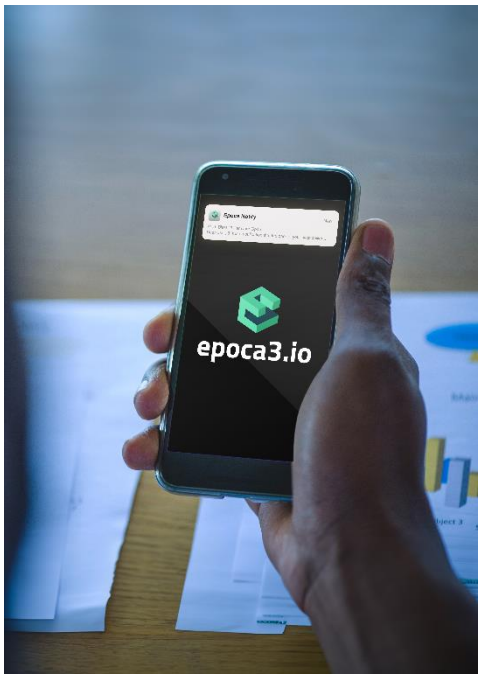

User Manual

epoca3.io

Professional solution for the remote management of refrigerated units, food equipment and air-conditioning applications.

- Cloud platform with Wi-Fi and Ethernet connection
- Alarms notifications
- Easy to configure
- Remote unit configuration and maintenance
- Sharing devices for remote service
- Modern user interface

IMPORTANT
Read this document thoroughly before installation and before use of the device and follow all recommendations;
keep this document with the device for future consultation.
Only use the device in the way described in this document.

CONSIDER THE ENVIRONMENT
Please read carefully and save this document

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Introduction

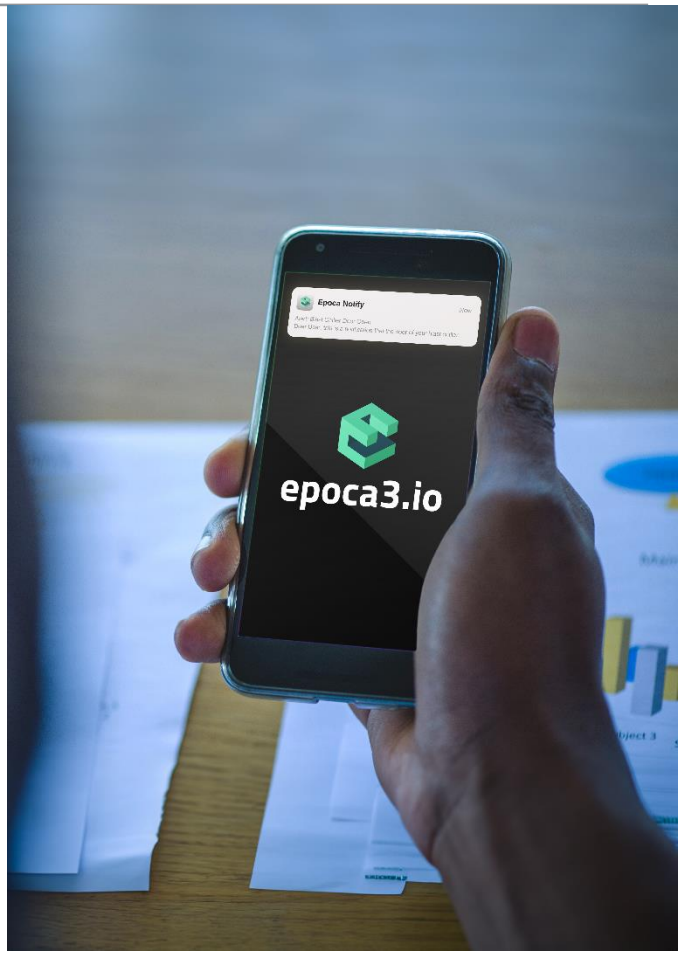
epoca3.io is a remote monitoring system based on a cloud platform which meets the needs of the food preservation and cooking industry, from refrigerated units to food equipment, as well as the air conditioning industry.

All that is needed is a simple onsite Wi-Fi or Ethernet internet connection to enable **EVCO controllers,** using **built-in connectivity**, **EVlinking Ethernet/Wi-Fi modules** or **EV3/EVD Ethernet gateways,** to connect to the cloud system, making it possible to remotely manage equipment from a PC, tablet or smartphone.

The renewed user interface has been designed to make epoca3.io a ready-to-use solution for easily accessible monitoring operations, even for entry-level users, while offering all the typical functions of professional platforms.

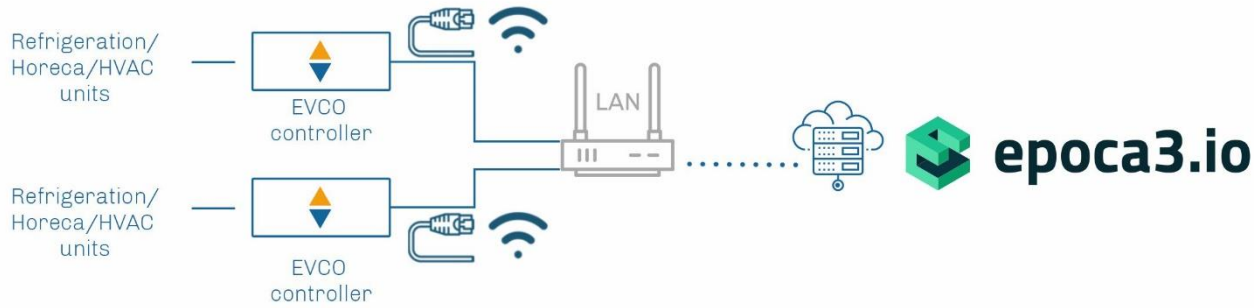
With appropriate protection measures for access and data, the system makes it possible for one or more enabled users to operate remotely on the unit to configure its parameters, start or stop working cycles, view HACCP data (also in graphic form) and download records in the most popular formats, such as XLSX, CSV and PDF.

The functions playing a key role include alarm warnings sent automatically by the system to selected e-mail addresses or to smartphones thanks to the **Epoca Notify App**.

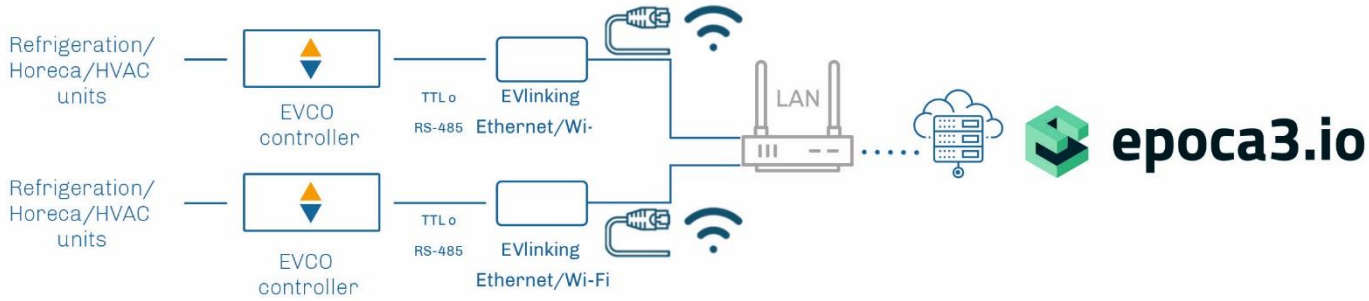


Operating diagram - examples

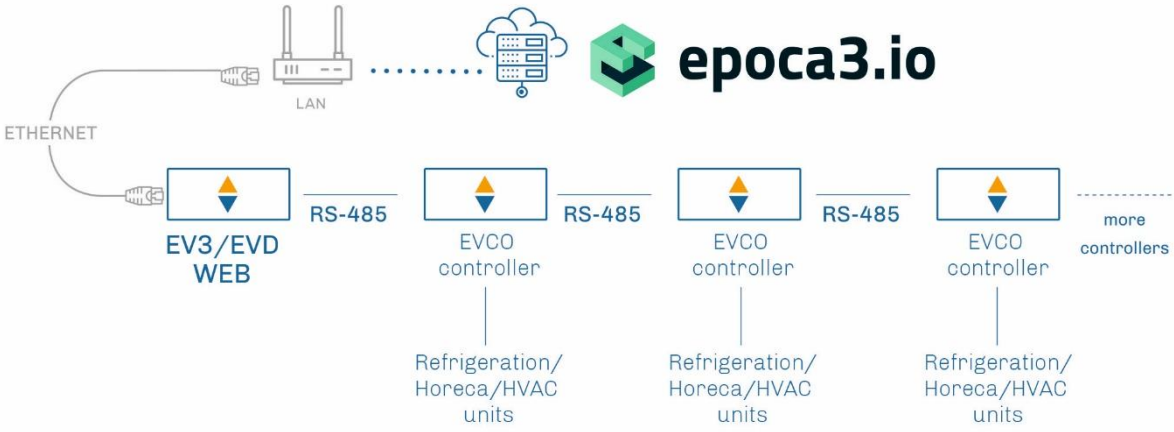
Built-in Ethernet/Wi-Fi connectivity



External Ethernet/Wi-Fi connectivity via EVlinking module



External Ethernet connectivity via Gateway EV3 Web or EVD Web



How to get started

Make sure to carefully read the installer manual before starting any wiring and configuration.
Check the epoca3.io section and connectivity devices in our website.

The configuration of your **EVCO** controllers with built-in or external connectivity shall be performed using the **Merlino App** (available for iOS, Android and Windows).

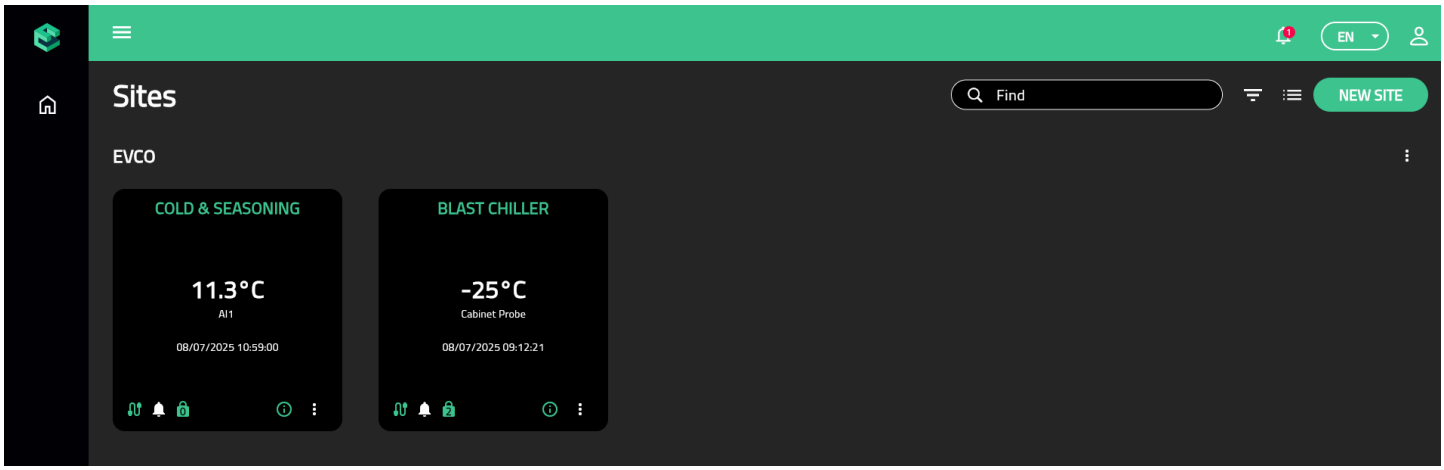
To finalize the configuration, you will need a epoca3.io account: to create an account you can either access epoca3.io from a browser (https://epoca3.io/) or create it via the Merlino App.
Merlino will help you configure the device via its friendly interface and wizard. See the tutorial.

Once the configuration has been completed, your controller will automatically be shown on your epoca3.io account.

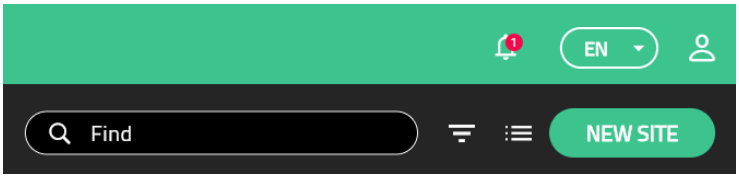
epoca3.io can group devices by **Site**.
A Site can be a physical building or a virtual group of devices that you may want to be shown together.
A Site can be created at any time from epoca3.io user interface or from Merlino: once the Site is created, you can add devices to it.
To move a device from one site to another, the device must be reconfigured through the Merlino App.

Home page

From your epoca3.io account, you are entitled to remotely view the status of all the units associated to your account, provided that they are switched on and the internet connectivity is working.
Below is an example of what the epoca3.io home page will display:



Heading

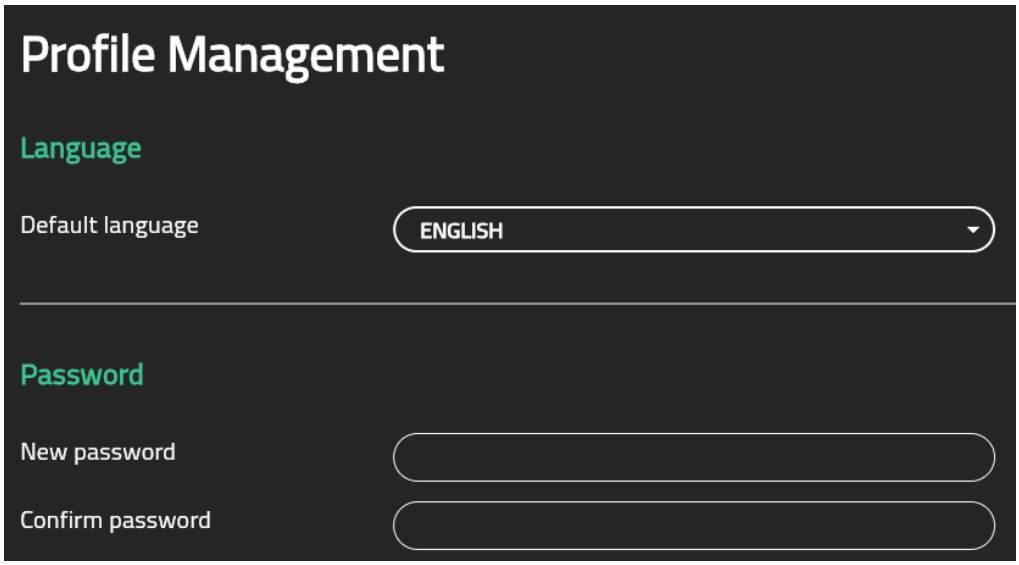


Heading

Below is an overview of the functions available on the home page heading

Account

The account section lets you configure the default interface language (English, German, French, Spanish, Italian) and reset your account's password.



Language

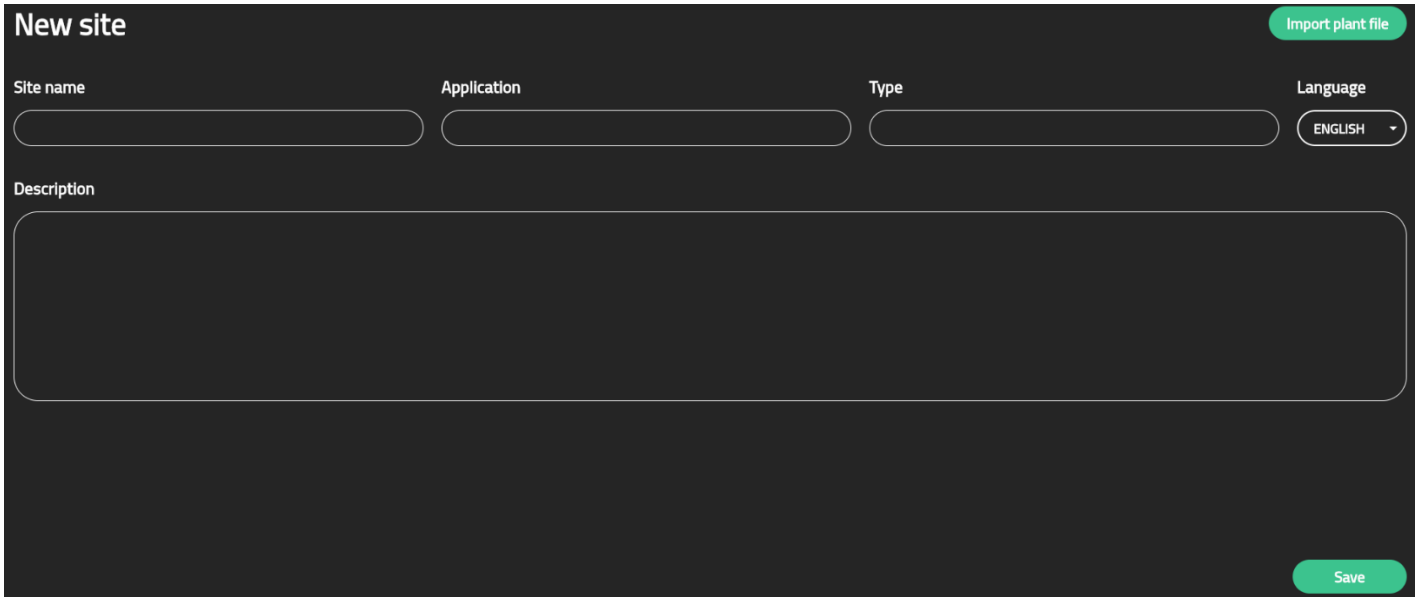
It is always possible to use, for the current session, a different language from the default one configured for the account. The Language set will be valid until session expires; after that, when logging in next, the default language will be shown again.

Active Alarms

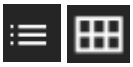
The icon shows how many alarms are active: if none, no red number will be shown.
Clicking on the icon, epoca3.io will filter and show only the devices which have an active alarm.

New Site

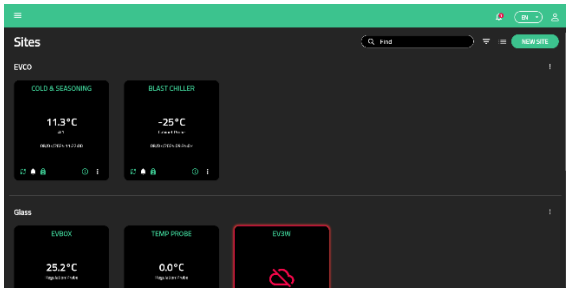
You can create a new site whenever it is needed by using this button.
The minimum information required to create a site is its Name.
If needed, you can insert additional information about the application, the type of devices and a description to insert more details.

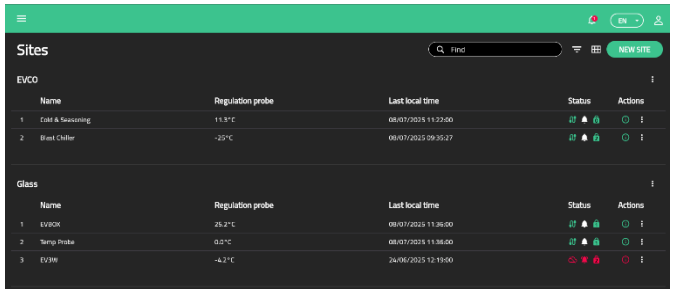


From this section it is also possible to import plant files, which is a legacy functionality that helps you import device setups not created with Merlino.

Views 

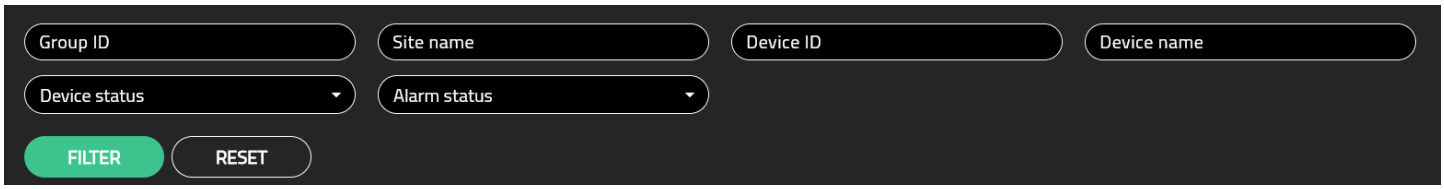
epoca3.io offers two kinds of views: Widget view and Compact view.
From this button it is possible to switch from one to the other.





Filters

This function helps you filter your devices by certain categories.
Devices will be displayed or filtered based on these categories.

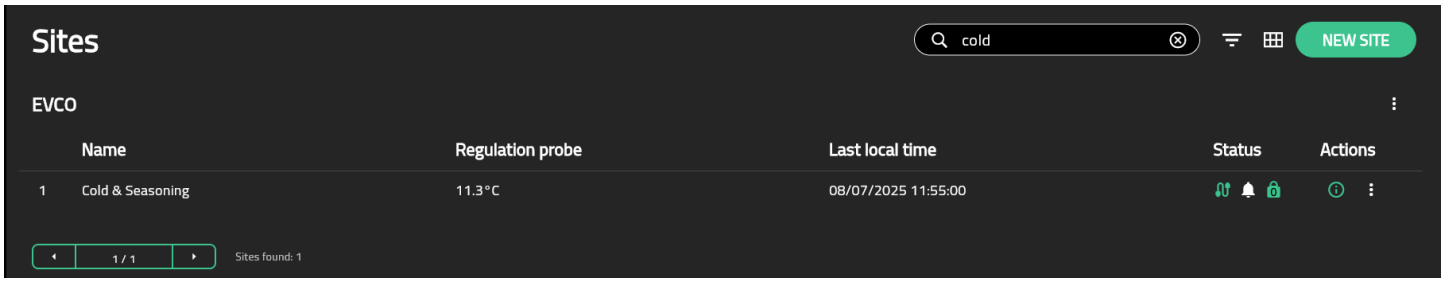


- Group ID: an ID number associated with the site
- Site Name: the name that has been given to a site
- Device ID: an ID number associated with the device
- Device Name: the name that has been given to a device
- Device Status: Online or Offline
- Alarm Status: Active or Inactive

Note: the Active Alarms icon, if selected, will set the filter Alarm Status to “Active” and only the device with alarms will be shown.
To reset this view, you will need to access this section and press the “Reset” button.

Find

This functionality helps you filter or search a device.
You can enter from here the same filters explained on previous section.

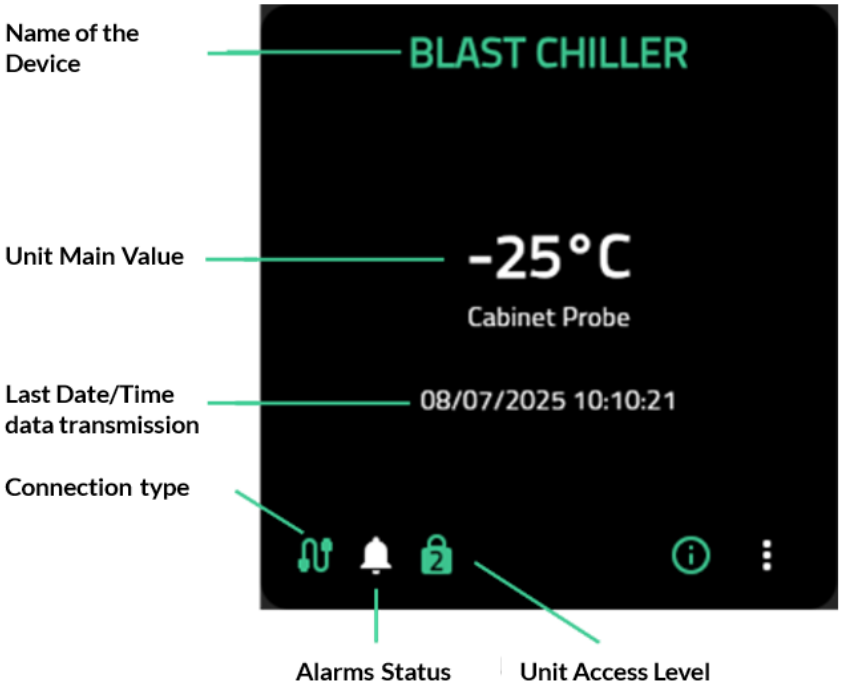


Operation area

Device

The widget (or the compact view) shows the main operational information about the device.

- Name of the device
- Unit main value: shows the unit most significant value (usually temperature) currently detected
- Last Date/Time data transmission: shows the last time the device has updated the values/properties displayed
- Connection type: either Ethernet or Wi-Fi
- Alarm status: shows if the unit has active alarms (displayed in red if any)
- Unit access level: indicates the user's level of access to the unit (which can be modified by entering a password)



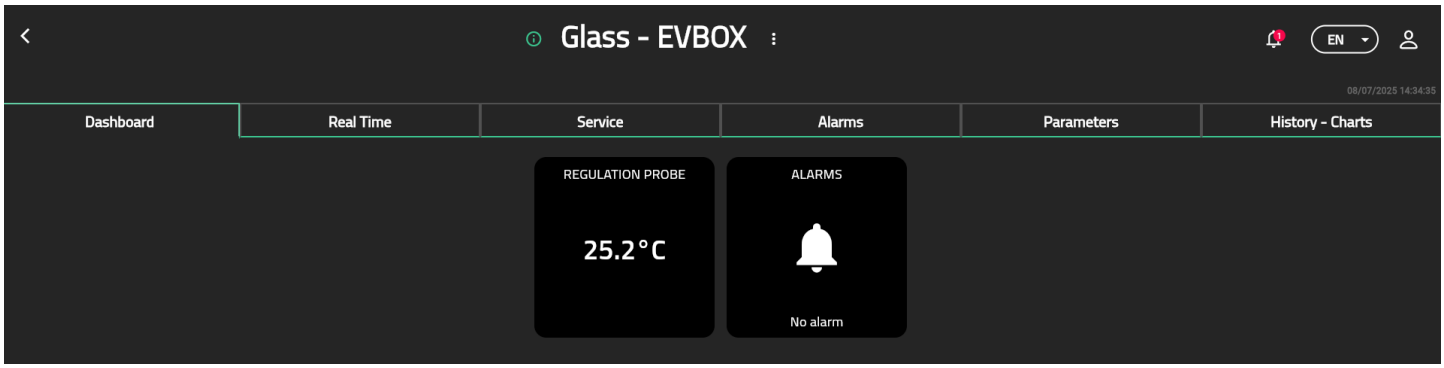
The information section shows all relevant device information, from identification properties to date and time, to connection status and firmware version.

The three dots menu gives access to:
- Edit: to change device name
- Notification settings: configuration of what and how the device will notify the user
- Send password: to change the unit access level by inserting the proper password
- Set date and time: to configure/change the date and time of the device
- Remove: to remove the device from the site, for example when the device no longer communicates with epoca3.io
  Note: if the device configuration has not been changed, once the device sends the next set of data to epoca3.io, it will automatically appear again

Site

By clicking on the three dots menu on the right side of the user interface, you can access Site settings and configuration:
- Edit: to change name or properties of the Site
- Notification recipients: to configure the recipients to whom the notification will be sent
- Sharing: to share the site with other epoca3.io users
- Delete site: to remove the site from your site list (Note: you can delete a site only when it is empty).

Configuration and monitoring functions



By clicking on one of the units, you can access additional menus.

Real time

This menu gives an overwiew of the main current data of the unit and enables users to modify some of the setups.

	Code	Name	Value	Sync
1	Pb1	Regulation Probe	25.2 °C	
2	sEnS	Energy Saving	Inactive	
3	orEG	Regulation Output	Active	
4	sDeF	Defrost Status	Inactive	
5	door	Door	Closed	
6	ALAR	Active Alarm	Inactive	
7	cDfr	Defrost Command	---	✎
	Settings			
8	SetP	Setpoint	-9.0 °C	✎
9	HALR	High Temperature Alarm Threshold	30.0 °C	

Service

This menu gives a more comprehensive overwiew of the device current data and enables users to modify some of the setups.

	Code	Name	Value	Sync
1	Pb1	Regulation Probe	25.2 °C	
2	rSEt	Working Setpoint	-9.0 °C	
3	sEnS	Energy Saving	Inactive	
4	Ovrc	Overcooling/Overheating	Inactive	
5	door	Door	Closed	
6	CH	Compressor Hours	3 x100 h	
7	ALAR	Active Alarm	Inactive	
8	oReg	Regulation Output	Active	
9	oDef	Defrost Output	Inactive	
10	oFan	Fans	Active	
11	oLux	Light	Inactive	✎

Programs

This menu enables the user to modify the working programs available in the unit. All the values can be edited as needed. Should the unit support the remote cycle start/stop function, a dedicated field will be available within this menu.

	Code	Name	Value	Sync
1	cmd	Cycle Selection	---	
2	Stop	Stop	---	

Alarms

This menu will be displayed in the unit "*operation area*" only when an alarm is in progress. To view which alarm is occurring, enter this menu.

	Code	Name	Status
1	Pr2	Probe 2 Alarm	Active

Parameters

This menu gives access to the complete list of the configuration parameters.
All the values can be modified by authorized users to set up the unit as needed.

SYNCHRONIZE

Find

	Code	Name	Current value	Modified value	Sync
1	SP	Setpoint	-9.0 °C	-9.0 °C	
2	CA1	Cabinet Probe Offset	0.0 °C	0.0 °C	
3	CA2	Evaporator Probe Offset	0.0 °C	0.0 °C	
4	CA3	Auxiliary Probe Offset	0.0 °C	0.0 °C	
5	P0	Probe Type	NTC	NTC	
6	P1	Enable °C Decimal Point	Yes	Yes	
7	P2	Temperature Unit of Measurement	Celsius	Celsius	
8	P3	Evaporator Probe Function	Disabled	Disabled	
9	P4	Configurable Input Function	Multi-purpose Input	Multi-purpose Input	
10	P5	Value Displayed	Regulation Value	Regulation Value	

This section has specific functionalities accessible by clicking on the relevant icons.

- Reload: to refresh the parameters
- Menu

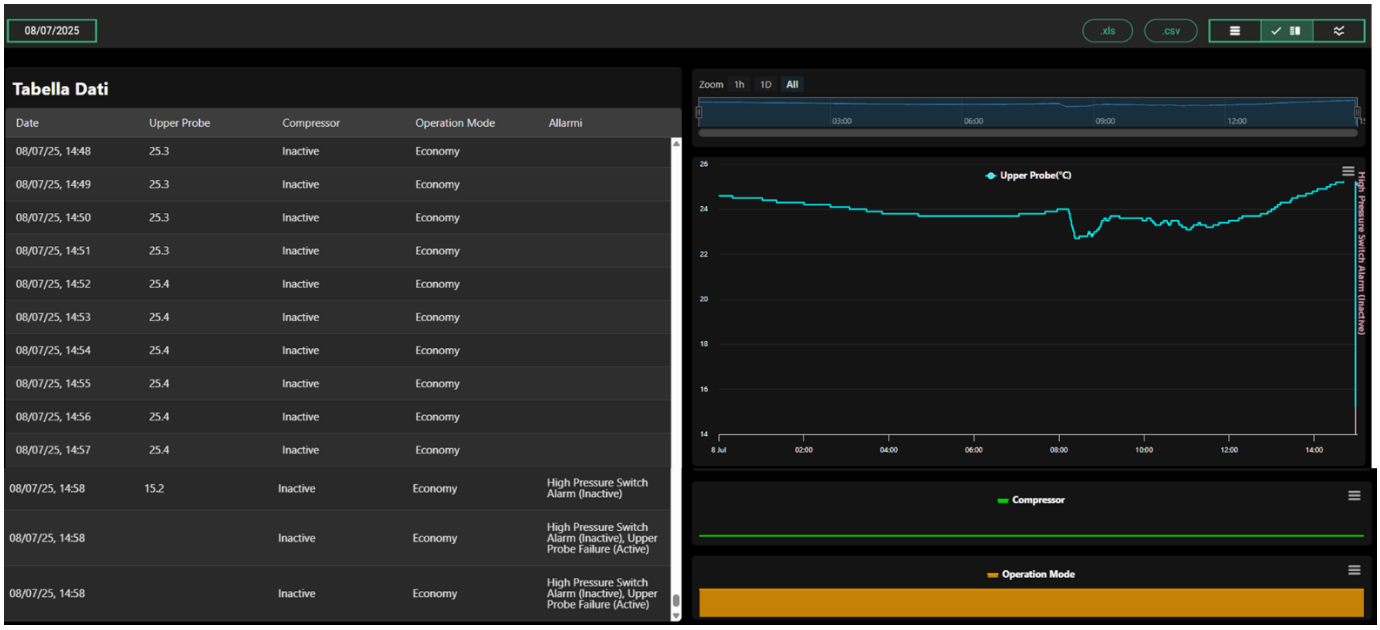
From the menu, you can:

- Download Excel: to download the current parameters map in .xls format
- Backup current: to backup the current parameters map (the one saved on the device)
- Backup edited: to backup the current parameters map shown on the user interface (which can be different from the one saved on the device)
- Import backup: import a backup parameters map file.

To change one or more parameters, you need to click on the pencil, insert the desired value and then press the green "Synchronize" button on the top left of the screen.

History and Charts

This menu enables the user to display the historical recordings in a table form and in a chart.
Time interval and values to be displayed can be freely filtered by the user: the maximum interval selectable at a time is 7 days.

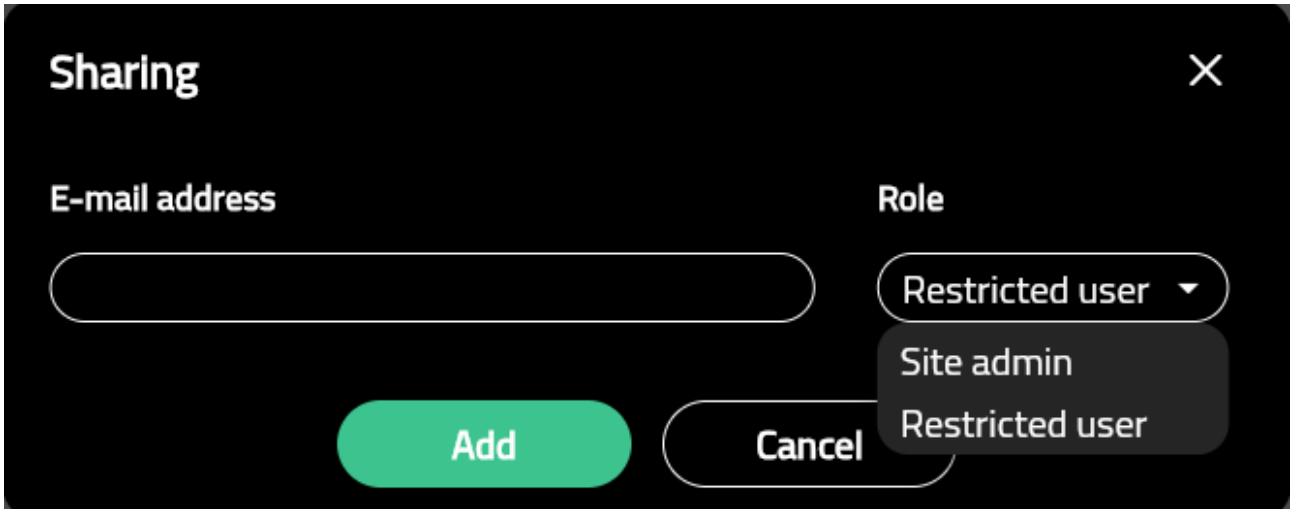


On the upper left you can change the period of time.
On the upper right you can decide to show chart and history or only one of them.
The table can be exported in .csv or .xls format. The chart can be exported in .PDF, .JPG, .PNG and .SVG.

Sharing

epoca3.io introduces a new way to share your Sites among other users.
The account that has created the site and added devices to the site, is considered the “owner”.
The owner can share his sites with other epoca3.io users from the home page through the Sharing option, clicking on the three dots menu on the right side of the site section.

As owner of the site, you can choose among three options:
- Site Admin
- Advanced User
- Restricted User



The table below illustrates the potential of the three roles.

		Owner	Admin	Advanced user	Restricted User
Site Management	Edit	★	★		
	Delete	★	★		
	Share	★	★		
	Notifications	★	★		
Device Management	User psw lev 1	★	★	★	
	User psw lev 2	★	★	★	
	Remove	★	★		
	Edit	★	★		
	Notifications	★	★		
	Set date and time	★	★		
Device Info	Realtime	★	★	★	★
	Service	★	★	★	
	Alarms	★	★	★	
	Parameters	★	★	★	
	History	★	★	★	★

The owner and the administrator of the site can later modify, suspend or remove the account they shared the site with.

Examples of using the Sharing function

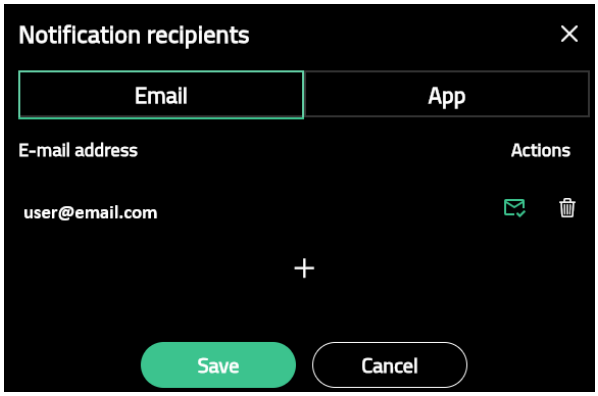
1. Field Technician
   As field technician you may want to setup the connection of the device to epoca3.io and let your customer access the device on his epoca3.io account.
   The customer may wish to access as administrator, because he wants to have full control on the device.
   In this case, the field technician, as the owner, can share the site to the customer as Administrator.
2. Remote Support
   You are the owner or the Administrator of the site and you need Technical Support to access your device.
   You might choose to share your site to the technical support as Administrator.
   After the support has ended, you can either suspend the sharing or even remove the access.
3. End user
   If the end user is a non-technical user, he may be interested in having a simple interface with no editing capabilities.
   As the owner or administrator of the site, you can share it as restricted user.

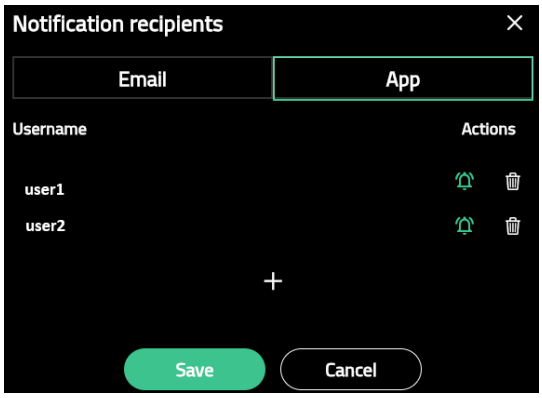
Notifications

epoca3.io introduces new ways of notifying users alarms and other relevant information about their devices.

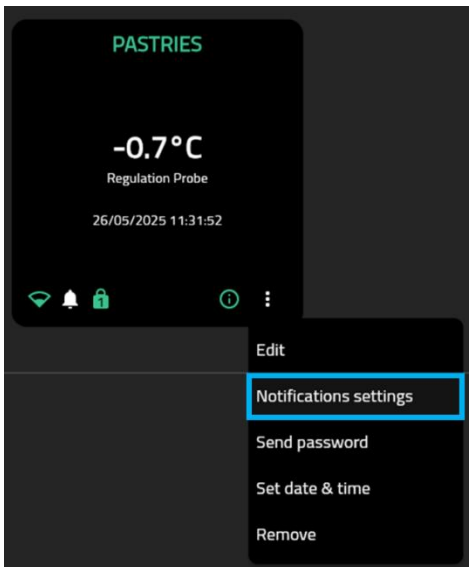
There are two ways of notifying users:

A. E-mail
B. Epoca Notify App





This section is available to the Owner and the Administrator of the site.
Emails can be sent either to epoca3.io users or to emails that are not registered in epoca3.io.
Epoca Notify App requires the user to be registered.
The site Administrator or Owner can tune which notifications will be sent.
Every device has a dedicated section where to set which notifications use which method.



In the example below, Low Temperature alarm will only be sent via email, Open Door alarm only through the Epoca Notify App, while High Temperature alarm will be sent both ways.

EVCO S.p.A.
Via Feltre 81, 32036 Sedico (BL) ITALY
| Tel. +39 0437 8422
| Fax +39 0437 83648
| e-mail info@evco.it
| web www.evco.it

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