QBO CONTROL DISPLAY

ISTRUCTION FOR COMMAND

AND RUNNING ColdAIR

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GENERAL INFORMATIONS

DESCRIPTION:

New generation control pannel, designed for the command and management (even remotely for the “Plus” model only) of one or more ColdAir equipped with relative internal temperatute probes (external on reguest) and humidity.

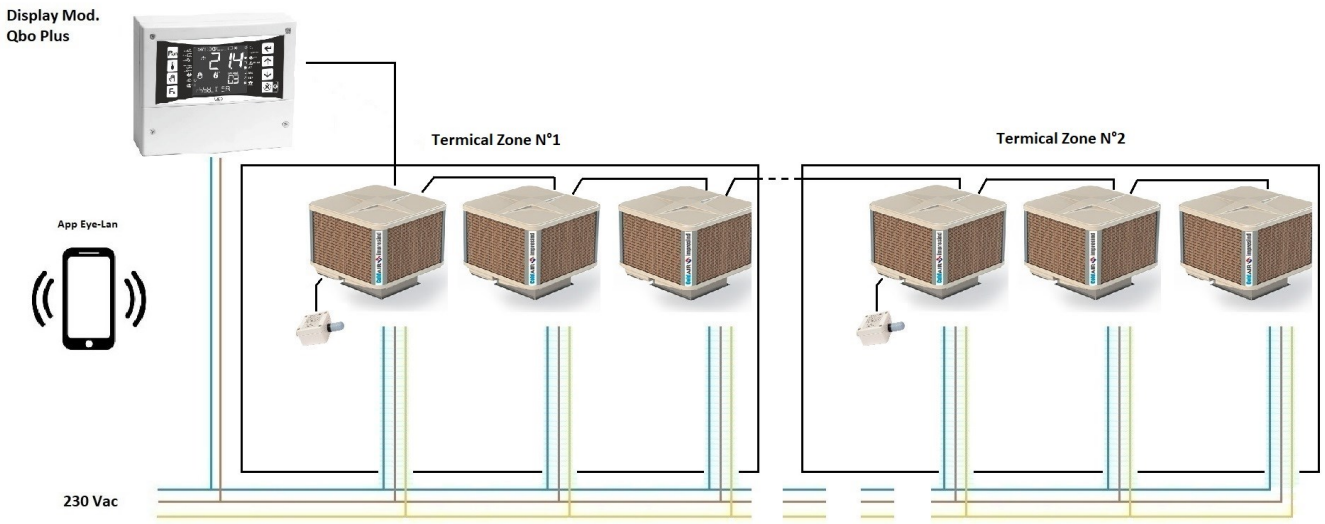
ADVANTAGE:

- allows control from both the Clound and/or the APP (for the “Plus” model only)
- manages up to 16 indipendent ColdAir (total 32 probes)
- allows programming for a total of 28 timer events
- reduction of energy consumpion by means of external thermal probe (optional)
- clarity of reading thanks to the 3.2” LCD display with text on a black anti-glare background
- Manages up to a maximun of two global probles

TECHNICAL FEATURES:

- Power Supply : 230 Vac
- Consumption: 5 W
- Dimension: 180x150x65 mm
- Protecntion: IP44
- Use temperature: 10°C / 40°C

SYSTEM EXAMPLE SCHEME:



COMMAND DESCRIPTION:

Enable or disable the selected network module

Access the set-point of the selected grid module

Select manaual and/or automatic , by accessing the list of timer programs

Access to the main menù, and if there are any errors, to see what error it is

Access to the various submenùs and confirm parameters

Selection of the various network modules connected and/ora increases the value of the selected paremeter

Selection of the various network modules connected and/ora decreases the value of the selected paremeter

Exit the selected function and/or return to the previous menù

NETWORK CONNECTION DEACTIVATION/ACTIVATION (only for model PLUS) :

Before proceeding with any procedure , it is necessary to check whether the display is enable or disabled the connection to the network.

This check is necessary because, if this setting is enable, it will not be possible to access many of the basic functions listed below from the keyboard.

To check this parameter, proceed as follows:

- Press the buttons +
- The message “HoR” will appear on the display, press key
- Modifiy the parameter using keys and set it to “1”
- Press the button to confirm
- To exit the menù press or wait 5 sec

HoR = 0	display connected to a network, it is possible to access and modification of all parameters by Cloud or by App.
HoR = 1	display disconnected from the network so access is not allowed to the various parameters by Cloud ar App , but only by keyboard

DATE AND TIME SETTING:

The firt operations to be performed is setting the correct date and time.

At the first start, the display wull show the hour flashing for a new minutes.

It will be possibile in that time frame to change the time and date without accessing any menù and/or function.

Here is how to change the date and the by accessing the appropriate menù:

- Check it is on the “home” screen (led on)
- Press the button until che icon
- It will possible change the time by buttons
- To confirm press the key
- At this point the minutes will be flashing. Proceed with the modification by repating the same operations described for changing the time
- Repeat the same operations for day, year and month
- Confirm all by the button

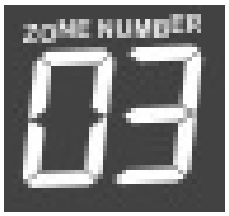
SET-POINT SETTING:

To view the set-point parameters, access to the dedicated screen of the interest module.

For access on the dedicated screen press the button

Example screen:

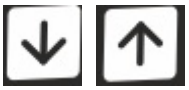
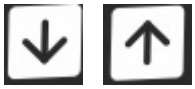
Identify the module



Set-Point start parameters:

- Temperature : 26°C
- Humidity : 75%

To access the set-point parameters, proceed as follows:

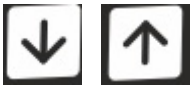
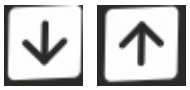
- Press to access the module menù
- Select the set menù by keys 
- Press to enter
- The set –point parameters wull be visible
- To modify a parameters press
- Modify the parameters by 
- Press to confirm
- For exit press or wait 5 sec.

VISUALIZATION INSIDE PARAMETERS:

To view the inside parameters, check that you are in the dedicated screen.

To access to the dedicated screen, view the operations in the previous paragraph.

To view the values by the probes, proceed as follows:

- Press to access the menù of the module
- Select the “INFO” menù by 
- Press to enter
- Select the parameters by 
- Press view the parameters
- Press to exit or wait 5 sec.

Values available for each module and/or thermical zone:

- TA: inside temperature
- UA: inside relative humidity
- ET: external temperature ***

*** = only optional external probe

Notes: if there is a single probe for multiples modules, it must already be configured.
Max two global probes

TIMER PROGRAMS SETTING:

The Qbo control display allows the definition of automatic activities for a total of 28 timer program for only module.

For a total of 448 possible combinations (28 program * 16 modules)

These timer programs become activie only “Automatic” mode.

It will not be possible to define a weekly function with a single program: this programming must necessary be defined for each day of the week.

Before proceeding with the configuration of the timer programs , define how to manage the whole: single program for each termal zone, one programmfor single module, or mixure. For this opportuniti programs view parameters “t8” in menù “PAR” for only module: to access in “PAR” view the previous paragraphs.

Definition of parameter “t8” value :

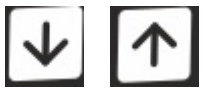
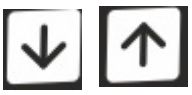
- “t8”=“no”: time anable. 1 or 2 depending on thermal zone probe
- “t8”=“YES”: timer disalbe. Module responds only internal program timer regardless of the thermal zone to it is associated

Note: the definition of the thermal zone is done throug hardware with the setting during installation (on the power board)

To set an automatic timer program proceed as follows:

- Press

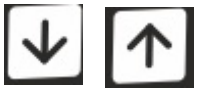
to access the management menù of the module
- Select the “Fnc” menù using the keys
- Press
to enter

- Select the “A-M” menù using the keys 
- Press to enter
- Select “AUTOMATIC” using the keys 
- Access in the first free program with

If the display shows “- - : - - “ then the selected programming space is free

If the selected programming space is full, access the next programming space by keys

After selecting the appropriate programming space, proceed as follows:

- Press until the icon appears on the display
- Hour will start flashing. It will be possible to change it.
- Select the correct time using the keys 
- Press to confirm
- The minutes will flash. To change the minutes, proceed as described above.
- Repeat the same sequence for day.
- Press to exit

List of functions be selected:

- “COOL”
- “FAN”
- “OFF”

For correct operation in automatic mode, it will be necessary to associate the relative shutdown program to each program.

DELETE ONE OR ALL TIMER PROGRAMS:

Select the timer program of interest, and proceed as follows:

- Press until the message “- - : - -”
- The program is deleted
- Press to exit

If to delete alle timer programs stored in memory, proceed as follows:

- Select any program
- Press for at least 6 second until the message “EALL”

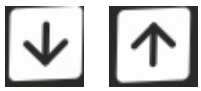
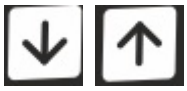
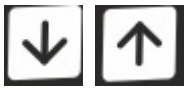
All time programs will be deleted. In memory, press to exit

ENABLING/ACTIVATING NETWORK MODULE:

Before proceeding with switching on the device, chack that the module is enable.

Enabling allows the correct exhange of commands and data between the display and module.

Check the module is activated, proceed as follows:

- Access the module screen as described in the previous pragraphs
- Press to access on the menù
- Select “FnC” menù by keys 
- Press to enter
- Select “P-on” by keys 
- Press to enter
- Select “P-on=1” by keys 
- Press to enter
- Press to exit

If “P-on=0” only some basic will be allowed. The communication of errors or commands from the display will not be active.

OPERATION:

The Qbo control display allows the selection of the type of operation for each machine or for each thermal zone.

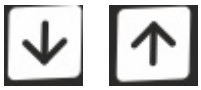
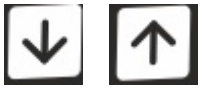
The possible modes of funtion are:

- MANUAL FAN
- MANUAL COOL
- AUTOMATIC

- “AUTO”
- “COOL”
- “FAN”
- “OFF”

For a functions detail description view the cooler istruction (doc. STP 101.120)

It is described below how to select and activate the operating mode:

- Access the module screen as described in the previous paragraphs
- Press to access on the menù
- Select the “FnC” menù by keys 
- Press to enter
- Select “A-M” by keys
- Press to enter
- Select the correct operation by keys 
- Press to confirm
- Press to exit

NOTE: “H-C” parameter must be configured as “C” (Cool)

FAN GROUP SPEED REGULATION:

The Qbo control display allows the selection of different fan unit speeds.

The number of speeds change in according to the cooler model.

As the speed of the fan group varies, the air will vary. The specifica air flow for any fan speed are shown in the air cooling instruction.

The operations for modifying the fan speed are shown below:

- Access the module screen as in the previous chapters
- Press to access menù
- Select “FnC” menù by keys
- Press to access menù
- Select “FAN” by keys
- Press to enter
- Select correct fan speed by keys
- Press to confirm
- Press to exit

NOTE: the “AUTO” parameters of the “FAN” is the automatic/modulating speed

QUICK ACCESS TO THE HOME PAGE:

Once all the opreations have been completed, it may be necessary to return to the home page.

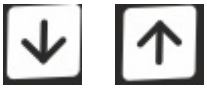
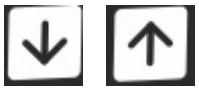
To quickly access the home page, press

The led will ligh up.

NETWORK MODULE ACQUISITION UPTADE:

It may happen that one or more network modules are not correctly acquired by the system.

Proceed as follows:

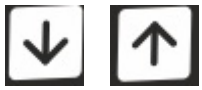
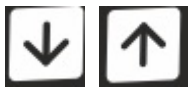
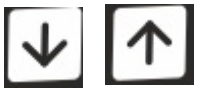
- Check it is in the home page (led on)
- Press
- Select “Lrn” function by keys 
- Press to confirm
- Select “YES” by keys 
- Press to confirm

NOTE: at the first start the Qbo displays automatically start this function. But if the switch (on the power board) was not set correctly, the module may not be acquired by the display

KEYPAD LOCK AND UNLOCK:

The Qbo display allows the keyboard to be locked so that access to the functions is not impossible.

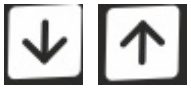
To lock or unlock hte keyboard proceed as follows:

- Check it is in the home page (led on)
- Press
- Select “PAR” by keys 
- Press to enter
- “00” will appear. Press to confirm
- Select “HL” by keys 
- Press to enter
- Select “YES” by keys 
- Press to confirm
- Press to exit

“HL” parameters:

- “YES”= keypad lock
- “no” = keypad unlock

“Loc” = keypad lock. To temporarily unlock the kyboard proceed as follows:

- Press the buttons at the same time 
- “Unl” will appear

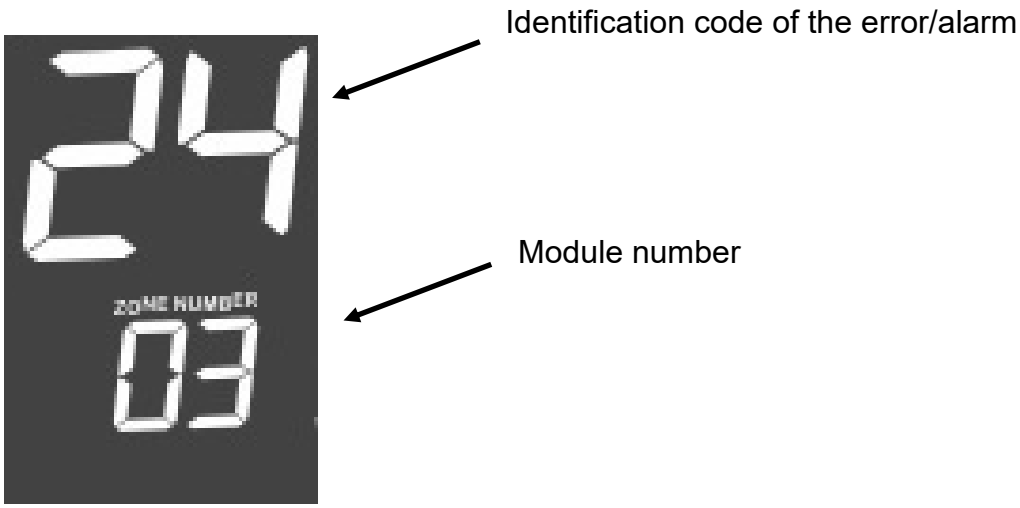
ERROR AND/OR ALLARM REPORTING:

The Qbo display warns by means of a special icon ⚠ on the display that one ore more modules are in error/alarm; it is possible to access the menù that indicates what type or error/alarm.

To view what error is, proceed as follows:

- Press Fx
- Select “ALSE” menù by keys ↓ ↑
- Press ↵

The display will then show the error code with module numer:



LIST OF ERROR AND/OR ALARM CODES:

Below is a lost of the main error codes:

- A10 = internal memory error (remove electric power and restart)
- A11 = network or module not available (restart acquisition module)
- A12 = module lost (view cod. A11)
- A13 = timer allarm (time reset)
- A15 = network not aligned (view cod. A11)
- A16 = hard alarm (turn off and remove electric power)
- A17 = floating alarm (call Impresind assistance)
- A19 = generic alarm (view cod. A16)
- A28 = external probe alarm (view cod. A17)
- A32 = network error (view cod. A11)
- A35 = serial number error (disconnect from web)
- A37 = upgrade required (view cod. A17)

If the error persists , proceed as follows:

- Remove electric power
- Close the water supply
- Call an authorized service center

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Ph. +39 02 95741932

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Web www.impresind.it

ACCESS TO REMOTE COMMANDS (only PLUS model):

The following preliminary checks are necessary:

- The control display (Plus model) must be enable for network connection
- The user must have an account authorized to access (by app)

It is necessary to enable the credential:

- Access the Pay-Store
- Searc Eye-Lan
- Installa app
- Enter
- Select “new account”
- Create new password

It will now be possible to control the system from your personal mobile phone or any PC.

NOTE: first to access from PC, access from app to confirm account.

REMOTE CONTROL BY APP (only PLUS model):

First time , install app.

It will therefore be possible to control your cooling system from you mobile phone.

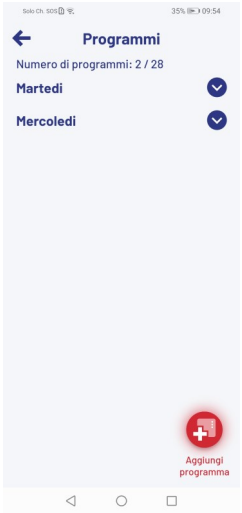
App is simple and very easy.

In the first screen there are following parameters:

- Set-point temperaturer
- Inside temperature
- Current state (Fan, Cool, ecc ecc)
- Current function (Manual, Automatic, ecc ecc)

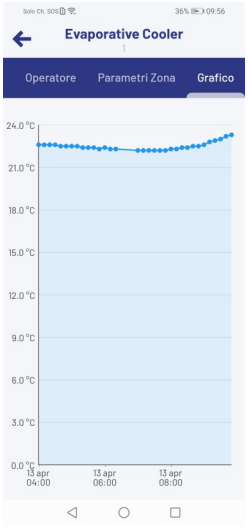
For the automatic cunction there is an apposite page:

- Program time
- Program Parameters
- New program
- Canc one ore any programs



It is possible to access more interest pages, example allarm page.

Also allow to view a performance graphic with parameters trend.

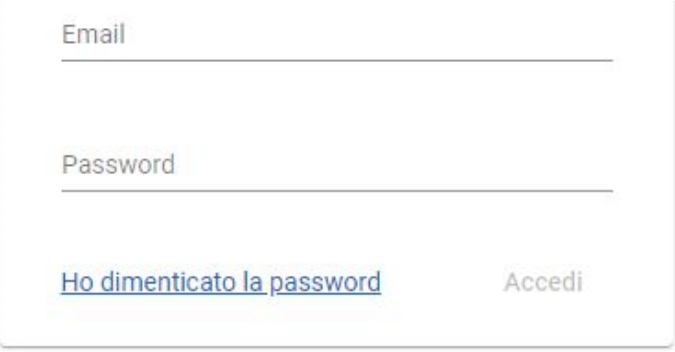


REMOTE CONTROL BY CLOUD (only PLUS model):

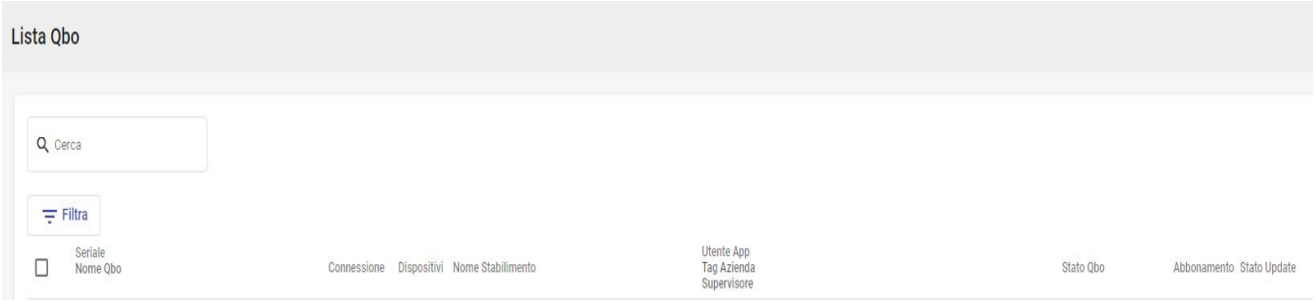
All the functions described in the previous paragraphs are also accessible from the Cloud (InuBesForYou.it)

Access the site:

Enter your account:



Access the home page of your system:



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