

Installation, usage and
maintenance manual

**C-TOUCH
CONTROL**

Rev.2-230511



Table of Contents

1.	Introduction.....	3
1.1.	General information.....	3
1.2.	System features.....	3
1.3.	Installation.....	3
1.4.	General safety.....	4
2.	Installation.....	5
2.1.	Climma C-Touch display location.....	5
1.1.	Cut-out and display mounting.....	5
1.2.	Battery.....	6
1.1.	Battery change.....	6
2.	Operating instructions.....	7
2.1.	Home screen and symbols.....	7
2.2.	Initial settings at first start-up.....	8
2.3.	Main menu.....	9
2.4.	Scheduled mode.....	12
3.	Warnings, alarms and troubleshooting.....	13
3.1.	Warnings and alarms.....	13
3.2.	Basic troubleshooting.....	13

1. Introduction

1.1. General information

Thank you for purchasing a Climma CWS system!

This manual will provide necessary information for the proper installation, operation, and maintenance of your Climma system.

Climma products are designed and produced to the highest standards and they are all tested in the factory. If your Climma system is used according to the guidelines in this manual, it will guarantee you trouble free operation for many years.

If you require assistance, please contact one of our many authorized service centers. To find the service center please check our website www.veco.net or write us at customerservice@veco.net.

1.2. System features

The new Climma C-TOUCH thermostats has been designed to be easy to use and simple, to get the best out of your climate control.

- Weekly scheduler
- Customizable interfaces and colors
- Easy interface
- Designed for the most used cover plates
- Lcd display 2,4' (320x240 px)



C-TOUCH is compatible with Climma self-contain Compact units (serie Mk3 and EF, with MK3 electronic control) and with Climma fancoils (with Mv8 electronic control and MCON electronic control).

C-TOUCH can fully replace Mk3 controls and Mk2 controls, considering that the Mk3 and Mk2 controls needs a 4 position cutout, while C-Touch only a 3 position. While replacing the control, make sure to order the adjusting kit from 4 to 3 positions.

C-Touch display is also compatible with the following cover plates:

Brand	Serie	Veco Code	Plaque code	Cut on support
BTICINO	LIVINGLIGHT	MPACT001	LNA4803**, LNB4803**, L4803**	Yes
BTICINO	AXOLUTE	MPACT001	HA4803** / HB4803**	Yes
VIMAR	ARKE'	MPACT001	Arkè 3 position plaque	No
VIMAR	EIKON EVO	MPACT001	Eikon 3 position plaque (BS type excluded)	Yes
VIMAR	EIKON EXE'	MPACT001	Eikon 3 position plaque (BS type excluded)	Yes
VIMAR	PLANA	MPACT001	Plana 3 position plaque	No
BTICINO	AIR (LIVINGLIGHT AIR)	MPACT101	LNC4803**	Yes
BTICINO	AIR (AXOLUTE AIR)	MPACT201	HW4803**	Yes
VIMAR	IDEA	MPACT301	167*3 (vimar Idea 3 modules)	No

The unit has to be installed by an authorized Climma service center and in compliance with the instructions given in this manual. A bad installation or a misunderstanding of the display functioning may result in possible problems and wrong functioning of the system.

1.3. General safety

Injuries or accidents caused by failure to comply with the recommendations of this manual are solely the responsibility of the unit operator.

- before installation and maintenance operations, disconnect the unit from the power supply. failure to comply may result in injury or death;
- during installation and maintenance follow safety codes, wear safety glasses and work gloves;

2. Installation

WARNINGS

- Failure to follow all the instructions in this manual can cause property damage, injury or death.
- Improper installation, adjustment or alteration can cause property damage, injury or death.
- Electrical connections should be performed only by a certified professional.
- Electrical and grounding connections must comply with the National Electric Code and local electric codes. Failure to comply with this procedure can cause property damage, injury or death.
- Before connecting the unit to the electrical supply, verify that the electrical connection agrees with the specifications on the data plate, placed on the main electrical box of the unit. Failure to comply with this procedure can cause property damage, injury or death.

2.1. Climma C-Touch display location

Choose the right location to install the panel; the Climma C-Touch display has a built in temperature sensor which will measure the ambient temperature, therefore it's suggested to install it at the mid height of the cabin, on an inside wall that provides a good air circulation.

The Climma C-Touch display should not be installed in a position where the temperature reading can be spoiled by other heat/cold sources (under a light, or under direct sunlight, close a technical compartment, in corners where there's no air circulation, ...).

The display must be installed close to the unit to control, in a way that it can be connected with the cable (Climma cables are supplied 6mt as standard, or 12mt and 18mt as optional).

If it's not possible to have the display in a good position, it's always possible to install a secondary probe connected to the electronic board itself (MSENS Climma external temperature sensor); when plugging in the secondary sensor, it will override the reading of the sensor on the display.

1.1. Cut-out and display mounting

Once the right location is selected, make a cut-out to install the display of:

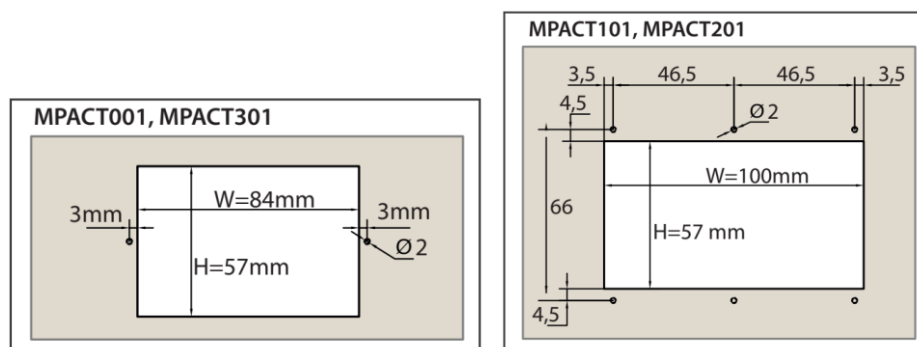


Image 1. Suggested cut-out in mm.

Make sure the cable MCAV* is connected to the electronic board controlling the Climma Compact or Fancoil unit, and then make the cable pass through the cut-out.

Plug in the other side of the MCAV* cable to the C-Touch display and then position the display in the cut-out, fixing it with screws to the wall.

While mounting the display in its final position, be careful about the NTC sensor on the back of the display, it must get into the cut-out. If necessary, gently bend it towards the back of the display.

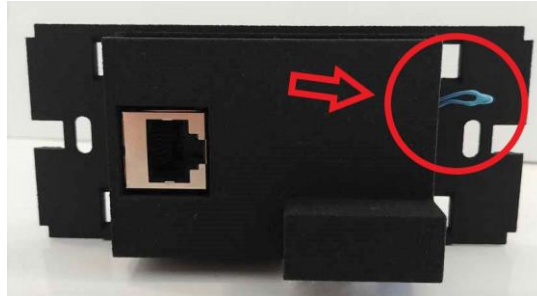


Image 3. Back of the display.

1.2. Battery

Climma C-Touch display comes with a battery, already supplied and mounted on the panel itself.

The battery is a non-rechargeable battery, battery voltage is 3 V and battery type is CR2032.

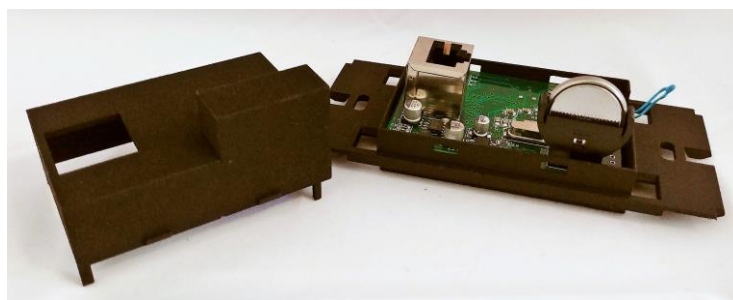
The battery is used only when the panel is powered off; the battery will last for a minimum of 2 years when powered off.

When the battery dies, you need to change it and then reset date and time values on the display (all the other parameters and information will remain in the display memory).

1.1. Battery change

To change the battery, you need to turn off the unit, and remove the panel from the wall, unplugging the connection cable to the unit.

Then remove the back cover of the panel, as in the following picture.

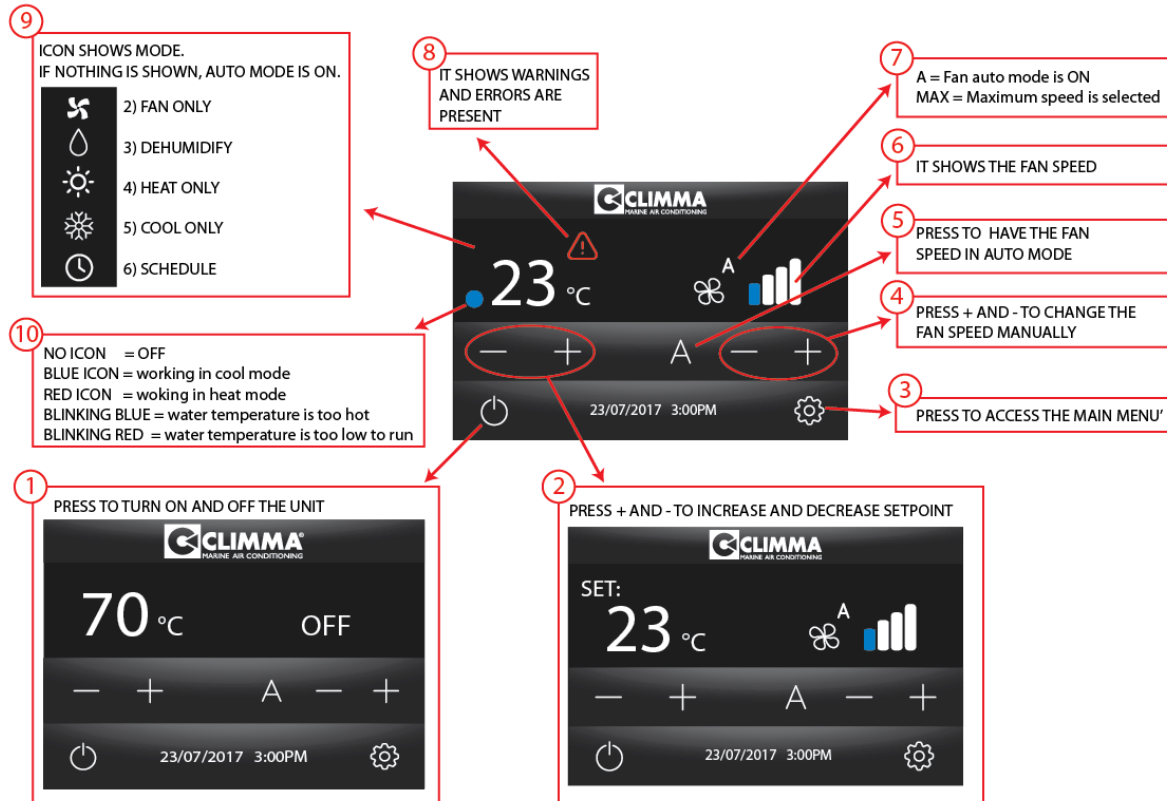


Then change the battery with the new one (always 3V, CR2032), following the indication + an – on the battery holder, indicating battery correct positioning.

When the battery is changed, close the panels again, then plug the cable and mount it back on the wall.

2. Operating instructions

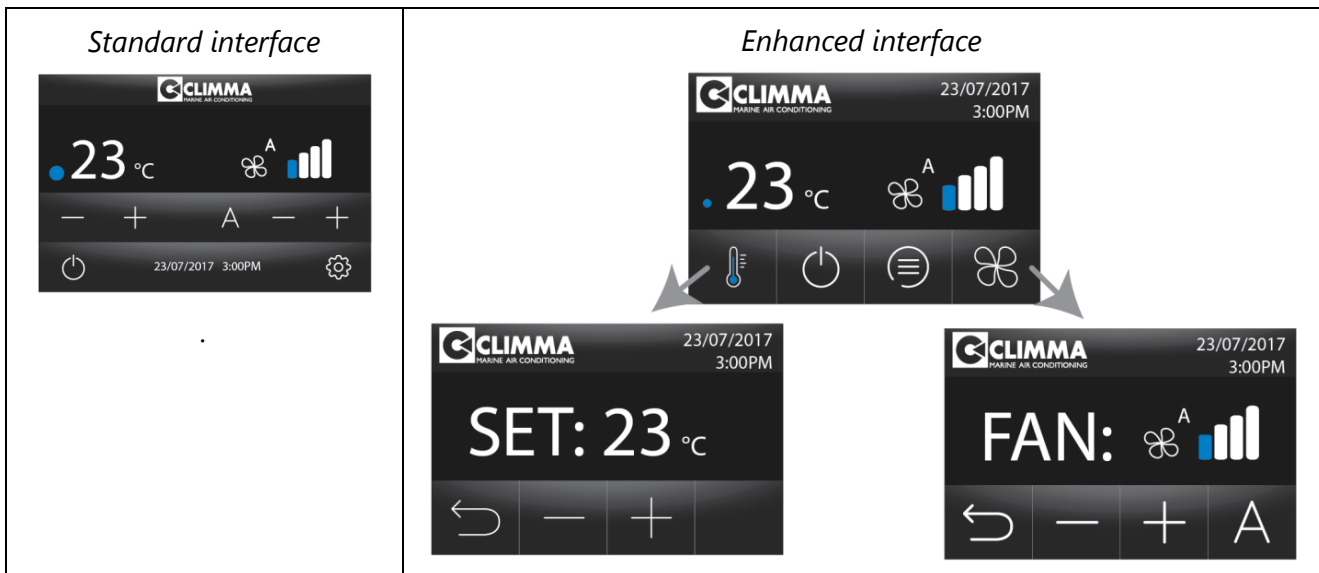
2.1. Home screen and symbols



- (1) Pressing the ON-OFF button allows turning on and off the unit.
- (2) The + and – signs allows to increase or decrease the set-point temperature between its maximum and minimum values.
- (3) Press the MENU button to access the screen Main Menu, described later on.
- (4) Press + and – to manually change the fan speed. If the unit is running the fan in Auto mode, by pressing + or – you will automatically switch to manual mode.
- (5) Press to turn ON or OFF the fan Automatic mode; when fan is in Auto mode, the A is displayed on the screen.
- (6) The bars are showing the actual fan speed through blue (or red in case of heating) bars.
- (7) The symbol over the fan can be A, in case fan is running in Auto mode, or MAX, in case the fan is at it's maximum speed.
- (8) When errors or warnings are active, the display will show a red "alarm" symbol; by pushing the symbol you can access the active warnings and error page directly.
- (9) The small symbol on the left of the temperature shows the unit current functioning mode:
 - Auto mode (no symbol)
 - Fan only (fan symbol)
 - Dehumidify (drop symbol)
 - Heat only (sun symbol)
 - Cool only (snowflake symbol)
 - Schedule mode (clock symbol)

- (10) The small spot allows you to better understand the unit:
- No spot means unit is OFF
 - Blue spot: unit runs in cool mode
 - Red spot: unit runs in heat mode
 - Blinking blue spot: unit cannot run as water temperature is too hot
 - Blinking red spot: unit cannot run as water temperature is too cold

The Climma C-Touch display has 2 interfaces available as main screen, both with the same functionalities.



2.2. Initial settings at first start-up

At the first startup, the C-Touch display has to be set depending on the system it needs to control. At first startup, please select the language (it may be changed also later on from the Main Menu):



The display will automatically recognize if it's connected to a Compact or a Fancoil unit, but the type of Compact/Fancoil needs to be selected; select the right model and press Confirm.

(the setting can be also changed again later from the Menu)

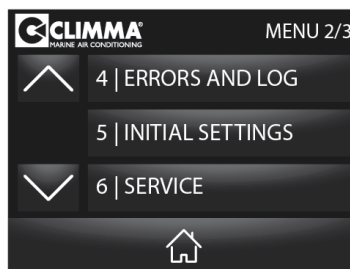
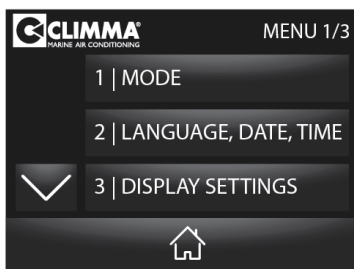
<p>COMPACT (SELF CONTAINED)</p>	<ul style="list-style-type: none"> • <u>PR1 – EH</u> Select this if your Compact unit has an electrical heating; you can recognize this from the unit Code, as it contains an EH (e.g. MC5K3EHU "Compact 5 EH 230V/1/50") • <u>PR2 – CO</u> Select this if your Compact unit is a "cool only" model; you can recognize this from the unit Code, as it contains an CO (e.g. MC12EFCOU "Compact 12 CO 230V/1/50")
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	<ul style="list-style-type: none"> • <u>PR3 – RC</u> Select this if your Compact unit is a Reverse Cycle model; you can recognize this from the unit Code, as it contains an RC (e.g. MC5K3RCU “Compact 5 RC 230V/1/50”)
<p>FANCOIL</p>	<ul style="list-style-type: none"> • <u>PR1 – FO</u> Select this if you are using a standard fancoil, with no water valve and no electrical heating. • <u>PR2 –WV</u> Select this if you are using a fancoil, with water valve, but no electrical heating. • <u>PR3 – WS</u> Select this if you are using a standard fancoil, with no water valve and no electrical heating. <p>If the water valve is there, it is mounted directly on the water connections of the fancoil, and it’s electrically connected to the fancoil board.</p> <p>If the fancoil has electrical heating, you can see it from its code as it contains the heater W value in the description (e.g. MEVA7EJ “FAN COIL EVA 7 DRY PAN J + RES. 1300W” has a 1.3kW heater)</p>

2.3. Main menu

The main menu is accessible through the main screen and will allow you to program the display with a lot of different functions:

- **MODE** – Allows you to switch among modes of operations
- **LANGUAGE, DATE, TIME** – Allows you to modify language, time and date
- **DISPLAY SETTINGS** – Allows you to modify screen interfaces, colors and brightness
- **ERRORS AND LOGS** – Allows you to access the active errors screen and the warning/error log
- **INITIAL SETTINGS** – Allows you to change the
- **SERVICE** – Allows authorized service centers to access hidden parameters under password
- **TROUBLESHOOTING** – Guides the user into basic maintenance and troubleshooting of the unit
- **DISPLAY INFO** – Shows the display basic information (sw version and electronic board connected)



Main menu screens.

Main menu different pages can be scrolled down by using the ARROW UP and ARROW DOWN. To access the menu voice, just press the menu button.

By pressing the HOME symbol, you can always go back to the main initial screen.

	<p>MODES</p> <p>This Menu allows you to change the Mode of operation among 6 different possibilities:</p> <ul style="list-style-type: none"> • AUTO – this is the standard mode. In this mode the display automatically selects the correct functioning mode to reach (or keep) the Set-point temperature. • FAN ONLY – In this mode, the display runs the fan only (if it's a Compact, the compressor will not start). • DEHUMIDIFY – In this mode the functioning of the unit is divided into 3 phases: <ul style="list-style-type: none"> ○ 30 minutes in Fan Only ○ Cool Mode for 30 up to 60 minutes long (parameter C60) ○ Unit OFF until the new cycle starts after 6 hours. • COOL ONLY – The unit works only in cool mode. • HEAT ONLY – The unit works only in heat mode. • SCHEDULE – In this mode, the system will work based on the scheduled of the selected program (see Chapter 2.4 for more).
	<p>LANGUAGE, DATE, TIME</p> <p>This screen allows modifying language, time and date; pressing on the item that needs to be change to access the detailed screen.</p>
	<p>DISPLAY SETTINGS</p> <p>This screen allows modifying screen interfaces, colors and brightness.</p> <ul style="list-style-type: none"> • Brightness: the display has 6 levels of brightness that can be manually adjusted (default is maximum brightness) • Screen saver: the display can be set to have no screen saver, a black screen saver, or a screen saver with Climma logo; also the screen saver time can be adjusted (from 1 up to 10 minutes). • Screen colors: the display has 2 different coloring; the default is the dark coloring, but also a light colors is available. (available from version 1.1 up) • Main screen layout: available from version 1.1 up) • Main screen layout: the display has 2 interfaces available as main screen, both with the same functionalities, which can be selected from here: standard interface, and enhanced interface (bigger icons).

	<h3>ERRORS AND LOGS</h3> <p>This screen allows accessing the active errors screen and the warning/error log.</p> <ul style="list-style-type: none"> Active errors: the screen shows all the errors, and it underlines the active ones with a full spot; you can also try to reset the error from this screen pressing "Press to reset". <ul style="list-style-type: none"> Error log: the screen shows the list of the past errors, with date time information.
	<h3>INITIAL SETTINGS</h3> <p>This screen allows accessing and modifying the initial board and display settings.</p> <ul style="list-style-type: none"> Board program: from this screen, you can change the settings of the Compact/fancoil which have been selected during the first startup (see 2.2. <i>Initial settings at first start-up</i>). Modbus address: from this screen you can change the Modbus address of the electrical board (only for fancoils with MV8 control) Celsius/Fahrenheit: from this screen you can change the unit of measure used on the display, from Celsius to Farenheit, and you can also modify the scale used for the set-point.
	<h3>SERVICE</h3> <p>This screen allows authorized service centers to access hidden parameters under password.</p>
	<h3>TROUBLESHOOTING</h3> <p>This screen guides the user into basic maintenance and troubleshooting of the unit. In the main screen you can see some useful information on the system that can help in case of troubleshooting, or you can access a basic guide for <i>Maintenance</i> and <i>Troubleshooting</i>.</p>
	<h3>DISPLAY INFO</h3> <p>This screen shows the display basic information: Model, Software version and Board code.</p>

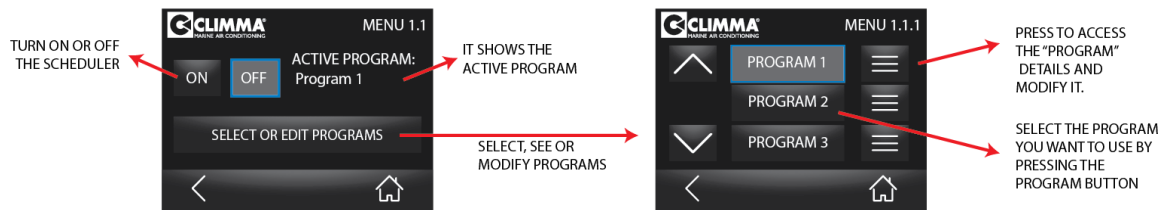
2.4. Scheduled mode

The Climma C-Touch display allows programming the unit to start and stop when needed, at a specific time and day of the week; it also allows you to select the desired mode and temperature.

The Climma C-Touch scheduler comes with 6 programs already set, that can be changed as needed.

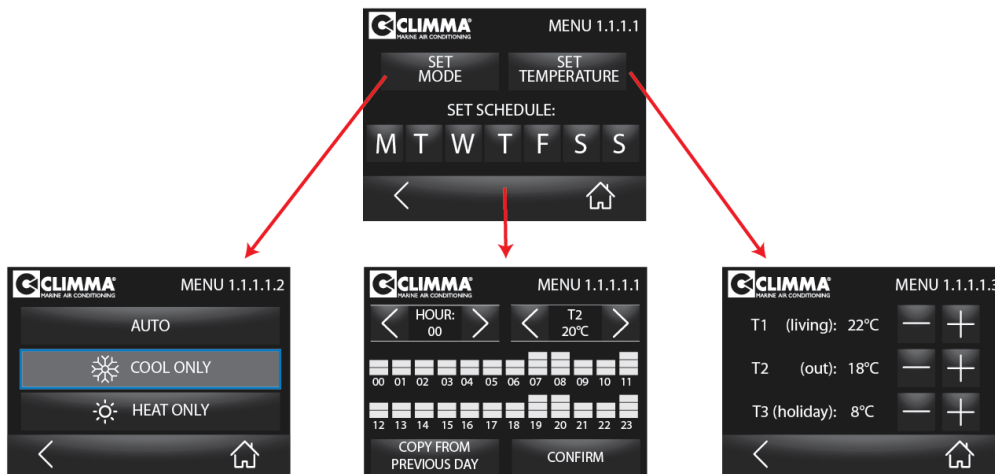
To access the Scheduler, go to the Main Menu:

MAIN MENU → MODE → SCHEDULE



From the main Scheduler screen, you can Turn the Scheduler ON or OFF, or access one over the 6 programs to select them, check how they are configured, or modify them.

Once you've selected a specific program details, you will access the screens below.



- Set mode: you can change the preferred Mode of functioning for the program selected.
- Set Temperature: you can change the 3 different Set point temperatures used for the program selected.
- Set Schedule: for each single week day you can select the hourly preferred temperature settings.

3. Warnings, alarms and troubleshooting

The system logs all the warnings and errors, keeping track of all the information when the issue occurred.

When there is a warning/error, the main display will show a red alarm symbol; to see the warning/error details, press the red alarm to get more details.

3.1. Warnings and alarms

Error code	Error description	Notes
ERROR 1	Board not programmed, or change over error	The display has no program selected, please refer to chapter "2.2. Initial settings at first start-up" and access: MAIN MENU → INITIAL SETTINGS → BOARD PROGRAMMING If the board is programmed correctly, then the change over probe maybe faulty.
ERROR 2	Communication timeout	
ERROR 3	External alarm	
ERROR 4	Clean filter alarm	This is a warning that comes every 2500 running hours, and it suggest to check the filter for cleaning or to change it, depending on it's status.
ERROR 5	HP alarm	(on Compact only) This alarms is the high pressure alarm. If the Compact is running in cool mode, check the sea water flow and pump, it may not be working. Check the sea water filter and clean it. If the compact

3.2. Basic troubleshooting

PROBLEM: DISPLAY IS OFF

- Check the power supply to the el electronic board of the Compact/fancoil unit.
- Check the connection cable plug both from the powerboard side and from the panel side.
- Check the cable integrity.

PROBLEM: THE DATE AND TIME ARE NOT SET

- Change the battery, as it may be dead.