# LA CIMBALI

# M200

MANUALE DEL TECNICO

ENGINEER'S MANUAL

MANUEL DU TECHNICIEN

TECHNIKERHANDBUCH

MANUAL DEL TÉCNICO

MANUAL DO TÉCNICO
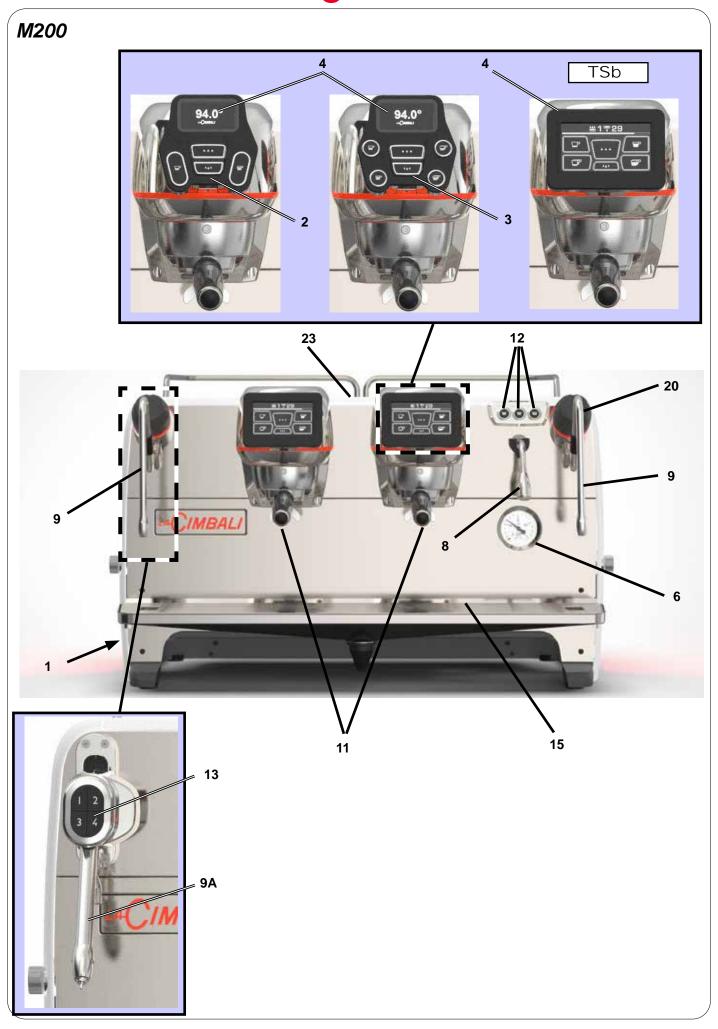


*Touch screen - Touchscreen*
*Pantalla táctil - Touchscreen*
*Écran tactile - Ecrã tátil*

*Pulsantiera Automatica*
*Automatic Push-button Strip*
*Tableau de commande automatique*
*Drucktasten*
*Teclado automático*
*Painel de botões automático*



(rev. 2210)

I

# LA CIMBALI

## IT — LEGENDA

**1** Interruttore generale
**2** Tastiera 4 selezioni
**3** Tastiera 6 selezioni
**4** Display grafico
**6** Manometro pompa
**8** Erogatore acqua calda
**9** Tubo (lancia) vapore
**9a** Tubo (lancia) Turbosteam (*)
**11** Portafiltro
**12** Tasti acqua calda
**13** Selettore Turbosteam (*)
**15** Bacinella appoggiatazze
**20** Manopola erogazione vapore
**23** Piano appoggiatazze
**TSb** Touch screen di selezione

I componenti - * - sono applicati solo in alcune configurazioni di prodotti.

## EN — LEGEND

**1** Main switch
**2** 4 keys pushbutton
**3** 6 keys pushbutton
**4** Graphical display
**6** Pump pressure gauge
**8** Hot-water outlet
**9** Steam pipe
**9a** Turbosteam pipe (*)
**11** Filter holder
**12** Hot-water key
**13** Turbosteam selector (*)
**15** Tray
**20** Steam supply knob
**23** Cup warmer
**TSb** Selection touch screen

The components - * - are applied only in some product configurations

## FR — LÉGENDE

**1** Interrupteur général
**2** Clavier 4 touches
**3** Clavier 6 touches
**4** Ecran graphique
**6** Manomètre pompe
**8** Sortie eau chaude
**9** Buse vapeur
**9a** Buse Turbosteam (*)
**11** Porte-filtre
**12** Touche eau chaude
**13** Sélecteur Turbosteam (*)
**15** Bac d'égouttement
**20** Robinet de débit du vapeur
**23** Chauffe-tasses
**TSb** Écran tactile de sélection

Les composants accompagnés d'un * ne sont montés que dans certaines configurations de produit.

## DE — LEGENDE

**1** Hauptschalter
**2** Druckknopftafeln 4 Tasten
**3** Druckknopftafeln 6 Tasten
**4** Graphisches Display
**6** Manometer Pumpe
**8** Heißwasserausgabe
**9** Dampfausgaberohr
**9a** Dampfausgaberohr Turbosteam (*)
**11** Filterhalter
**12** Heißwasser-Drucktaste
**13** Wahlschalter Turbosteam (*)
**15** Auffangschale
**20** Drehknopf Dampfabgabe
**23** Tassenerwärmer
**TSb** Wahl-Touchscreen

Die Komponenten - * - sind nur bei einigen Produktkonfigurationen enthalten.

**LA CIMBALI**

| **ES** LEYENDA | | **PT** LEGENDA | |
|---|---|---|---|
| **1** | Interruptor general | **1** | Interruptor geral |
| **2** | Botoneras 4 teclas | **2** | Quadro de 4 botões |
| **3** | Botoneras 6 teclas | **3** | Quadro de 6 botões |
| **4** | Display gráfico | **4** | Display gráfico |
| **6** | Manómetro bomba | **6** | Manómetro da bomba |
| **8** | Erogador agua caliente | **8** | Distribuidor de água quente |
| **9** | Tubo (boquilla) vapor | **9** | Tubo do vapor |
| **9a** | Tubo (boquilla) Turbosteam (*) | **9a** | Tubo do vapor Turbosteam (*) |
| **11** | Portafiltro | **11** | Porta-filtro |
| **12** | Tecla suministro agua caliente | **12** | Botão de distribuição de água quente |
| **13** | Selector Turbosteam (*) | **13** | Selector Turbosteam (*) |
| **15** | Bandeja | **15** | Tabuleiro |
| **20** | Botón giratorio erogación vapor | **20** | Manípulo de distribuição do vapor |
| **23** | Calientatazas | **23** | Grelha para aquecer chávenas |
| **TSb** | Pantalla táctil de selección | **TSb** | Touch screen de selecção |

Los componentes - * - se aplican sólo en algunas configuraciones de productos.

Os componentes - * - são aplicados só em algumas configurações de produtos.

# LA**C**IMBALI

## M200

| PED / DESP | $P_{max}$ [ bar ] | $T_{max}$ [ °C ] | tipo di macchina<br>**Type of machine**<br>type de machine<br>**Maschinentyp**<br>modelo de la máquina<br>tipo de la màquina | 2 gruppi<br>2 groups<br>2 groupes<br>2 Einheiten<br>2 grupos<br>2 grupos | 3 gruppi<br>3 groups<br>3 groupes<br>3 Einheiten<br>3 grupos<br>3 grupos | 4 gruppi<br>4 groups<br>4 groupes<br>4 Einheiten<br>4 grupos<br>4 grupos |
|---|---|---|---|---|---|---|
| | | | **Fluido - Fluid - Fluide**<br>Flüssigkeit - Fluido - Fluido | **Capacità - Capacity - Capacité** [ L ]<br>**Fassungsvermögen - Capacidad - Capacidade** | | |
| Caldaia<br>Service boiler<br>Chaudière<br>Heizkessel<br>Caldera<br>Caldeira | 2 | 133 | acqua/vapore<br>water/steam<br>eau/vapeur<br>Wasser/Dampf<br>agua/vapor<br>água/vapor | 7 | 7 | 7 |
| Boiler caffè - Coffee boiler<br>Chauffe-eau, café<br>Boiler Kaffee<br>Calentador café<br>Boiler do cafè | 15 | 160 | acqua - water<br>eau - Wasser<br>agua - água | 0.60<br>x 2 | 0.60<br>x 3 | 0.60<br>x 4 |



140 (5.5)**    175 (6.88)*    516 (20.3)

L2    L1    L

430 (16.9)    649 (25.6)

L/2    256 (10.1)    Ø~100(3.9)

| | ** | | * | |
|---|---|---|---|---|
| pos. 1 | 75 (2.95) | pos. 1 | 110 (4.33) | |
| pos. 2 | 115 (4.5) | pos. 2 | 150 (5.9) | |
| pos. 3 | 140 (5.5) | pos. 3 | 175 (6.88) | |

| DIMENSIONI / DIMENSIONS | | 2 gr. | 3 gr. | 4 gr. |
|---|---|---|---|---|
| **L** | mm | 887 | 1087 | 1287 |
| | inches | 34.9 | 42.8 | 50.6 |
| **L1** | mm | 859 | 1059 | 1259 |
| | inches | 33.8 | 41.7 | 49.6 |
| **L2** | mm | 740 | 940 | 1140 |
| | inches | 29.1 | 37 | 44.9 |
| **Peso netto**<br>**Net weight** | Kg | 70 | 92 | 105 |
| | pounds | 154 | 203 | 231 |

# Index

English

# LA CIMBALI

## Description of display symbols

### WATER LEVEL

This symbol indicates the boiler water level. During the loading phase, the bottom part of the icon blinks.

When the optimum level is reached, the symbol looks like this **OK**.

### HEATING ELEMENT

This symbol indicates that the heating element is activated and functioning; a thicker luminous flow passing through the heating element shows the electric heating is on.

When the boiler pressure reaches the set value, the icon looks like this.

This indicates that the boiler heating element has been disabled.

**N.B.: the customer cannot switch the electric heating on or off.**

When the on/off function is programmed, the electric heating takes place automatically.

### BOILER PRESSURE

This symbol indicates the boiler pressure value.

If the icon **bar 1,3** is pressed, the pressure gauge will be displayed analogically. This will be shown on the display:

Press again the icon **bar 1,3** to return to the regular display mode.

### CUP WARMER

These symbols indicate the power currently selected for the cup warmer.

### WI-FI

This symbol appears on the display when the Wi-Fi module is in the machine.

### BLUETOOTH

These symbols refer to Bluetooth communication:

- the white icon indicates the presence of the Bluetooth module on the machine;
- the white icon on blue background indicates that the machine is communicating with a Bluetooth grinder/dispenser.

### USB

This symbol appears on the display when a USB pen drive is connected.

### PAYMENT SYSTEMS

This icon indicates that the machine is connected to a payment system interface and is configured to work with it. Dispensing is therefore possible subject to approval by the payment system.

- the red icon indicates that the cash system has denied the transaction;
- the blue icon indicates that the cash system has approved the transaction.

### CONTROL OF THE FLOW (ONLY IF IN USE)

When this animated icon appears it means that it is necessary to adjust the grinder/dispenser to tighten or loosen the grinder, in order to return the coffee dose to the correct parameters.

The icons that are shown are:

means that the grinder needs to be loosened. (flow of coffee is lower than the reference).

means that the grinder needs to be tightened. (flow of coffee is greater than the reference).

Note. The number next to the icon (1 or 2) indicates the grinder/dispenser that must be adjusted.

The icon appears on the display instead of the level symbol.

## Coffee unit symbols (only automatic push-button strip)

**94.0°**    Boiler temperature indication.

⊔ 4    Pre-infusion phase, represented with the symbol and relative duration.

⊒ 25    Dispensing phase, represented with the symbol and relative duration.

bar indicating the total progress of the operation.

❄    This icon appears when the coffee boiler is switched on and indicates when the set temperature has been reached.

∿    This icon indicates that the coffee boiler is heating up.
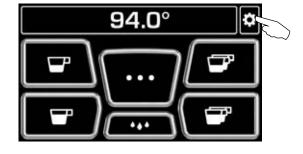
## Programming / menu access

Access the machine programming menu by pressing the **SET** ⚙ icon, found only on the right-hand group.

**NOTE**. The **SET** ⚙ icon may turn a different colour in some instances:

⚙    WHITE: normal operating mode.

⚙    YELLOW: service display message requiring user intervention (for example, wash request, grinder adjustment, with the PGS system active, etc.).

⚙    RED: error message

## LA CIMBALI

## Boiler shut off

### Touchscreen

**1**



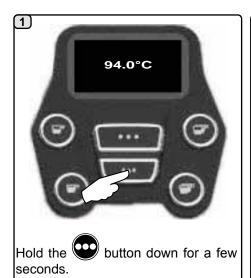Press the temperature on the boiler display.

**2**



On the boiler display, press the indication ⏻.

Note: if not pressed within a few seconds, the boiler returns to normal functioning.

**3**



The unit boiler is disabled. Press any part of the display to return to normal functioning.

### Automatic push-button strip

**1**



Hold the ⚬⚬⚬ button down for a few seconds.

**2**



The coffee group will go into STANDBY mode.
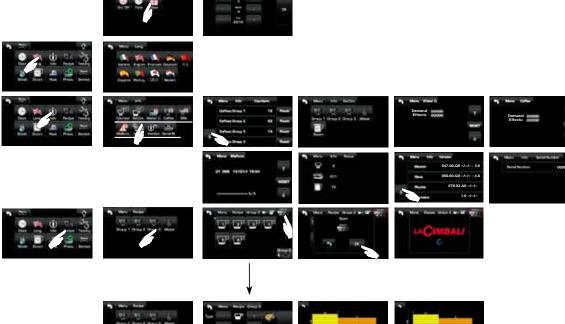
**3**



If unused for a further 60 seconds, the coffee group will turn off and dim the display.

Press any button (⚬ ⚬ ⚬⚬⚬) twice in a row to return to normal functioning.

# LACIMBALI

## Technical programming flow



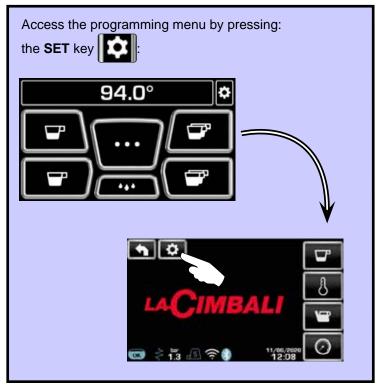**(versions with *Turbosteam L and Turbosteam R*)**

**Milk (versions with Turbo Milk)**

# LACIMBALI

## 1. TECHNICAL PROGRAMMING (TOUCH SCREEN)

### 1.1 Programming access "Touch screen"

Access the programming menu by pressing:

the **SET** key :

1) the key:

2) type the password and then press OK .

Return to the previous menu or exit the programming
menu by pressing the key .

## 1.2 Service time menu

**1**

Press the icon .

**AUTOMATIC SWITCH OFF / SWITCH ON**

The machine can be set to switch off and switch on at programmed times.
During the machine off phase, the display light is dimmed.

**Note: When the machine is working in the automatic on/off function do not use the main power switch (1) to switch off the machine. If this happens, the machine will not be able to switch on again automatically.**

**FORCED SWITCH ON**

Push any dispensing key to turn on.

**Note: Forcing the machine on does not change the programmed on/off times.**

**Note: At this point the machine will remain on until the next switch off time is reached.**

To immediately return the machine to the programmed switch off time, switch it off and on again using the main power switch (**1**).

**2a**

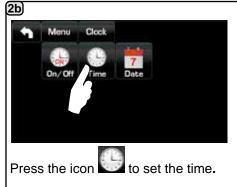Access the service hours menu by pressing the icon .

These parameters can be configured:
**USE** - timed switch-on/switch-off: YES, NO, Eco (during the switch-off phase, the machine's heating element is not completely disabled and allows the boiler pressure to remain at 0.2 bar).
**ON** - (switch-on time);
**OFF** - (switch-off time);
**DAY OFF** - (day of closure).

**2b**

Press the icon to set the time.

These parameters can be configured:
**HOUR, MINUTES, STYLE** - (24:00 or AM/PM).

**2c**

Press the icon to set the date.

These parameters can be configured:
**DAY, MONTH, YEAR.**

# LA CIMBALI

## 1.3 Language selection

Press the icon 🇬🇧.

Press the icon of the desired language.

## 1.4 INFO Menu

**1**

Press the icon 🛈.

**2**

In the INFO menu, you can view:

*Counters*    *Counters Sel.*

*Refill*    *Coffee*

*Malfunction*    *Setup*

*Version*    *Serial Number*

---
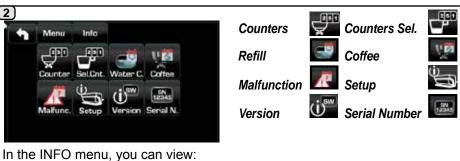
### *Counters*

**3a**

In the *Counters* menu the listed parameters are:

**Coffee Group…** - (number of coffee-based beverages);
**Brewing -** (number of times that coffee was dispensed in "brewing" mode);
**Tea infusion -** (number of times that tea was dispensed);
**Water** - (number of times that water was dispensed);
**Steam** - (number of times that steam was dispensed using the Turbosteam selector, position TS 1–4 with emulsion 0);
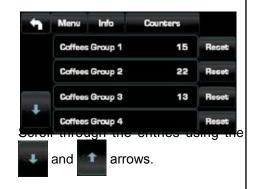**Steam + Air** - (number of times that steam and air were dispensed using the Turbosteam selector, positions TS 1–4 with emulsion from 10–100);
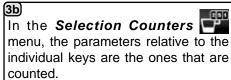**Hot milk** - (number of times hot milk was dispensed);
**Cold milk** - (number of times cold milk was dispensed);
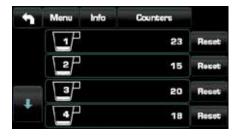**Total Coffee** - (total number of coffee-based beverages);

🕙 - (time since last start up).

| Menu | Info | Counters | |
| --- | --- | --- | --- |
| Coffees Group 1 | | 15 | Reset |
| Coffees Group 2 | | 22 | Reset |
| Coffees Group 3 | | 13 | Reset |
| Coffees Group 4 | | | Reset |

Scroll through the entries using the ⬇ and ⬆ arrows.

**3b**

In the *Selection Counters* menu, the parameters relative to the individual keys are the ones that are counted.

| Menu | Info | Sel.Cnt. |
| --- | --- | --- |
| Group 1 | Group 2 | Group 3 | Water |
| Steam | | | |

Example of counter selection of a coffee group :

| Menu | Info | Counters | |
| --- | --- | --- | --- |
| 1 | | 23 | Reset |
| 2 | | 15 | Reset |
| 3 | | 20 | Reset |
| 4 | | 18 | Reset |
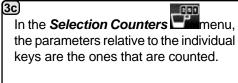
Example of counter selection of water doses :

| Menu | Info | Counters | |
| --- | --- | --- | --- |
| 1 | | 12 | Reset |
| 2 | | 5 | Reset |
| ⋯ | | 20 | Reset |
| | | | |

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**3c**

In the **Selection Counters** menu, the parameters relative to the individual keys are the ones that are counted.

Example of a Turbosteam key selection counter :
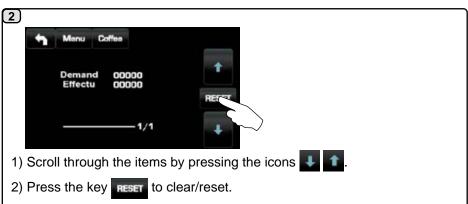


**Turbosteam 2 (SX)**

**Turbosteam 1 (DX)**

---

## Replacement part

**1**

Press the icon to display the "Refill" submenus

**2**

1) Scroll through the items by pressing the icons.

2) Press the key **RESET** to clear/reset.

---

## Coffee

**1**

Press the icon to display the "Coffee" submenus.

**2**

1) Scroll through the items by pressing the icons.

2) Press the key **RESET** to clear/reset.

---

## Milk (versions with Turbo Milk)

**1**

Press the icon to display The "Milk" submenus.

**2**

1) Scroll through the items by pressing the icons.
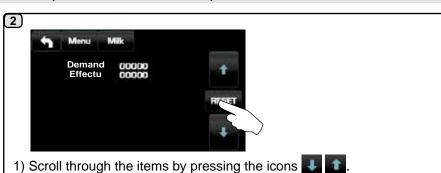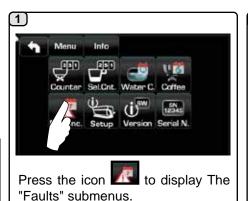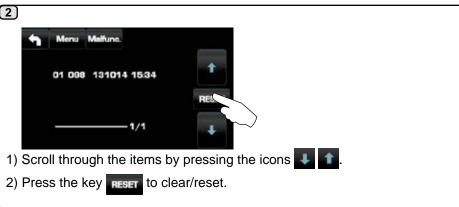
2) Press the key **RESET** to clear/reset.

## *Malfunct. Archive*

**1**

Press the icon  to display The "Faults" submenus.

**2**

1) Scroll through the items by pressing the icons ⬇ ⬆ .

2) Press the key **RESET** to clear/reset.

## *Setup*

**1**

Press the icon  to display The "Setup" submenus.

**2**

- 🥤: NUMBER OF GROUPS: 2, 3, 4;

- 🗄: GT Version - PROFILE;

- 🥛: Turbosteam: TS - TS/2 - NO;
  TurboMilk: YES / NO

## *Version*

**1**

Press the icon  to display The "Version" submenus.

**2**

| CPU | 086.T0.E0 --/--/-- |
| Boot | 2.1 --/--/-- |
| Display | 083.T2.A0 --/--/-- |
| Firmware | 1.2 --/--/-- |

Scroll through the items using the arrows ⬇ ⬆ .
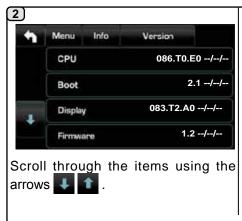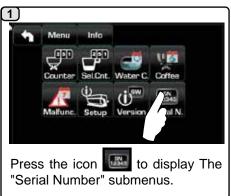
The submenus under "Version" show the memory versions:
- CPU 086.T0.E0;
- Boot  2.1;
- Display 083.T2.A0;
- Firmware 1.2;
- Bluetooth;
- WIFI;
- VEBOX;
- Turbosteam;
- Group.

## *Serial number*

**1**

Press the icon  to display The "Serial Number" submenus.

**2**

| Serial Number | 0000000 |

# LA CIMBALI

## 1.5 Programming measurements

**1**



Press the icon.

**2**



Press one of the coffee groups (example Group 3).

**3**



The programmable keys' icons are shown on the display.

**4**



When one of the coffee keys is pressed (for example Key 1), the following parameters are displayed on the services display:

water dose; pre-infusion time; wetting time.
The key in question will remain highlighted on the unit display.

NOTE. THE key can also be programmed as DOSED: press the icon on the parameter display screen:



Press the icon to return to CONTINUOUS mode.

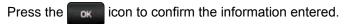The other functions of the key will remain unchanged in both configurations.

**5**



All parameters can be adjusted:

water dose (using the − and + keys);

pre-infusion time (using the keys ← →);

wetting time (pressing the icon will transform the icon into which will allow the time to adjusted with the keys ← →. Press the icon when the adjustment is complete).

Press the OK icon to confirm the information entered.

EXAMPLE 1.0" 3.5": **3.5** shows the duration in seconds of the pre-infusion phase.

**1.0** shows the duration in seconds of the wetting phase.

Sel.M. Grinder/dispenser selected can be associated with each key type.

Possibility to change the colour associated with each key type.

**6**

By pressing the key ►, the dispensing starts and the following screen appears on the services display:



```
TEST
Dv 0011  tG 002.1s
TB 093.4°C RB 010%

P 1.2bar SL OK 008%
Rc1 OFF   Evc OFF
Rc2 OFF   TV 024°C
```

The parameters displayed are:
**Dv**: *Volumetric meter incremental counter*
**tG**: *dispensing time*
**TB**: *instant coffee boiler temperature*
**RB**: *% activation coffee boiler heating element*
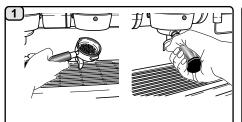**P**: *service boiler pressure*
**SL**: *service boiler water level; % level signal*
**Rc**: *service boiler heating element*
**Evc**: *Boiler-water-supply solenoid valve*
**TV**: *Turbosteam wand steam temperature*

**English**

**1**



Hook the filter holder with the dose of ground coffee to the group.

**2**



Press one of the coffee groups (example Group 3).

**3**



Press the key ; a red outline and the buzzer indicate the SELF-LEARNING phase.

**4**

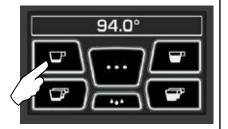Place the cup or cups underneath the filter holder nozzles.

The numbers relative to each key appear on the group display.



**5**

Push the button to be programmed (e.g. key 1): the icon of the key in question remains selected on the display.

When the desired level is reached in the cup or cups, press the key again.

Continue with any additional programming of the coffee buttons.



**6**



By pushing the coffee buttons on the services display, the doses entered can be viewed, with the values of the impulses of the volumetric dosing devices.

The doses entered with the self-learning function can be corrected manually using the +/- keys.
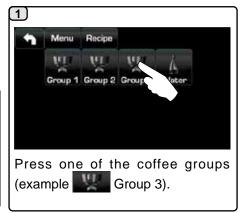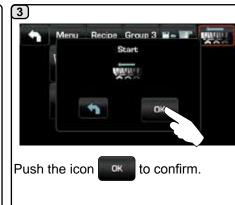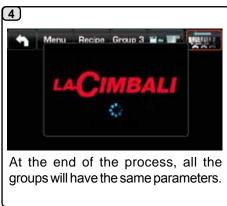
Afterwards, confirm the values by pressing the OK key.

![LA CIMBALI logo]

This feature allows you to replicate the selected coffee unit settings for all other machine groups.



**1**

Press one of the coffee groups (example ![icon] Group 3).



**2**

Push the Clone icon ![icon].



**3**

Push the icon ![OK] to confirm.



**4**

At the end of the process, all the groups will have the same parameters.

**English** (left margin)

**English** (right margin)

## LA CIMBALI

**English**

**1**

Press the icon ![icon].

**2**

Press the icon ![icon]. These parameters can be configured:

**SET…** - to set the dispensing time;

**%** - to set the water temperature.

NOTE: - ![icon] the red border around the icon indicates the key being changed.
- the TEST phase for the water keys is similar to the one for the coffee keys.

Press the ![OK] icon to confirm the information entered.

---

*Water dose programming using the "self-learning" function*

**1**

Place a container suitable for the amount you wish to fill beneath the hot-water outlet and press the ![icon] icon.

**2**

The buzzer sound and the red border around the ![icon] icon indicate theSELF-LEARNING STAGE.

**3**

Press key to be programmed. When the desired level is reached in the container press the key again.

Continue with any additional programming of the keys.

**4**

Press ![icon] to exit the SELF-LEARNING phase.

**5**

The buzzer sound will stop and the red border at the top left of the ![icon] icon will disappear.

**6**

The dispensing time and temperature of the water added will be displayed which can be corrected manually using the buttons ![- +].

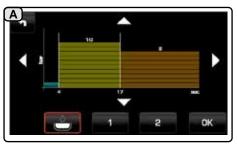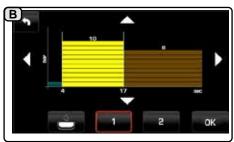Afterwards, confirm the values by pressing the ![OK] icon.

This function allows you to set the pressure profile with which the coffee is dispensed.

**1**

Wetting and pre-infusion phases, represented by the symbol 🥄 and relative duration.

**2**

Confirm the changes to the profile by pressing the **OK** key.
Press the ↩ key to exit, leaving the profile in its initial condition.

*English*
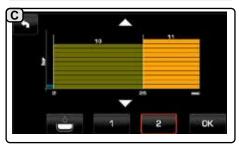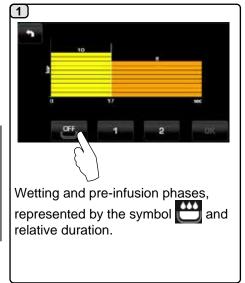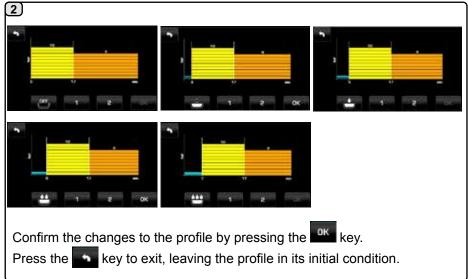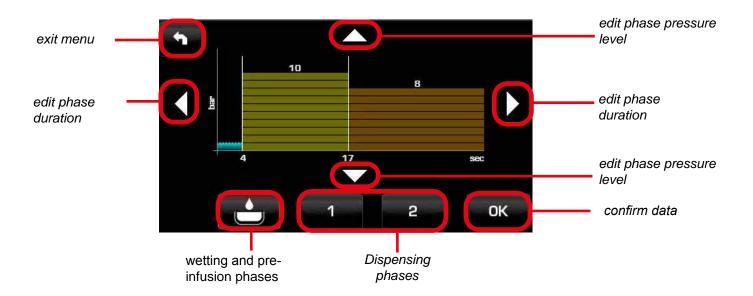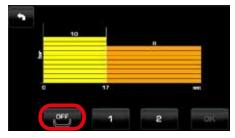
*Edit profiles*
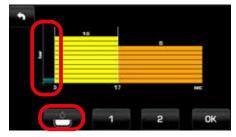
The profiles are customisable by changing the duration and pressure of the individual dispensing phases.



exit menu

edit phase pressure level

edit phase duration

edit phase duration

edit phase pressure level

confirm data

wetting and pre-infusion phases
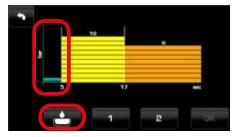
*Dispensing phases*

The numbers which appear on the graph identify the phase parameters.
For example, **phase 1** will have a duration of 17 seconds at 10 bar.



**wetting and pre-infusion OFF**

**wetting OFF  pre-infusion active**
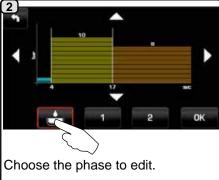
**wetting and pre-infusion active**
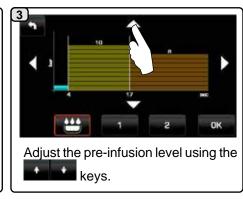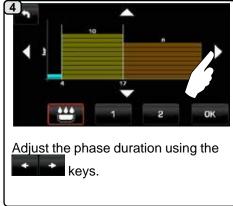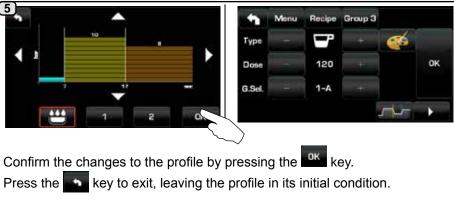
The following illustrates, in detail, how to proceed; the individual phases of the *3 short coffees key of unit 3* will be edited.

**English**

**1**

Press the icon 〔icon〕 of the key.

**2**

Choose the phase to edit.

**3**

Adjust the pre-infusion level using the ▲ ▼ keys.

**4**

Adjust the phase duration using the ◄ ► keys.

**5**

Confirm the changes to the profile by pressing the OK key.

Press the ↩ key to exit, leaving the profile in its initial condition.

*Initial profile*

*Edited profile*

**English**

**1**

| | Menu | Recipe | Group 3 | |
|---|---|---|---|---|
| Type | – | ☕ | + | 🎨 |
| Dose | – | 120 | + | OK |
| G.Sel. | – | 1-A | + | |

Press the icon of the key.

**2**

Choose the phase to edit.

**3**

Adjust the pressure using the keys.

**4**

Adjust the duration using the keys.

**5**

Choose another phase to edit.

**6**

Adjust the pressure using the keys.

**7**

| | Menu | Recipe | Group 3 | |
|---|---|---|---|---|
| Type | – | ☕ | + | 🎨 |
| Dose | – | 120 | + | OK |
| G.Sel. | – | 1-A | + | |

Confirm the changes to the profile by pressing the OK key.

Press the ↰ key to exit, leaving the profile in its initial condition.

The change in pressure profile associated with the *3 short coffees key of group 3* can be seen when comparing the initial profile with the edited profile:
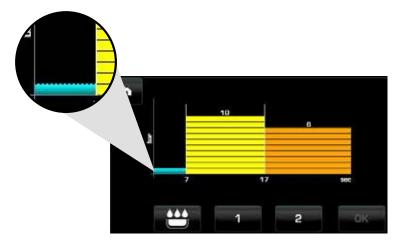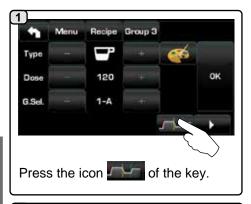
*Initial profile*                    *Edited profile*

# LA CIMBALI

## 1.6 Testing

**1**

Push.

**2**

The testing screen makes it possible to manually operate the machine components.

**Volumetric dispensing device incremental counter**

**!** *optional symbol: if visible, this indicates electrical faults on the level probe signal.*

*instant boiler temperature*

*boiler activation percentage*

**SL** *level signal; water level in boiler*

**P** *boiler pressure*

**MP** *component being tested*

**Evc** *Boiler-water-supply solenoid valve*

**RC** *boiler heating element*

*pressure sensors groups (only HDi)*

**TV** *Turbosteam wand steam temperature*

**Boiler activation percentage:** Modulation percentage of the heating power of the boiler.

**RC** **Boiler resistance:** Activation of resistance elements based on power selected.

Total power divided into: RC1 = ⅔ - RC2 = ⅓
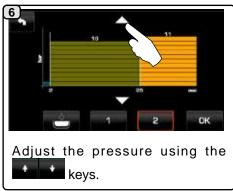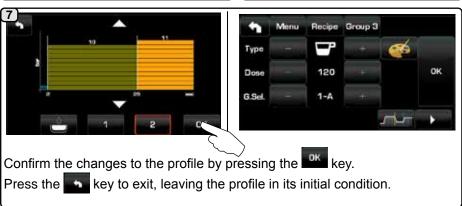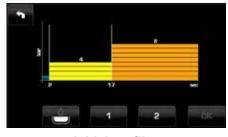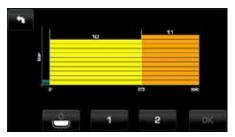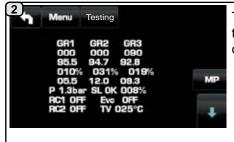
Full power cycle: RC1 ON / RC2 ON     Lower power cycle: RC1 ON / RC2 OFF

RC1 OFF / RC2 OFF                                           RC1 OFF / RC2 OFF

Press the icons ↓ ↑ to select the parts to be moved ; the operation is performed by pushing the button which indicates the name of the part.

Below are the symbols used to define the components that can be accessed for movement:

| | |
|---|---|
| **MP** | pump motor |
| **G1~G4** | Dispense-coffee solenoid valve |
| **Eac** | Hot water solenoid valve |
| **Eaf** | Cold-water solenoid valve |
| **Ev** | Steam solenoid valve |
| **Evc** | Charge-boiler solenoid valve |
| **Ets** | Turbosteam solenoid valve* |
| **MC** | Turbosteam motor compressor* |
| **Eds** | Drying solenoid valve* |
| **Em-Erp** | Milk solenoid valve/ Pressure reset solenoid valve* |
| **Gp1–Gp4** | Proportional solenoid valve* |

*The components - * - are only applied with certain product configurations.*

**(versions with *Turbosteam L and Turbosteam R*)**

**1**

Push [icon].

**2**

The testing screen makes it possible to manually operate the machine components.

*Volumetric dispensing device incremental counter*

**!** *optional symbol: if visible, this indicates electrical faults on the level probe signal.*

*instant boiler temperature*

*boiler activation percentage*

**SL** *level signal; water level in boiler*

**P** *boiler pressure*

**MP** *component being tested*

**TV** *Turbosteam 2 wand steam temperature*

**RC** *service boiler heating element*

*pressure sensors groups (only HDi)*

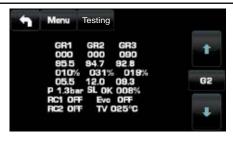**TV** *Turbosteam 1 wand steam temperature*

**Boiler activation percentage:** Modulation percentage of the heating power of the boiler.

**RC** **Boiler resistance:** Activation of resistance elements based on power selected.

Total power divided into RC1 = ⅔ - RC2 = ⅓

Full power cycle: RC1 ON / RC2 ON     Lower power cycle: RC1 ON / RC2 OFF

RC1 OFF / RC2 OFF                                RC1 OFF / RC2 OFF

Press the icons [↓] [↑] to select the parts to be moved ; the operation is performed by pushing the button which indicates the name of the part.

Below are the symbols used to define the components that can be accessed for movement:

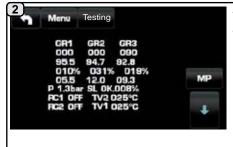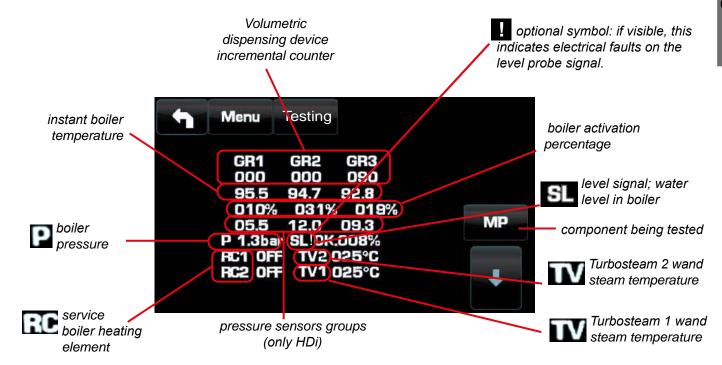| | |
|---|---|
| **MP** | pump motor |
| **G1~G4** | Dispense-coffee solenoid valve |
| **Eac** | Hot water solenoid valve |
| **Eaf** | Cold-water solenoid valve |
| **Ev** | Steam solenoid valve |
| **Evc** | Charge-boiler solenoid valve |
| **Ets** | Turbosteam solenoid valve (right)* |
| **MC** | Turbosteam motor compressor (right)* |
| **Ets2** | Turbosteam solenoid valve (left)* |
| **MC2** | Turbosteam motor compressor (left)* |
| **Eds** | Drying solenoid valve* |
| **Em** | Milk solenoid valve |
| **Gp1–Gp4** | Proportional solenoid valve* |

***The components - * - are only applied with certain product configurations.***

**(versions with Turbo Milk)**

**1** Press the icon [icon].

**2** The testing screen makes it possible to manually operate the machine components.

*Volumetric dispensing device incremental counter*

! *optional symbol: if visible, this indicates electrical faults on the level probe signal.*

*instant boiler temperature*

*boiler activation percentage*

**SL** *level signal; water level in boiler*

**P** *boiler pressure*

**MP** *component being tested*

**Sml** *No milk sensor*

**RC** *service boiler heating element*

*pressure sensors groups (only HDi)*

**WB** *Washing box sensor*

**Boiler activation percentage:** Modulation percentage of the heating power of the boiler.

**RC** **Boiler resistance:** Activation of resistance elements based on power selected.

Total power divided into: RC1 = ⅔  -  RC2 = ⅓

Full power cycle: RC1 ON   / RC2  ON          Lower power cycle: RC1 ON   / RC2 OFF
                 RC1 OFF / RC2 OFF                                           RC1 OFF / RC2 OFF

Press the icons [icons] to select the parts to be moved ; the operation is performed by pushing the button which indicates the name of the part.

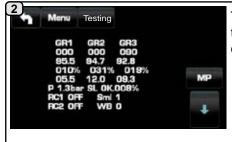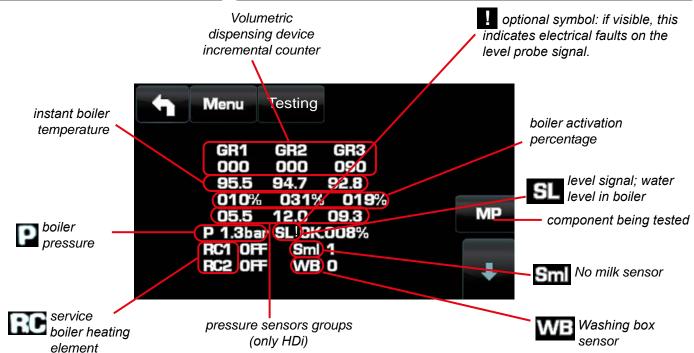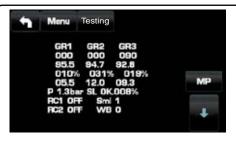Below are the symbols used to define the components that can be accessed for movement:

| | | | |
|---|---|---|---|
| **MP** | pump motor | **Edm** | Milk diverter solenoid valve |
| **G1-G3** | Dispense-coffee solenoid valve | **Edar** | Air diverter solenoid valve |
| **Eac** | Hot water solenoid valve | **Esm** | Milk safety solenoid valve |
| **Eaf** | Cold-water solenoid valve | **Etm** | Turbomilk solenoid valve |
| **Ev** | Steam solenoid valve | **Elf** | Washing solenoid valve |
| **Evc** | Charge-boiler solenoid valve | **Mpl** | Milk pump motor |
| **Em** | Milk solenoid valve | | |
| **Ed** | Diverter solenoid valve | | |
| **Elf1** | Water solenoid valve for milk reconstitution | | |

# LA CIMBALI

## 1.7 Washing

**1**

Press the icon [icon].

**2**
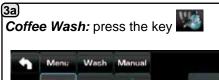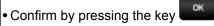
Select from the following wash settings:

*- Coffee* [icon]

*- Milk* [icon]

*- Time* [icon]

**3a**

*Coffee Wash:* press the key [icon]
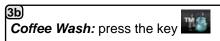
• Select the type of wash cycle to perform [icons];
• Confirm by pressing the key [OK];
• Follow the instructions on the display.

**3b**

*Coffee Wash:* press the key [icon]
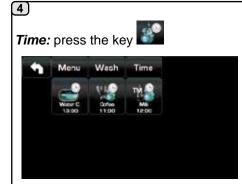
Press the [OK] key and follow the instructions on the display.

**NOTE:** More information on the wash cycle can be found in the "**Cleaning and Maintenance**" chapter."

**4**

*Time:* press the key [icon]

This menu makes it possible to set the times requests appear for the water change in the boiler, the coffee circuit wash, and the milk circuit wash.

Select which of the following times to set:

*- Change* [icon]

*- Coffee* [icon]

*- Milk* [icon]

![LA CIMBALI]

### 4a

***Replacement:*** press the key 



Change the time depending on your requirements.

Confirm by pressing the **OK** key.

The new time appears under the key.

NOTE: The "*CHANGE*" function with time request is set by the technical personnel who can also enable or disable the "block" function.

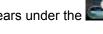With "block" enabled, if the water refill is not done within one hour, the machine prevents the dispensing of the beverages, water and steam.

With a scheduled time request, the user can only change the time the request appears.

### 4b

***Coffee:*** press the key 



Select which type of coffee wash you want to perform. For example ![].

Change the time depending on your requirements and confirm with the **OK** key.

The time appears under the key.

NOTE: The scheduled wash request can be cancelled by pressing the key; in this case, no time appears under the key.

### 4c

***Milk:*** press the key 



NOTE. It is NOT possible to cancel the scheduled wash request.

Change the time depending on your requirements and confirm with the **OK** key.

The new time appears under the key.

## Heating milk for cappuccino

### General instructions

Milk is an organic product. It is delicate and therefore easily alterable. Heat changes its structure. From the moment the container is opened and for the entire period of use, the milk must be kept at a temperature **not exceeding 5°C (41°F)**; our milk storage appliances are suitable for this purpose.
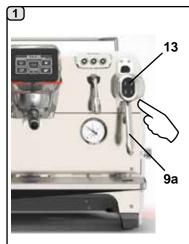
**Note: at the end of the business day (or, in any case, not more than 24 hours after opening the container), unused milk must be disposed of.**

**Dispensing with the Turbosteam selector (13)** (where applicable)

Machines equipped with the TURBOSTEAM (STOP STEAM) dispensing system "*stop dispensing steam once a specified temperature is reached*" for rapid heating and milk frothing.

The Turbosteam keys have different functions based on the following configuration:

1    hot milk.

2    frothed milk (minimum frothing level).

4    frothed milk (medium frothing level).

3    frothed milk (high frothing level).

**1**



**13**

**9a**

Insert the steam nozzle (**9a**) into a suitable container, making sure the bulb is completely immersed in the beverage.

Using the selector (**13**) select what type of milk you want from the 4 available settings (**1 - 4**) and push the appropriate key.

**2**
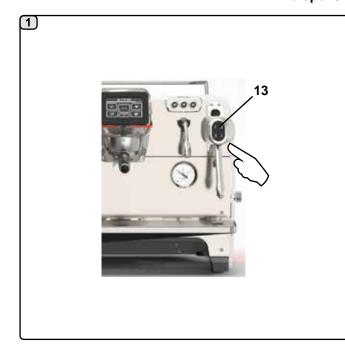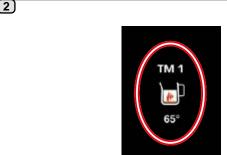


The type of frothing selected is displayed on the touch screen during dispensing.

Once the set temperature is reached, the steam will stop automatically.

Dispensing can be stopped at any time by pressing any of the Turbosteam keys (**13**).

**Milk dispensing (where applicable)**

**1**



**13**

**2**



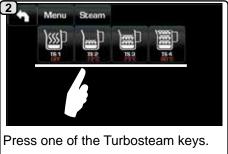The type of milk selected is displayed on the touch screen during dispensing.

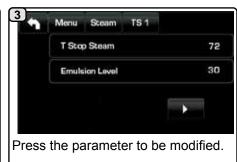When the dose set is reached, the milk stops dispensing automatically.

Dispensing can be stopped at any time by pressing any of the keys of the selector (**13**).
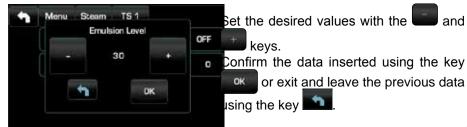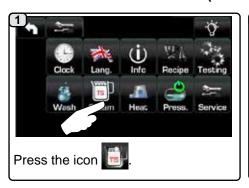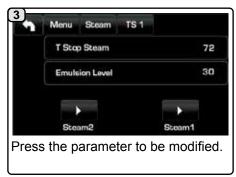
# LA CIMBALI

## 1.8 Turbosteam

**1**

Press the icon ![TS].

**2**

Menu   Steam

Press one of the Turbosteam keys.

**3**

Menu   Steam   TS 1

T Stop Steam                72

Emulsion Level              30

Press the parameter to be modified.

**4**

Menu   Steam   TS 1
T Stop Steam
OFF
—  72  +
0
OK

Menu   Steam   TS 1
Emulsion Level
OFF
—  30  +
0
OK

Set the desired values with the ![—] and ![+] keys.

Confirm the data inserted using the key ![OK] or exit and leave the previous data using the key ![↰].

**5**

Menu   Steam   TS 1

T Stop Steam                72

Emulsion Level              30

TEST

P 1.2bar  SL OK 008%
Rs1 OFF   Evc  OFF
Rs2 OFF   TV  024°C

By pressing the ![▶] key, the following screen appears on the services display.

---

**(versions with _Turbosteam L and Turbosteam R_)**

**1**

Press the icon ![TS].

**2**

Menu   Steam

Press one of the Turbosteam keys.

**3**

Menu   Steam   TS 1

T Stop Steam                72

Emulsion Level              30

▶               ▶
Steam2          Steam1

Press the parameter to be modified.

**4**

Menu   Steam   TS 1
T Stop Steam
OFF
—  72  +
0
OK

Menu   Steam   TS 1
Emulsion Level
OFF
—  30  +
0
OK

Set the desired values with the ![—] and ![+] keys.

Confirm the data inserted using the key ![OK] or exit and leave the previous data using the key ![↰].

**5**

Menu   Steam   TS 1

T Stop Steam                72

Emulsion Level              30

▶               ▶
Steam2          Steam1

TEST

P 1.2bar  SL OK 008%
Rs1 OFF   Evc  OFF
Rs2 OFF   TV  024°C

By pressing the ![▶] key, the following screen appears on the services display.

# LACIMBALI

**English**

**1**

Press the icon ![TM icon].

**2**

TM 1    TM 2    TM 3    TM 4

Press one of the Turbo Milk keys.

**3**

Menu    Milk    TM 3

| Milk Dose | 10.0" |
| Emulsion | 7.5" |
| v Mpl Milk | 70 |
| v Mpl Emulsion | 70 |

Press the parameter to be modified.

**4**

Menu    Milk    TM 3
Milk Dose
–   10.0"   +
10.0"
7.5"
70
70

Menu    Milk    TM 3
Emulsion
–   7.5"   +
10.0"
7.5"
70
70

Set the desired values with the ![- +] keys.
Confirm the data inserted using the key ![OK] or exit and leave the previous data using the key ![back].

Menu    Milk    TM 3
v Mpl Milk
–   70   +
10.0"
7.5"
70
70

Menu    Milk    TM 3
v Mpl Emulsion
–   70   +
10.0"
7.5"
70
70

Note: pressing the icon ![jug] makes it possible to edit the type of key (![cold] cold / ![hot] hot)

**5**

Menu    Milk    TM 3
| Milk Dose | 10.0" |
| Emulsion | 7.5" |
| v Mpl Milk | 70 |
| v Mpl Emulsion | 70 |

TEST

P 1.3bar  SL OK 008%.
Rc1 OFF    Sml 1
Rc2 OFF    WB 0

By pressing the ![►] key, the following screen appears on the services display.

**1**

Menu    Milk
TM 1    TM 2    TM 3    TM 4

Press the icon ![service icon].

**2**

Menu    Service    Milk
| Automatic Washing | 5' |
| Start Time | 2.5" |
| Milk Pipe Emptying Time | 5.0" |

Press the parameter to be modified.

**3**

Menu    Service    Milk
Automatic Washing
–   5'   +
5'
2.5"
5.0"

Menu    Service    Milk
Start Time
–   2.5"   +
5'
2.5"
5.0"

Menu    Service    Milk
Milk Pipe Emptying Time
–   5.0"   +
5'
2.5"
5.0"

Set the desired values with the ![- +] keys.
Confirm the data inserted using the key ![OK] or exit and leave the previous data using the key ![back].

# LA CIMBALI

## 1.9 Cup warmer

| 1 | 2 | 3 |
|---|---|---|

Push the [icon] icon.

Select the heating level.

Additional changes can be made using the [- +] key.
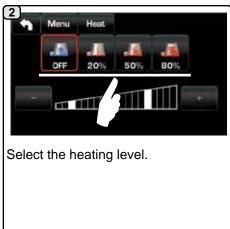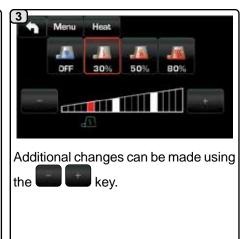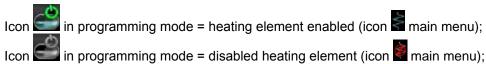
## 1.10 Heating element

The technician can activate or deactivate the heating element (of the service boiler and the boiler) as follows:

| 1 | 2 |
|---|---|

Press the icon [icon].

Returning to the main menu using the key [↰], the icon of the cancelled heating element is displayed [icon]: all the heating elements and the self-leveller function of the boiler are deactivated.

Icon [icon] in programming mode = heating element enabled (icon [icon] main menu);

Icon [icon] in programming mode = disabled heating element (icon [icon] main menu);

## 1.11 Programming

**1**

Press the icon .

**2**
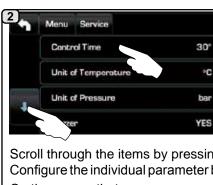
Scroll through the items by pressing the icons.
Configure the individual parameter by pressing the box of the parameter itself.
On the screen that appears, press the desired icon and confirm with OK.

| Menu Service | |
|---|---|
| Control Time | 30" |
| Unit of Temperature | °C |
| Unit of Pressure | bar |
| Buzzer | OFF |

**Time control -** shows dispensing time on display: YES/NO (from 1 sec to 1 hour).

**Temperature Unit -** can be set to: °C, degrees centigrade/Celsius, or °F, degrees Fahrenheit.

**Pressure Unit -** can be set to bar or psi.

**Buzzer** - enables/disables all acoustic signals when keys are pressed or messages are displayed: YES/NO.

| Menu Service | |
|---|---|
| Boiler Pressure | 1.2 |
| Coffee Boiler | → |
| Flush | 3" |
| Low Power | NO |

**Boiler Pressure -** indicates the pressure of the service-boiler; 0.6 to 1.6 bar (9 to 23 psi)

**Boiler Temperature -** this parameter includes the items for setting the coffee boiler temperature; values that can be set are 60°C – 110°C (140°F – 230°F) with intervals of 0.5°C. Programmable group temperature with ability of offset correction (see section on following pages).

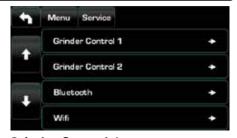**Flush -** see section "Enabling Flush key" on the following pages.

**Low power** - YES/NO

| Menu Service | |
|---|---|
| Customer Prog. | NO |
| Prog. Lock | NO |
| Weighing System | NO |
| Payment System | OFF |

**User Prog. -** user programming: YES/NO.

**Lock Prog. -** block settings: YES/NO.

**Weighting system** - allows management of the Acaia scales for weighing the amount of coffee dispensed: YES/NO.

**Payment systems** - allows a payment system to be configured, when connected.

| Menu Service | |
|---|---|
| Grinder Control 1 | → |
| Grinder Control 2 | → |
| Bluetooth | → |
| Wifi | → |

**Grinder Control-1**
**Grinder Control-2**
***(only if the machine is connected to a wireless grinder/dispenser).***
The following parameters can be set:
**- Enabled -** MM1 - MM2
Set to "NO" during the machine configuration phase; "YES" once parameters have been entered.
**- Adjustment threshold -** see section "Steps for Bluetooth Coffee Machine-Grinder/Dispenser Communication" on the following pages.

**Bluetooth Menu -** see section "*Bluetooth Connection*" on the following pages.

**Wi-Fi Menu -** see section "Wi-Fi Configuration" in the following pages.

## LA CIMBALI

| Menu | Service | |
|---|---|---|
| Level Sensib. | | 2 |
| Softener Reg. | | → |
| Change W. Filter | | → |
| Maintenance | | → |

| Menu | Service | |
|---|---|---|
| BDS | | NO |
| Screensaver | | → |
| Standard Data | | |
| Password | | |

**Level Sensitivity -** indicates the degree of sensitivity of the level probe, which then operates the filling of the boiler with water. For safety reasons, automatic level control of the self-leveller service-boiler is disabled when the service-boiler heating element is turned off.
- Note: set a value of 1 if the machine is installed with very conductive water.
- Note: set a value of 3 if the water used is not very conductive (very soft).

**SOFTENER Regeneration -** includes the parameters for softener regeneration: litres of softener (between 0.1L and 25L), hardness (between 0 and 45°F). The decreasing softener efficiency level is also indicated.

**Filter Replacement -** when the litre level on the display is reached, a message is displayed for replacement of the filter.
For both functions, an efficiency percentage is displayed (Softener/Filter), decreasing from 100% to 0%.

**Maintenance -** includes 4 submenus for setting maintenance parameters:

**- Max cycles -** the number of cycles set.

**- Max days -** the number of days set.

**- No. cycles/days -** this is the number of cycles and days until next maintenance.

**- Maintenance -** YES/NO.

Enables (YES) or does not enable countdown of the cycles and days until the next maintenance activity.

**Bds -** see section "BDS Activation" in the following pages.

**Screensaver** - possibility of programming the screensaver display time (from 30 sec to 20 min)

**Standard data -** allows loading of standard data or reconfiguration of the machine. In both cases, the machine is automatically restarted.

**Password -** allows the code to be changed to access technical programming.

# LA CIMBALI

**English**

**1**

Clock  Lang.  Info  Recipe  Testing

Wash  Steam  Heat  Pre  Service

Press the icon [icon].

**2**

Menu  Service

Boiler Pressure          1.2

Coffee Boiler            ▸

Flush                    3"

Low Power                NO

Scroll through the items by pressing the [↓] [↑] icons.

Press the icon **Coffee Boiler**.

**3**

Menu  Service  Coffee Boiler

1  –  94.0  +

2  –  91.0  +        OK

3  –  92.0  +

4  –  92.0  +        [↕↕]

Press the offset [↕↕] icon.

**4**

Menu  Service  Coffee Boiler

1  –  94.0  +
      ᴗᴗᴗᴗ|ᴗᴗᴗᴗ

2  –  91.0  +        OK
      ᴗᴗᴗᴗ|●ᴗᴗᴗ

3  –  92.0  +
      ᴗᴗᴗᴗ|●ᴗᴗᴗ

4  –  92.0  +        [↕↕]
      ᴗᴗᴗᴗ|●ᴗᴗᴗ
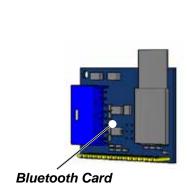
Set the desired values using the "**+**" and "**-**" icons.
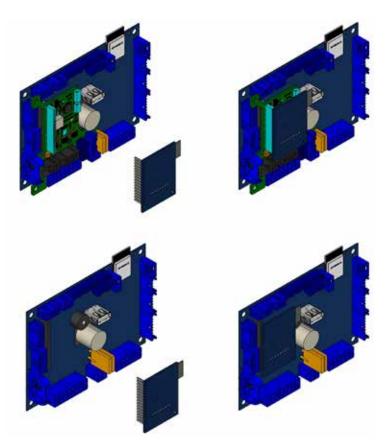
NOTE: a temperature offset can be set for the boiler adjustable by ±2°C.

Each dot corresponds to approximately half a degree centigrade of offset.

Confirm the data inserted using the icon [OK] or exit and leave the previous data using the icon [↩].

**English**

---

## Bluetooth Connection



*Bluetooth Card*
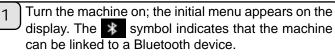
**Bluetooth Menu -** The parameters that can be set are:

**- MM1-MM2 -**  1 to 2 grinders can be connected.
**- Search -** the machine will find all Bluetooth devices within 10 m.
**- Reset -** cancels the connection with the associated device.

**Note: during connection with bluetooth grinders/dispensers, the first one connected is set as MM1.**

# LA CIMBALI

**English**

**1** Turn the machine on; the initial menu appears on the display. The ✳ symbol indicates that the machine can be linked to a Bluetooth device.
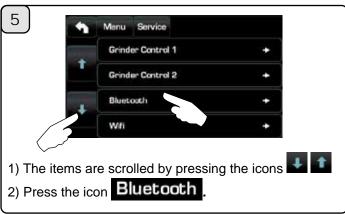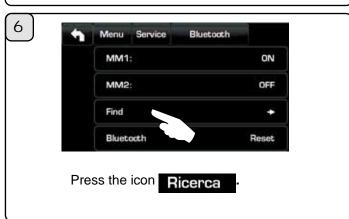


To enter TECHNICAL programming, press the icon [⚙].

**2**



Push [🔧].

**English**

**3**



Type the password and then press [OK].

**4**



Press the icon [🔧].

**5**



1) The items are scrolled by pressing the icons [↓] [↑]
2) Press the icon **Bluetooth**.

**6**



Press the icon **Ricerca**.

**7**



The machine will find all Bluetooth devices within a range of 10 metres.

**8**
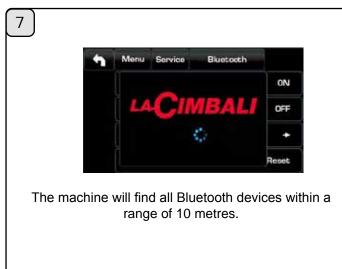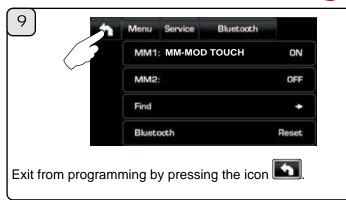


1) The items are scrolled by pressing the icons [↓] [↑]
2) Press the icon [OK] to confirm the selected device, an asterisk will appear ✱ next to the line of the grinder/dispenser to indicate the successful Bluetooth association with the machine:

**9**

| Menu | Service | Bluetooth | |
|------|---------|-----------|---|
| MM1: | **MM-MOD TOUCH** | | ON |
| MM2: | | | OFF |
| Find | | | → |
| Bluetooth | | | Reset |

Exit from programming by pressing the icon [↰].

**10**

The blue icon [*] indicates that the machine and grinder/dispenser are communicating.

**English**

**English**
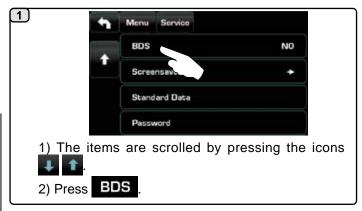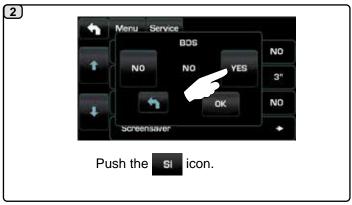
In the event of communication problems, the "COMMUNICATION FAILURE" message will appear on the display followed by the name of the disconnected grinder/dispenser. The message disappears automatically when the Bluetooth connection is restored. A common cause of this failure is the grinder/dispenser being turned off with the machine turned on.
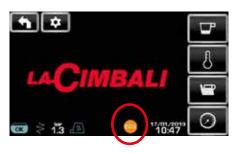
**BDS activation and sensor configuration**

**1**

1) The items are scrolled by pressing the icons ⬇ ⬆.

2) Press **BDS**.

**2**

Push the **SI** icon.

**3**

Push the icon **OK** to confirm.
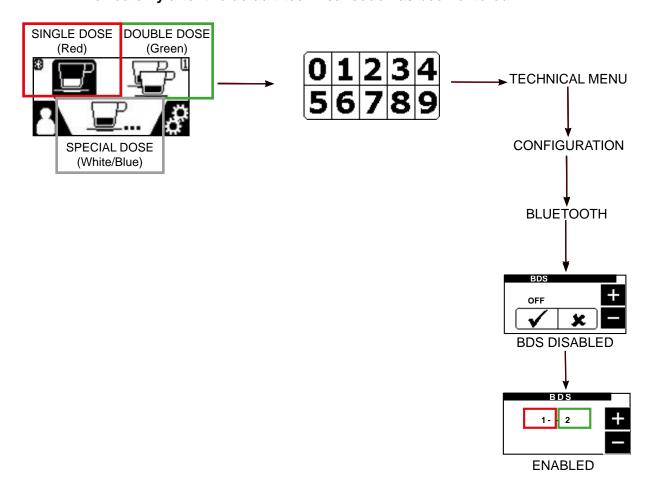
**Note:** With BDS active the payment systems cannot be activated.

**All the TECHNICAL MENU items of the "Magnum Bluetooth" grinder/dispenser can be viewed only after the default technical code has been entered.**

SINGLE DOSE (Red)   DOUBLE DOSE (Green)

SPECIAL DOSE (White/Blue)

0 1 2 3 4
5 6 7 8 9

TECHNICAL MENU

CONFIGURATION

BLUETOOTH

BDS
OFF
✓   ✗
+ −
BDS DISABLED

BDS
1 -   2
+ −
ENABLED
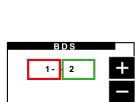
## Configuration of Magnum Bluetooth grinder/dispenser sensors

**English**
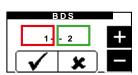
0: sensor disabled

1: single dose (Red)
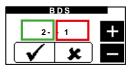
2: double dose (Green)

SINGLE DOSE
(Red)

DOUBLE DOSE
(Green)

SPECIAL DOSE
(White)

SPECIAL DOSE
(Blue)

**English**

BDS
1 - - 2

BDS
1 - - 2 ✓ ✗
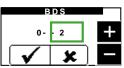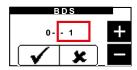
Single dose – Left Sensor (Red)
Double dose – Right Sensor (Green)

BDS
2 - - 1 ✓ ✗
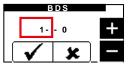
Double dose – Left Sensor (Green)
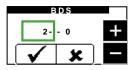Single dose – Right Sensor (Red)

BDS
0 - - 2 ✓ ✗

Left Sensor disabled
Double dose – Right Sensor (Green)

BDS
0 - - 1 ✓ ✗

Single dose – Right Sensor (Red)
Left Sensor disabled

BDS
1 - - 0 ✓ ✗
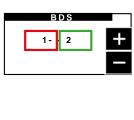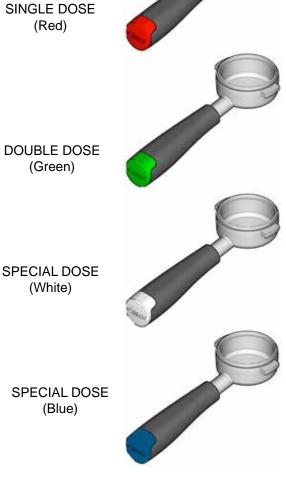
Single dose – Left Sensor (Red)
Right Sensor disabled

BDS
2 - - 0 ✓ ✗

Double dose – Left Sensor (Green)
Right Sensor disabled

## Setting recipes and connections with grinder/dispenser

**English**

-NOTE: ALSO POSSIBILE TO CONNECT WITH GRINDER/DISPENSER 2

GRINDER/DISPENSER 1



The filter holder-key and machine association logic is the following:
**1-A or 2-A** = activation of the first actuator
(filter-holder with single delivery spout)
**1-B o 2-B** = activation of the second actuator (filter-holder with double delivery spout)
**1-C or 2-C** = activation of the third actuator with filter-holder with dedicated filter

With the number **1** the first grinder/dispenser **MM1** is identified
With the number **2** the second grinder/dispenser **MM2** is identified

With the letters **A-B and C** the filter-holders are identified

**English**



← MEDIUM →

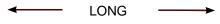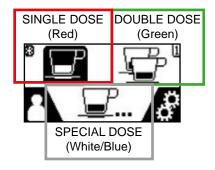



← SHORT →





← LONG →



Every button on the machine can be configured based on the type and the relative grinder/dispenser. Not all types can be used with the BDS system. The possible choices are:
- Single type
-        Short
-        Medium -> SINGLE DOSE (Red)
-        Long -> SPECIAL DOSE (White/Blue)
- Double type
-        Short
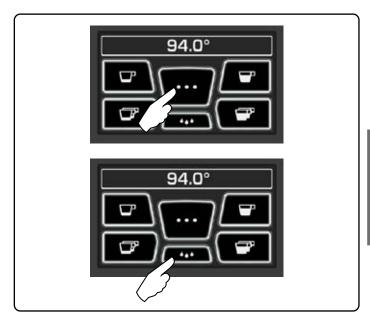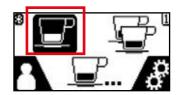-        Medium -> DOUBLE DOSE (Green)
-        Long

SINGLE DOSE (Red)   DOUBLE DOSE (Green)
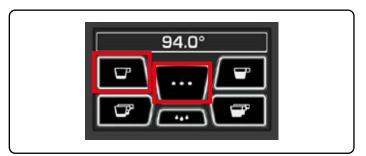


SPECIAL DOSE (White/Blue)

BDS system enabled.
Dispensing disabled (keys off) NOTE: Start/Stop key is always active.



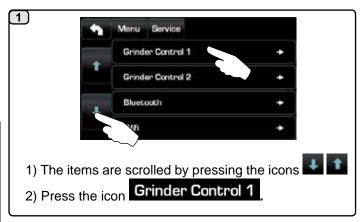Dose grinding and dispensing activated (key on)





Dispensing will remain active for 2 minutes. During this time, the grinder/dispenser used will be blocked and therefore unable to grind a second dose of coffee.
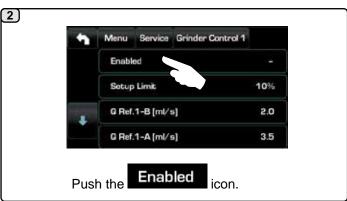
The grinder/dispenser will automatically release when the enabled key is pressed or when the two minutes of waiting time have elapsed.



BLOCKED

# LA CIMBALI

**English**

**1**

Menu   Service
Grinder Control 1   →
Grinder Control 2   →
Bluetooth   →
(fi   →

1) The items are scrolled by pressing the icons ⬇️ ⬆️
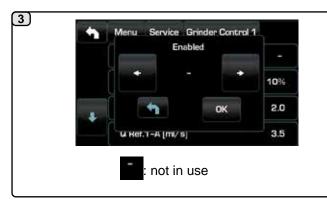
2) Press the icon **Grinder Control 1**.
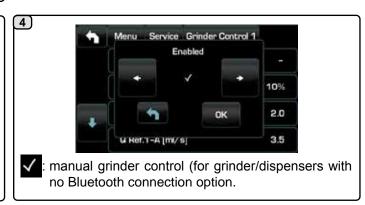
*Grinder Control-1*
*Grinder Control-2*
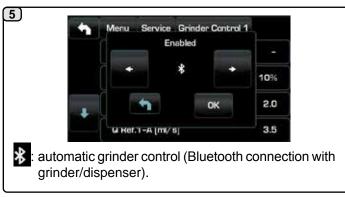*(only if the machine is connected to a wireless grinder/dispenser).*

The parameters that can be set are:

**−**: not in use.

**✓**: manual grinder control (for grinder/dispensers with no Bluetooth connection option).

**✳**: automatic grinder control (Bluetooth connection with grinder/dispenser).

Note: For proper operation of the grinder control system, keys of the same type (e.g., singular ones relative to grinder/dispenser 1) must be programmed with the same pressure and time parameters in all the phases of the profile.

**English**

**2**

Menu   Service   Grinder Control 1
Enabled   −
Setup Limit   10%
G Ref.1-B [ml/s]   2.0
G Ref.1-A [ml/s]   3.5

Push the **Enabled** icon.

**3**

Menu   Service   Grinder Control 1
Enabled
←   −   →   −
🔙   OK   10%
2.0
G Ref.1-A [ml/s]   3.5

**−**: not in use

**4**

Menu   Service   Grinder Control 1
Enabled
←   ✓   →   −
🔙   OK   10%
2.0
G Ref.1-A [ml/s]   3.5

**✓**: manual grinder control (for grinder/dispensers with no Bluetooth connection option.

**5**

Menu   Service   Grinder Control 1
Enabled
←   ✳   →   −
🔙   OK   10%
2.0
G Ref.1-A [ml/s]   3.5

**✳**: automatic grinder control (Bluetooth connection with grinder/dispenser).

The parameters can be modified manually using the keys ← →.

After completing operations, confirm the values by pushing the OK key or exit and leave the previous data using the 🔙 key.

✓ : manual grinder control (for grinder/dispensers with no Bluetooth connection option).



1. disable grinder control, if in use.
2. set and calibrate the machine and grinder/dispenser as desired.
3. dispense into the test square all the types of beverages to be used (double coffee, single coffee and any special blend - third key).
4. write down the satisfactory flow values of the coffees for each of the possible three types of beverage.
5. go to the grinder control panel and perform reset.
6. set the flow values for each of the beverages.
7. enable grinder control.

Note: Set the Q.ref of double coffees first for proper functioning of grinder control.

*control of the flow (only if in use)*

When this animated icon appears, it is necessary to adjust the grinder/dispenser to tighten or loosen the grinder in order to return the coffee dispensing to the default parameters.
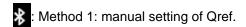The icons that are shown are:

 means that the grinder needs to be loosened. (flow of coffee is lower than the reference).

 means that the grinder needs to be tightened. (flow of coffee is greater than the reference).

Note. The number next to the icon (1 or 2) indicates the grinder/dispenser that must be adjusted.
The icon appears on the display instead of the level symbol.

※ : Method 1: manual setting of Qref.



1. disable grinder control, if in use.
2. connect the machine to the grinder/dispenser via Bluetooth and enable dialogue in the manner already in use.
3. set and calibrate the machine and grinder/dispenser as desired.
4. dispense into the test square all the types of beverages to be used (double coffee, single coffee and any special blend - third magnum key on demand).
5. write down the satisfactory flow values of the coffees for each of the possible three types of beverage.
6. go to the grinder control panel and perform reset.
7. set the flow values for each of the beverages.
8. enable grinder control.

**⁂** : Method 2: setting of Qref in fully self-learning mode.



1. Disable grinder control, if in use.
2. Connect the machine to the grinder/dispenser via Bluetooth and enable dialogue in the manner already in use.
3. Programme and calibrate the machine and grinder/dispenser as desired, dispensing the beverages until a satisfactory cup result is achieved.
4. Go to the grinder control panel and perform reset.
5. Enable grinder control.
6. Exit programming.
7. Dispense double coffees (5 or more) until the message Qref OK appears on the services display (with audible sound).
8. Dispense single coffees (5 or more) until the message Qref OK appears on the services display (with audible signal).
9. Dispense any special blend coffees (5 or more) until the message Qref OK appears on the services display (with audible sound).
10. Enter programming and check that the Qref values set are present.

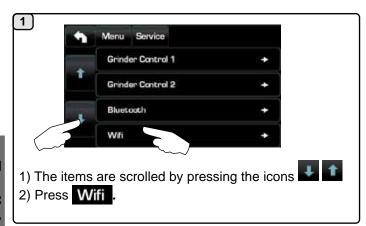Repeat the entire procedure for the second grinder/dispenser if present.
The machine is ready to work with the grinder control on. In the event of problems, dispensing can be performed in the test square with the grinder control in use to see if the symbol * is present beside the flow. Remember that dispensing is deemed valid only if it lasts more than 10 seconds.

Other symbols are used in the test square:

**>** if the flow is too high compared to the reference, above the upper limit

**<** if the flow is too low compared to the reference, below the lower limit

**\*** flow within the acceptable range

**-** dispensing too brief (at least 8 sec but less than 10 sec)
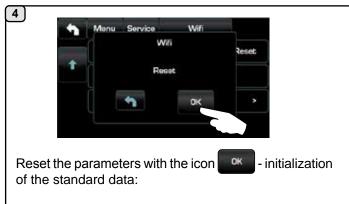(3) number of remaining coffees to be dispensed and deducted from the count

# LA CIMBALI

English

**1**



1) The items are scrolled by pressing the icons ⬇️ ⬆️
2) Press **Wifi**.

**2**



Scroll through the items by pushing the ⬇️ ⬆️ icons.

**3**



Press the WIFI RESET icon:

**4**



Reset the parameters with the icon OK - initialization of the standard data:
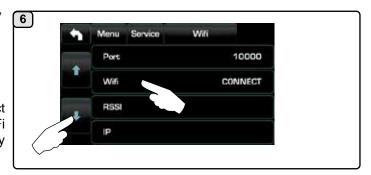
**Wi-Fi Menu** - configure the following Wi-Fi settings as shown below:

*- NETWORK -* enter the name of the access point.
*- SECURITY -* indicate the type of wireless network security:
*- KEY -* enter the password to access a protected Wi-Fi network (WPA or WEP)
*- URL -* enter listener.gruppocimbali.com.
*- Port -* enter 10000.
*- CONNECT -* to connect to the access point selected.
*- RSSI -* signal intensity:
*- IP -* displays the IP address assigned to the machine by the wireless access point.
*- RESET -* To restore the parameters to the standard parameters.
*- MAC -* Represents the Mac address of the machine's Wi-Fi module. This parameter is read-only and cannot be modified.
*- fTX -* reduces data transmission to the remote server:
**>** - transmits all data daily upon machine start-up, and faults/washings when they occur;
**>>** - as per level 1 plus hourly counts;
**>>>** - as per level 2 plus pings every 10 min. (default).

Place the cursor on the item CONNECT to manually connect to the access point selected; if the configuration of the Wi-Fi module is correct, the following icon appears on the display 📶:
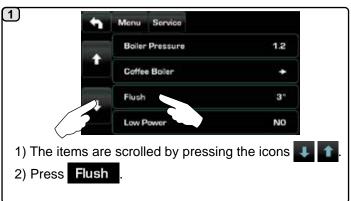
**5**



1) The items are scrolled by pressing the icons ⬇️ ⬆️
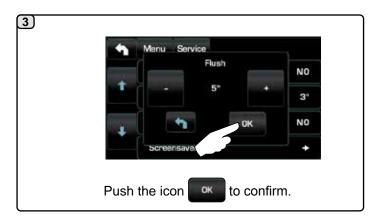2) Press the icons required to configure the parameters.

**6**

By entering the programming menu you can activate the
FLUSH key.



**1**

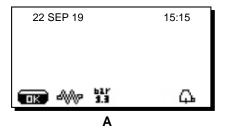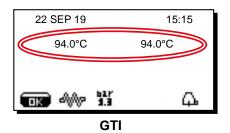| Menu | Service | |
| --- | --- | --- |
| Boiler Pressure | | 1.2 |
| Coffee Boiler | | → |
| Flush | | 3" |
| Low Power | | NO |

1) The items are scrolled by pressing the icons ↓ ↑.

2) Press **Flush**.



**2**

Flush

| - | OFF | + | NO |
| | | | 3" |
| ↰ | OK | | NO |
| Screensaver | | | → |

Press the icon **+** and Set a time from 0 to 5 seconds.



**3**

Flush

| - | 5" | + | NO |
| | | | 3" |
| ↰ | OK | | NO |
| Screensave | | | → |

Push the icon **OK** to confirm.

---

## Machine configuration

### *Automatic push-button strip*

The machine is available in two configurations:

- PROFILE;

- GT.



| 22 SEP 19 | 15:15 |
| --- | --- |
| | |

**A**


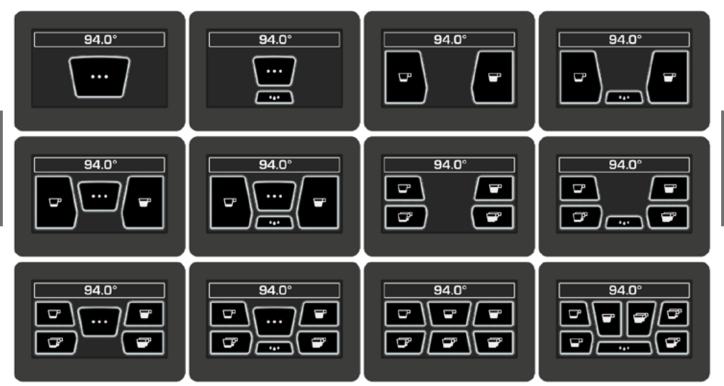
| 22 SEP 19 | 15:15 |
| --- | --- |
| 94.0°C | 94.0°C |

**GTI**

*6 keys*

The machine can be adjusted with various configurations with dispensing and "flush" buttons set-up as desired.

# LA CIMBALI

## Logo

The Cimbali standard logos are shown on all the machine displays after a period of inactivity set in the "Screensaver" menu.



**1** Using any graphics program (e.g. Paint), create a file that meets certain characteristics; the prerequisites for *bitmap* images to be used as a logo are:
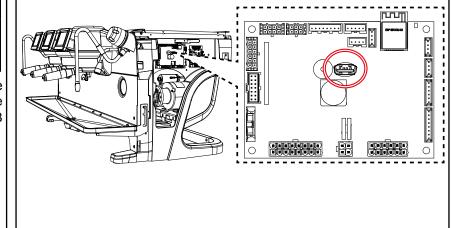
### custlogo.bmp

• width less than or equal to **480 pixels**;
• length less than or equal to **272 pixels**.
• **24-bit bmp** colour.

If the user wants to display a logo for the groups display, copy the "*custlogo.bmp*" files onto a USB pendrive.

**2** After removing the side panel (as indicated in the "DISASSEMBLY" section), insert the USB pen drive into the dedicated port on the machine board:



**3** The  icon will appear on the display:
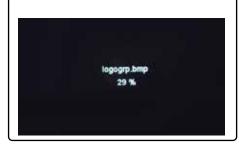


**4** Turn the machine off and back on again; when it comes back on the following will appear on the display:



**5** Press OK and wait for the file to load:



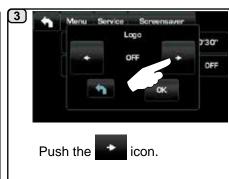**6** Once loading is complete, remove the USB pen drive from the machine.

Note: if the screensaver is activated, the logos can be seen immediately, without waiting for the period of inactivity, every time the user turns off the analogic pressure gauge.
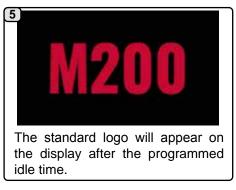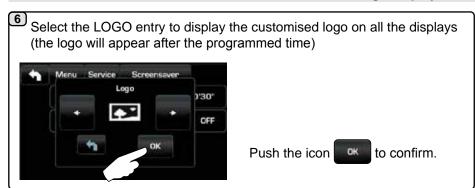
# LACIMBALI

**Standard logo display.**

**1**

Return to the programming menu and press the icon Screensaver.

**2**

Push the Logo icon.

**3**

Push the → icon.

**4**

Push the icon OK to confirm.

**5**

The standard logo will appear on the display after the programmed idle time.

---

**Customised logo display.**

**6**

Select the LOGO entry to display the customised logo on all the displays (the logo will appear after the programmed time)

Push the icon OK to confirm.

**7**

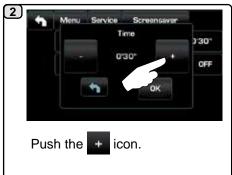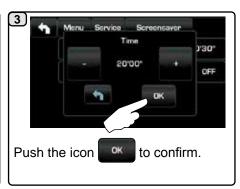The customised logo will appear on the display after the programmed idle time.

Note: only one custom image can be loaded at a time for the Screensaver function. If a new image is loaded, the previous one will be overwritten.

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**Time**

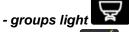Possibility of programming the screensaver display time (from 30" to 20') with steps of 30 seconds.

**1**

Return to the programming menu and press the icon Time.

**2**

Push the + icon.

**3**

Push the icon OK to confirm.

**English**

**1**



Push the 💡 icon.

**2**



This menu allows adjustment of the machine lights. Specifically:

*- rear led bar* 

*- groups light* .

*- side lights* .

Set the desired values with the ➖ ➕ keys:

- lights on at maximum brightness ▯▯▯▯;

- lights off OFF.

For the side lights, the user can choose:

- a preferred colour out of those available with the 🎨 icon;

- a customised colour with the 🌈 icon. In this case, the RGB colour range will appear for customisation



The changes will be applied after the data entered is confirmed with the icon OK.

All machine lights can be adjusted and are activated simultaneously with the start-up of the device.

**NOTE**. Continuous lighting (24 hours a day, 7 days a week) can be activated by pressing the 🔲 icon.

This function is activated when the **24/7** is displayed .

**English**