



INSTRUCTION MANUAL

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1 - INTRODUCTION

Thanks to EVO-Cloud it is possible to remotely connect to an Infinity Evolution, 1Hundred or Mekano Pro equipment.

The connection, only and exclusively with an ethernet network cable, allows for the remote control of the equipment via a web application.

The following are the necessary system requirements:

Operating system: **Microsoft Windows, iOS or Linux**

Internet browser: **Chrome, Firefox or Explorer / Edge, Safari, Waterfox**

On mobile application: **Android or iOS platform**

Network cable supported: **Patch or Cross**

In case of a network switch, check with your IT system manager for the presence of a port without blocks resulting from Firewall or inbound / outbound connection restrictions.

Please note that it is possible to connect the machine only with a network cable.

Please note that the EvoCloud license has a minimum duration of 5 years at the end of which you can choose whether to renew the license or not.



PLEASE NOTE: In the event that the blast chiller INFO screen is not like the one presented in the following pages of the manual, contact technical assistance to request the software update of the machine:

assistance@afinox.com

service@afinox.com

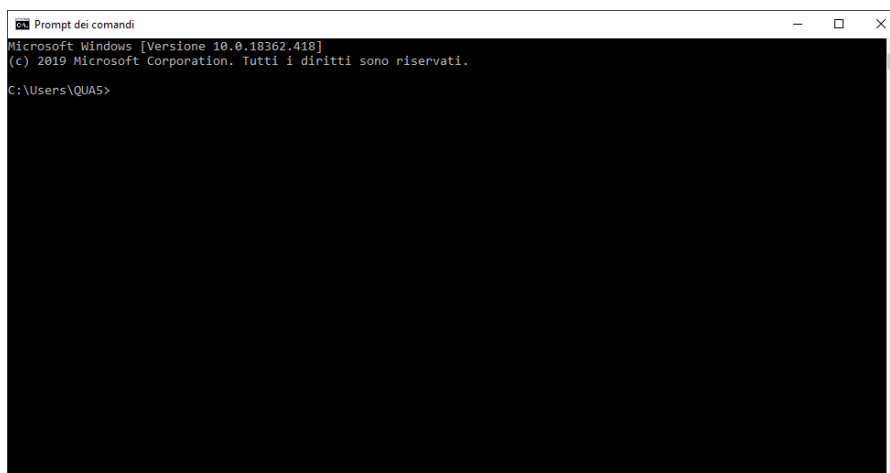
2 - ETHERNET CABLE INSTALLATION

In order to use the EvoCloud and Webapp services, it is necessary to connect a network cable with RJ45 8P8C connector to the relative connector on the back of the display. (This operation is not necessary if the EvoCloud is forseen at the order of the equipment, it will just be sufficient to connect the cable from the router to the pairing connector in the back of the equipment). To do this, proceed as follows:

- 1) Disconnect the blast chiller power cable
- 2) For machinery with built-in unit: remove the display, open the electrical panel, remove the front closing panel, the rear protection grid and the lower closing plate of the door hinge. For ROLL IN cells, remove the display, the electrical panel closing panel and the door cable cover.
- 3) With the aid of a cable passing probe, insert the network cable from the display side output through the door until it comes out from the lower hinge of the door or from the upper one for the ROLL IN cells.
- 4) Connect the LAN cable to the relative port on the back of the display



- 5) Re-install and secure the display and any components removed earlier.
- 6) Close and secure the electrical panel.
- 7) Connect the network cable to the router, or to the network switch. It is possible to use both PATCH and CROSS cables.
- 8) Restore the blast chiller power supply.
- 9) To check from the PC that the unit is correctly connected, select the Command Promt (CMD) from the search field or from Run menu, write CMD.exe, the following window will open:



in the prompt line, write and confirm the command: ping 192.168.2.127(the IP address is the standard assigned to the the equipment, if you have to modify it, then see the relevant chapter. In any way, the ping should be done to the address assigned to the equipment.

if the connection is correct, the response time to the transfer of 4 sample data packets is returned.

```
Windows [Versione 10.0.18362.418]
Microsoft Corporation. Tutti i diritti sono riservati.

IA5>ping 8.8.8.8

di Ping 8.8.8.8 con 32 byte di dati:
a 8.8.8.8: byte=32 durata=7ms TTL=115
a 8.8.8.8: byte=32 durata=8ms TTL=115
a 8.8.8.8: byte=32 durata=7ms TTL=115
a 8.8.8.8: byte=32 durata=7ms TTL=115

Ping per 8.8.8.8:
Pacchetti: Trasmessi = 4, Ricevuti = 4,
           = 0 (0% persi),
Stime approssimative percorsi andata/ritorno in millisecondi:
           = 7ms, Massimo = 8ms, Medio = 7ms

IA5>_
```

(in the above picture is shown a ping command to the 8.8.8.8 address just for an example)

Enter exit in the command line to close the prompt.

Remember, that for connections of multiple machines to the same network, it is necessary to identify the machines with different IP addresses. Please refer to chapter 3 for the setting operations.

3- INFO PAGE



From home page on the display, press the OPTION icon and then press on the INFO icon to access the page where to insert the connection addresses :



= connection signal power :

gray = absent connection

green = connected, each line represent the signal intensity from bottom up (low - 25% - 50% - 75% - high)



= connection reset icon.



= IP STATIC active

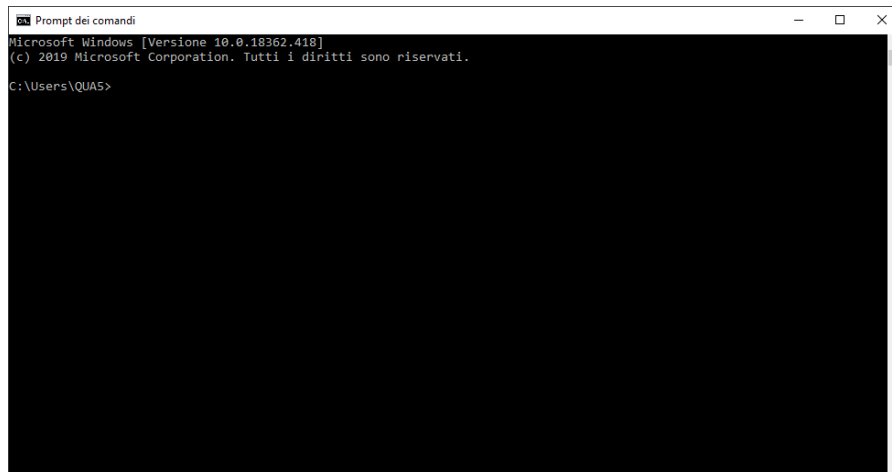


= DYNAMIC IP active (DHCP)

4 - SETTINGS FOR STATIC IP ADDRESS

Connect a computer to the local network, possibly through an ethernet cable and to the same router to which the equipment is connected.

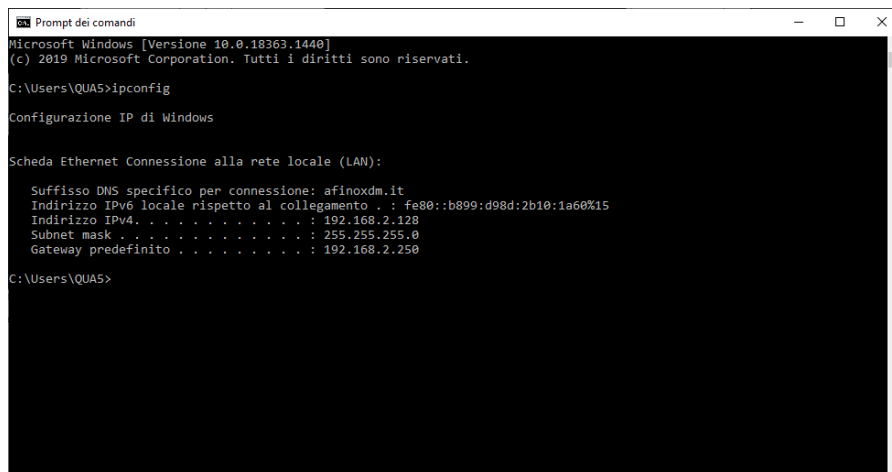
Select the command prompt (CMD) in the search field or from Run menu, write CMD.exe, the following page will open:



```
Prompt dei comandi
Microsoft Windows [Versione 10.0.18362.418]
(c) 2019 Microsoft Corporation. Tutti i diritti sono riservati.

C:\Users\QUA5>
```

In the command line, write and confirm with the enter button : ipconfig



```
Prompt dei comandi
Microsoft Windows [Versione 10.0.18363.1440]
(c) 2019 Microsoft Corporation. Tutti i diritti sono riservati.

C:\Users\QUA5>ipconfig

Configurazione IP di Windows

Scheda Ethernet Connessione alla rete locale (LAN):

    Suffisso DNS specifico per connessione: afinoxdm.it
    Indirizzo IPv6 locale rispetto al collegamento . : fe80::b899:d98d:2b10:1a60%15
    Indirizzo IPv4 . . . . . : 192.168.2.128
    Subnet mask . . . . . : 255.255.255.0
    Gateway predefinito . . . . . : 192.168.2.250

C:\Users\QUA5>
```

Take note of the following addresses:

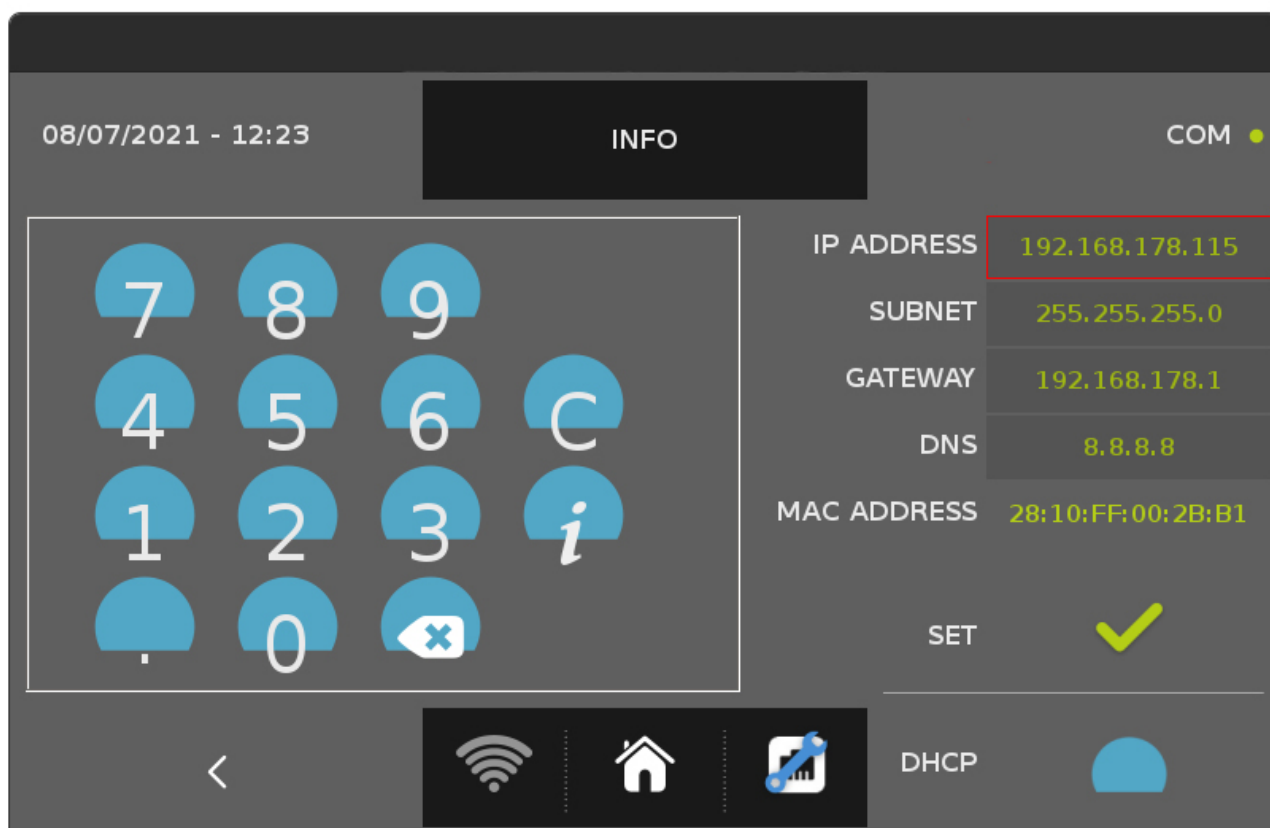
IPv4


(pay attention, this is the IP address assigned to the computer, it has to be modified on the equipment in order not to duplicate an already taken address. It is possible to verify which are the already in use IP addresses by downloading free software from the internet.)


Subnet mask


Getaway predefinito

In the INFO page on the display, touch the field IP ADDRESS
Once the field has been selected, you will be prompt with a numeric pad with which you can insert the chosen IP address.



Press the button  to confirm the inserted address. Once pressed, the numeric pad will disappear.

Press the button  in case a wrong value was inserted and you want to go back to the previously saved address.

Press the button  to erase the values that are present or you have inserted

As done for the IP address, select one by one the other values SUBNET - GATEWAY - DNS

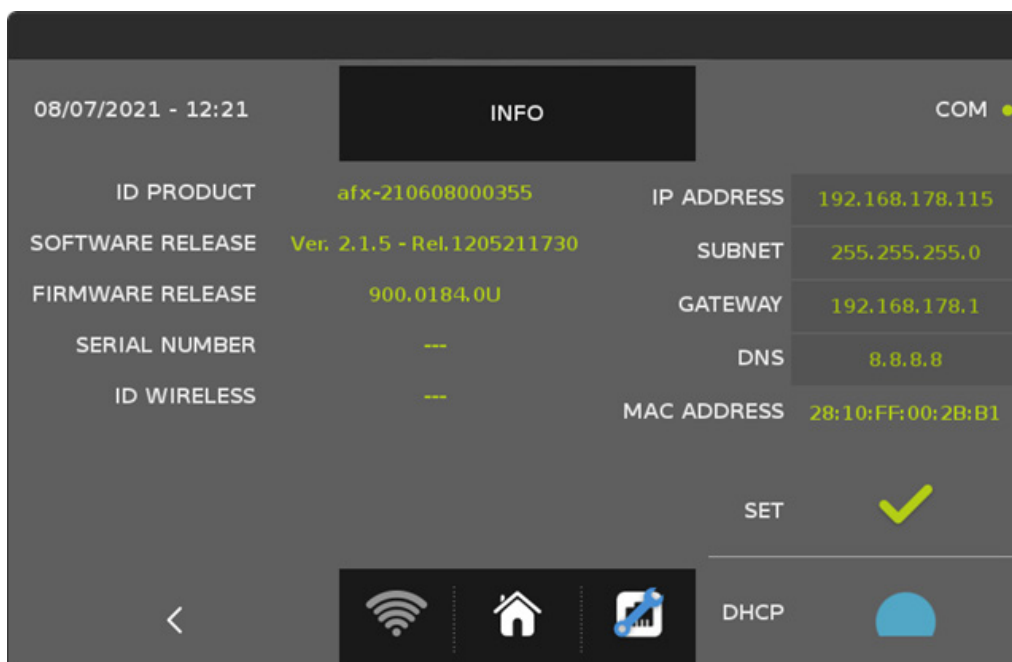
Once the above settings are set, press the Home icon to return to the Options screen. Press the home icon to return to the Home page, turn off the machine, disconnect the power supply.

After waiting about a minute, restore the power supply and turn on the machine. Return to the Options - Info screen to check the connection signal.

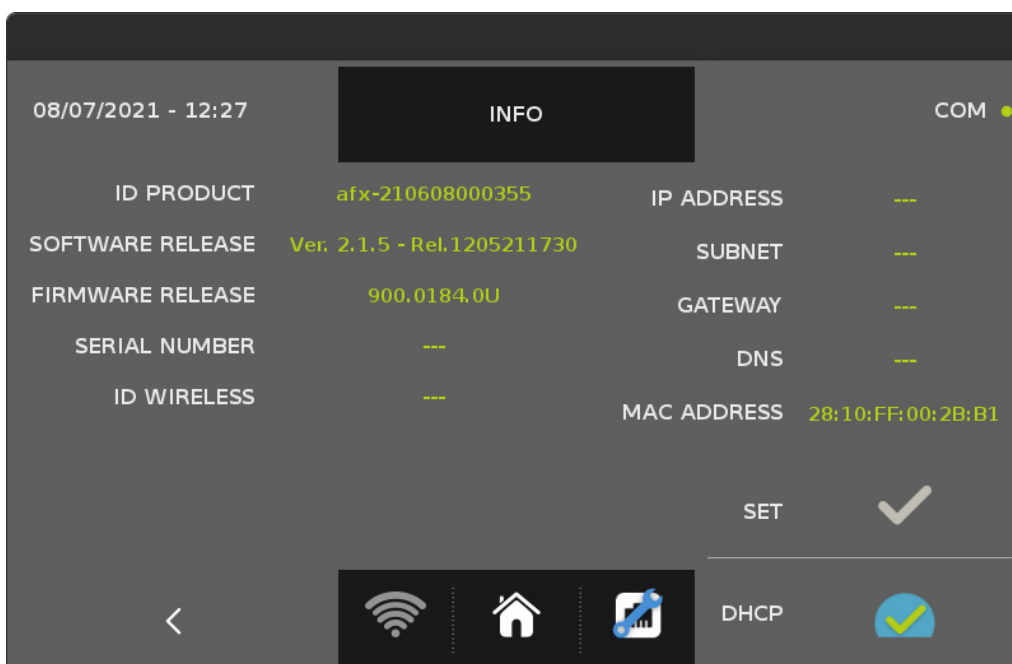
If all settings have been made correctly, the signal icon will be colored. At this point, go to chapter 6 for the settings on the evocloud.aq-iot.net website

5 - SETTINGS FOR DYNAMIC IP ADDRESS (DHCP)

As an alternative to setting a specific IP address for the machine, it is possible to delegate the matching of the machine to the router by enabling the DHCP function



The machine has a manual IP setting as standard, press the blue icon next to DHCP to activate the option



Once DHCP is enabled, press the Home icon to return to the Options screen. Press the home icon to return to the Home page, turn off the machine, disconnect the power supply.

After waiting about a minute, restore the power supply and turn on the machine. Return to the Options - Info screen to check the connection signal.


If all settings have been made correctly, the signal icon will be colored. At this point, go to chapter 6 for the settings on the evocloud.aq-iot.net website

6 - NETWORK VERIFICATION AND RESET



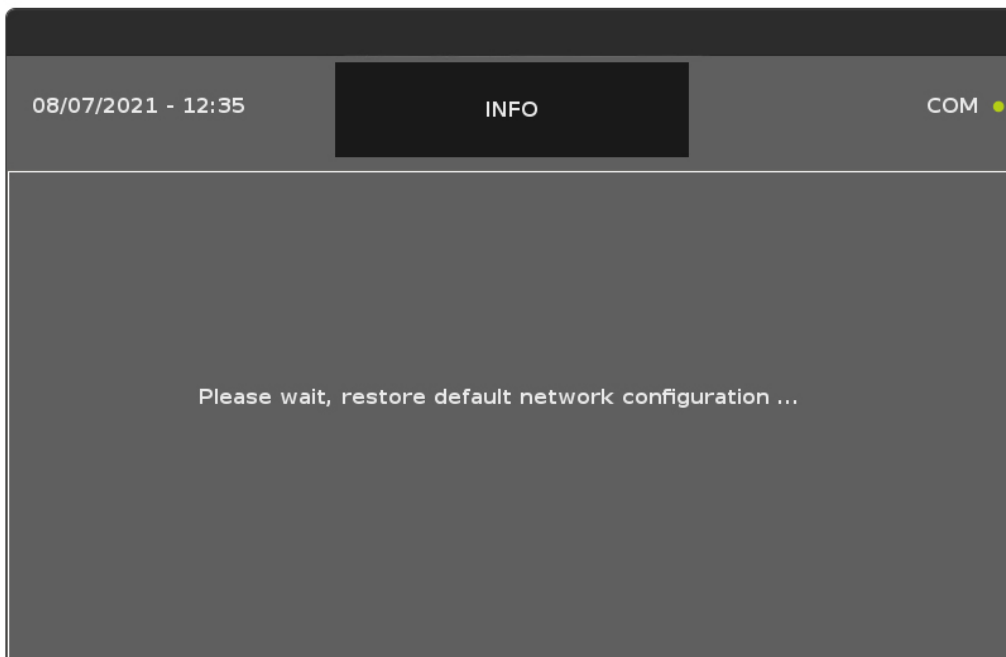
From the info screen it is possible, by pressing the icon  , to check the connection settings (useful with DHCP to know the automatically assigned IP address)



press the icon  to go back to the previous page.



It is also possible to reset the connection by pressing on the icon  :



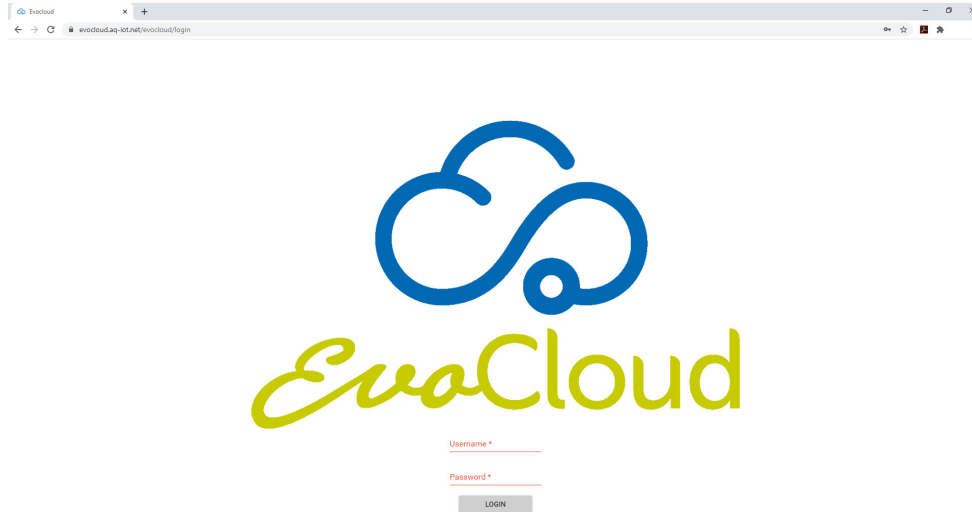
By pressing the reset icon, the DHCP setting returns to static IP and the static IP settings to the factory settings. Once the reset is complete, the Info screen reappears with the original settings.

7 - EVOCLOUD

Once the connection is established (LAN), type in the web browser:

evocloud.aq-iot.net/evocloud/login

the following page will open:



Enter the credentials provided at the time of registration (the credentials are provided by the technical assistance service upon communication of an e-mail address to be used also for a possible password recovery if forgotten)

Username *

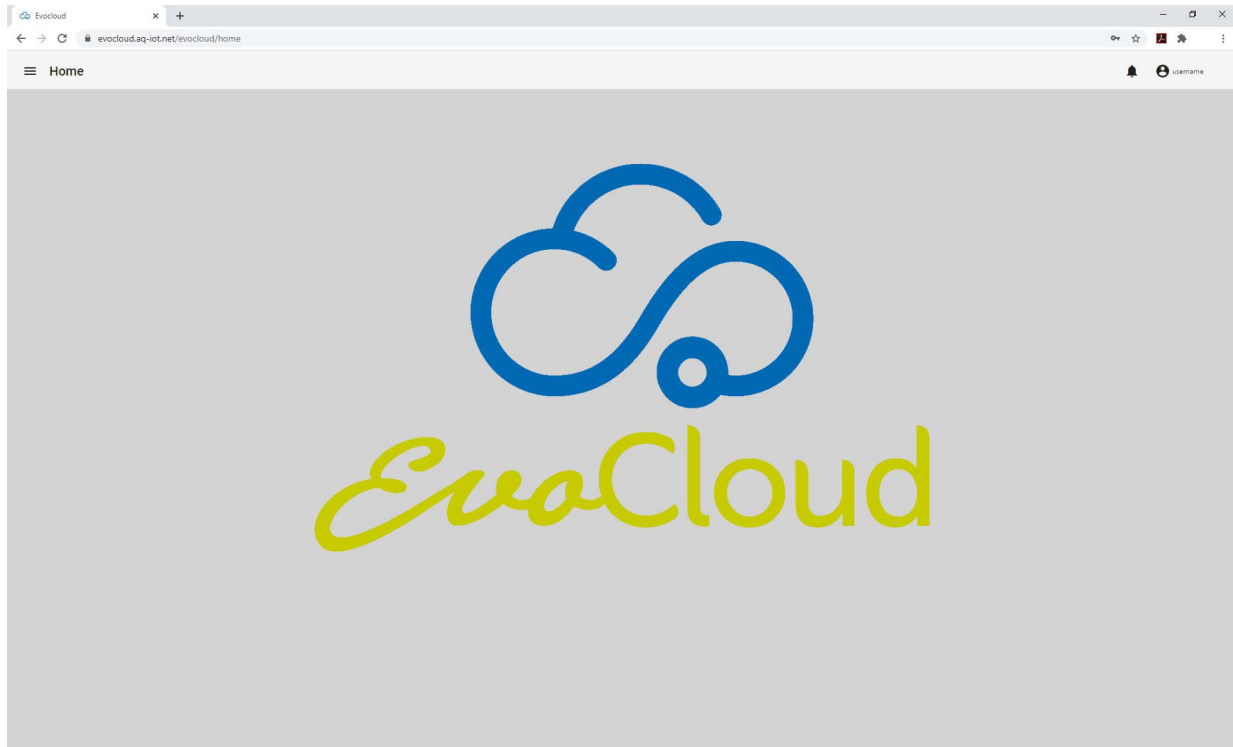
Password *

LOGIN

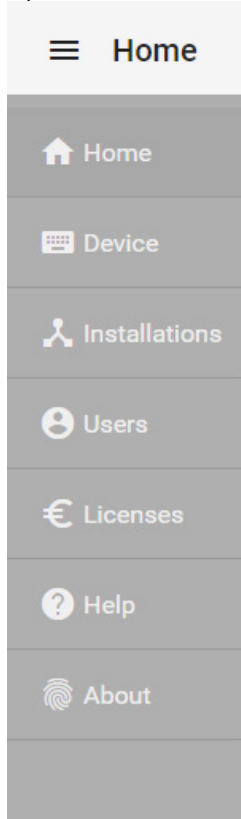
if you do not have access credentials, send an e-mail to:

evocloud@afinox.com

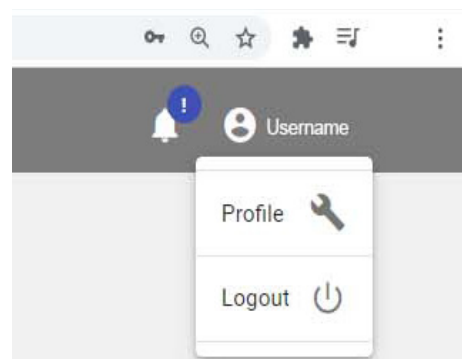
After logging in, you have access to the HOME PAGE of the EvoCloud:



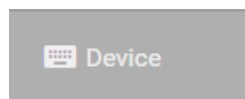
at the top left is the Home menu



at the top right is the refresh button, alarms and username



In the home menu you can find some buttons are available with the following functions:



List of all registered machinery

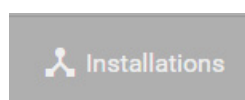
Device List 🔔 Username

Total Devices: 4 ★ Licensed: 3

Search Device by: ID Product Installation Name

Enabled	ID Product	Installation	Name	Description	Serial Number	License Activation	License Expiration	Edit
	afx-000003	CUSTOMER 01	Infinity 40		789123			✎
✓	afx-000004	CUSTOMER 02	Infinity 20		67890	09/06/2020	08/06/2025	✎
✓	afx-000005	CUSTOMER 03	Mekano PRO		12345	09/06/2020	08/06/2025	✎
✓	afx-000006					09/06/2020	08/06/2025	✎

4 total



List of connected and in use machinery

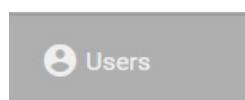
Installations List 🔔 Username

Total Installations: 6 ⚠️ Alarms: 0 🔌 Offline: 2

Search Installation +

Installation	Note	Alarm	Status	Edit	Details
CUSTOMER 02	Laboratorio	🟢	🔌	✎	⚙️
DISTRIBUTOR 02		🟢	🟢	✎	⚙️
CUSTOMER		🟢	🟢	✎	⚙️
DISTRIBUTOR		🟢	🟢	✎	⚙️
CUSTOMER 03		🟢	🔌	✎	⚙️
Showroom		🟢	🟢	✎	⚙️

6 total



Registered users list

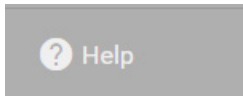
Users 🔔 Username

Total Users: 7 🔌 Active Users: 7

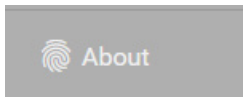
Search User +

Enabled	Username	Name	User Level	Creation Date	Recover Mail	Alarm Mail 1	Alarm Mail 2	Edit
✓	CUSTOMER 02	CUSTOMER02	USER		recovery1@gmail.com			✎
✓	CUSTOMER 03	CUSTOMER03	USER		recovery2@gmail.com			✎
✓	DISTRIBUTOR 03	DISTRIBUTOR 03	DISTR		recovery3@gmail.com			✎
✓	DISTRIBUTOR 02	DISTRIBUTOR 02	DISTR		recovery4@gmail.com			✎
✓	DISTRIBUTOR 01	DISTRIBUTOR 01	DISTR		recovery5@gmail.com			✎
✓	CUSTOMER 01	CUSTOMER 01	USER		recovery6@gmail.com			✎
✓	SERVICE01	SERVICE 01	SERVICE		recovery7@gmail.com			✎

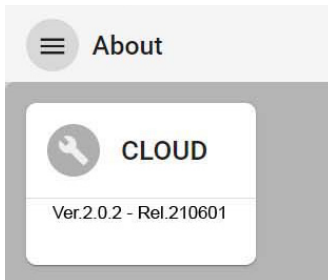
7 total



Frequently asked question access page



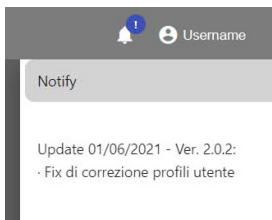
EcoCloud version info



As for the buttons at the top right



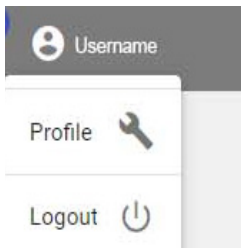
Button to view the most recent modification of the cloud page



eg. in the image an update notification



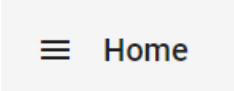
Button to log out of the EvoCloud session



in the drop-down menu there is the Profile box for a quick modification of the current user information. see chapter 8 for how to make these changes.

8 - NEW USER REGISTRATION

The first step to take to use the EvoCloud is to register the user to whom you want to associate a license and consequently a machine that can be connected to the cloud.



Home

From the Evocloud home page, click on the icon



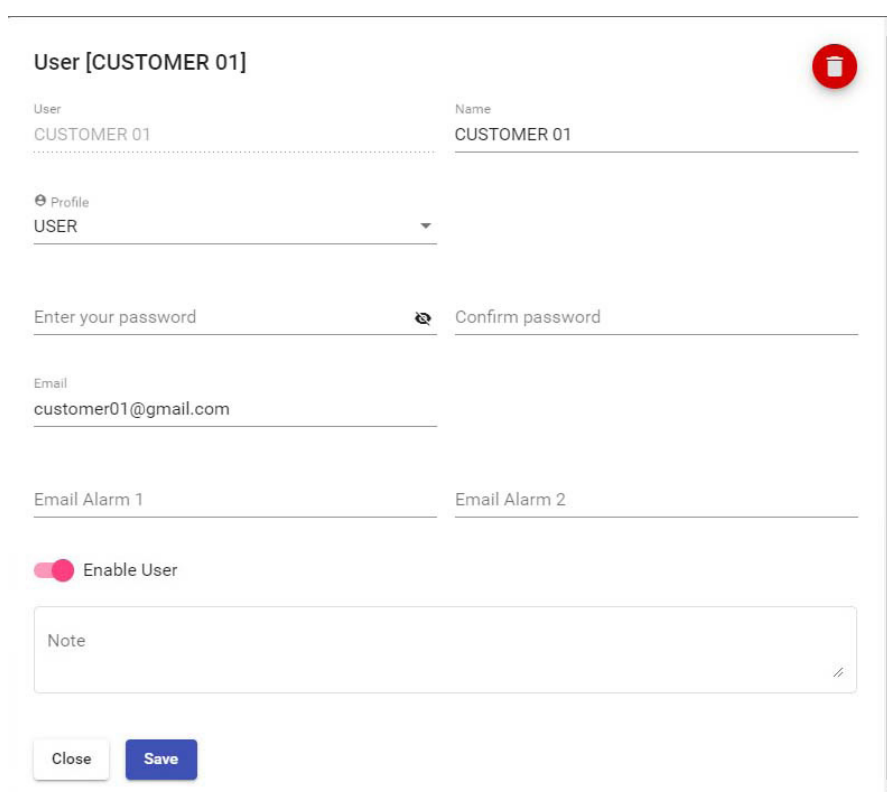
Users

From the drop-down menu, select



After the user list has opened, click on the symbol on the right

A window opens where you can enter the user data:



User [CUSTOMER 01]

User: CUSTOMER 01 Name: CUSTOMER 01

Profile: USER

Enter your password Confirm password

Email: customer01@gmail.com

Email Alarm 1 Email Alarm 2

Enable User

Note

Close Save

Fill in the fields:

User: enter a user name

Name: name and surname of the contact person

Profile: select whether the user is a user (user), distributor (distributor) or service (service)

Enter your password: choose a password consisting of at least 8 characters, of which at least 1 upper case and 1 lower case, 1 number and 1 special character

Confirm password: Confirm the same password

email: reference email to which any password reset requests will be sent

Email Alarm1: enter an email address to which the alarm reports will be sent

Email Alarm2: enter an email address to which alarm reports will be sent

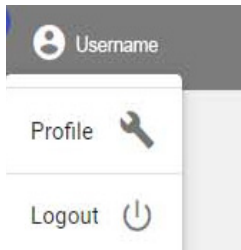
Select the **Enable User** button in order to enable the user

Notes: Enter any reference notes

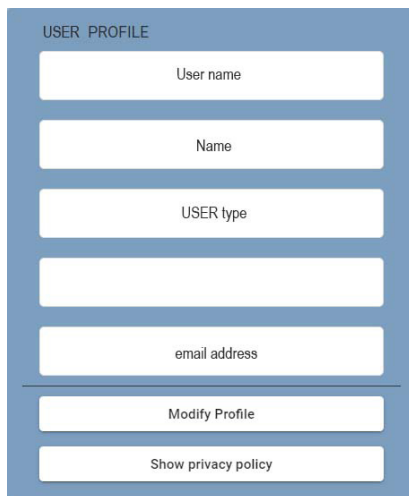
Press **Save** after filling in the fields

a - quick modification to the user profile settings :

by clicking on your own username, a drop-down menu with the Profile and Logout options will open:



press on Profile to access a quick menu to modify the user profile:



Press on Modify Profile to change the following fields:

- Name** : change the name (the username will not be changed)
- Enter your password** : insert a new password
- Confirm password** : confirm the new password
- Email** : set a new email for the password recovery
- Alarm Email 1** : insert a new email for the alarm notifications
- Alarm Email 2** : insert a new second email for the alarm notifications


A screenshot of the 'Modify profile' form. The form is white and has a grey header with the text 'Username'. Below the header, the title 'Modify profile' is displayed. The form contains several input fields: 'Name', 'Enter your password', 'Confirm password', 'Email', 'Alarm Email 1', and 'Alarm Email 2'. At the bottom of the form, there are two buttons: 'Close' and 'Save'.

Press the save button once the modification are done.

9 - NEW INSTALLATION REGISTRATION

The second step to take to use the EvoCloud is to register the installation, or to associate a user with a virtual area where all the machinery associated with it are then managed.

From the Evocloud home page, click on the icon

 Home

From the drop-down menu, select

 Installations

after the installation list has opened, click on the symbol on the right



A window opens where you can enter the installation data:

Installation [CUSTOMER 01]

Name
CUSTOMER 01

Distributor Service User
DISTRIBUTOR Service USER

Note

Close Save

Fill in the fields:

Name: reference name for the installation (usually identical to the user username)

User Service: select the arrow for the list of services enabled by the user (only if present)

User Distributor: select the arrow for the list of authorized Distributors (corresponds to the user)

Notes: Enter any reference notes

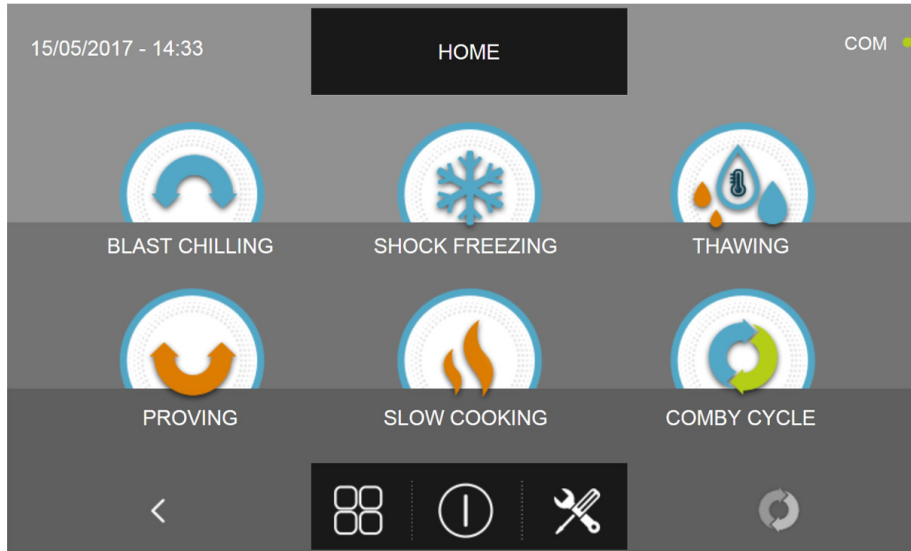
Press **Save** after filling in the fields

10 - LICENSE CODE-EQUIPMENT BINDING

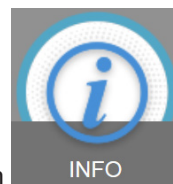
In order to correctly associate an installation with a license, two steps are required, one to be performed on the machine and one from the EvoCloud portal.

a - check Info from MACHINERY:

with screen on home page

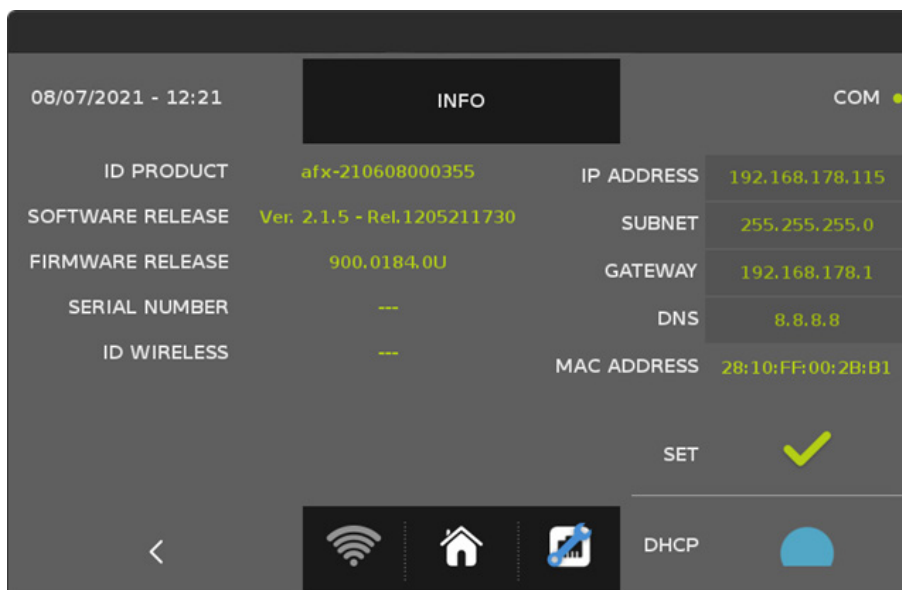


Press the OPTION icon



and then select the INFO icon

The screen with the following data opens :



Make a note of the following fields:

ID PRODUCT : afx-xxxxxxxxxxxx (each number is unique, in case you have to change display, the cloud license has to be transferred or restores, contact the technical assistance for details)

b - EvoCloud license activation (RESERVED ONLY FOR AFINOX PERSONNEL):

☰ Home


From the Evocloud home page, click on the icon

📄 Device

From the drop-down menu, select

A window opens with the list of available licenses:

Enabled	ID Product	Installation	Name	Description	Serial Number	License Activation	License Expiration	Edit
	afx-000003	CUSTOMER 01	Infinity 40		789123			
✓	afx-000004	CUSTOMER 02	Infinity 20		67890	09/06/2020	08/06/2025	
✓	afx-000005	CUSTOMER 03	Mekano PRO		12345	09/06/2020	08/06/2025	
✓	afx-000006					09/06/2020	08/06/2025	

Identify the PRODUCT ID noted previously and press the Edit button 
(If the id is not present, navigate the pages with the arrows at the bottom left side of the page, till you find the proper ID)

A window opens where you can enter the Device data:

Device [afx-000005]

Name: Mekano PRO Serial N°: 12345

Description: _____ Installation: CUSTOMER 01

Active Licence

Note: _____

Close Save

Name: machine model name. eg Infinity Evolution 5T (DO NOT MODIFY THIS FIELD)

Serial number: Serial number noted earlier (DO NOT MODIFY THIS FIELD)

Description: free description

Installation: select the arrow for the list of installations and select the one referred to the known distributor

Select the **License Activated** button to enable the license (operation that cannot be executed by Ditrributors or end users, only AFINOX personnel is granted this modification). Once the button is selected, the license will be activated

Notes: Enter any reference notes

Press **Save** after filling in the fields

c - User-Installation association :

☰ Home

From the Evocloud home page, click on the icon

Installations

From the drop-down menu, select

A window opens with the list of available installations :

Installation	Note	Alarm	Status	Edit	Details
CUSTOMER 02	Laboratorio				
DISTRIBUTOR 02					
CUSTOMER					
DISTRIBUTOR					
CUSTOMER 03					

Identify the Installation and press the Edit button

(if the installation is not present in the current page, navigate in the other pages using the arrow at the bottom left, till you find the correct one.)

A window opens with the Installation data:

Installation [CUSTOMER 01]

Name
CUSTOMER 01

Distributor Service User
DISTRIBUTOR USER

Note

Close Save

Name : Customer name (normally associated with the name of the location where the equipment is installed)

Distributor : select from the drop down menu the referral distributor

Service : if present, select from the drop down menu the referral Service

User : select from the drop down menu the customer to which the equipment is associated to

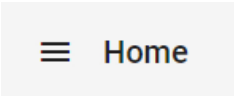
Note : enter any eventual reference notes

Press **Save** after filling in the fields

d - Verify the association :

To check if the license / machinery association has been performed correctly, with machinery properly connected to the internet:


From the Evocloud home page, click on the icon


 Home


From the drop-down menu, select

 Installations

As explained above, a window opens with the list of installations. The icons in the right columns represent operation and connection status

If the status icon is , the machinery is connected and available for use via the webapp.

If the status icon is instead , the machine is not available. In this case, review the steps taken including the cable connection of the machine.

Instead, if the status icon is instead , in the installation there is no equipment available. this can be caused by the fact that the equipment has been moved to another or a wrong installation (DISTRIBUTOR or USER) or has not been associated yet. verify the steps b and c for the association.

PLEASE NOTE:

With machinery connected and correctly associated, from the installation list, it is possible to view the presence or absence of alarms on the connected machinery.



= alarms not present



= alarms present

Remember that it is not possible from this icon to access any alarm lists.

11 - WEBAPP AND REMOTE CONTROL

After carrying out all the operations described in the previous chapters, it is possible to activate the webapp for remote control of the machine.

☰ Home




From the Evocloud home page, click on the icon

👤 Installations

From the drop-down menu, select

As previously explained, a window opens with a list of installations.

At the top of the page are the summary numbers:


 Total Installations: 6	: total number of machines in the installation
 Alarms: 0	: number of machines with alarms
 Offline: 2	: number of machines "offline", ie not connected




Press on the icon to open the page relating to the installation machinery.



A box opens for each machine connected and associated with the installation:

afx-000005

 12345

Last update: 22/07/20 10:20

24.2°C  AL


The data shown in the boxes are:

 : ID PRODUCT number


 12345

: Machine Serial Number


(It is not recommended to change with different words than the serial number of the machine as reported in the Info page on the machine.)

 : date and time of last connection update to machinery

24.2°C : equipment cell temperature

 : identification of the cycle in progress (ABB for blast chilling - SUR for shockfreezing - COT for slowcooking - SCO for defrosting) and identification of alarm presence. If red, alarm in progress..

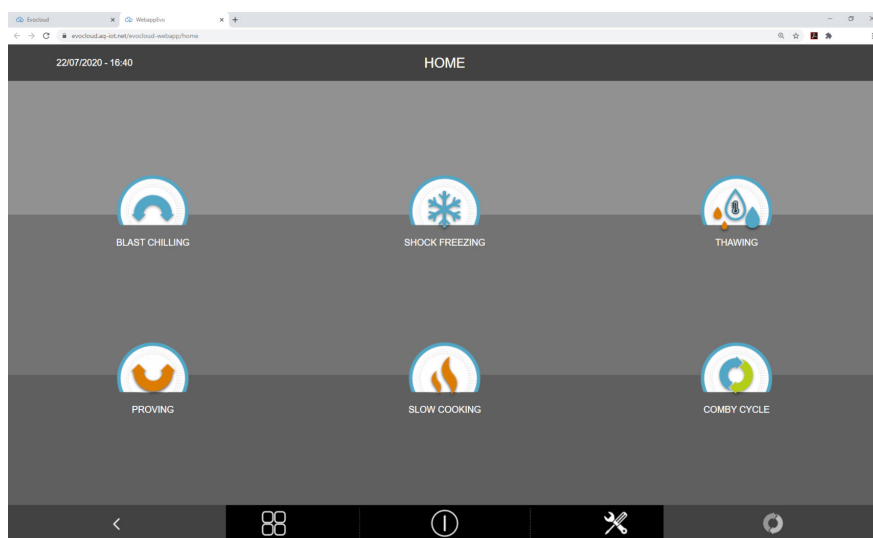
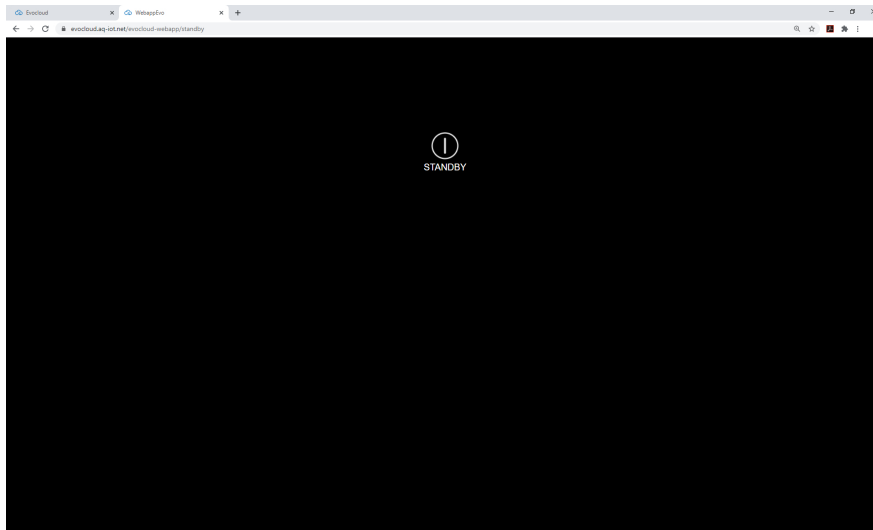
 : WEBAPP access icon

 : HACCP registry access icon

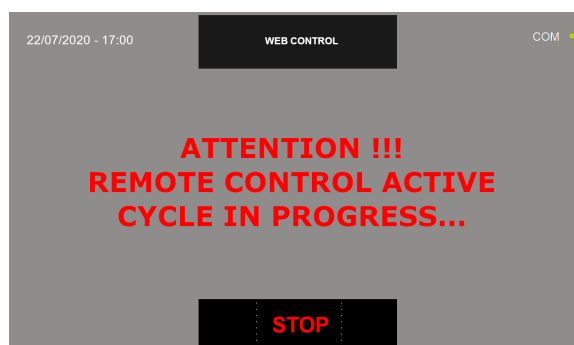
a- WEB APP access



By pressing on the icon a new window opens in the browser with the STANDBY screen of the machine (if the machine was in standby) or with the HOME PAGE screen if the machine was in home:



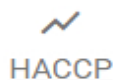
Whenever the webapp is active, the following screen is shown on the machine display :



At this point the machine can be remotely controlled.

Refer to the user manual of the machinery for all functions.

b- HACCP data



By pressing the icon

the summary screen of the cycles carried out opens:

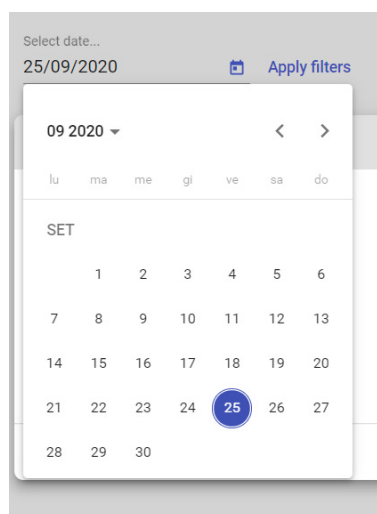
Name	Date	Mode	Num	Type	Size [kB]	Graph	Download
2009251103T_177_LIE	25/09/2020 11:03		177		289		
2009251107T_178_ABB	25/09/2020 11:07		178		533		
2009251110T_179_ABB	25/09/2020 11:10		179		1290		
2009251113T_180_ABB	25/09/2020 11:13		180		102		
2009251429T_181_ABB	25/09/2020 02:29		181		88		

5 total



By selecting the icon

you can apply a filter to the search field. The filter is by date, select the date from the calendar for which you want to view the list of cycles performed.




press the icon to download the .csv file of the cycle performed.

See the user manual for file details.

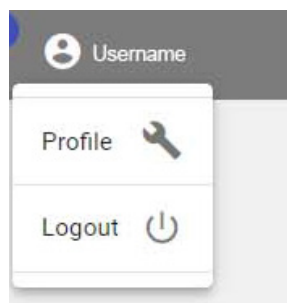
By selecting the icon  you can open the page relating to the graph of the cycle carried out:



Press the button  to go back to the performed cycle list.

12 - LOGOUT

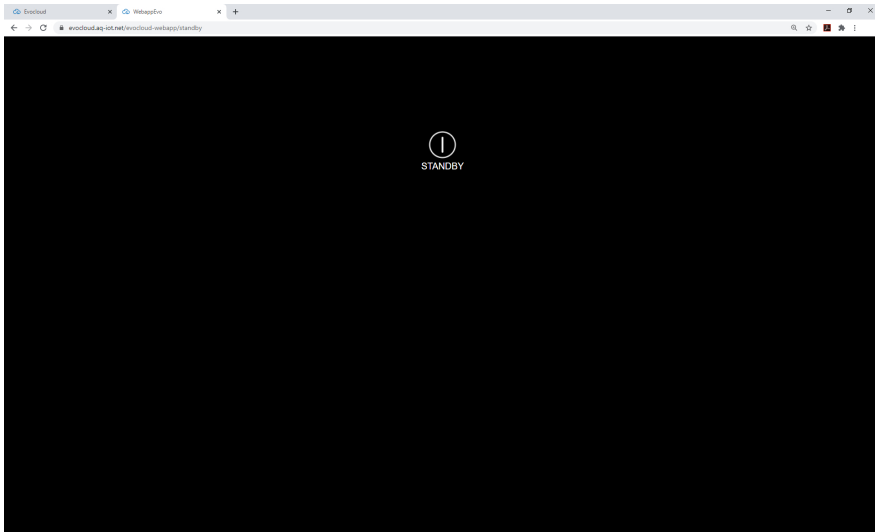
In order to ensure a correct and continuous use of the WEBAPP and the EVOcloud, it is recommended to end the work session by selecting the user icon at the top right of the home page and then clicking the logout button..



13 - TROUBLESHOOTING AND F.A.Q.

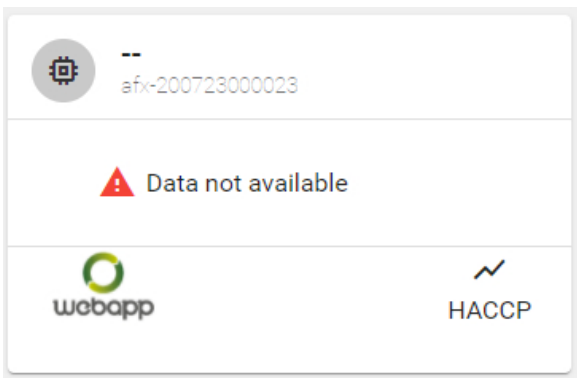
Below are explained the methods for solving some problems that may arise:

1- The machine home page is not accessed from the Webapp. Nothing happens when you press the STANDBY button:



If you have accessed the STANDBY screen, the connection is active. It is necessary to wait up to a maximum of 2 minutes before being able to give the power command to access the home page.

2 -The EVO CLOUD screen shows that the machine data is not available and the status in the installation list is orange:



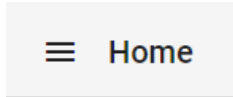
The communication to the cloud is in error, check the signal strength from the info screen, if it is absent, check the network cable and that the router has not gone into error.

If the "Data not available" screen appears on the first connection, the network connection does not have the correct permissions for communication to and from the cloud data server. It is not possible to provide explanations for all routers available in the market, please refer to the internet service provider to change the "PORT MAPPING" settings with the following IP address / port number:

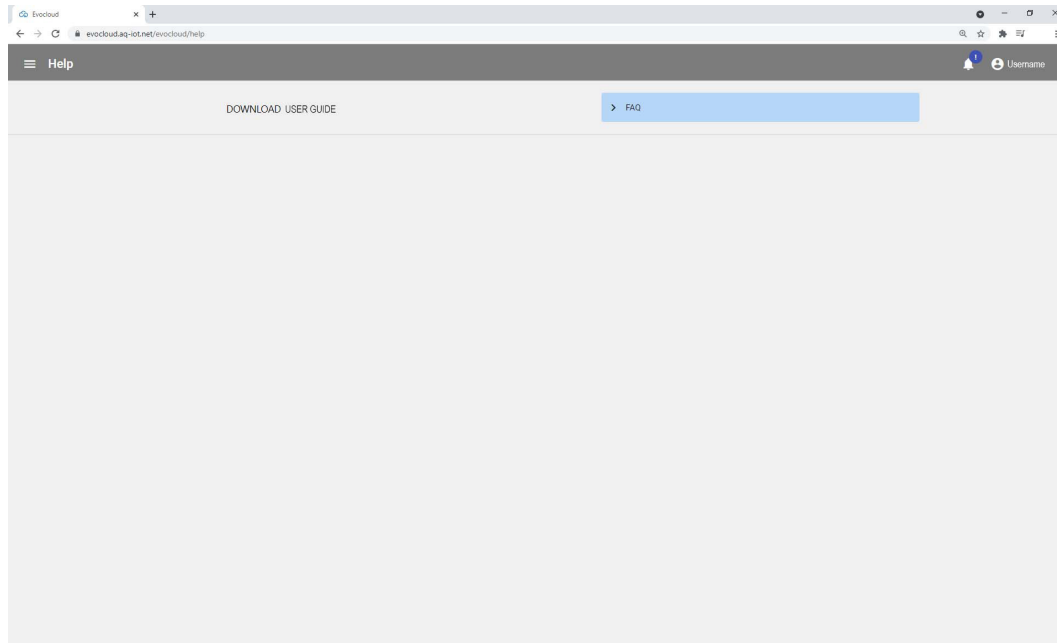
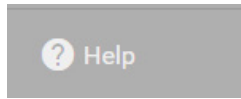
Door address
8883/tcp
11940/tcp

There is also a Frequently Asked Questions section.

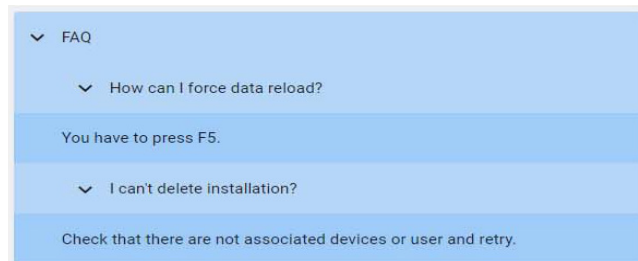
From the Evocloud home page, click on the icon



From the drop-down menu, select



Click on the arrow next to the FAQ label, a menu with some questions/answers will open :



By clicking on DOWNLOAD USER GUIDE, it is possible to download the Evocloud guide in the following languages :

- Italian
- English
- French
- Spanish
- German