

Ufly P



TOUCH CONTROL



INSTALLATION AND SERVICING MANUAL



DICHIARAZIONE DI CONFORMITA' DECLARATION OF CONFORMITY

Il Fabbricante DICHIARA
The manufacturer DECLARE

sotto la propria esclusiva responsabilità che il prodotto sotto riportato soddisfa i requisiti delle Direttive e Normative sotto menzionate

under our sole responsibility that the below indicated product meets the requirements of the following indicated Directives and Standards

Prodotto: TERMOREGOLAZIONE
Product: HEATING SYSTEM

Serie/Modello/Tipo: **UFLY**
Series/Model/Type:

Direttive UE: 2014/30/UE (EMC) Direttiva compatibilità elettromagnetica/
EU Directives: 2014/30 EU (EMC) Electromagnetic Compatibility Directive

2013/813/UE: Regolamento di applicazione Direttiva 2009/125/CE (ErP)
2013/813/EU: Regulation implementing Directive 2009/125/EC (ErP)

Norme applicate: EN 60730-1:2011- Dispositivi elettrici automatici di comando per uso domestico e
Applied Standards: simile. Parte 1: Norme generali
/ Automatic electrical controls for household and similar use.
Part 1: General requirements

2014/C 207/2, punto 6: Comunicazione Commissione UE sulla classificazione dei
dispositivi di controllo temperatura* / EU Commission communication on
temperature controls classification"

(*) In merito alle classi di controllo applicabili fare riferimento agli specifici manuali d'uso dei dispositivi.

(*) For applicable temperature control classes see specific devices' user manuals.

13 Febbraio 2019

(*)		
Classe / Class	Contributo all'Efficienza energetica stagionale di Riscaldamento dell'ambiente in % / Contribution to Seasonal Energy Efficiency of Room Heating in %	Descrizione / Description
V	3%	Ufly + Sonda ambiente / Ufly + Room sensor
VI	4%	Ufly + Sonda ambiente + Sonda Esterna / Ufly + Room sensor + External sensor

Attention:

The manufacturer will not be held liable in case of damage to persons, animals or objects resulting from failure to comply with the instructions contained in the manuals supplied with the boiler.

1	DESCRIPTION	4
1.1	Reading Icons in Home page	4
1.2	Part description	4
2	DISPLAY AND FUNCTIONS DESCRIPTION.....	5
2.1	Display mode.....	5
2.2	Button One page back and Button Home	5
2.3	Display in Home page	5
2.4	Set up Menù	6
2.5	CH Heating Menù.....	10
2.5.1	Hot keys	10
2.5.2	Programming and possible adjusting at preset programs	12
2.6	DHW domestic hot water Menù.....	18
2.6.1	Hot keys	18
2.6.2	rogramming and possible adjusting at preset programs	20
2.7	Solar Menù	22
2.8	Devices Menù.....	23
2.9	Burner Menù.....	25
2.10	Error code.....	28
	Info	31
	Screen calibration.....	32
	Wiring conenction.....	33

Analytical index

Burner / Generator	25
CH default	12
CH Heating hot keys.....	10
Comfort	7-10-11
Compensation	7
Correction	7
Day 1 2 3	13
DHW domestic hot water.....	18
Eco	7-10-11
External compensation chart.....	16
Gateway	7
Legionella	19-20
Manual function	17
Maximum boiler	16
Maximum flow.....	16
Maximum outdoor.....	16
Minimum boiler	16
Minimum flow.....	16
Minimum outdoor.....	16
Modbus	8
Modulation temperature.....	14
Period 1 - 2 - 3	15
Real temperature.....	14
Request temperature.....	14
Reset	17-21
Room thermostat.....	7
Screen Calibration.....	29
Solar panel #1 - #2	22
Summer	11
Tank bottom	22
Tank top	22
Week 1 - 2 - 3	13
Winter limit	16

1

Description

1.1 - Reading Icons in Home page



Buttons and symbol (outline + filled color area) shown only in Home page
 Service present and in operation at that time

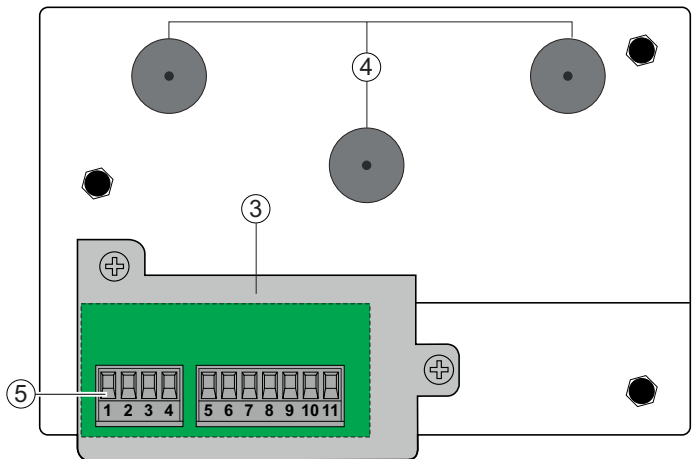
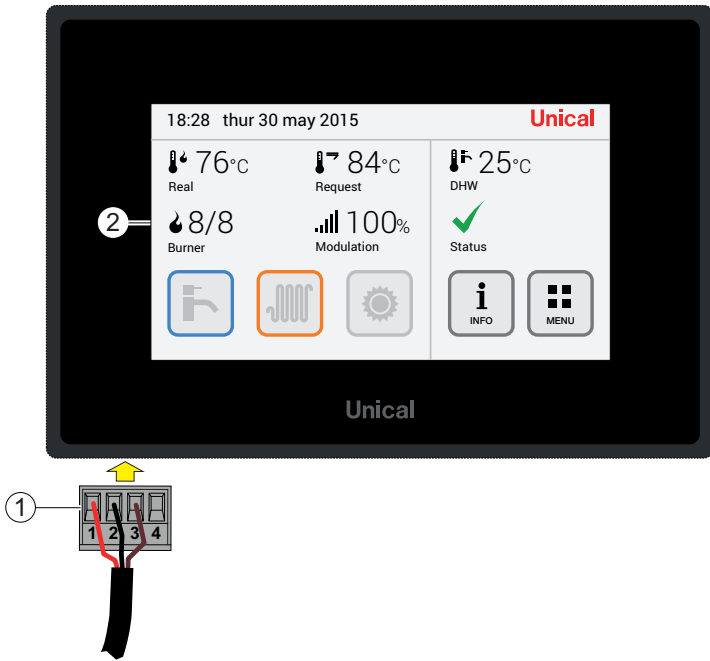
Buttons and symbol (outline + empty color area)
 Service present but not in operation at that time



Buttons and symbol (outline in dark grey no filled area)
 Service disabled or off but installed

Buttons and symbol (outline in light grey no filled area)
 Service not installed

Note: The Menu page icons do not indicate the operating status.

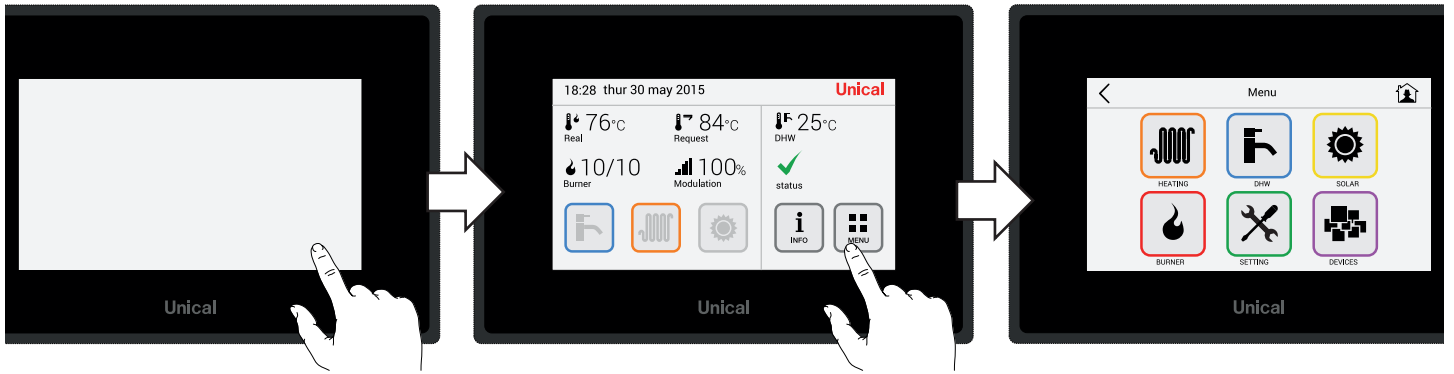


KEY		
1		Terminal connection for Ufly P coming from boiler board.
2		Display Touch

3		Terminal access cover (if present)
4		Magnets for fixing
5		Removable terminals for connection (if present)

2 Display and functions description

2.1 - Display mode



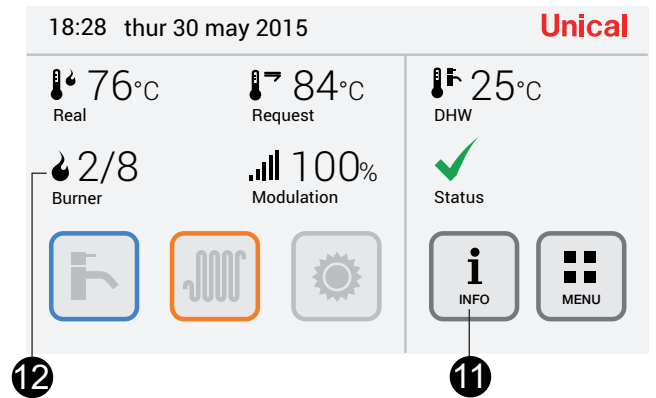
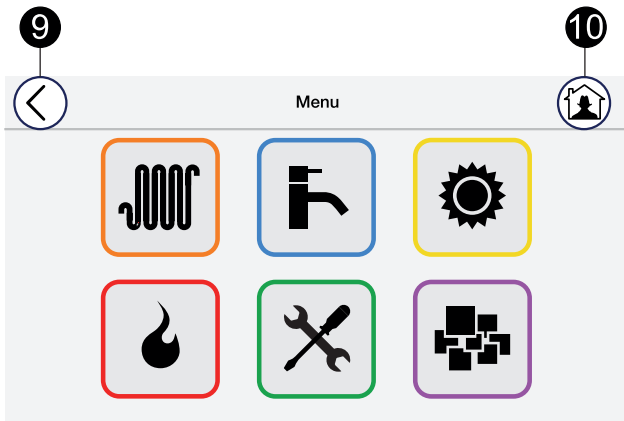
6	Display Mode
	Stand-by

7	Display Mode
	Home page

8	Display Mode
	Menù page

2.2 - Button One page back and Button Home

2.3 - Display in Home page



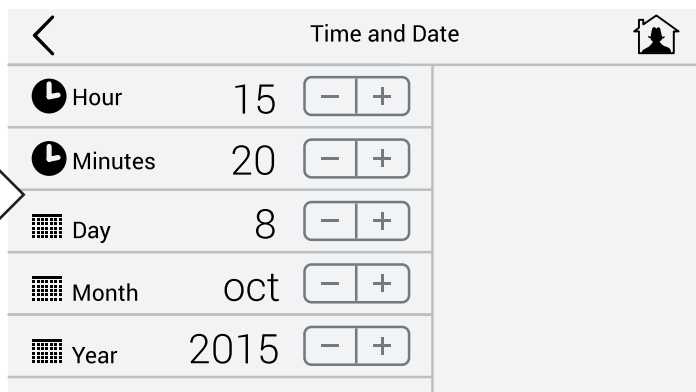
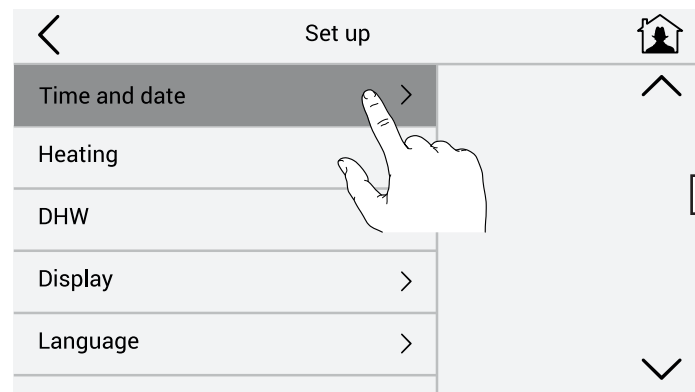
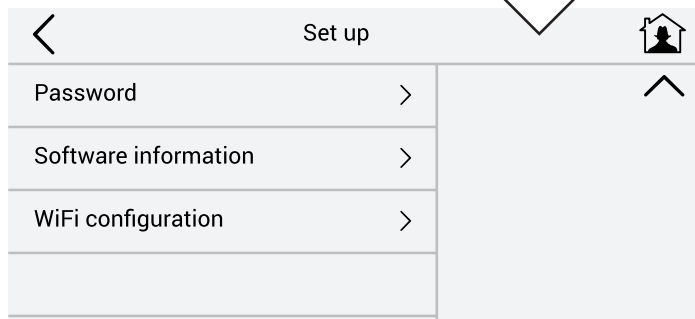
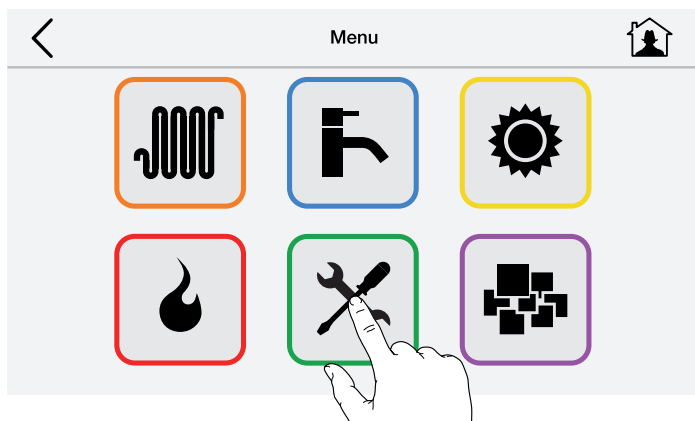
9	<	One page back
10	🏠	Return always to Home page

11	INFO:	see at pag. 30
12	Boiler:	Domestic = 0 ... 1* / 1
		Professional 0 ... 2* / 8
(*) in operation, for ex: (2 boiler activate of 8 available) see at pag. 25.		

2.4 - Set up Menu

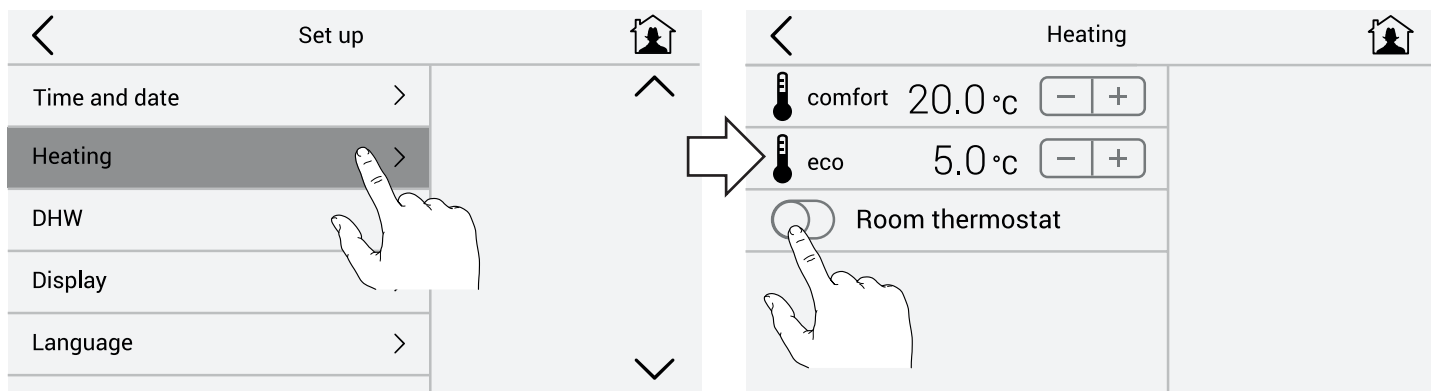


First start - Setting Time and Date

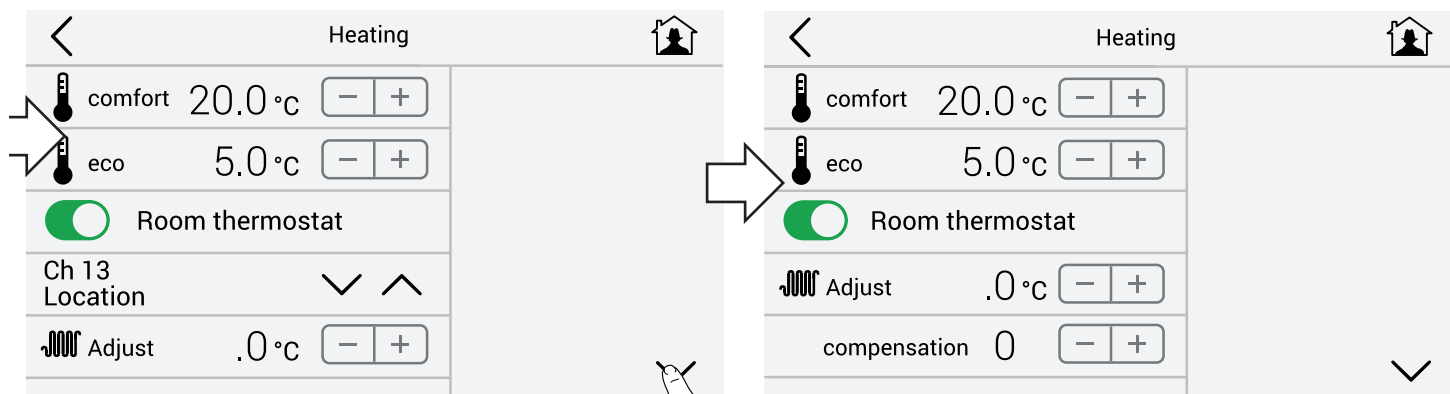




Setting temperature Eco and Comfort for continuous programs in Heating circuit (H24)



Enable room thermostat, only with room sensor connect to the boiler (at Ufly or at additional modules on the bus).
In this case Ufly is used as cronothermostat.



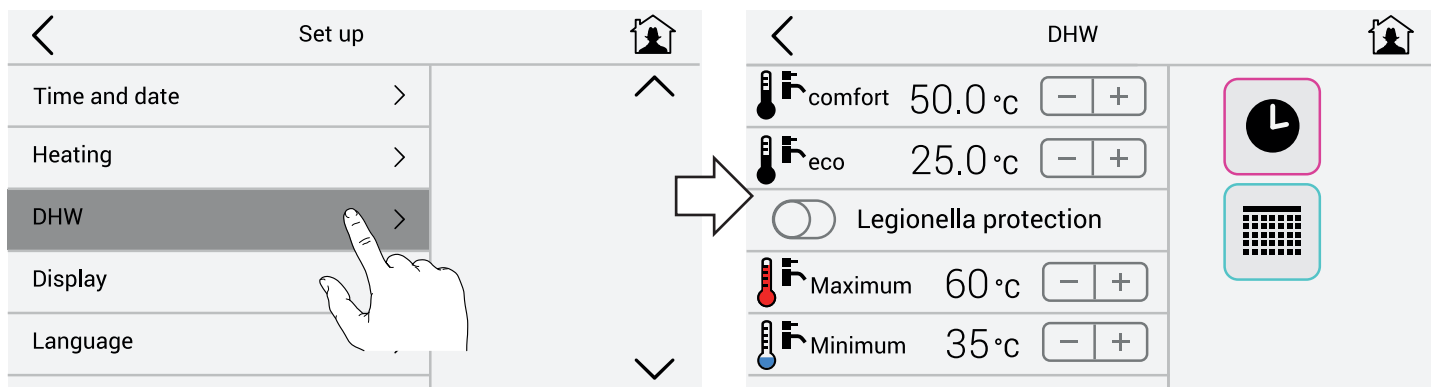
Ch 13 = Name of heating circuit editable (see page 12)

DEFAULT VALUE: comfort 20°C / eco 5°C

Correction: Change the setting value if room sensor measures a different value than expected.

Compensation: increase the value if the system effort to reach the environment set.

Setting temperature Eco and Comfort for continuous programs in DHW circuit (H24)

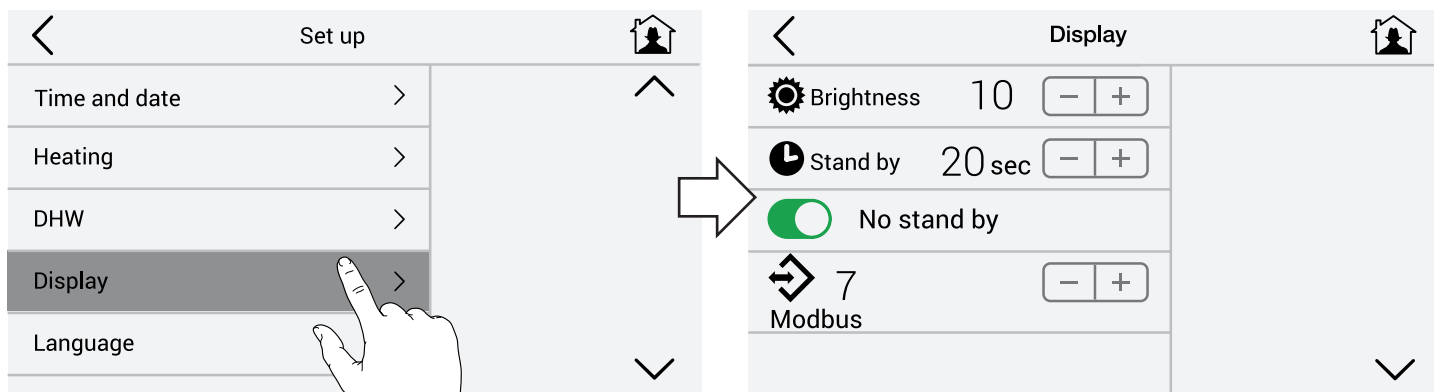


DEFAULT VALUE: comfort 50°C / eco 25°C

Legionella protection: to be activated only in the presence of water accumulations (boilers with kettle or external tanks), (pag. 19- 20).



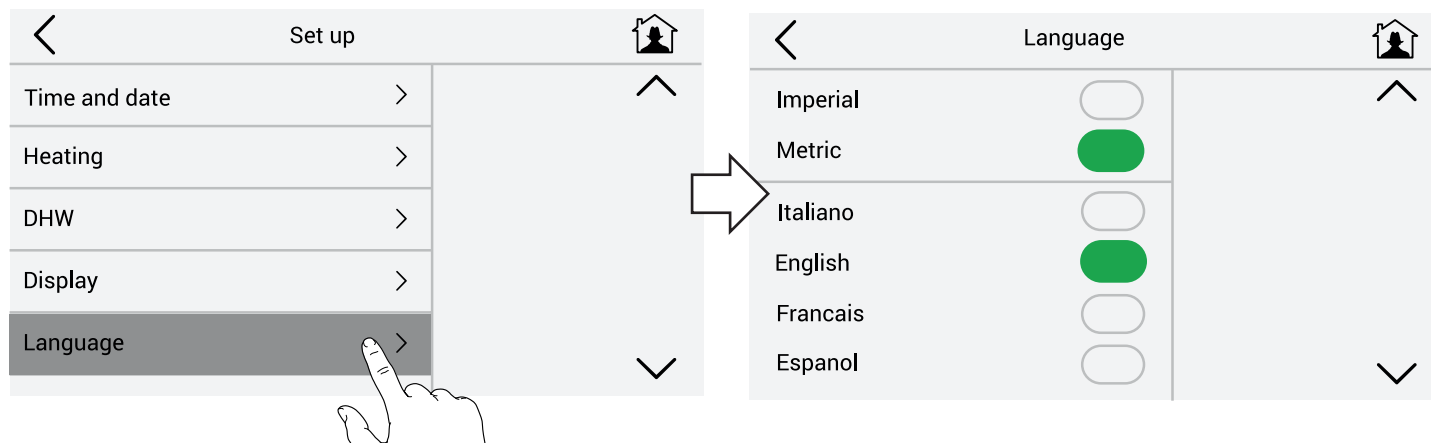
Brightness and Stand by setting



Note: Do not change the value configured for Modbus boiler.

In Homepage the screen turn off after the set time (Default 20 sec.) while the screen is on in other page. if the switch is active No stand by, in case of fault message screen also in Home page doesn't turn off.

Language and Unit setting

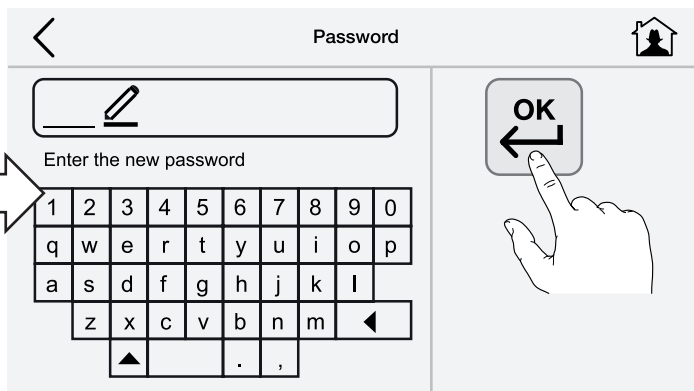
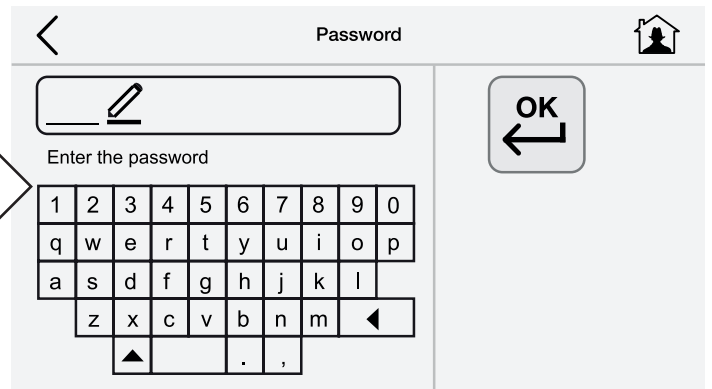
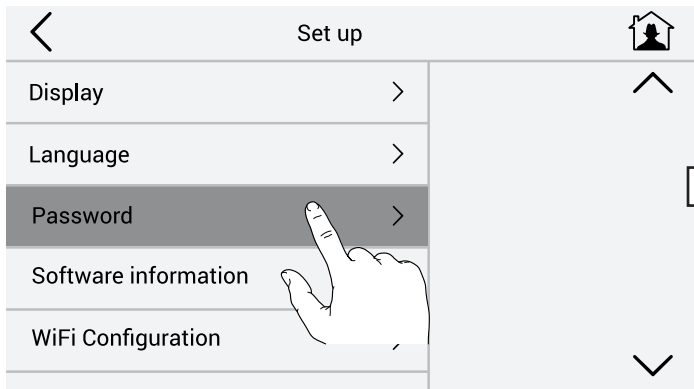


it's possible to choose language and measurement unit between metric and imperial.

If change language, for a complete update of texts, turn off and on the boiler



Password



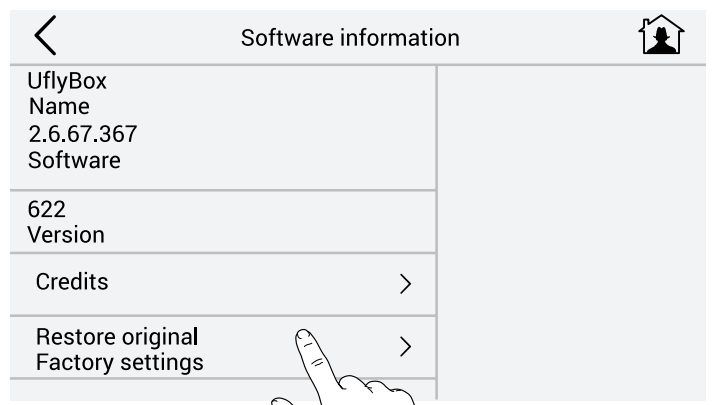
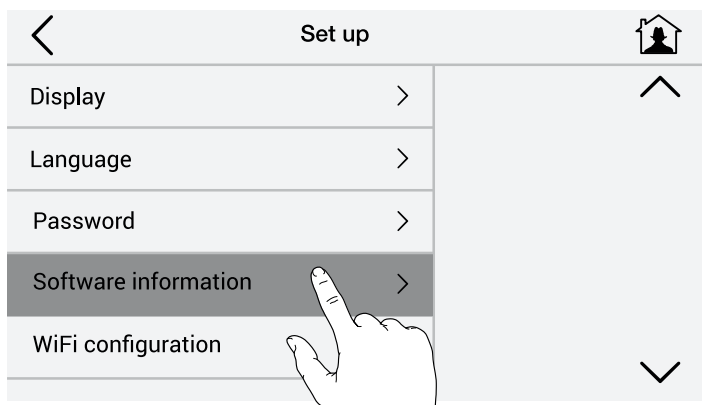
To change password

- Enter current password and confirm
- Delete current password with ◀
- Enter new password and confirm

OK

Note: for security and protection, default password is only available to the Authorized Service Center.

Software information and restore default UflyBox settings



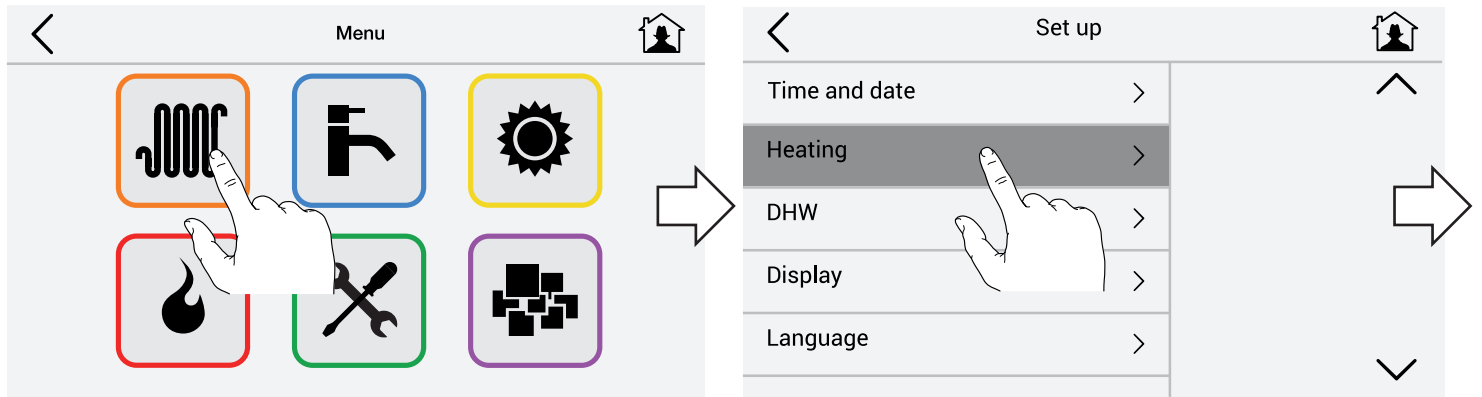
To restore default values set at the factory.

2.5 - CH Heating Menü

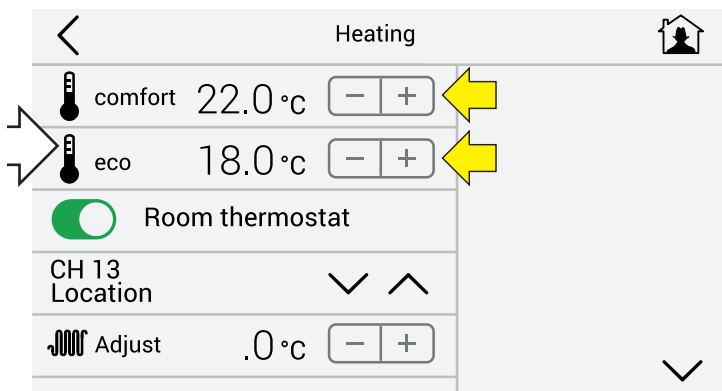


2.5.1 - Hot keys

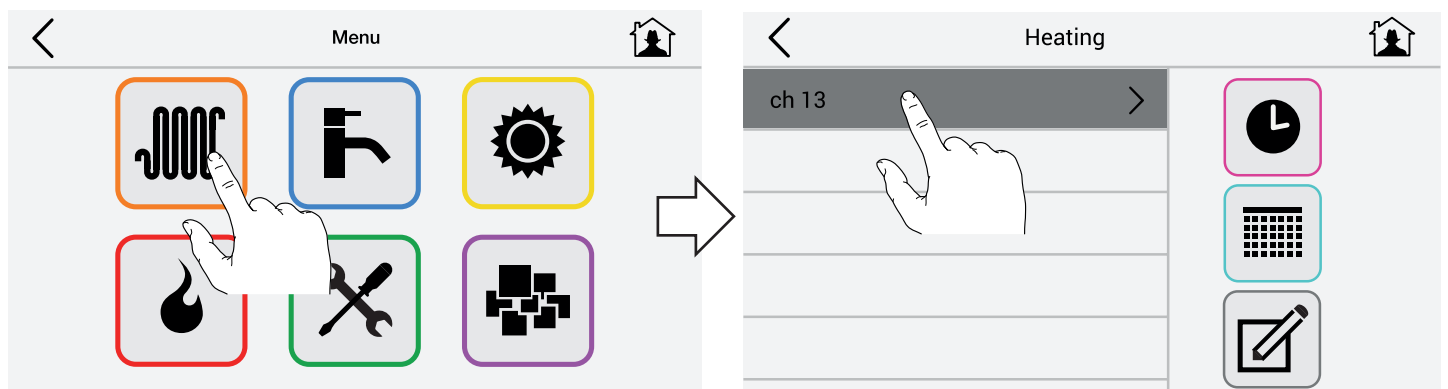
Change heating temperature:



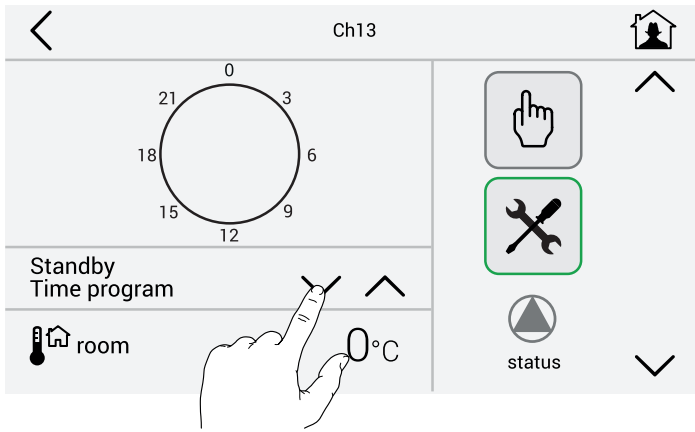
Change confort / eco temperature with keys as indicated



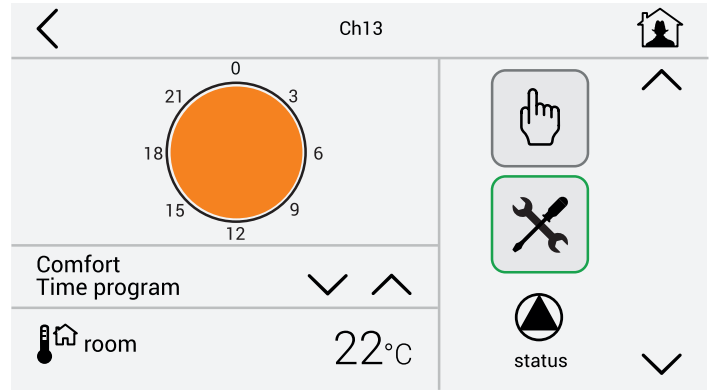
Choose CH program:



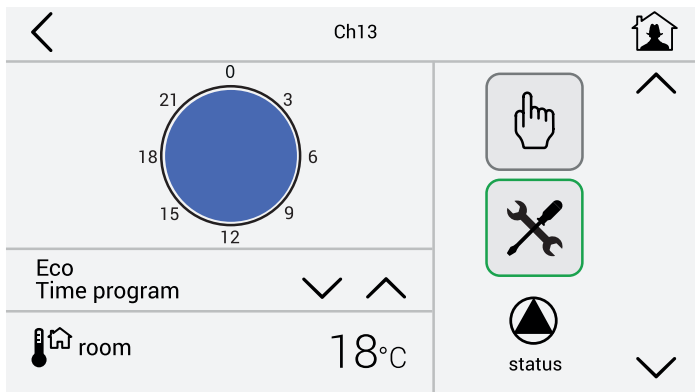
Switch OFF CH Heating (SUMMER)
select STANDBY:



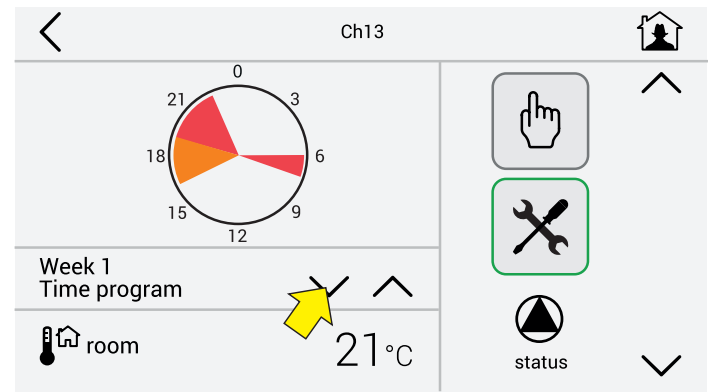
To switch ON continuous heating at comfort
temperature previously set at 22°C select
COMFORT:



To switch ON continuous heating at comfort
temperature previously set at 18°C select
ECO:



To switch ON heating at the times as in the example:
Ignition from 06.00 at 07.30 Temp. XX °
Ignition from 17.00 to 20.30 at the temp. YY °
Ignition from 20.30 to 22.30 at the temp. XY °
select WEEK1 - WEEK2 - WEEK3:



DEFAULT value are the same for
WEEK1 - WEEK2 - WEEK 3

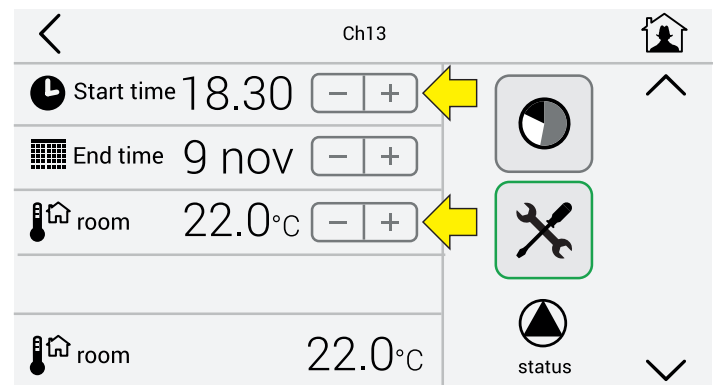
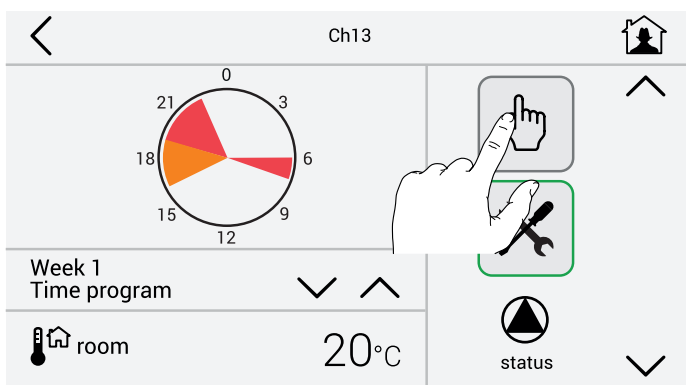
Note: Modify as you prefer / regulatory guidelines

Manual Request

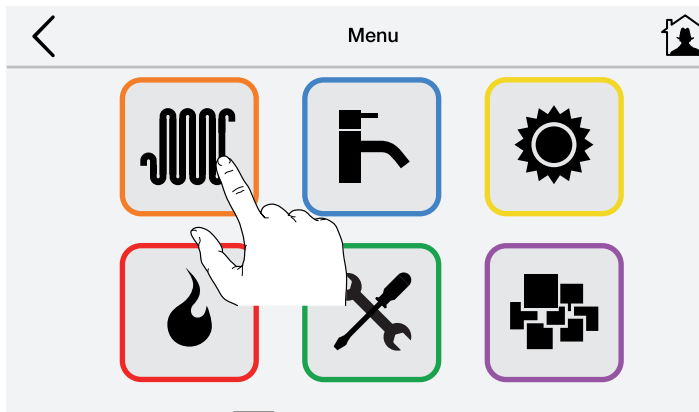
For a manual request and extend / stop heating period
for a few hours at certain temperature, touch icon shown
(HAND)

Set end of heating and (change) temperature.

Default time set 1 hour forward from effective hour.



2.5.2 - Programming and possible adjusting at preset programs

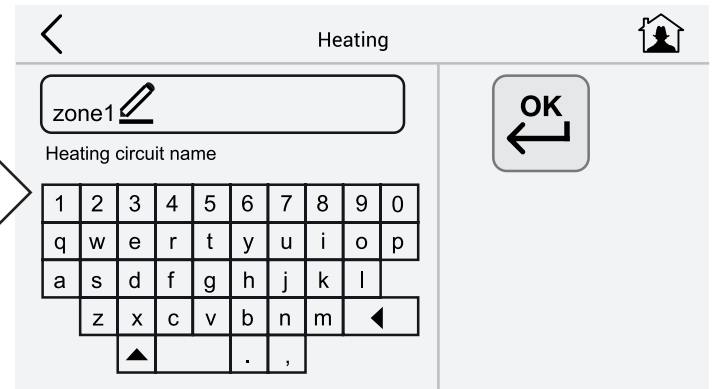
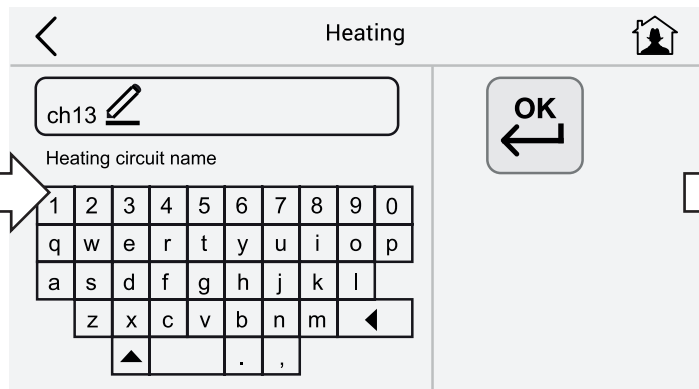
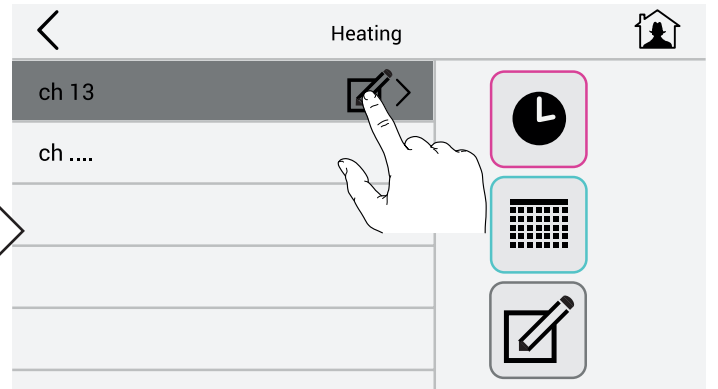
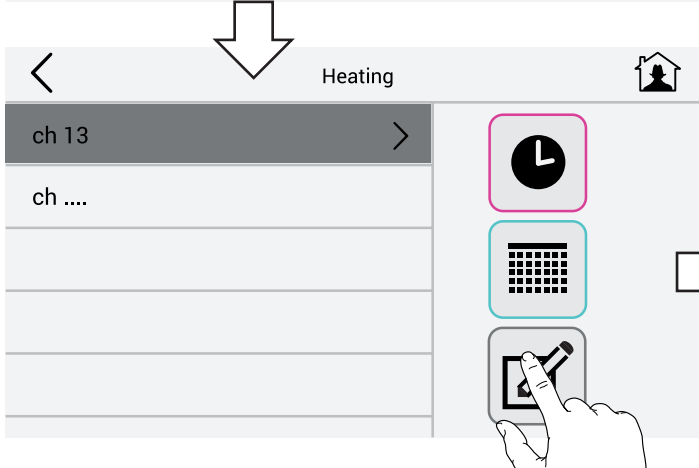


Selezione Circuito Ch

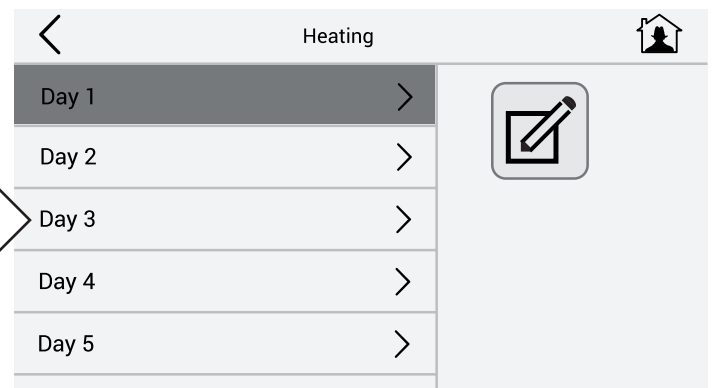
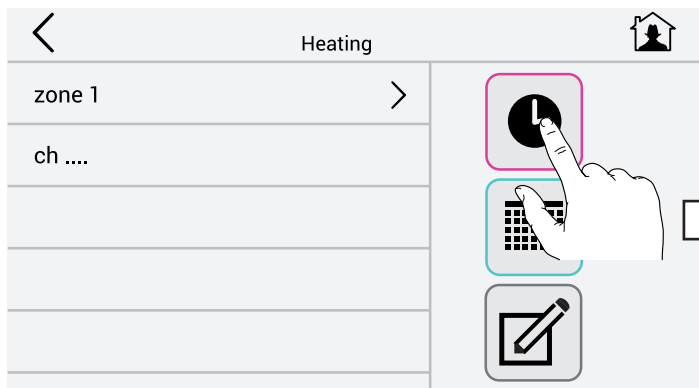
Is possible change Name of heating circuit in the system

- Delete Ch... current circuit
- Rename Zone circuit...and confirm

OK



Creation / modification of typical days



Set Type Days

Eventually rename Day 1.....Day5
example: Working day, Weekday, Holiday



Day 1

06:00 Start time

08:00 End time

21:00 °C room

Time slot 1

Day 1

11:30 Start time

15:20 End time

19:00 °C room

Time slot 2

Day 1

18:30 Start time

22:20 End time

21:00 °C room

Time slot 3

Set periods

Max 3 time slots.

Riscaldamento

zone 1

ch

Weekly

Week 1

Week 2

Week 3

Weekly

Day 1 Monday	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	Day 5 Saturday	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
Day 3 Tuesday	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	Day 5 Sunday	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
Day 4 Wednesday	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> Join holidays	
Day 3 Thursday	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> Join working	
Day 1 Friday	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>		

Weekly

Day 1 Monday	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	Day 5 Saturday	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
Day 1 Thursday	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	Day 2 Sunday	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
Day 1 Wednesday	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> Join holidays	
Day 1 Thursday	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Join working	
Day 1 Friday	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>		

Set Week Type (1)

Eventually rename Week 1....Week 3
example: Autumn, Winter, Jolly.

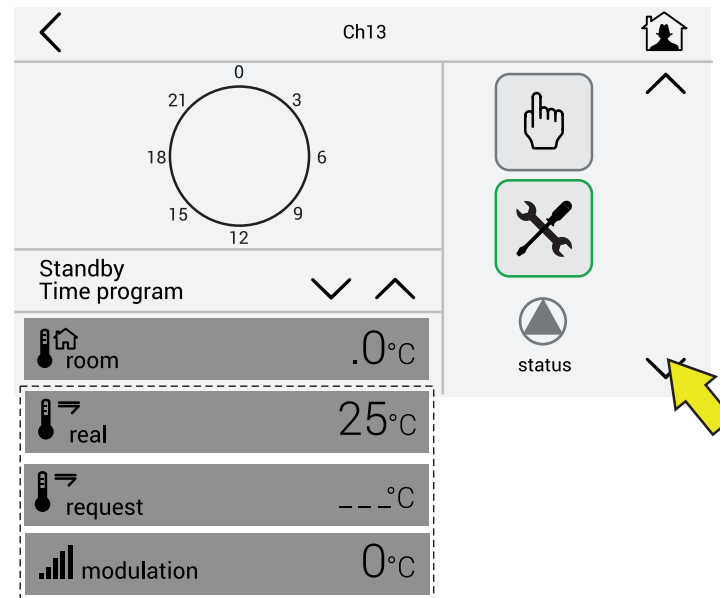
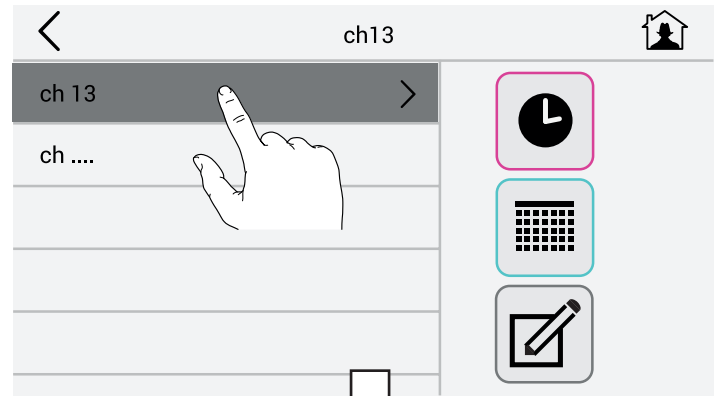
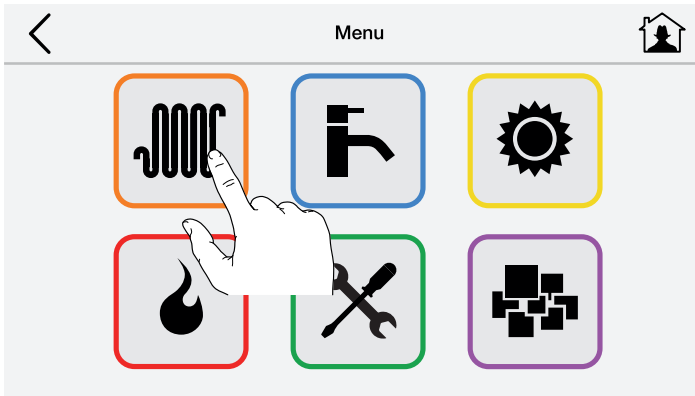
Insert day of the week **separately**
(mon-tue-wed.-thu.-fri.-sat-sun) the day type
Day1....Day5.

Set Week Type (2)

Insert day of the week **join the day**
(mon-fri-sat-sun) the day type Day1....Day5



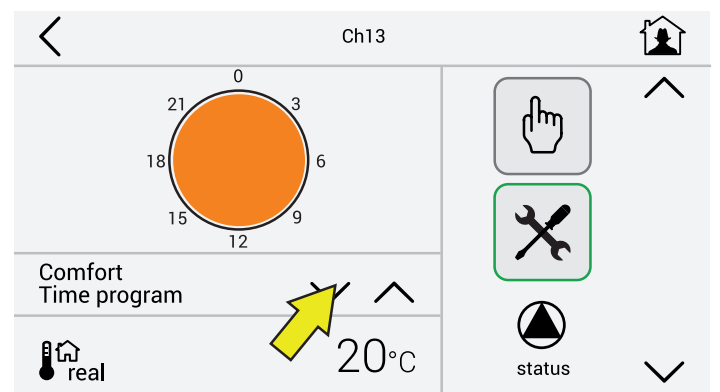
Showing temperature in CH Heating

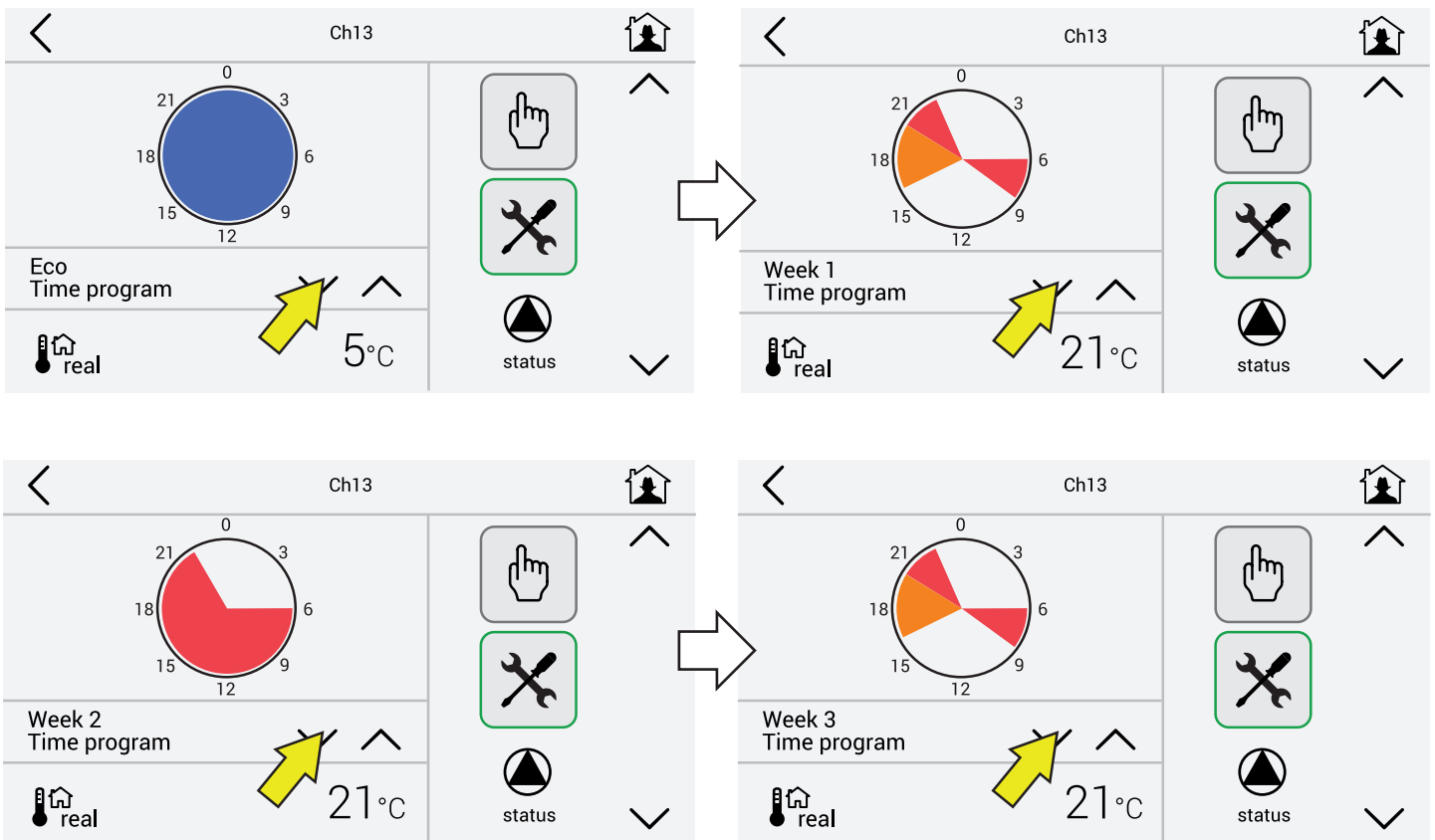


Keys

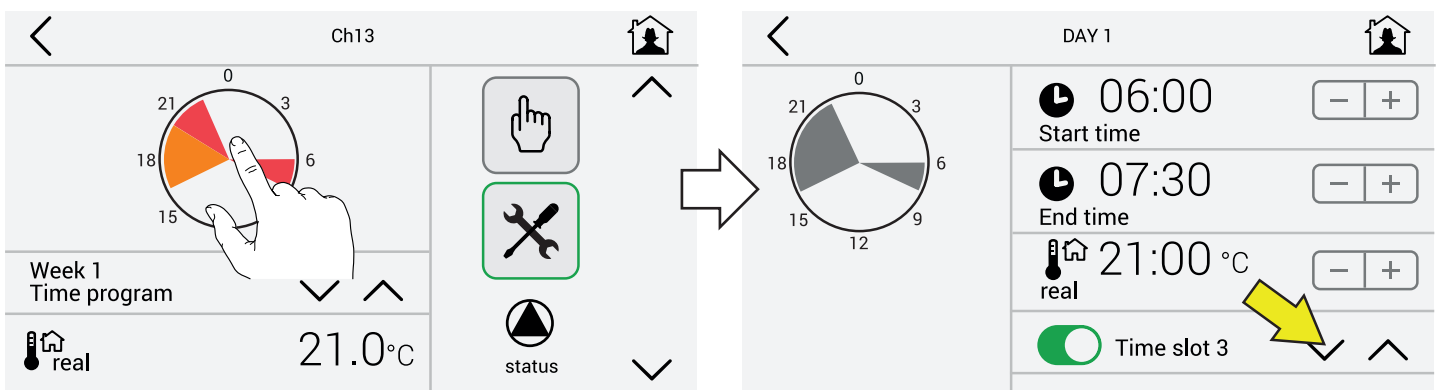
- room = Current temperatur request
- real = Water temperatur of circulation in radiators
- request = Flow temperature + compensation
- modulation = Modulation level of the boiler in the moment

Choose Heating program
Standby (only frost protection)
Comfort
Eco
Week1
Week2
Week3





View detail CH heating program (1)



By touching icon shown

It shows only the details of the program in the 1-2-3 ... period.

Example
Heating at times:

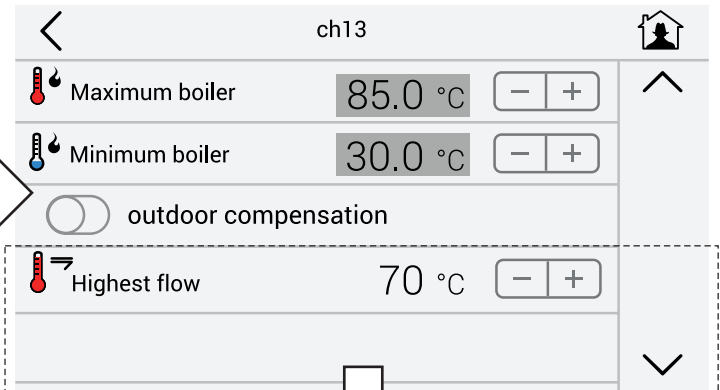
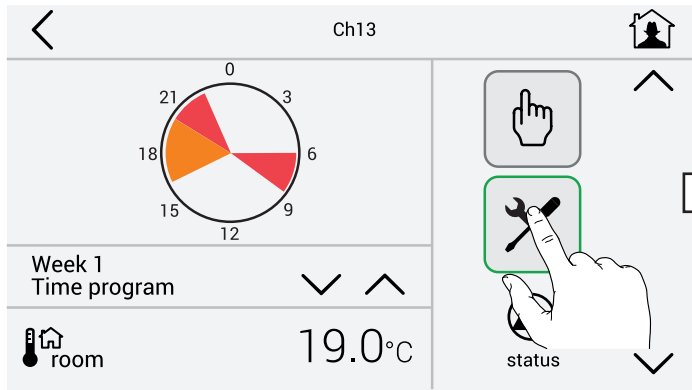
Period 1
From 06.00 at 07.30 at 21° temperature

Period 2
From 16.30 at 20.30 at 19° temperature

Period 3
From 20.30 at 22.30 at 21° temperature



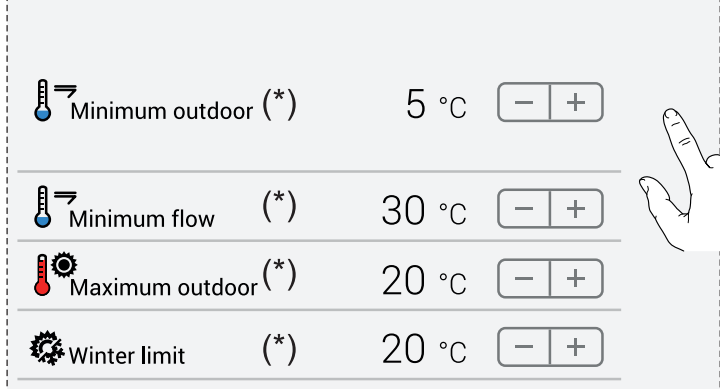
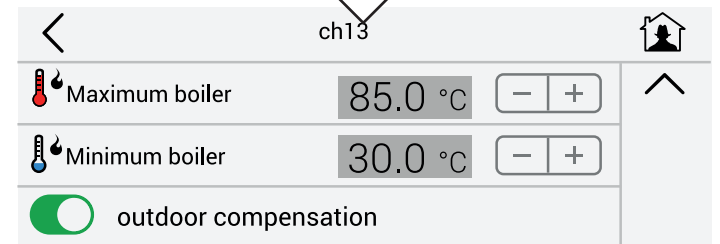
Adjust parameters heating program



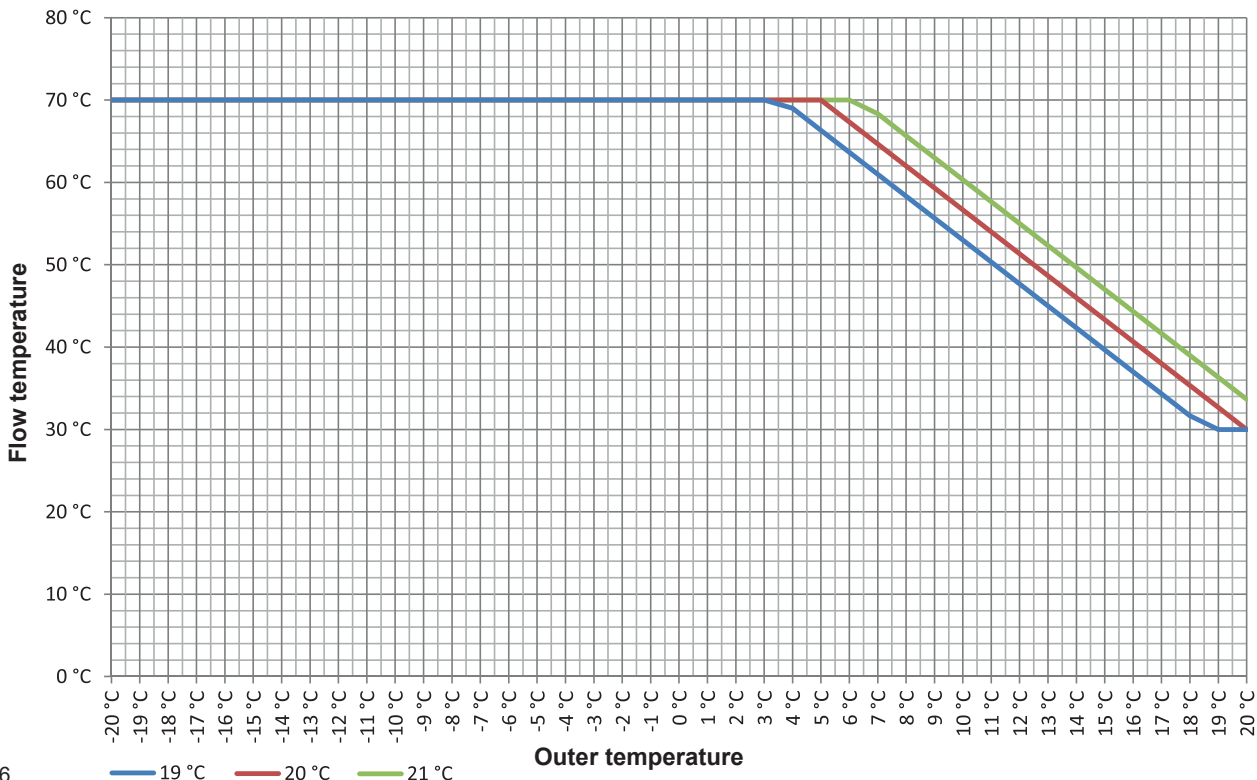
Adjust parameters heating program.
 By touching Settings icon is possible to adjust the parameters.
 For those highlighted in gray, password is required.
 For other parameters, dotted, no need password.

Parameters displayed are relative to the heating program, those with (*) are displayed only if activated external compensation (outdoor sensor present)
 Note: Then to adjust heating parameters is not necessary to drive on DEVICES menu.

Temperatures notes:
 The maximum flow temperature can not exceed the maximum temperature of generator (even if you try to overcome it is prevented).



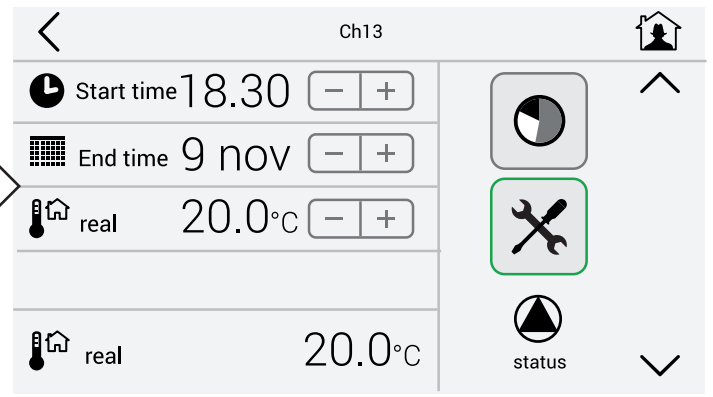
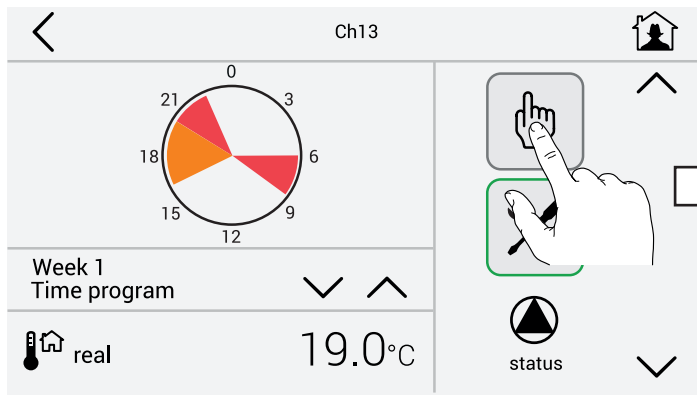
External Compensation Chart - T max 70°C - T outer da 5°C ÷ 20°C - T min 30°C



The three lines at 19 °C - 20 °C - 21 °C represent performance of the flow temperature with change of the environment temperature.

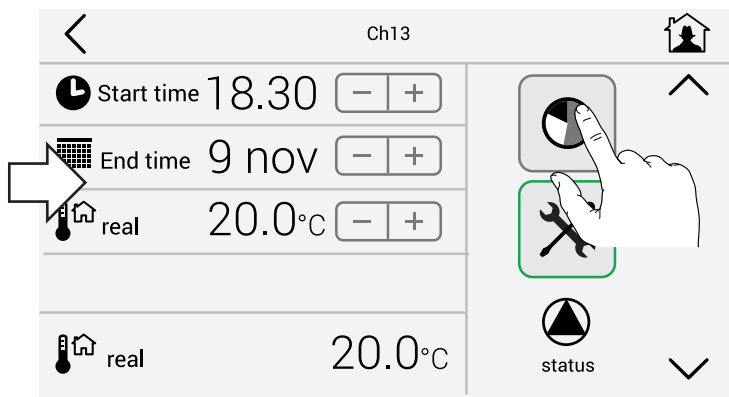


Ch Heating Manual request



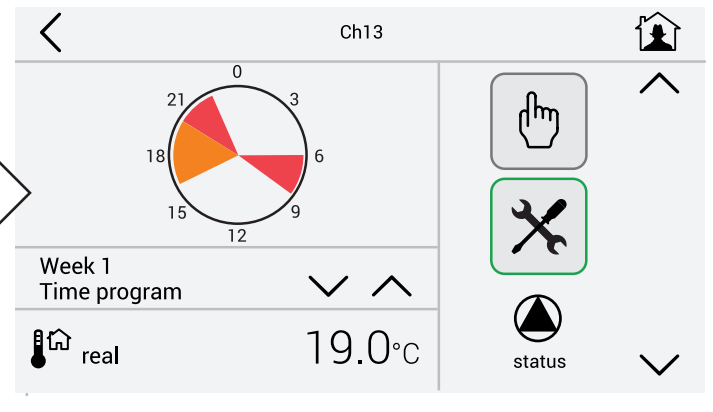
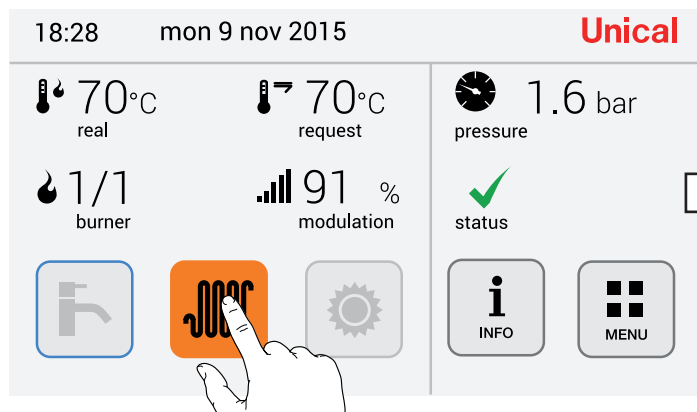
Enabling Function Manual

Enabling Function Manual - set parameter



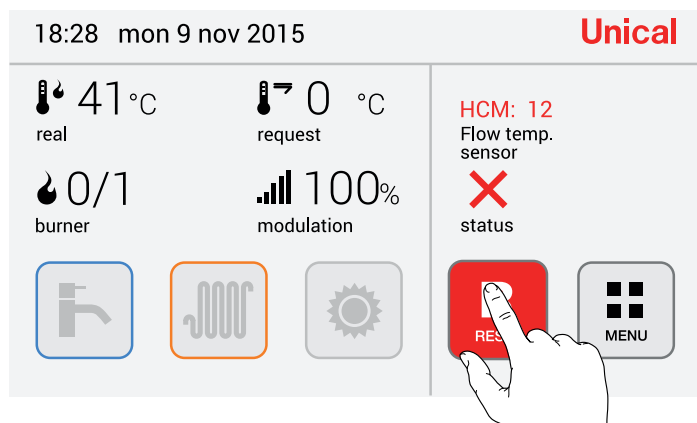
Back to the set program.

View detail CH heating program (2)



At Home page

Is possible to view and modify program and HEATING parameter



Reset

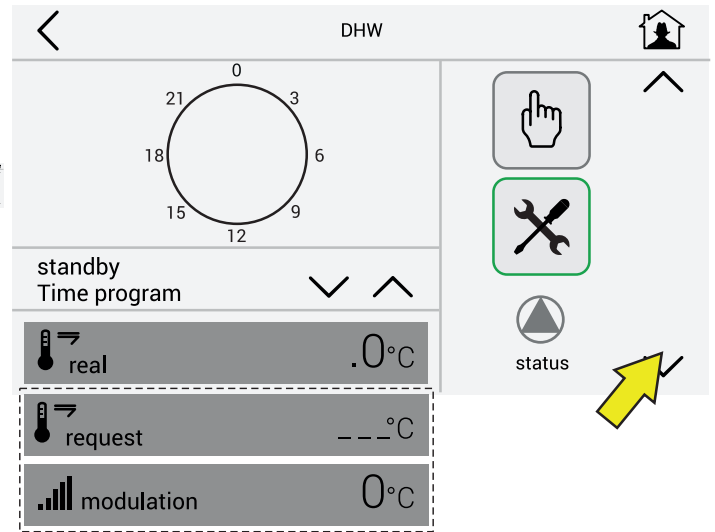
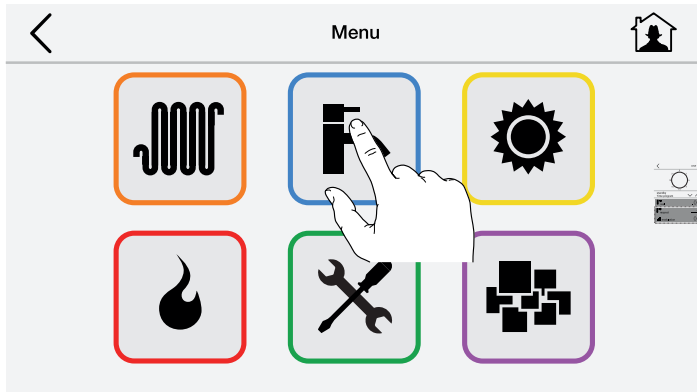
If the boiler is in Error (Block) Reset as shown
For other faults that can not be reset with the Reset button, contact the service center

2.6 - DHW Domestic Hot Water Menü



2.6.1 - Hot keys

Temperature displaying in DHW mode



Key

real = Temperature at the moment of DHW (draw off) hot water

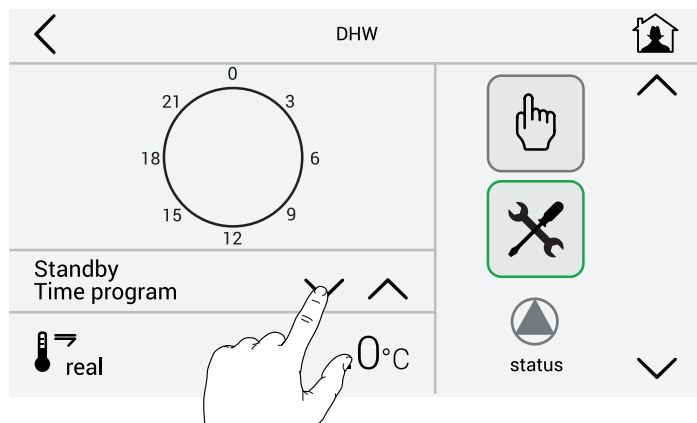
request = Water temperature request

modulation = Modulation level boiler

Choosing DHW (hot water) program	
Standby (inactive)	
Comfort	
Eco	
Week 1	For boilers with water tank inside or external (stock of water)
Week 2	
Week 2	

To deactivate DHW hot water production (STANDBY) (No hot water production)

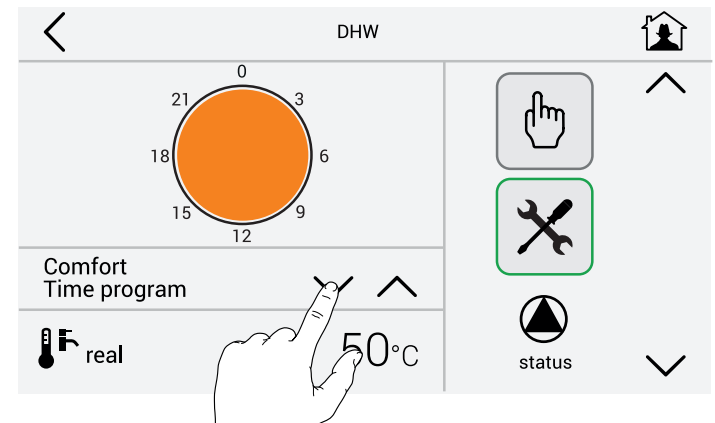
- select stand-by for **Boiler R (only Heating)**:



- Boiler C (combi DHW+CH)

Hot water production is set to default at the comfort temperature 50 °C.

To change the temperature of the hot water circuit press:

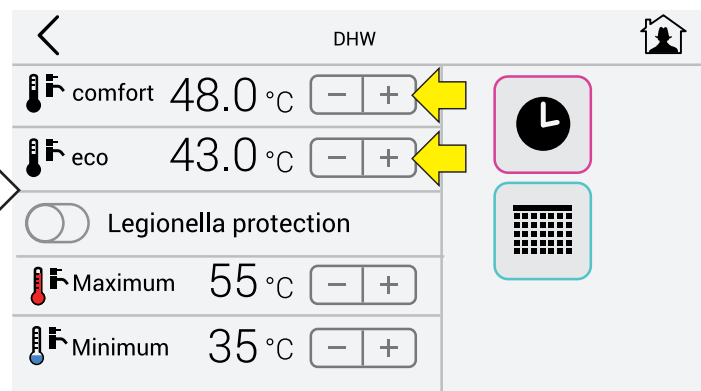
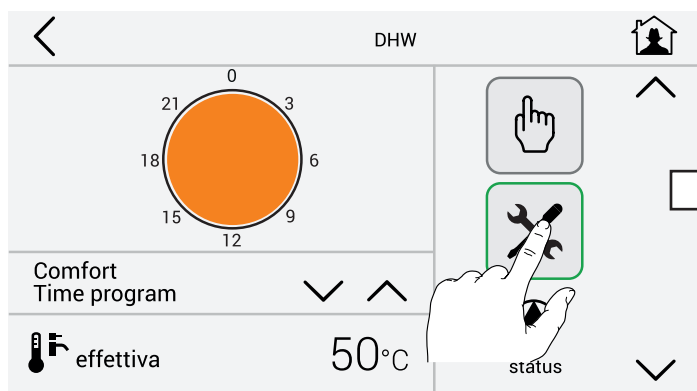




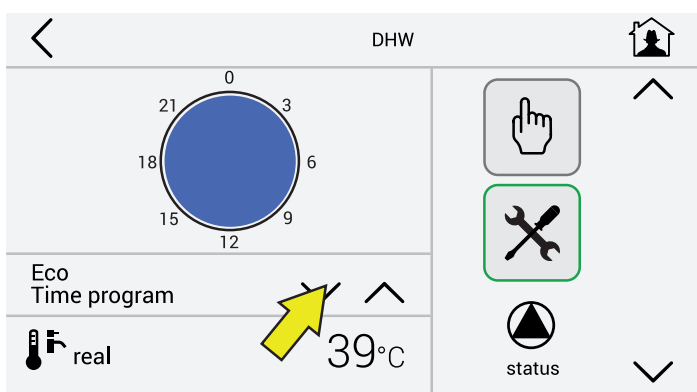
To change Hot water temperature press icon:

Change Hot water temperature:
comfort / eco as shown.

example: COMFORT may be set in the Winter period,
and ECO in the Summer period.



To activate the Eco function previously set
set at 39 ° C Select Eco as shown:

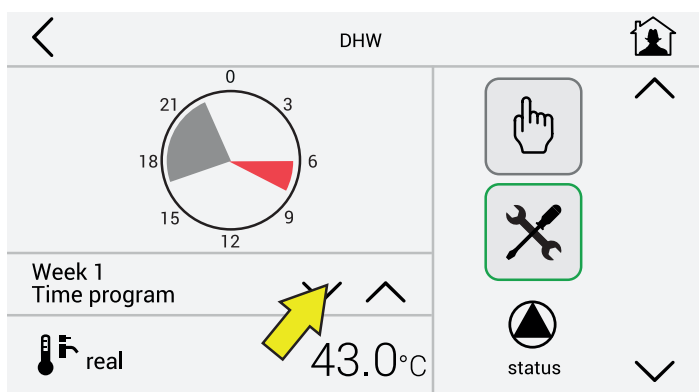


To settings DHW circuit of:

- Days slot (p. 12)
- Periods (page 13)
- Weeks (p.13)
- Operation in Manual mode (p.15)

Refer to the section Heating menù

2.5.2 - Programming and possible adjusting at preset programs



- Boilers B (with water tank)

is possible to set the hot water preparation
stored in the tank in daily time slots and Weekly.

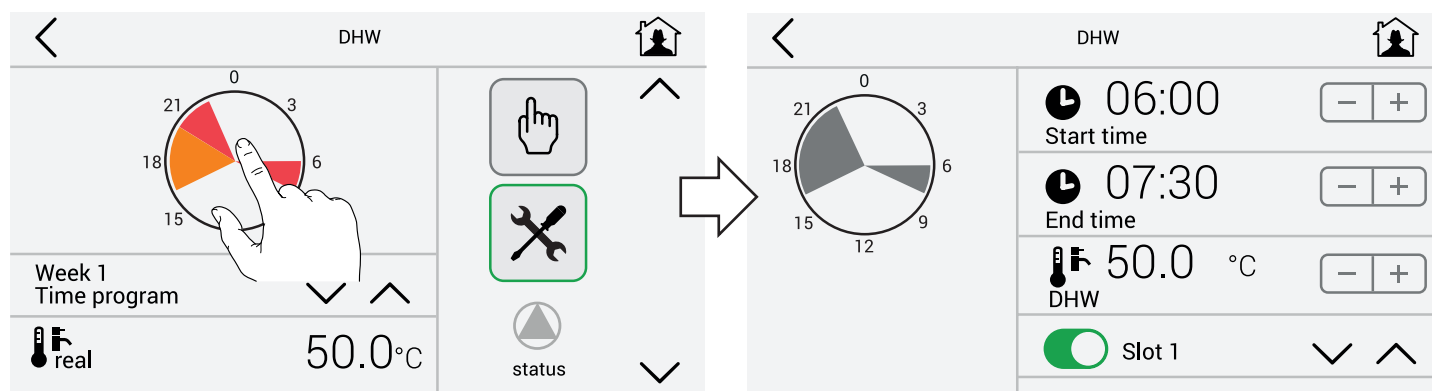
DHW water stored in the tank previously set:
From 06.00 to 08.30 at 43° temperature
From 17.00 to 22.00 at 43° temperature

**In these boilers it is essential to activate
Legionella protection function.**



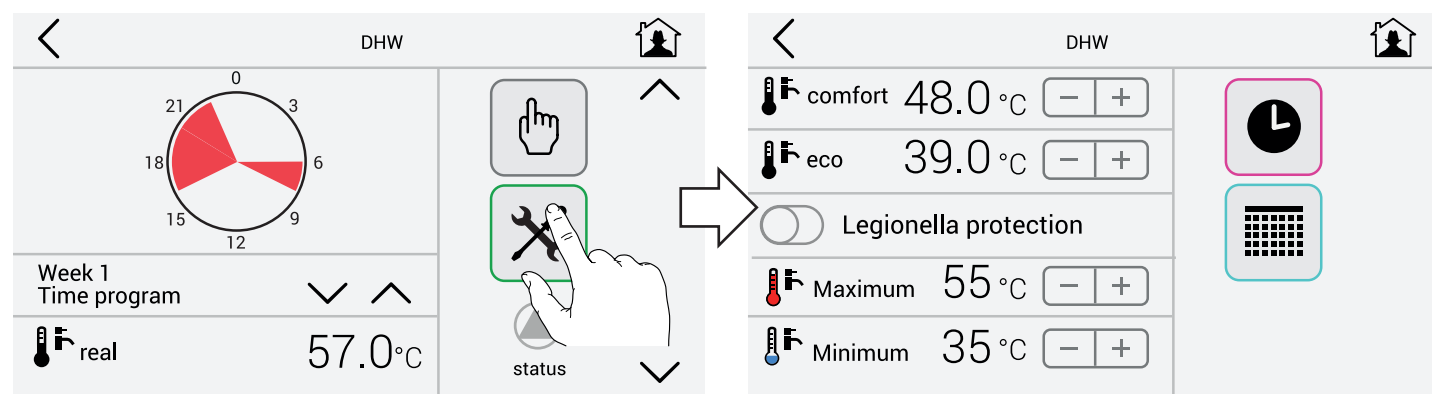
2.6.2 - Programming and possible adjusting at preset programs

View detail DHW hot water program (1)



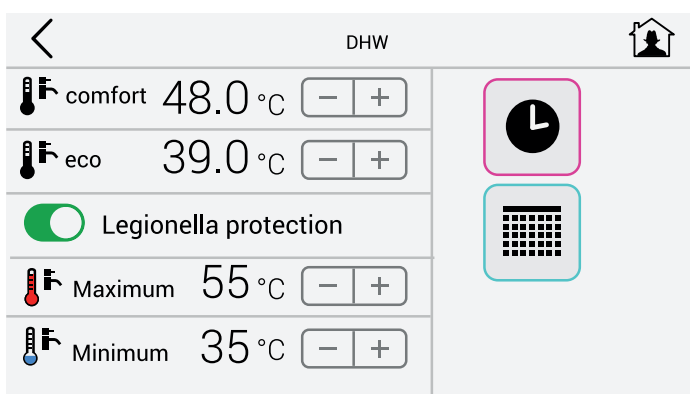
By touching Icon shown
It shows only the details of the program in the 1-2-3 ... period.

Adjust parameter DHW mode



Adjust parameter DHW mode
By touching Settings icon is possible to adjust the parameters.
For those highlighted in gray, password is required.
For other parameters, dotted, no need password.

Parameters displayed are relative to the DHW (hot water) circuit.
Note: Then to adjust DHW parameters is not necessary to drive on DEVICES menu.



Activation Legionella protection
(only for boiler B with storage water tank pag.19)
Is activated every 7 gg (168 h) if temperature of the water tank remained permanently below **61°C**.



View detail DHW hot water program (2)

18:28 mon 9 nov 2015 Unical

70°C real	70°C request	1.6 bar pressure
1/1 burner	91 % modulation	status
INFO	MENU	

(A hand is shown tapping the boiler icon in the bottom row.)

In Home page

< DHW home icon

0 3 6 9 12 15 18 21

Week 1 Time program v ^

real 60.0°C status v

(A hand is shown tapping the wrench icon in the right sidebar.)

Is possible to view and modify program and DHW parameter

Reset

18:28 mon 9 nov 2015 Unical

41°C real	0 °C request	HCM: 8 Low water pressure
0/1 burner	100% modulation	X status
		R RES
		MENU

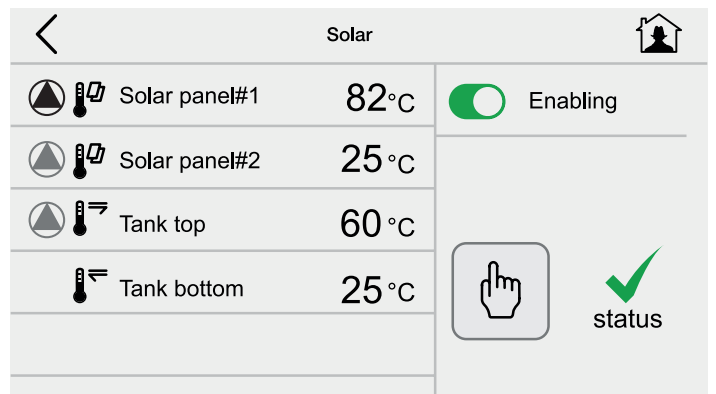
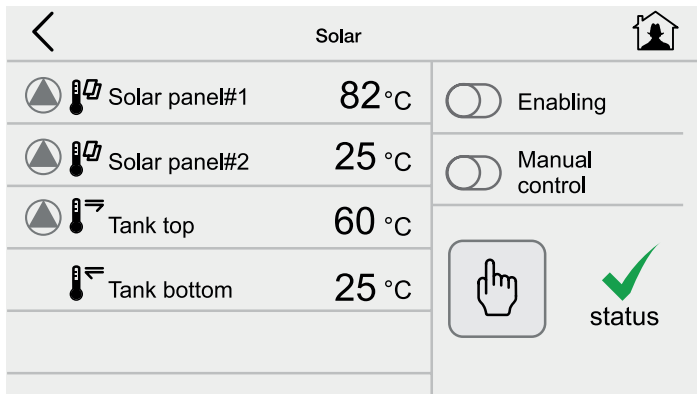
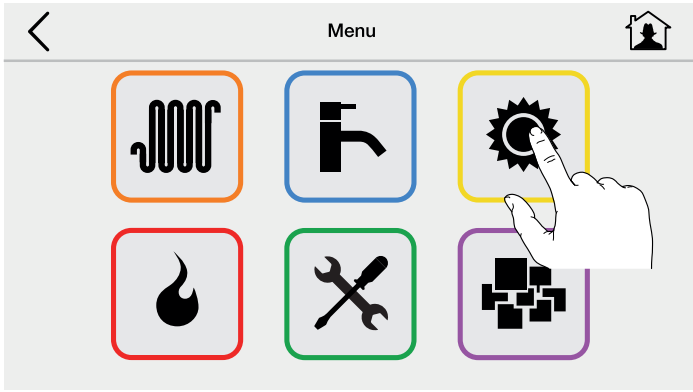
(A hand is shown tapping the red 'R' reset button.)

If the boiler is in Error (Block)
Reset as shown

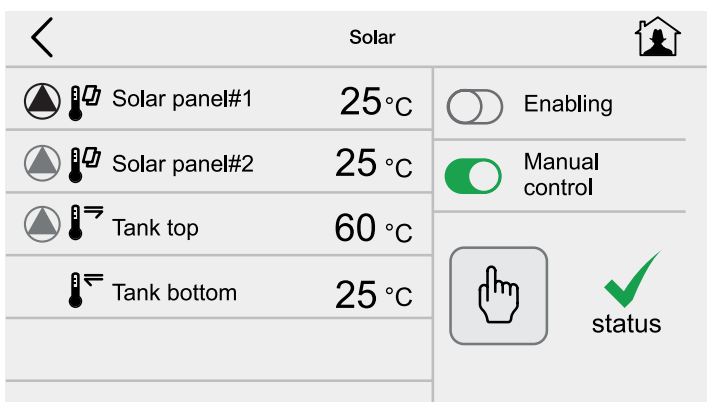
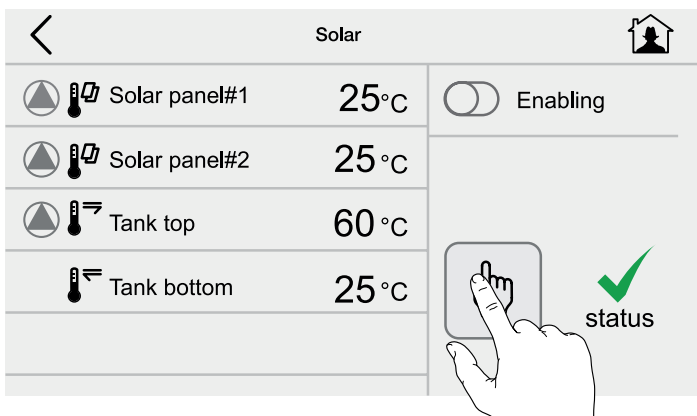
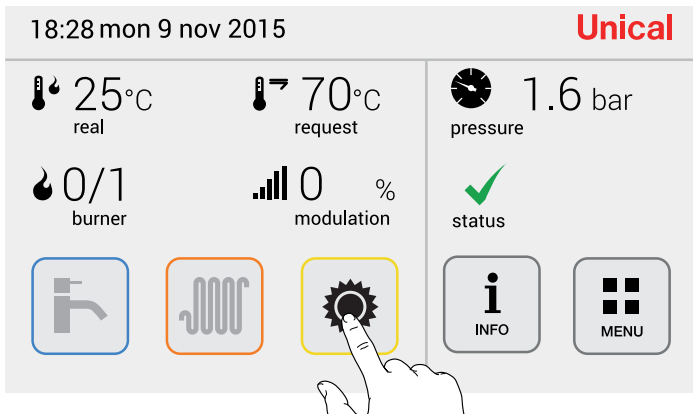
2.7 - Solar Menu



If this this service is active

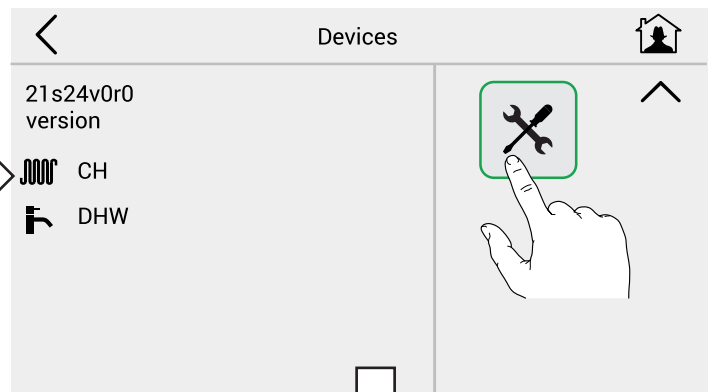
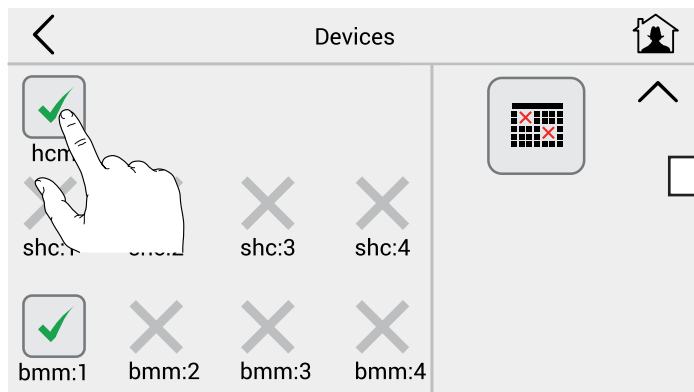
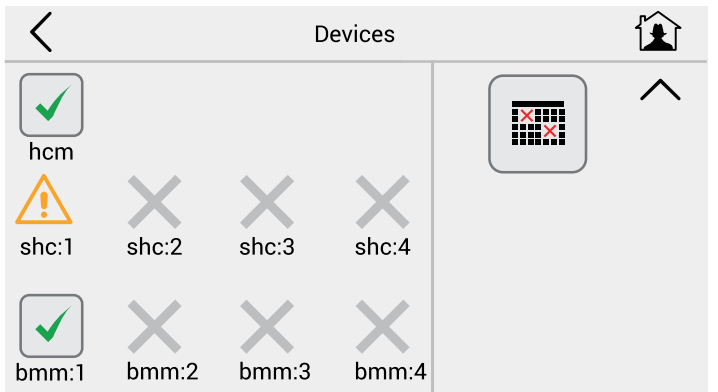
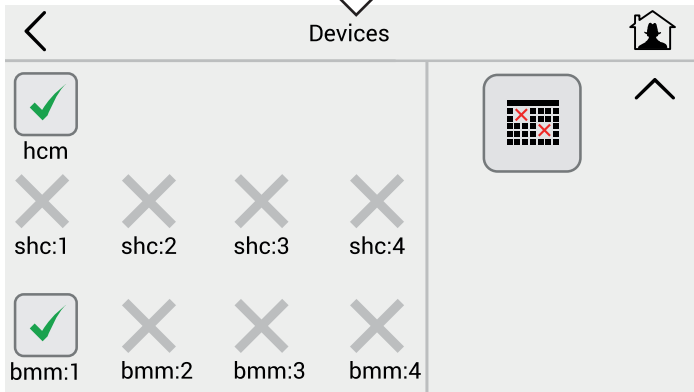
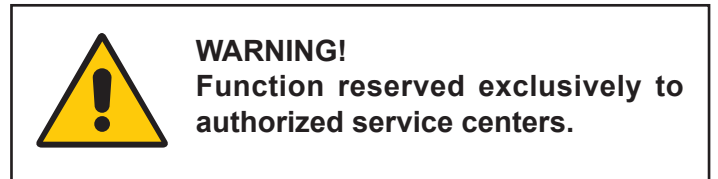
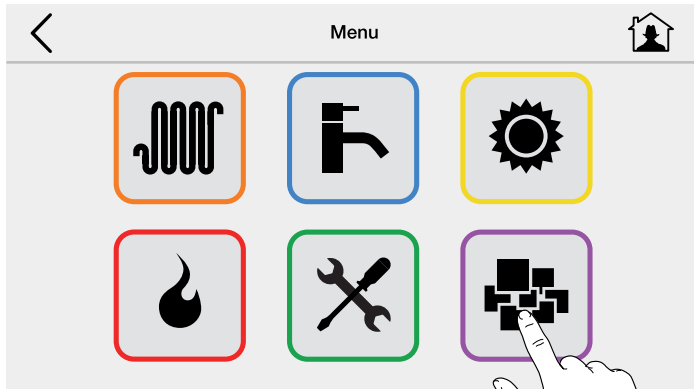
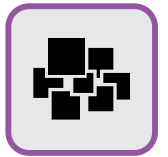


Is possible to activate this service and where the conditions the pump will start



Is possible to force manually (with password) the pump run.

2.8 - Devices Menü

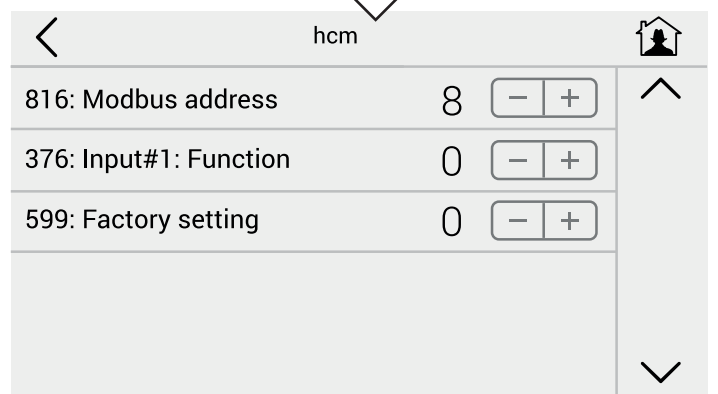


At every boiler lighting, UFLY BOX scans devices, if new devices are recognized, such as:

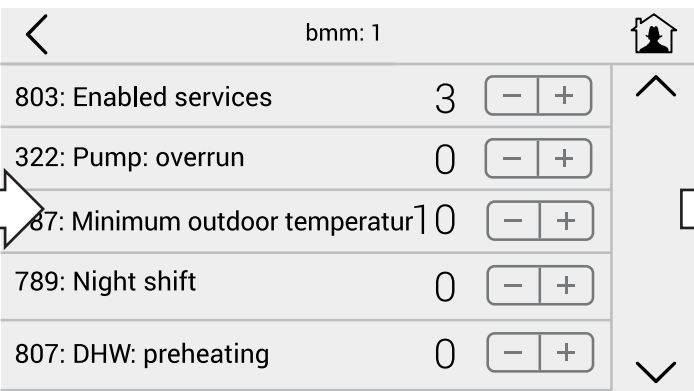
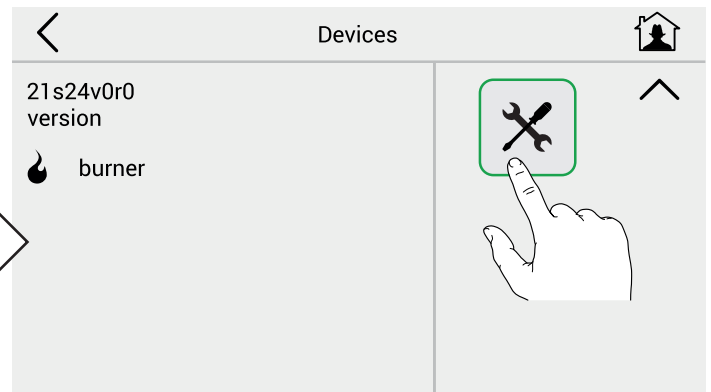
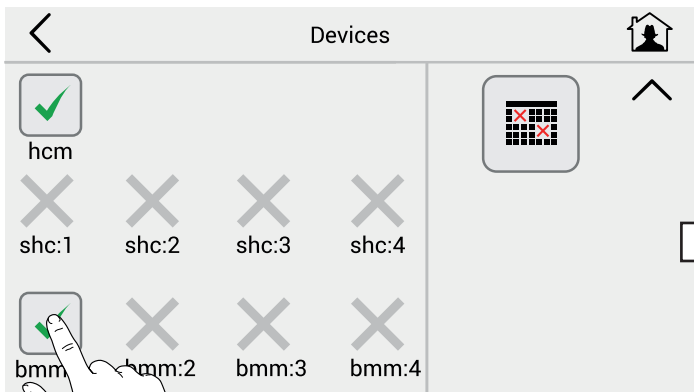
hcm / bcm	Heating / Burner Control Manager System manager / Cascade
shc	Slave Heating Controller Multifunction module
bmm	Burner Modul Manager

They are displayed on the next screen, and is prompted to save the new configuration.

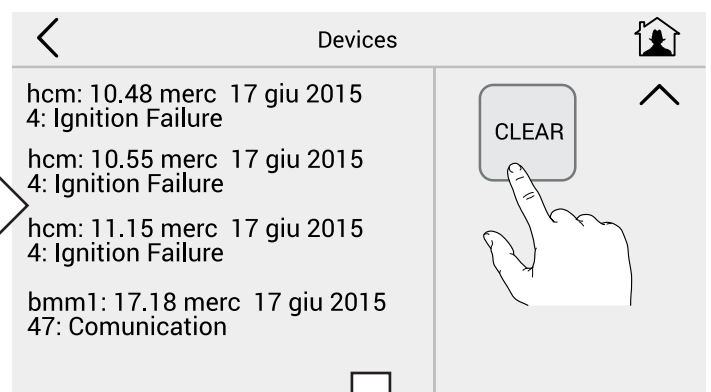
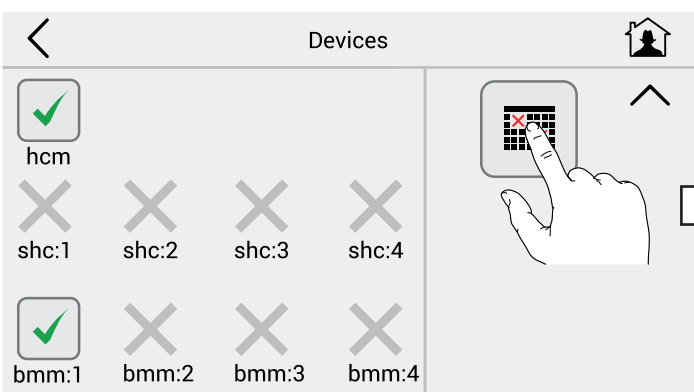
	Icon scanning devices
	Icon save new configuration



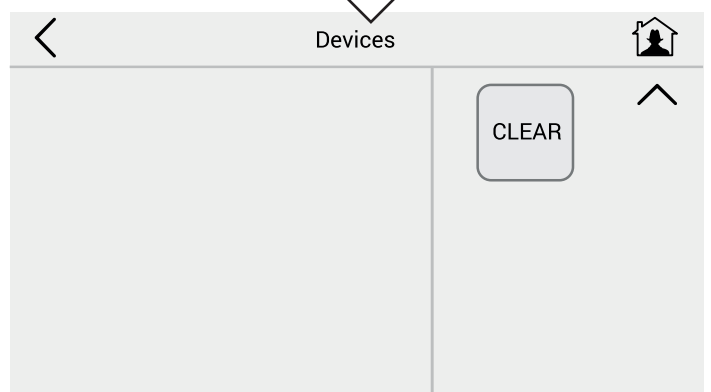
	Detected Device
	Not installed device
	Device previously detected, but not detected at the moment .



BMM / HCM Parameter
List of parameter in par. 4.2 instruction manual of the boiler
To change the parameters is required password.



Historical Error
Delete history with Button Clear (password).

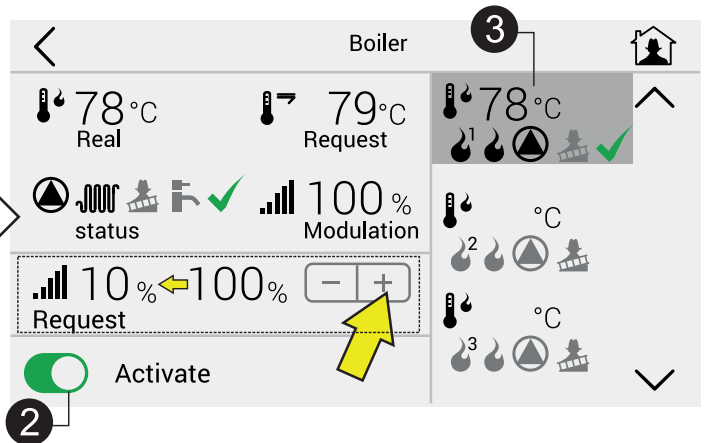
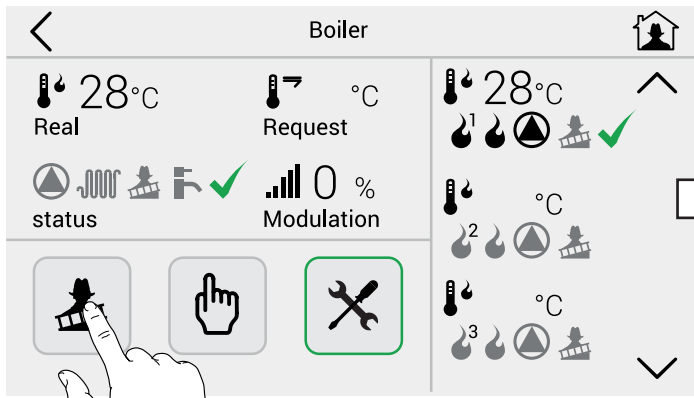
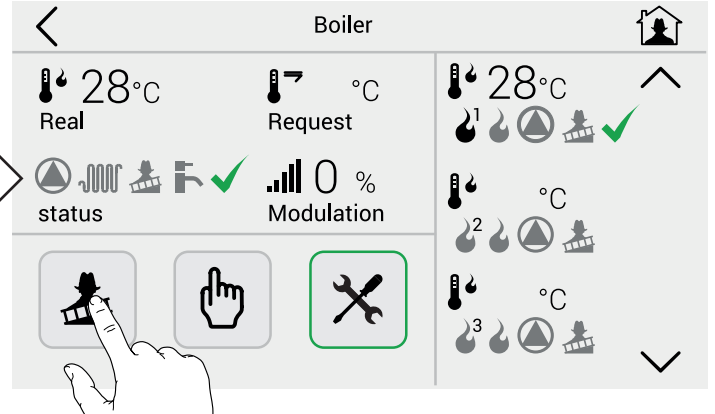
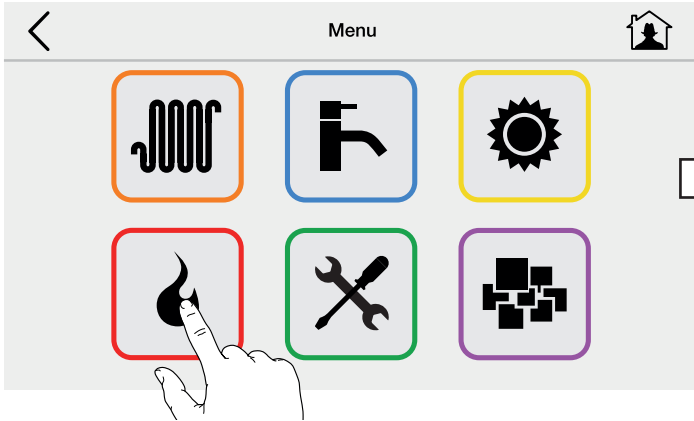


2.9 - Burner Menu



WARNING!
Function reserved exclusively to authorized service centers.

Sweeper function



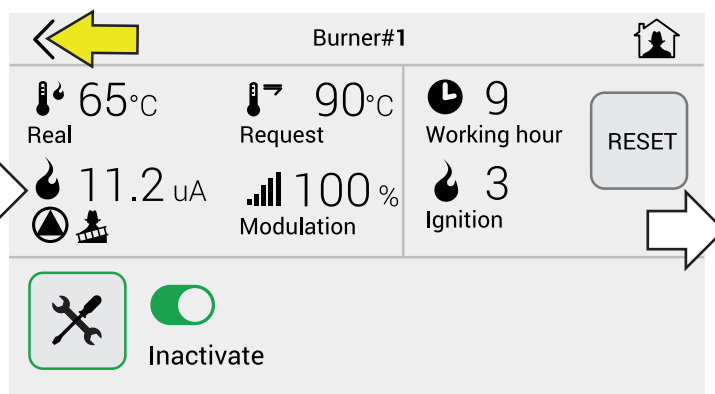
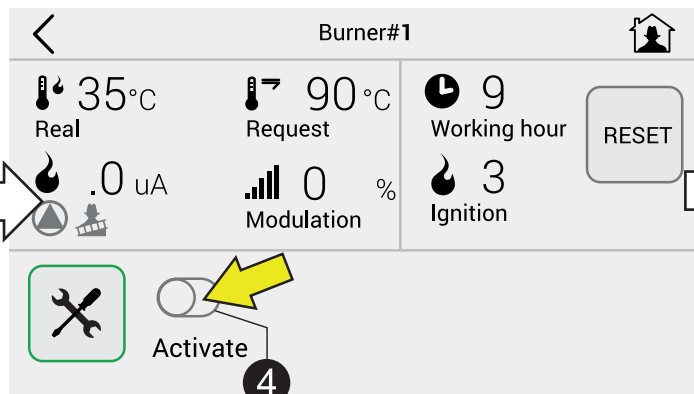
1 - Insert psw and select sweeper again

Vary % mod. request from 10 % to 100 %

2 - Activation

3 - ✓ Chose burner among those available, eg: usually 1 / modulex (from 1 to 8).

Note: once selected the burner, (3) the display page changes: Burner # 1 # 8



4 - Activation

Note: the selected burner is running at maximum power (modulation 100%)
Pressing button < go back one page, burner menu'.



5 - Burner operating to maximum power (modulation 100%).

6 - Vary % of modulation request to the minimum 10% and select the burner

7 - Boiler operating with modulation min. (modulation 0%).

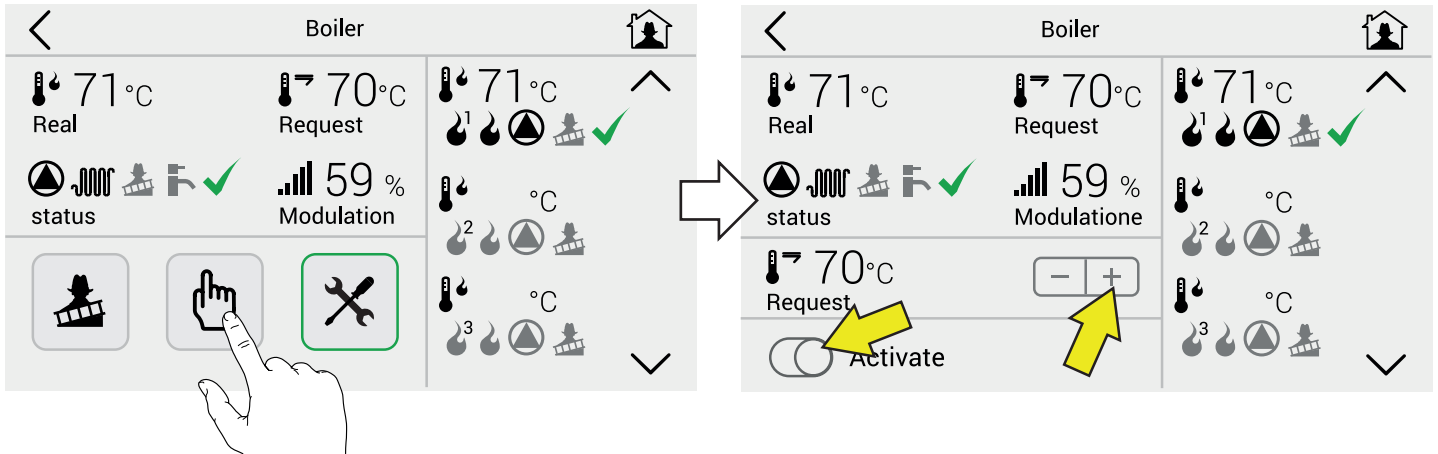
8 - Disable SWEEPER function. Exit by pressing Home icon.

Change parameter

This displayed parameter are relevant to burner
 Note:
 - To change burner parameters is not necessary to go in the DEVICES menu.
 - The psw remains active until you return to the MENU'.

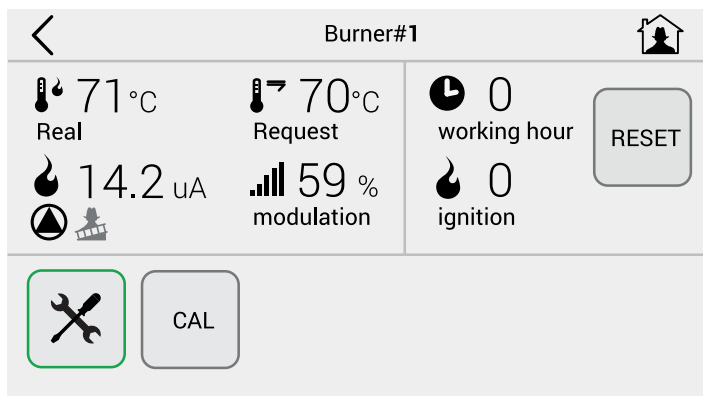
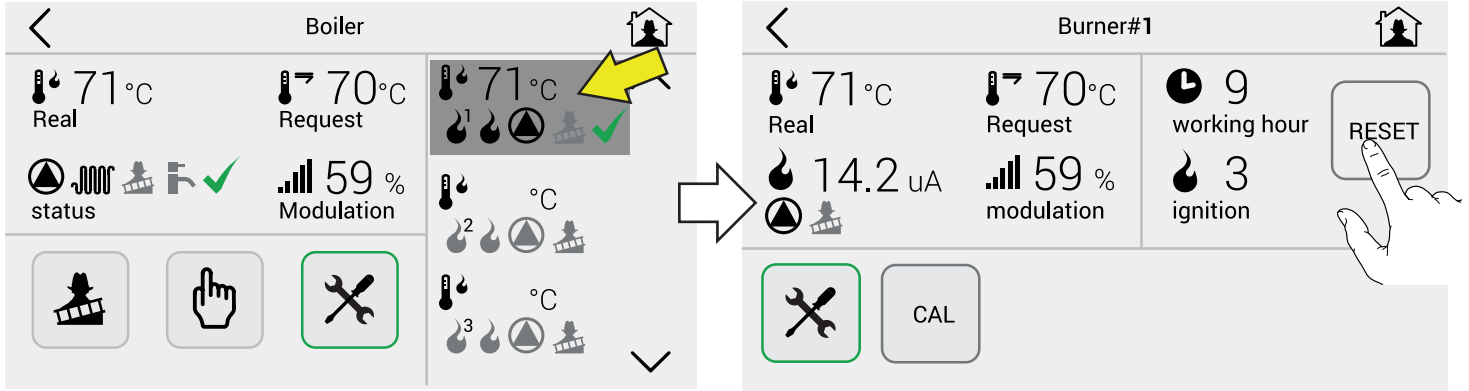


Manual Activation of Boiler



Manual Activation of Boiler
Touching indicated icon, you manually activate the boiler, without possibility to set the time.


Reset counter (ignitions work hours)



Reset to clear the counters.
Password is required.

2.10 - Error Codes








WARNING!
Function reserved exclusively to authorized service centers.

18:28 mon 9 nov 2015
Unical


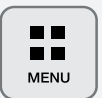
41 °C
real

0/1
burner

0 °C
request

100%
modulation

HCM: 4
Ignition failure




✘

status

18:28 mon 9 nov 2015
Unical



41 °C
real

0/1
burner

0 °C
request

100%
modulation

HCM: 0
Regular operation

✘

status

Failure that causes the stop of the boiler:

- The error code is displayed, the boiler is in lock. After resolving the fault press Reset to restart the boiler.

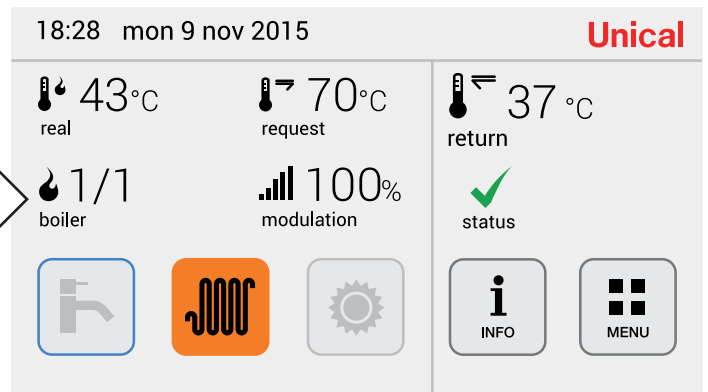
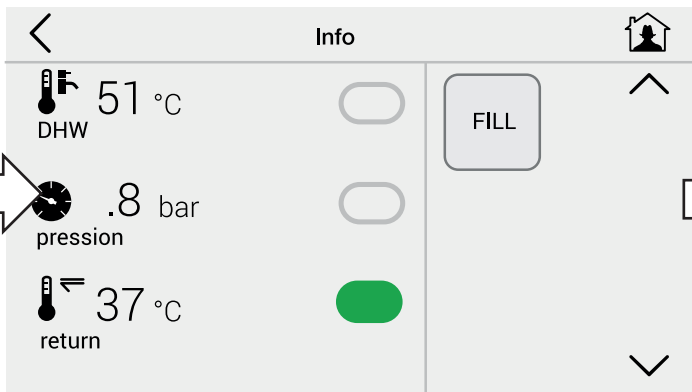
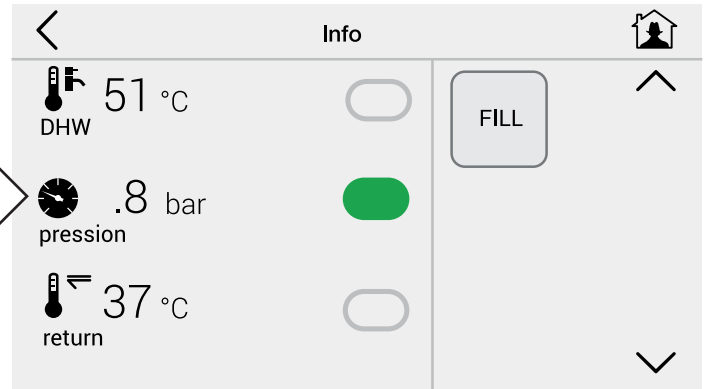
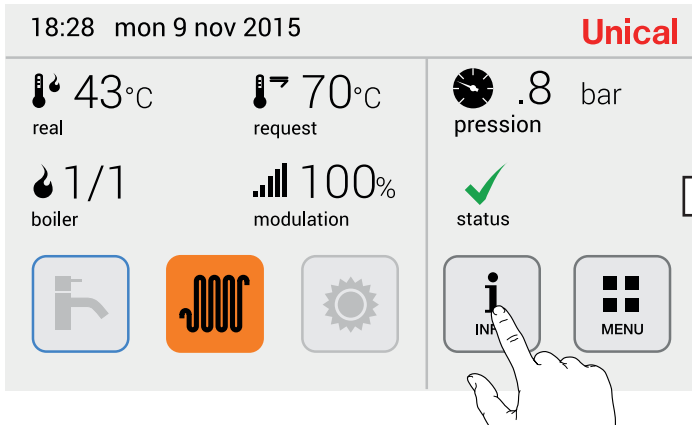
Failure that could NOT cause stop of the boiler:

- Error code is displayed, the boiler is in CH demand, Icon Reset (note that was detected a fault even if the fault was temporary. Is therefore necessary always push reset to clear the display "error").

CODE (HCM)	DESCRIPTION detected on BMM	SOLUTION
ALARM_0	Regular operation	
ALARM_1	Overheat thermostat	
ALARM_2	Low gas pressure	
ALARM_3	Overheat thermostat	
ALARM_4	Ignition failure	Check the gas supply or that the ignition/detection electrode is working properly
ALARM_5	Flame lost	Check the detection electrode
ALARM_6	Overheating	Check pump operation and if needed clean the heat exchanger
ALARM_7	Aux temperature sensor	
ALARM_8	Low water pression	
ALARM_9	Outer temperature sensor	
ALARM_10	Internal failure	
ALARM_11	Unexpected flame	
ALARM_12	CH flow sensor	Check the efficiency of the sensor (see table Res/Temp) or its connections.
ALARM_13	DHW Temperature sensor	
ALARM_14	CH return sensor	Check the wiring, if needed, replace the sensor
ALARM_15	Differential temperature	Check pump operation and its speed - remove any obstructions in the heating system
ALARM_16	Frozen	Disconnect power, close the gas valve, defrost the heat exchanger carefully.
ALARM_17	Global frozen	
ALARM_18	Global differential temperature	
ALARM_19	Global overheating	
ALARM_20	Gas valve leaking	Check the wiring and for any leaks from the gas valve, replace the Gas valve if needed

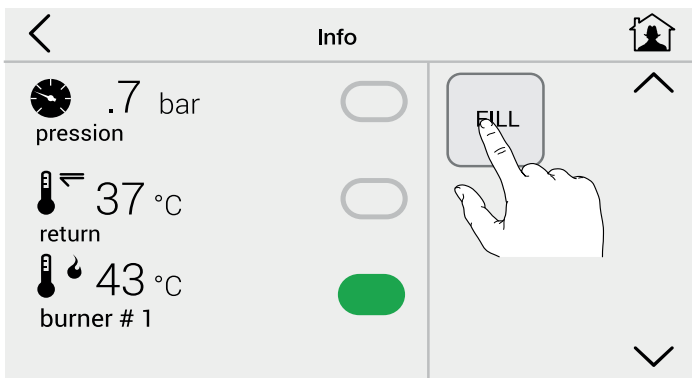
ALARM_21	Flapper stuck open	
ALARM_22	Lack air for ignition	
ALARM_23	Unexpexted air flux	Check the fan and pressure switch wiring Disconnect the air pressure switch: - if the error code disappears, replace the pressure switch. If the problem persists, replace the BMM.
ALARM_24	Low fan speed	Check fan operation and the connections
ALARM_25	Exhaust overheating	
ALARM_26	High fan speed	Check fan operation and the connections
ALARM_27	Lack of air	The pre-ventilation timer is restarted. The error is signalled until the start-up operation is successful
ALARM_28	Chimney closed	Check the Chimneys / Check the trap
ALARM_29	Condens level	Check the combustion chamber / check the siphon.
ALARM_30	Service parameters	Press the unblock key; if the anomaly persists, replace the board
ALARM_31	System configuration	
ALARM_32	Low supply tension	Correction: if the line voltage is < 190Vac: the line voltage is really below the minimum limit, otherwise there is a monitor line error: replace BMM
ALARM_33	Mix#1: frozen	
ALARM_34	Mixer#2: frozen	
ALARM_35	Mixer#3: frozen	
ALARM_37	Parameters memory	Contact Customer Care
ALARM_38	Factory parameters	Contact Customer Care
ALARM_39	User parameters	Contact Customer Care
ALARM_40	Low water flowrate	
ALARM_41	Mixed air/water	
ALARM_42	Pump locked	
ALARM_43	Pump not wired	
ALARM_44	Waterpressure sensor	
ALARM_45	Water overpressure	
ALARM_47	Communication	
ALARM_49	HCM missing	
ALARM_50	Room sensor#1	
ALARM_51	Room sensor#2	
ALARM_52	Room sensor#3	
ALARM_53	Mix#1: temperature sensor	
ALARM_54	Mix#2: temperature sensor	
ALARM_55	Mix#3: temperature sensor	
ALARM_56	Heat control lack	Check electrical connections e-BUS1
ALARM_57	Burners lack	check electrical connections BMM and e-BUS
ALARM_58	Global temperature sensor	Connect a new sensor if the code disappears, replace the sensor otherwise check the electrical connections
ALARM_60	Set date and time	
ALARM_61	CC: iono Regulation	
ALARM_62	CC: actuators	

ALARM_63	CC: internal error	
ALARM_64	CC: calibration	
ALARM_65	CC: calibration	
ALARM_66	CC: missing calibration	
ALARM_67	CC: iono setpoint	
ALARM_68	CC: offset GPV	
ALARM_69	CC: adaptation error	
ALARM_70	DHW Tank#1: sensor	
ALARM_71	DHW Tank#2: sensor	
ALARM_72	DHW Tank#3: sensor	
ALARM_73	Flow sensor	
ALARM_74	Temp. sensors swap	
ALARM_75	Temperature rise speed	
ALARM_76	Lack of fuel	
ALARM_77	Burner supercharged	
ALARM_78	Lockout by supercharging	
ALARM_79	Open door	
ALARM_80	Sun Panel#1: sensor	
ALARM_81	Sun Panel#2: sensor	
ALARM_82	Sun Pan#1: overheat	
ALARM_83	Sun Pan#2: overheat	
ALARM_84	Sun Pan#1: frost	
ALARM_85	Sun Pan#2: frost	
ALARM_86	SunTank: top sensor	
ALARM_87	SunTank: bottom sensor	
ALARM_88	SunTank: inlet sensor	
ALARM_89	SunTank: overheating	
ALARM_90	CC: internal communication	
ALARM_91	Exhaust temperature sensor	
ALARM_92	Low battery	
ALARM_93	Security block	
ALARM_94	Gas valve wiring	
ALARM_95	Frequent loss of flame	
ALARM_96	Unreliable reset	
ALARM_97	Test configuration	
ALARM_98	Iono amplifier	
ALARM_99	CC: internal error	
ALARM_100	CC: unknown lockout	
ALARM_101	CC: ignition failure	
ALARM_102	Iono sensor s.c.	
ALARM_103	VGAS: open delay	
ALARM_104	Keypad locked	



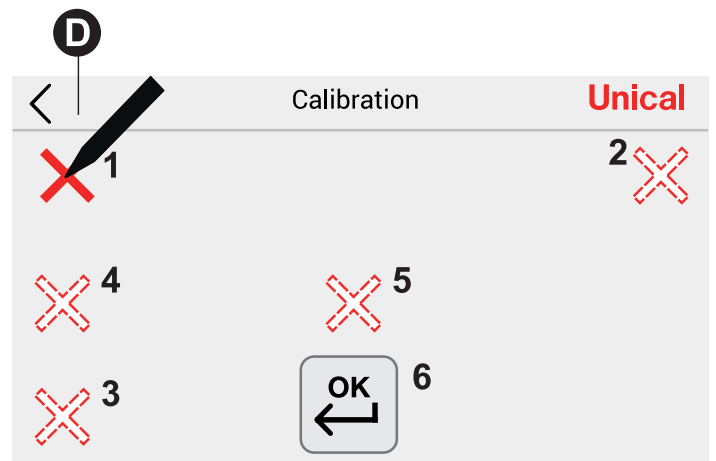
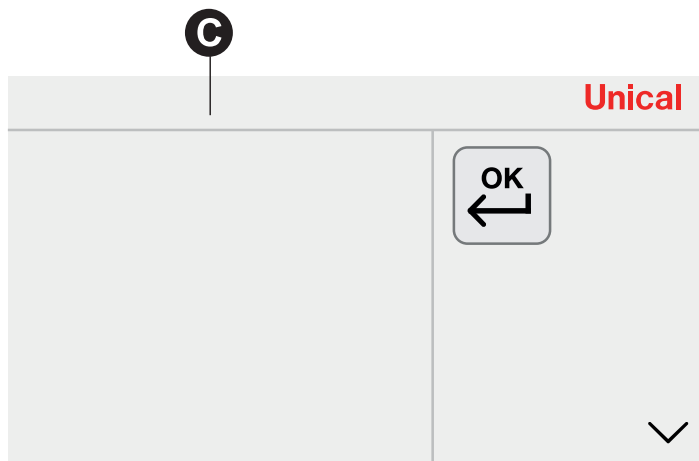
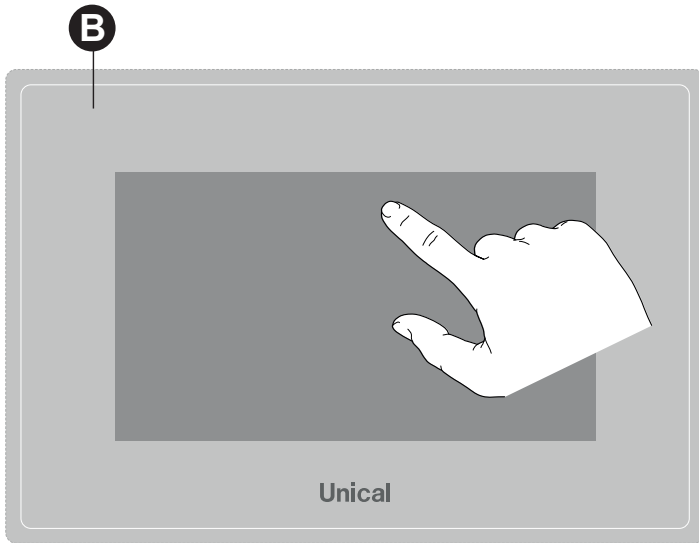
Key INFO

Touching indicated icon, you can select the parameter to be displayed in the HOME page.
 eg:
 changed from a value **PRESSURE** to **RETURN** temp.



Note: FILL icon appears only if the boiler is equipped with automatic (water) loading, (see installation boiler instructions).
 In this case if the system does not reach 1.2 bar pressure within 60 seconds, turn icon FILL.

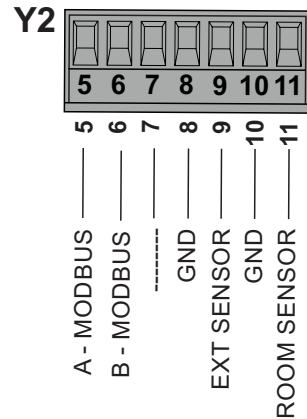
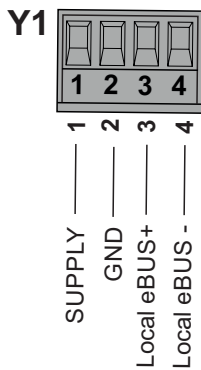
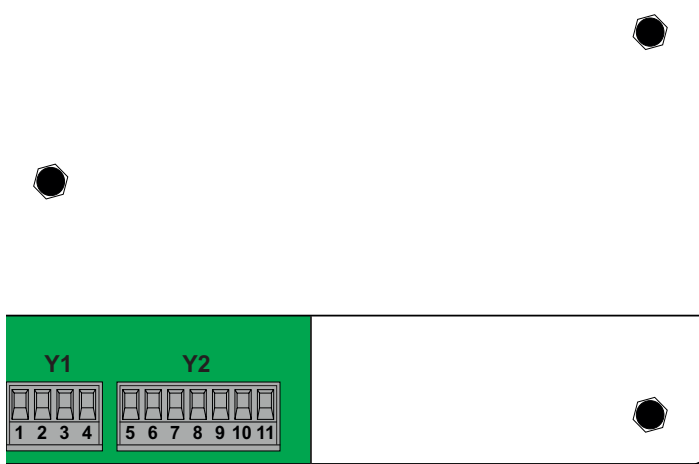
Screen Calibration (To be made in event of difficulties in use of buttons)



A	Remove power from the boiler
B	Touch the display and at the same time switch on the boiler. Remove your finger and use a nib
C	Wait display activation

D	Operation Display log: every time you see the X on the display, touch with a pencil the center of the X (1 to 5) and press OK
After these operations, the display is calibrated	

Wiring connection



Two separate communication channels are available
Local eBUS interface:

eBUS local interface (Y1)

Allows communication with the UNICAL acquisition and control equipment installed:

- BMM: “Burner module manager”, controls the single Heat source: Burner or Boiler
- SHC: “Slave heating controller”, manage the Heating circuits: CH, DHW and the auxiliary resource: Relay and Solar application
- HCM: “Heating control manager”, coordinates the SHC requests and manage the heat request from a single burner or a cascade system, the HCM device can also offers a function similar to the SHC

Modbus remote interface (Y2)

Through the **Modbus** interface is possible the access to all the Ufly P functions.

- Acquisition of operating information of all connected devices.
- Setting parameters and the thermoregulation control programs of HSCP
- Diagnostic Management: Acquisition and Reset of Alarms.
- Gateway: allows the protocol conversion of Modbus/eBUS to access all resources connected to the local eBUS.

Temperature sensors (Y2)

Two inputs for external temperature and ambient temperature sensors are provided: one can be used to provide the outside temperature of the system, the other for the implementation of the room thermostat function.

External Probe (Ext Sensor): The external temperature value ExtTemp can be acquired by the local sensor connected to the HSCP (ExtSensor) terminal or can be received from eBUS through another device on which the external probe is connected (eg. BCM).

If the information is not available, the value of ExtTemp is considered equal to 0 °C.

The OTC algorithm does not directly use the read temperature but its average value in the last 2 hours calculated on the acquisition of a value every 15 minutes.

Temperature sensors (Room Sensor): the room temperature can be acquired by Room Sensor and used for heating correction and for room thermostat function.

The OTC algorithm does not directly use the read temperature but its average value in the last 2', calculated on the acquisition of a value every 15"

Unical[®]



www.unical.eu

00338145EN - 1st ed. 02/19

Unical AG S.p.A. 46033 casteldario - mantova - italia - tel. +39 0376 57001 - fax +39 0376 660556
info@unical-ag.com - export@unical-ag.com - www.unical.eu

Unical declines every responsibility for the possible inaccuracies if owed to errors of transcript or press.

Also reserves the right to bring those changes that it will hold necessary to its own products or profits, without jeopardizing its essential characteristics.