendar for assigning the daily time schedule

Time schedules to be assigned to zones

Operating modes that can be assigned to time schedules

Page dedicated to automatic plant operation, with a choice of available operating modes that can be enabled at intervals of at least 15 minutes (which can be changed to 1 minute)

Usage

For annual programming:

- Go to the “Calendars” section (which contains the shared zone calendars) and press the pre-set calendar “Main calendar”

The screenshot displays the 'Calendario' interface for the year 2023. On the left, a 'Zone' sidebar lists various rooms: Cabina di regia (DX), Cabina di regia (SX), Foyer (DX), Foyer (SX), Sala 02, Sala 03, Sala 04, Sala 05, and Sala 06. Below this is the 'Calendari' section, where 'Calendario principale' is selected. The main area shows a grid of 12 monthly calendars (January to December). At the bottom of the interface, there is an 'Eventi' section with four categories: 'Manutenzioni programmate' (grey), 'Giorni festivi invernali' (red), 'Giorni feriali invernali' (purple), and 'Giorni festivi estivi' (green). A green line points from the explanatory text on the right to the 'Eventi' section.

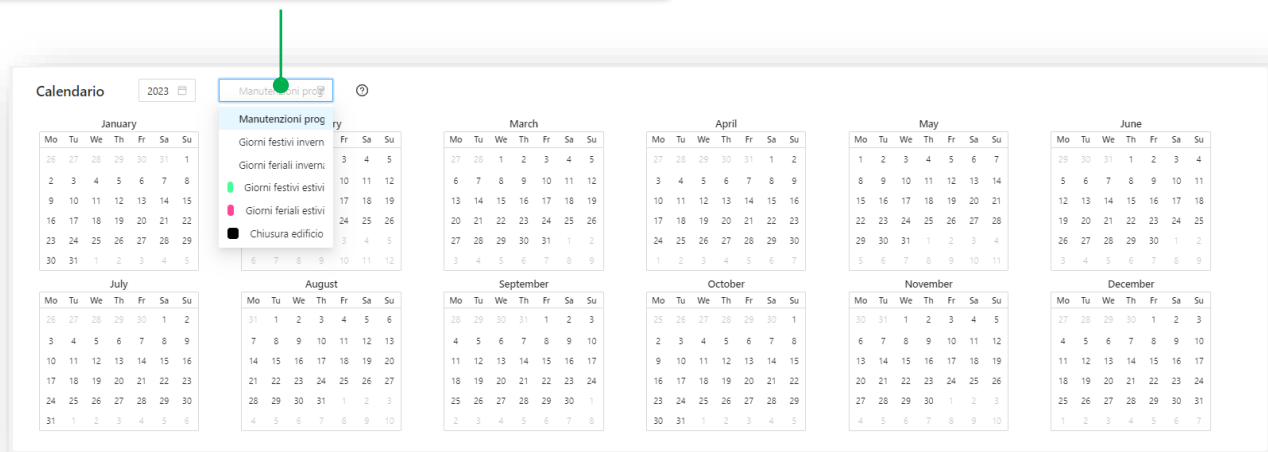
Under “Main calendar” you will find “Events”, which are specific events that will take place throughout the year and that you can already enter in the calendar above

Notes

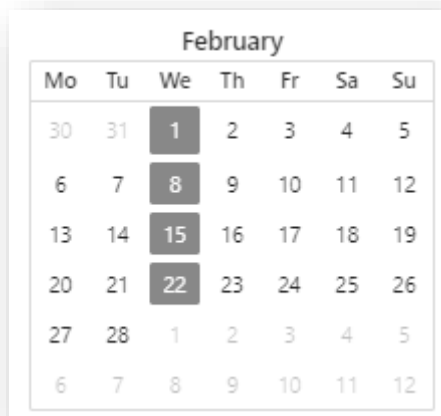
The “Events” section already contains events, so all you need to do is assign them to a day in the calendar. To edit/delete/add an event, see next page

- If the available events meet requirements

Select the event to be assigned to one or more days



A paintbrush will appear, which will allow you to select the day(s) on which to assign the profile and the cell will turn the same colour as the one assigned to the event



i Notes

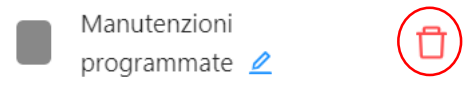
If you wish to deselect a day that you selected by mistake, either RIGHT-click the mouse once or hold the RIGHT-click down to select more than one day.

Click on the save icon next to “Main calendar”

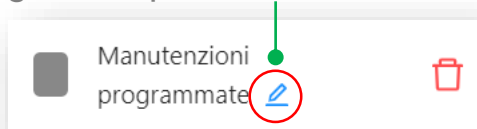
Calendario principale



If, instead, you wish to delete an event, press the red trash can next to the name of the event and press save



If, instead, you wish to rename an event, press the light blue pencil next to the name of the event and press save



To add a new event, press “Add event”

Eventi

- Manutenzioni programmate
- Giorni festivi invernali
- Giorni feriali invernali
- Giorni festivi estivi

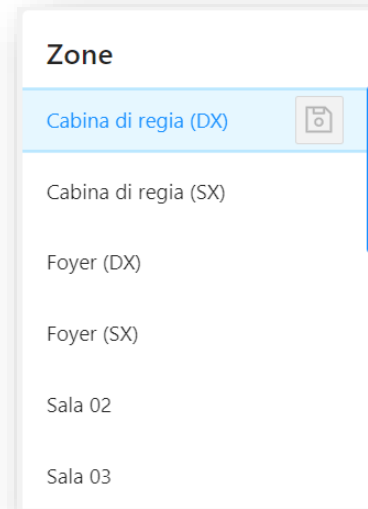
Aggiungi evento



Notes

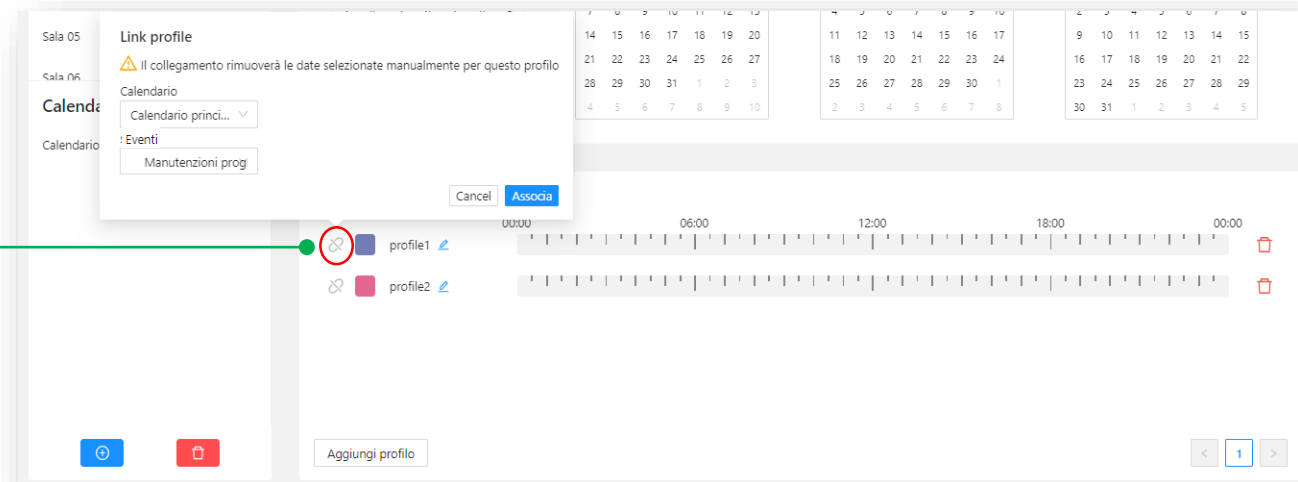
If page 1 is already full, the new event will appear after the other events

- Once you have assigned the various events, go to the “Zones” section and select the zone to which you want to link one or more events from the Main calendar



- Once you have selected the zone, the calendar will be empty. Now under “Time schedules” you must link one of the available default schedules to a calendar event

Press the icon circled in red and specify under “Events” the event to be linked to the selected time schedule.
Then press “Link”



At this stage, the calendar will feature the days related to the event linked to that time schedule

If the event has been properly linked, the icon will change as shown and "Linked with main Calendar" will appear next to the title "Hourly schedules"

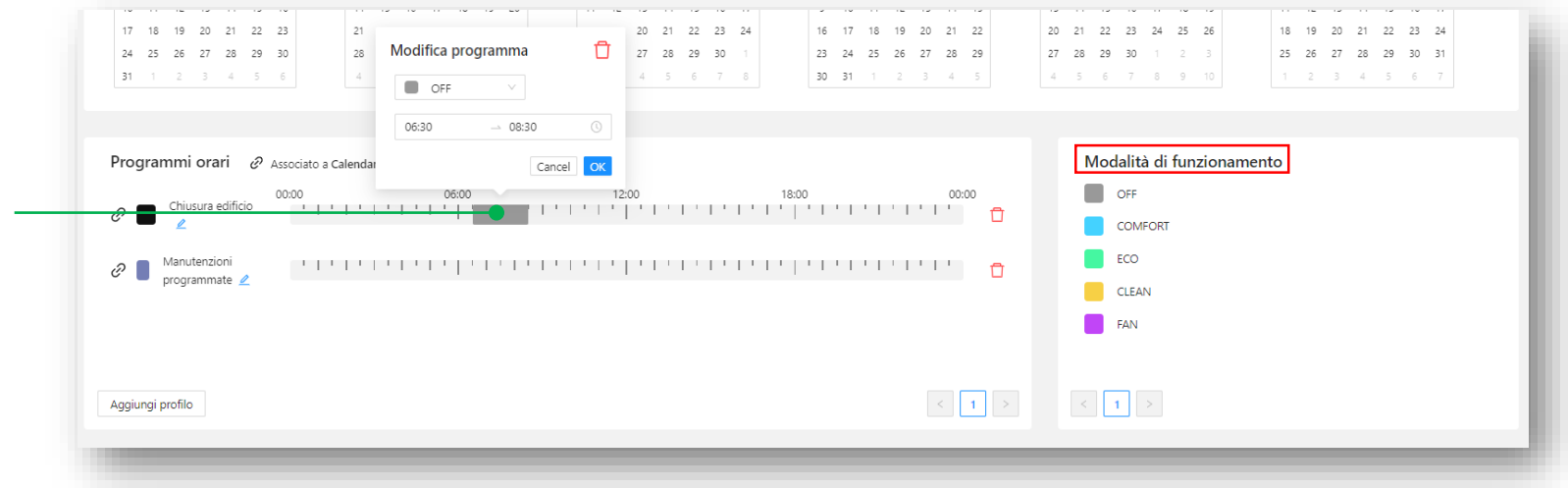
i Notes
The step described above should be repeated for EACH ZONE that links an event in the Main calendar to a schedule among those available

- Once the events have been linked to the available schedules, press the save icon next to the selected zone



- You must now assign programming to the schedules to which you have linked the event

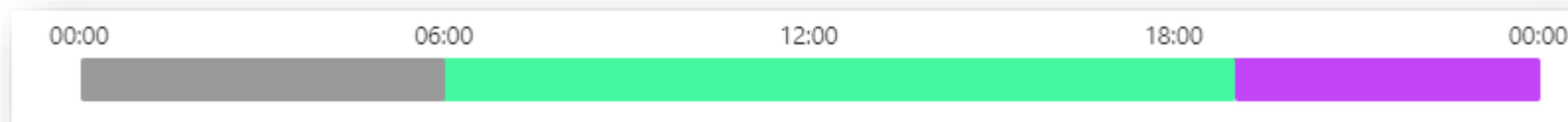
By pressing the “time bar” of the schedule you have chosen to program, the “Edit schedule” popup will appear in which you must choose an “Operating mode” (see key on the right-hand side of the page) and the time span to which the operating mode is to be applied



i Notes

- Default operating modes can be applied at intervals of at least 15 minutes, but can be changed and applied up to 1 minute
- The process of assigning operating modes to schedules must be repeated FOR EACH ZONE that is to be linked to an event in the Main calendar.

Here is an example of a time schedule showing that from midnight to 6 a.m. the zone is off, from 6 a.m. to 7 p.m. it is in eco mode, and from 7 p.m. to midnight it is in ventilation mode.



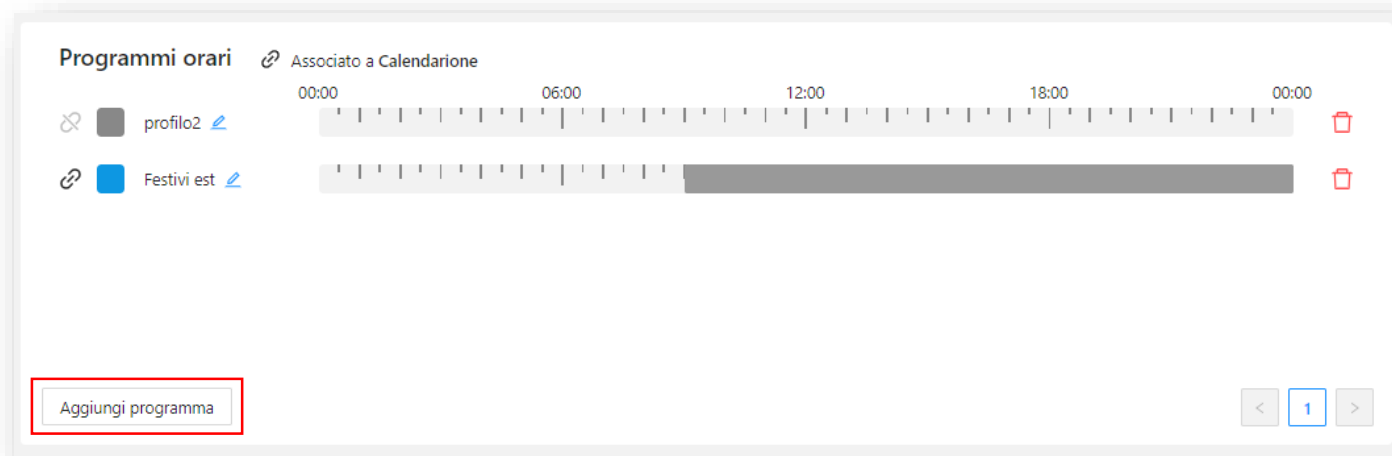
← “Special event”

The steps above must be followed if you are entering the annual programming of a zone. However, an event that cannot be planned in advance may occur, for example if an important guest comes to visit.

In this case we will use what we call a “Special event”.

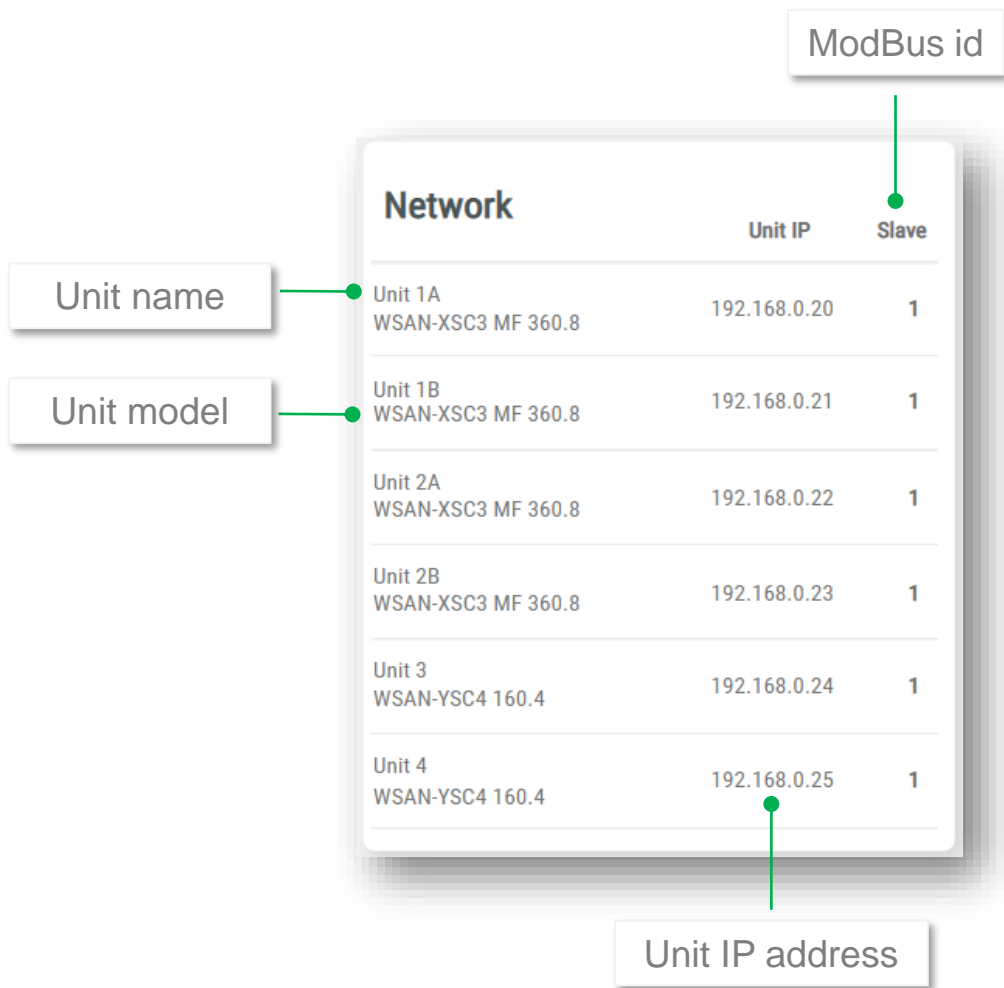
To enter a special event:

- [Select the zone](#) to which you want to apply the special event
- Go to the “Hourly schedules” section and press “Add schedule”

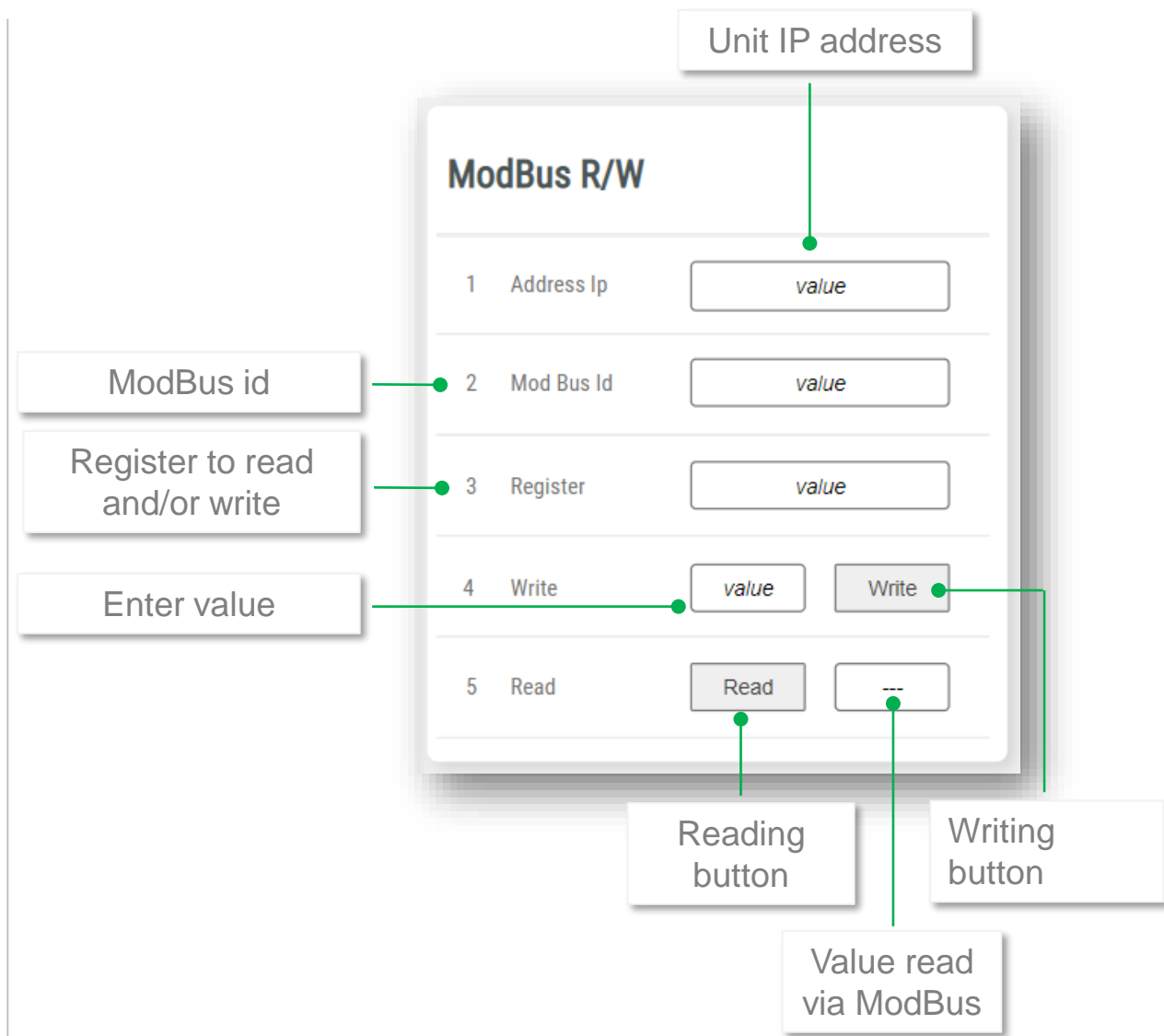


As you can see in the picture, profile2 has been added and can be renamed.

- Once you have renamed it, [assign the operating modes to the schedule](#).
- [Assign the special event in the calendar above](#) (choose the event) to the day on which it will take place



Card to read the main values, from the network point of view, of the units which are name, unit model, IP address and ModBus Id.



Tool for reading/writing a register via Modbus



Opening this app displays the list of active alarms and cleared alarms .

Alarm code

Number of times the alarm has occurred

2 options to display alarms in list format

Filter for displaying alarms

Detailed information about the alarm

Where the alarm is located and what it relates to

Last time in alarm

Information about the current alarm

FF1017 - 1

Unit 1 - WSAN-XIN 18.2 |
001 - Alarms | 05 - Circuit
1

Mar 09, 2022 09:19 am [BERLIN]

ALARM STATUS : Normal

LAST IN ALARM : Mar 09, 2022 09:19 am

PRIORITY : 2

Instructions: Minimo Rapporto Compressione...

ACKNOWLEDGE

Alarm status

Alarm priority

Button present when the alarm has not been acknowledged

Button for acknowledging all of the alarms

Options at the beginning of the alarm list

Notes

If the alarm has been displayed, the message “Acknowledged” will be shown.

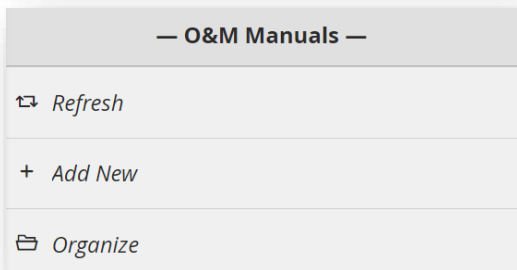
The number of times a given alarm has occurred is reset daily.

“Alarm Status” is given as “Normal” if the alarm has been cleared, and “Alarm” if the alarm is still active.



O&M Manuals is a useful app for those working at the plant as it can contain manuals, plant diagrams, wiring diagrams and useful documentation for implementing the plant. IT CAN ONLY BE ACCESSED REMOTELY.

When you click on the app, the screen looks like this:

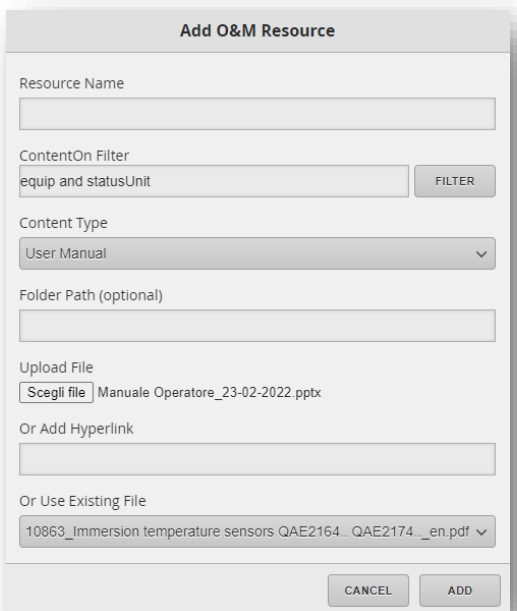


In the “Add New” section, you can add new documentation and so on.

“Organise” allows you to organise files into folders.

“Refresh” updates files and folders after a new entry.

If you have chosen to enter a new document such as a manual, it must first be added in PDF format. The screen that appears will look like this:



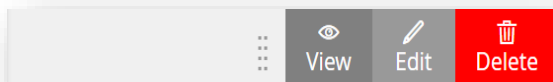
There are 3 mandatory fields to be completed: “Resource Name” where you indicate the name to be displayed when that particular file is searched for, “Content type” where you indicate the category in which the file will be put. The example is with a manual, so the category to choose is User Manual. The last mandatory parameter is the “Upload file” field where you indicate the path of the file to be uploaded.

Once these 3 fields are completed, press “add” and update the files in the “Refresh” section.



All Resources	288
Report	285
Data Sheet	1
User Manual	1
Sequence of Operation	1

O&M: User Manual	
Manuale esempio	



On the side you can see that the “User Manual” category has been added if the category was not present, otherwise it just adds an item to the category.

If you click on the corresponding category, you will find the file uploaded therein, in this case “Example manual”.

If you click on the file, you have the choice between “View” which allows you to have a read-only view of the file or you can view the file in PDF format and then download it with the “Reports Download” option. “Edit” allows you to modify the 3 mandatory settings mentioned above and other optional settings. “Delete” allows you to delete the file from the desired category.

To be able to control a plant remotely, you need to be registered with the cloud.


A new user can register as follows:

- The new user is asked by a Clivet employee for a valid email and phone number
- The employee then registers the new user to the cloud
- The new user will then receive an email containing a temporary password and will be asked to complete registration as follows:
 - Access the cloud by entering the temporary password, usable only for the first login
 - The user is then prompted to enter a new complex password
 - The user is logged in and must press the registration button
 - The user is then asked to accept the policy/terms and conditions of use by scrolling to the end and enabling the “Accept” button
 - After accepting, the user presses continue
 - The user will then be moved to the portal and can start using the system


The screenshot displays the 'Home' page of the INTELLIPLANT by Clivet portal. On the left, a dark sidebar contains navigation options: Home, Sites, and Organizations. The main content area features a summary section with two statistics: 'Devices registered' (1) and 'Total sites' (1). Below this is a map of the Feltre area, showing a green pin at 'Zona Industriale Villa Paiera' as a plant position indicator. A user profile icon in the top right corner indicates 'User logged in'. Callout boxes provide labels for these elements: 'Available pages' for the sidebar, 'Number of plants registered to the cloud' for the 'Devices registered' stat, 'Number of sites present' for the 'Total sites' stat, 'User logged in' for the profile icon, and 'Plant position indicator' for the green pin on the map.

Page that shows all the sites available to that specific user in the system and is the first page to be displayed after the first login

Other point for remote access

Display name	Status	Address	City	Region	Country	Project
 Clivet Live	OK	Via Camp Lonc	Villapaiera		IT	p:clivetLive

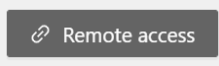

[Acceptable use policy](#) - [Privacy notice](#)

Page showing all sites with the location of the plant registered on the portal next to it, to which the user has access. Clicking on the icon  provides another way to access the system remotely. The connection status of the device to the portal is then indicated again.

Name	Type	Street	City	Postal code	Country
Clivet	Dist Partner, System Integrator	Via Camp Lonc, 25	Z.I. Villapaiera	32032 Feltre (BL)	IT

[Acceptable use policy](#) - [Privacy notice](#)

This page shows all the companies registered in the system and are called “Organisations”. Users and devices are grouped together in each organisation.

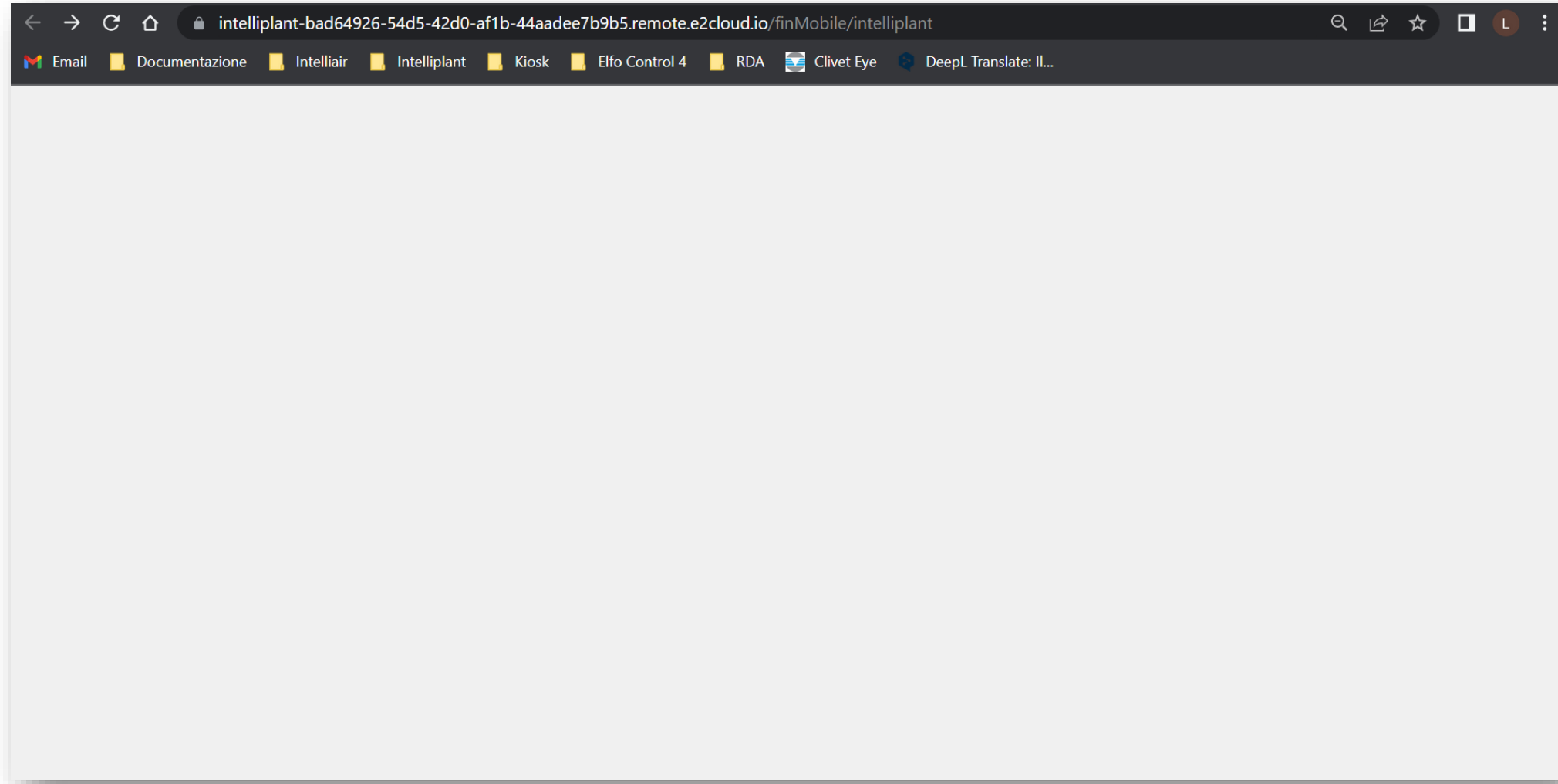
To actually control the plant from the cloud you need to press either this button  or this icon  in order to connect to the desired plant. Once you are connected, you can browse just as you would locally (see previous pages). If the device used for remote access is a smartphone, turn your device horizontally to access the app menu.

Notes

If the user has been assigned read-only permissions on the project logged into remotely, or if the user attempts to assign any settings, the  symbol will appear or the setting will have no effect.

Common problems

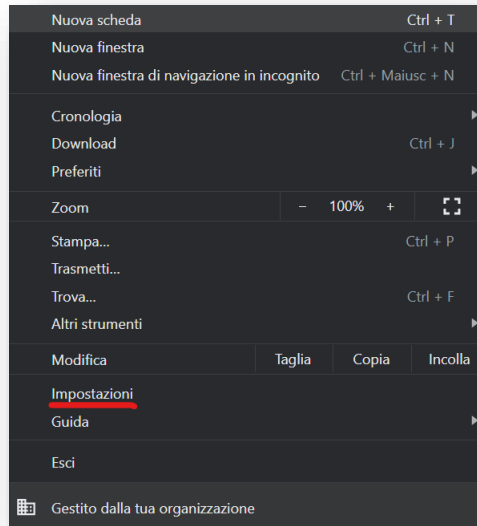
If you want to access a plant remotely and the page is blank as in the picture



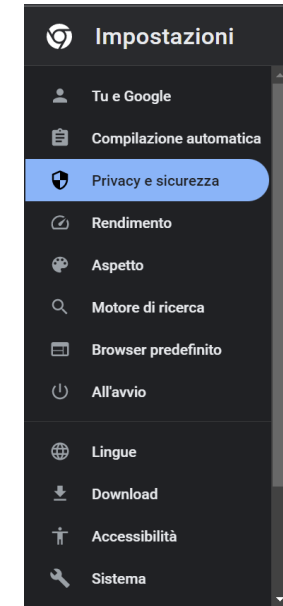
Try these 3 solutions:

- Clear the cache

Go to your browser settings (if you are using Chrome, the “3 dots” in the top right-hand corner)



Press “Privacy and security” in the menu that pops up on the left



Press “Delete browsing data”

Privacy e sicurezza

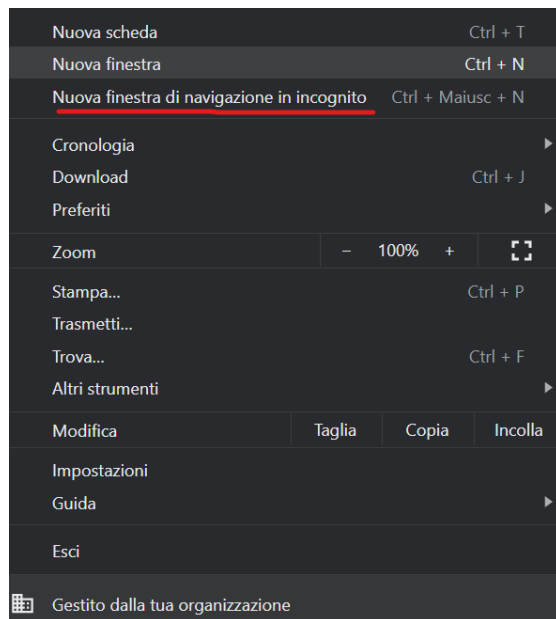


Cancella dati di navigazione

Cancella i cookie e la cronologia di navigazione, svuota la cache e altro

The menu for deleting the data will pop up and you will have to choose between the “Basic” or “Advanced” option

- Connect to the plant by entering the link on a new incognito browsing window



- Use a different browser such as Edge or Firefox

www.clivet.com

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