

## - HOURS

From the “Calendar” menu place the cursor on the inscription “**Hour**” and press the “**OK**” key to gain access.

The display visualises the actual time.

Using the **left/right arrow** keys of the navigation touchpad, select the parameter to modify and press the “**OK**” key to highlight it. Use the **up/down arrow** keys of the navigation touchpad to modify the parameter.

Having modified the parameters, position the cursor on the “**Calendar**” menu using the navigation touchpad and press the “**OK**” key to return to the “**Calendar**” menu or position the cursor on the “**Main menu**” and press the “**OK**” key to return to the main menu.

## - SUMMER TIME

From the “**Calendar**” menu place the cursor on the inscription “**Summer time**” and press the “**OK**” key to gain access.

Using the navigation touchpad, position the cursor on the desired parameter and press the “**OK**” key to select it.

The function is disenabled by default.

When this function is enabled, the internal clock can be adjusted from winter time to summer time and vice versa on the last Sunday of March and the last Sunday of October.

Having carried out the time change, the main display visualises the viewing panel on the rig for one minute.

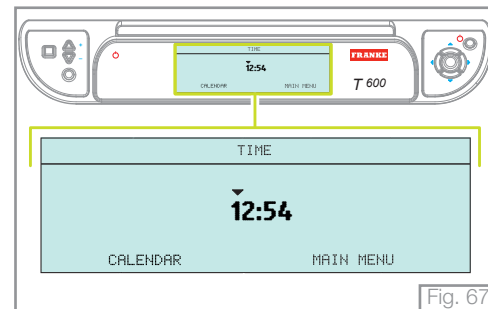


Fig. 67

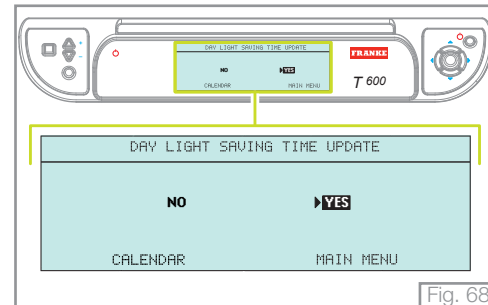


Fig. 68

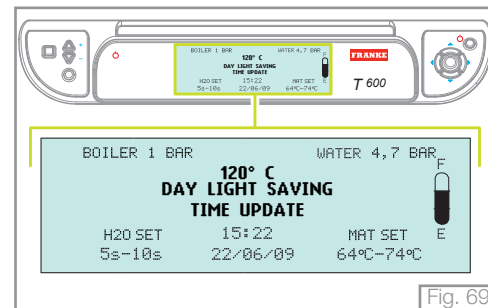
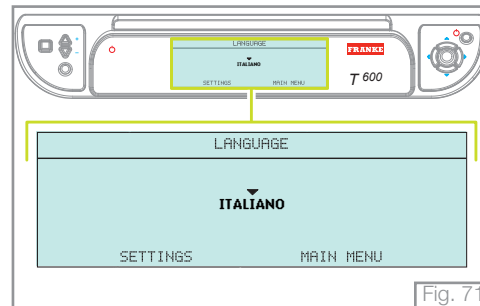
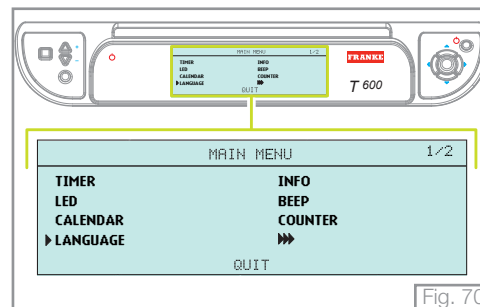


Fig. 69

## 6.4 LANGUAGE

From the “Main Menu” screen, use the navigation touchpad to select the “Language” menu and press “OK” to open it.

Pressing the **right/left arrow** keys of the navigation touchpad select the parameter to modify, press the “OK” key to highlight it and the **up/down arrow** keys of the navigation touchpad to modify the parameter.



## 6.5 INFO

From the “**Main Menu**” screen, use the navigation touchpad to select the “**Info**” menu and press “**OK**” to open it.

The “**Info**” menu contains a viewing panel displaying all the main information of the machine.

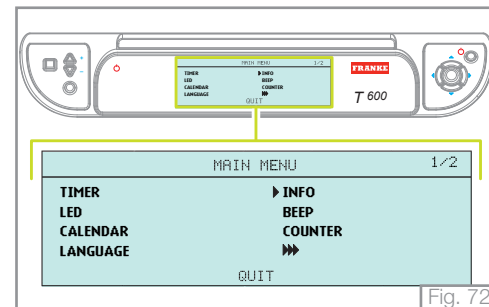


Fig. 72

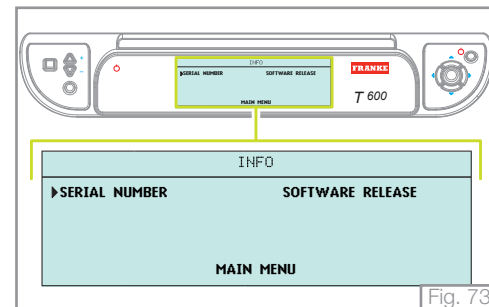
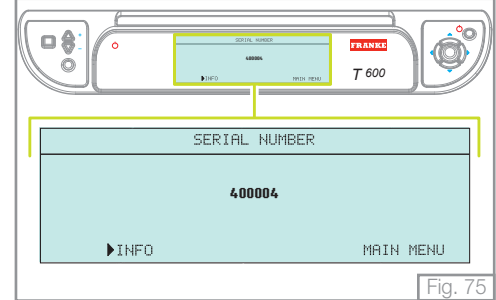
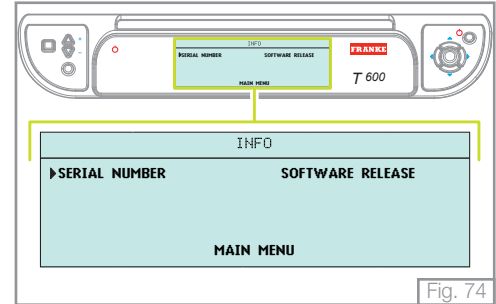


Fig. 73

### 6.5.1 Serial number

Using the navigation touchpad enter the “Info” menu, select the “Serial number” menu and press the “OK” key to gain access.

The main display visualises the machine’s serial number.



## 6.5.2 Software release

Using the navigation touchpad enter the “Info” menu, select the “Software release” menu and press the “OK” key to gain access.

The main display visualises a viewing panel in which all versions of the various firmware in the machine are present.

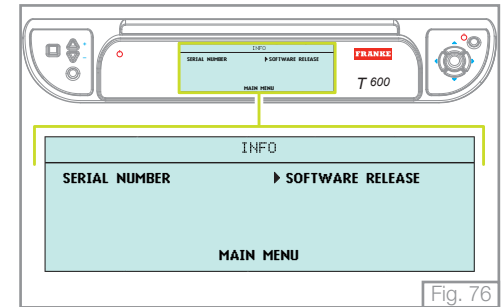


Fig. 76

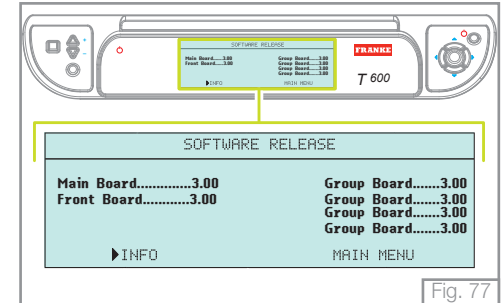


Fig. 77

## 6.6 BEEP

From the “**Main Menu**” screen, use the navigation touchpad to select the “**Beep**” menu and press “**OK**” to open it.

The display visualises the possibility of activating/deactivating the audible warning associated to pressing certain keys and the appearance of alarm messages.

The function is enabled by default.

Using the navigation touchpad, position the cursor on the desired parameter and press the “**OK**” key to select it.

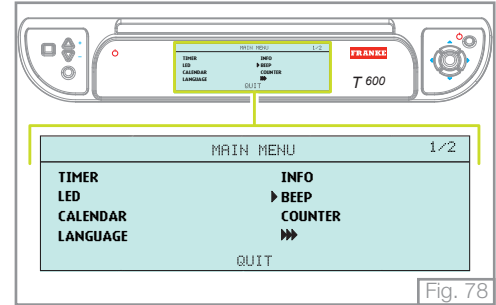


Fig. 78

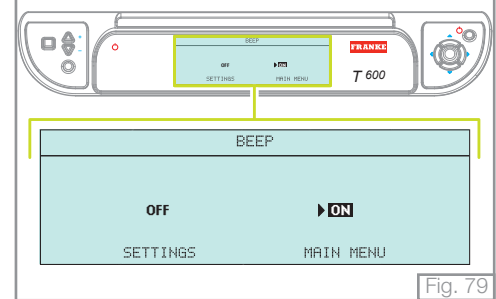


Fig. 79

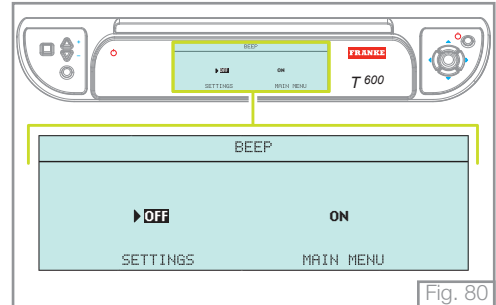


Fig. 80

## 6.7 COUNTER

This function has the purpose of counting the number of deliveries supplied during the life cycle of the machine.

Using the navigation touchpad enter the “**Main menu**”, select the “**Counter**” menu and press the “**OK**” key to gain access.

The menu visualises an initial viewing panel in which the partials and totals of the deliveries of coffee, water for infusions and cappuccini are indicated.

The cursor is already positioned on “**Coffee**”; pressing the “**OK**” key, a viewing panel is visualised in which the total and partial deliveries are indicated and subdivided into the various coffee dispensing groups of the machine.

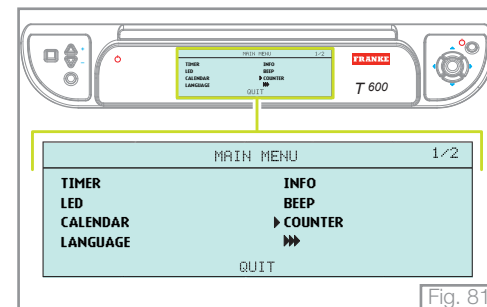


Fig. 81

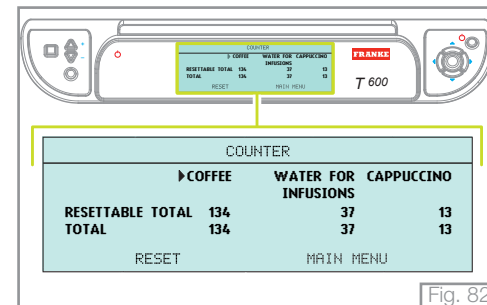


Fig. 82

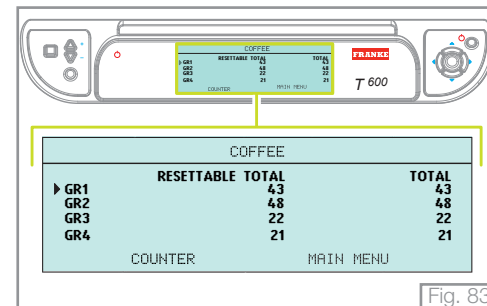
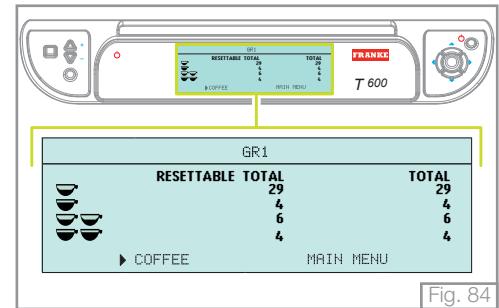


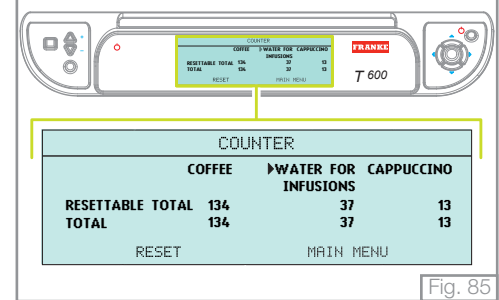
Fig. 83

Position the cursor on a pre-chosen coffee dispensing group. Press the “OK” key and the total and partial deliveries subdivided by doses are visualised.

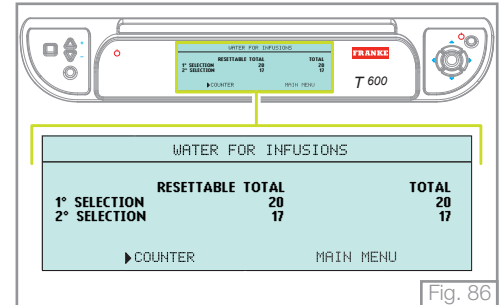


Positioning the cursor on “Coffee” and then on “Counter”, the first viewing panel “Counter” returns.

Positioning the cursor on “Water for infusions” and pressing the “OK” key, the calculation of the deliveries of water for infusions is visualised.



Pressing the “OK” key, the total and partial deliveries of hot water and mixed water are visualised.





Positioning the cursor on “**Counter**” and pressing the “**OK**” key, the first viewing panel “**Counter**” returns.

Positioning the cursor on “**Cappuccino**” and pressing the “**OK**” key, the calculation of the deliveries supplied by the M.A.T. system are visualised.

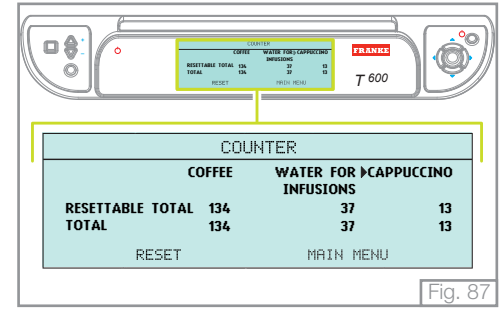


Fig. 87

Pressing the “**OK**” key, the total and partial deliveries of cappuccino relative to the first and second selection are visualised.

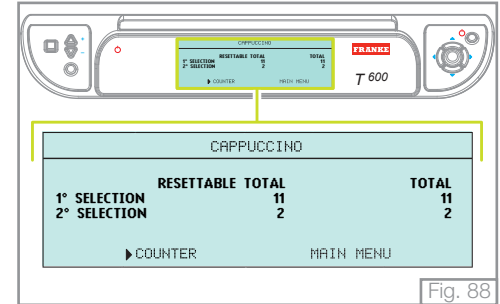


Fig. 88

### 6.7.1 Reset counter

In the main **“Counter”** viewing panel, position the cursor on **“Reset”** and press the **“OK”** key to zero all partial calculations memorised by the machine.

When a request for a confirmation appears, press the **“OK”** key again to proceed.

The machine then proceeds to zero all partial calculations of the deliveries and the display advises that reset is in progress.



#### Take note!

Total calculations cannot be zeroed.

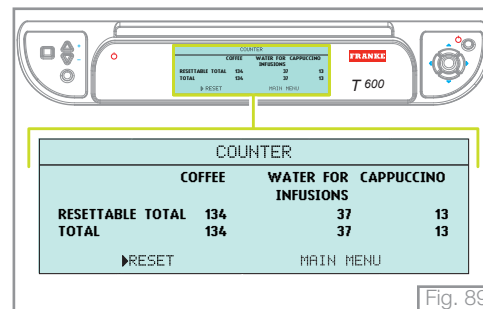


Fig. 89

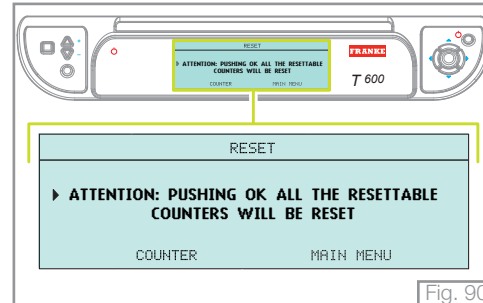


Fig. 90

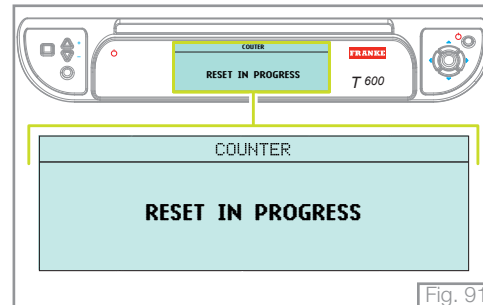


Fig. 91

## 6.8 GRINDING CONTROL

This function advises the operator if extraction times are not correct by referring to the previously memorised data.

From the “Main Menu” screen, use the navigation touchpad to select the “Grinding Control” menu and press “OK” to open it.

The display visualises the possibility of activating/deactivating the control of the amount of coffee grinding.

This function is disenabled by default.

To activate the function, position the cursor on “ON” and press the “OK” key to confirm.

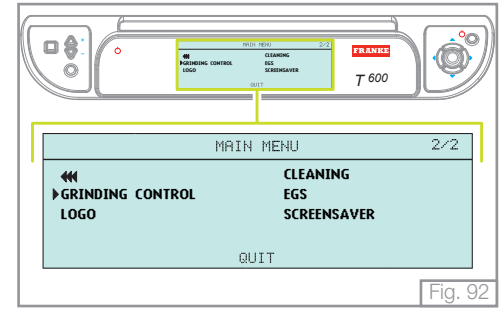


Fig. 92

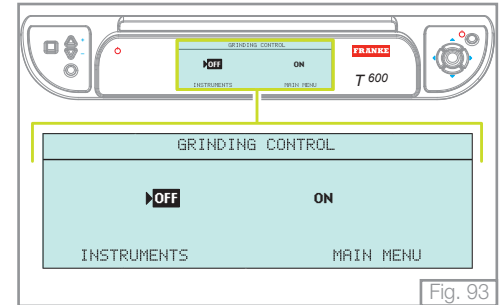


Fig. 93

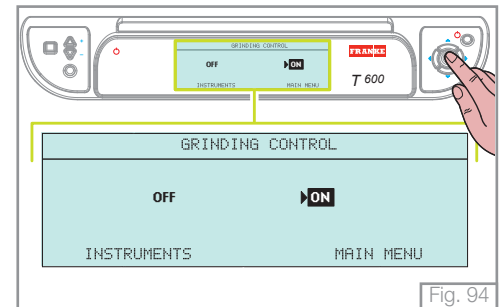
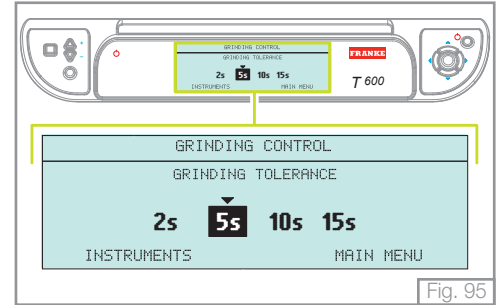


Fig. 94

Once the function is activated, select the tolerance (expressed in seconds) to be considered with regards to previously memorised parameters and press the “OK” key.

- E.g.**
- Memorised extraction time - 25 sec.
  - Selection tolerance - 5 sec.
  - Coarse grinding advice with extractions < 20 sec.
  - Fine grinding advice with extractions > 30 sec.

Any coarse or fine grinding advices are visualised on the coffee dispensing group display when dispensing has terminated.



## 6.9 LOGO

This function is used to switch the logo over the display on or off.

From the **“Main Menu”** screen, use the navigation touchpad to select the **“Logo”** menu and press **“OK”** to open it.

This function is active by default.

To deactivate the function, position the cursor on **“OFF”** and press the **“OK”** key to confirm.

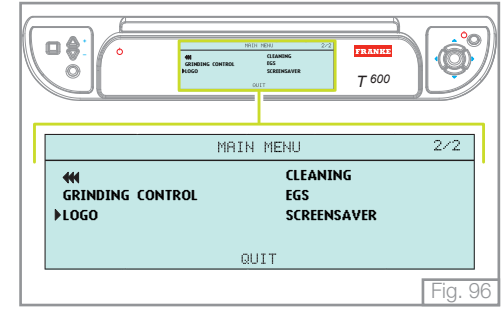


Fig. 96

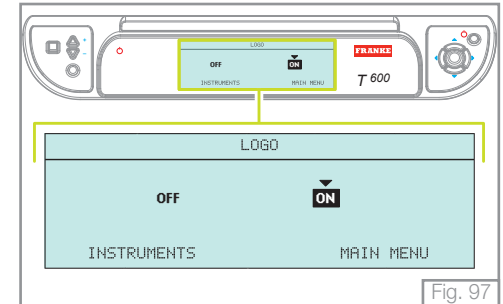


Fig. 97

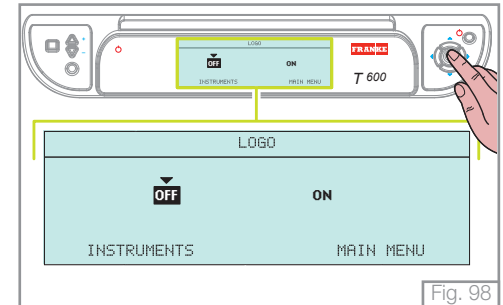


Fig. 98

## 6.10 CLEANING

From the **“Main Menu”** screen, use the navigation touchpad to select the **“Cleaning”** menu and press **“OK”** to open it.

The display visualises the possibility of activating the washing/cleaning of the coffee dispensing groups or the washing of the boiler.

### - WASHING/CLEANING THE COFFEE DISPENSING GROUPS

In the **“Washing”** menu, the cursor is positioned on **“Group washing”**. Press the **“OK”** key to gain access

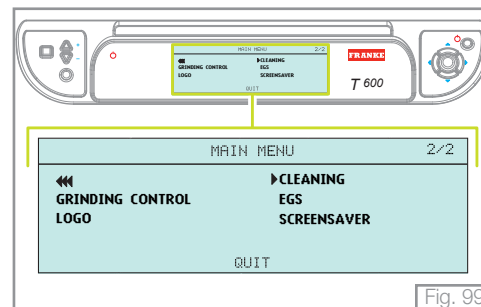


Fig. 99

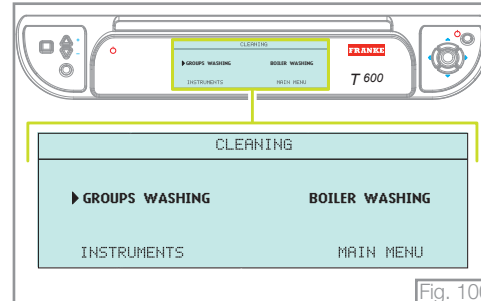


Fig. 100

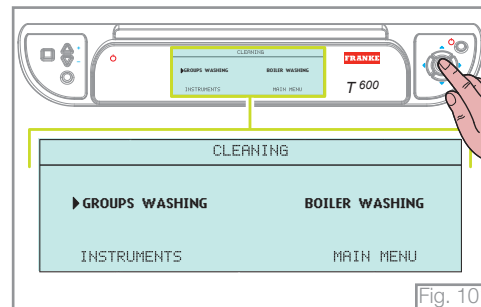


Fig. 101

The main display visualises the viewing panel on the right.

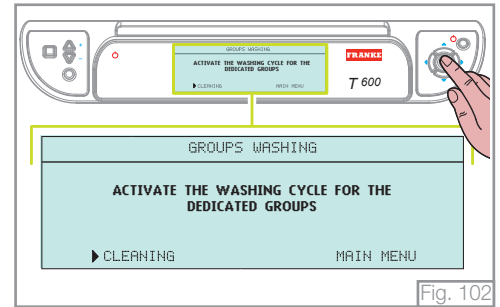


Fig. 102

The displays of the coffee dispensing groups visualise the viewing panel on the right.



Fig. 103

Press the “**Continuous delivery**” key to activate the washing cycle.



Fig. 104

The delivery group cleaning cycle consists of 5 seconds of water delivery from the groups with a 5-second pause, which allows the brush (provided) to be used as well as the blind filter supplied by the Technical Assistance Service.

The displays of the coffee dispensing groups visualise the viewing panel on the right.

Press the **“Continuous delivery”** key to conclude the washing cycle of the coffee dispensing groups.

### **Take note!**

The deliveries made during the washing cycle are not taken into account in the counter menu.

### - WASHING/CLEANING THE BOILER

In the **“Washing”** menu, position the cursor on **“Wash boiler”** and press the **“OK”** key to gain access.



Fig. 105



Fig. 106

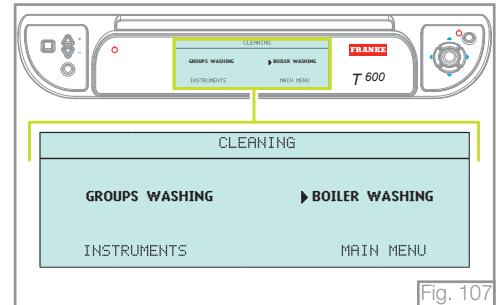
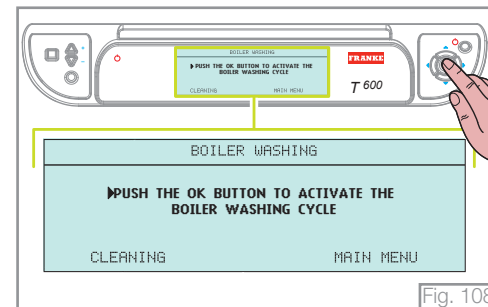


Fig. 107

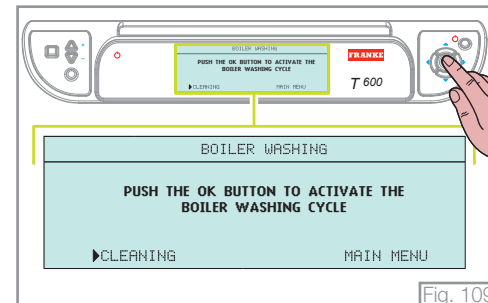


Subsequently, a viewing panel confirming the operation appears. Press the **“OK”** key to activate the boiler washing cycle.



The main display indicates that the washing cycle of the boiler is in progress.

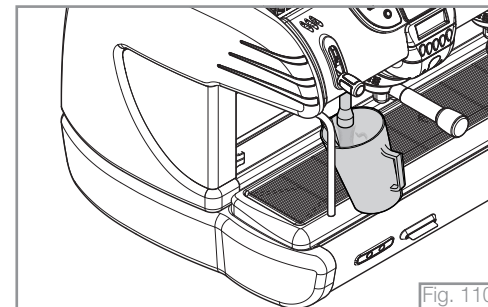
The machine completely empties the boiler and resets it. To stop the washing cycle in advance, press the **“OK”** key again.



**Take note!**  
Place a container underneath the hot water wand and slowly empty it.

**Attention!**  
Wear protective gloves to avoid being burned.

**Take note!**  
It is advisable to carry out the boiler washing cycle each day at the end of the work shift.



## 6.11 EGS

This function maintains the coffee pod moist that is used inside the filter holder in case it is not used for more than 30 minutes.

From the “**Main Menu**” screen, use the navigation touchpad to select the “**Egs**” menu and press “**OK**” to open it.

The display visualises the possibility of activating/deactivating this function.

This function is not active by default.

To activate the function, position the cursor on “**ON**” and press the “**OK**” key to confirm

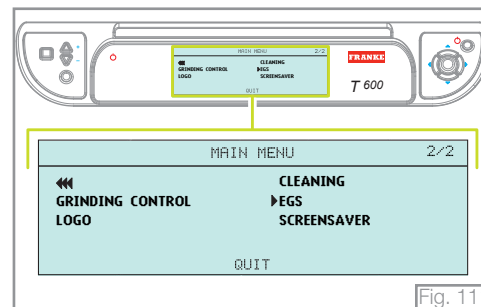


Fig. 111

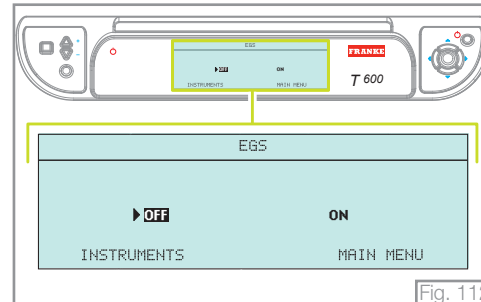


Fig. 112

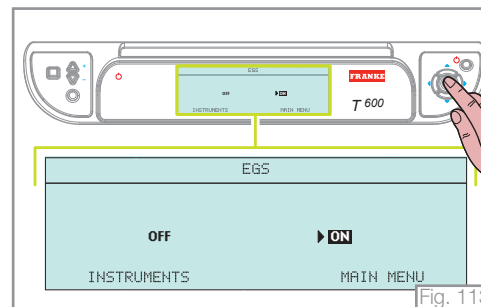


Fig. 113

With the EGS function active, a small quantity of water is poured into the filter holder every thirty minutes of inactivity of the coffee dispensing group so as to avoid excessive drying of the coffee grouts contained in it.

The active function is visualised on the left, upper part of the main display of the machine.

The imminent activation of the cycle is signalled to the operator 30 seconds before by an acoustic signal and 15 seconds before by a further acoustic signal.

### **Attention!**

Whilst the EGS cycle is functioning, do not remove the filter holders to avoid being burned by boiling water.

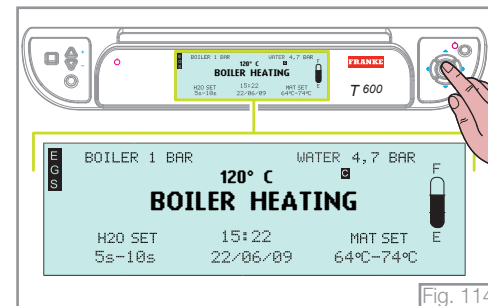


Fig. 114



Fig. 115

## 6.12 SCREENSAVER

This function permits the composition of a message that will be visualised on the main display when the machine remains inactive for more than two minutes.

From the “**Main Menu**” screen, use the navigation touchpad to select the “**Screen-saver**” menu and press “**OK**” to open it.

This function is not active by default.

Position the cursor on “**ON**” and press the “**OK**” key to enable the “**screensaver**” function.

Using the navigation touchpad, choose the letter or number to be composed and press the “**OK**” key.

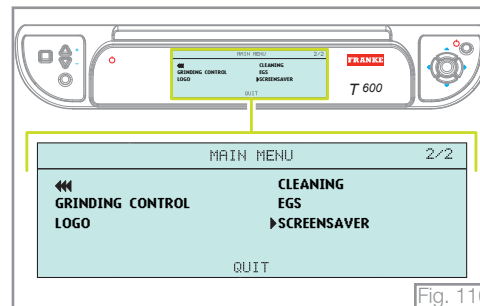


Fig. 116

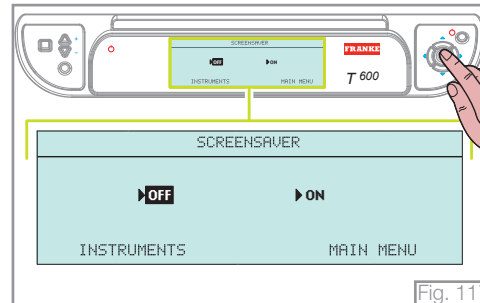


Fig. 117

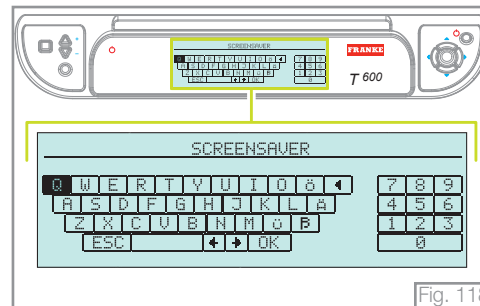


Fig. 118

The characters chosen are visualised in the “**text preview line**”. To cancel the last character, select the ← symbol and press the “**OK**” key.

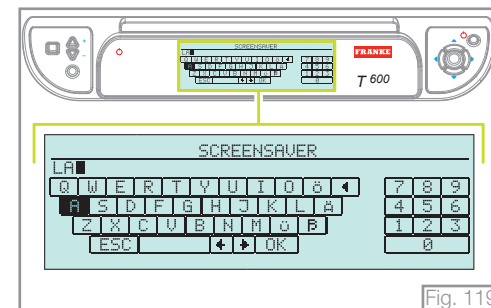


Fig. 119

To modify the text use the navigation touchpad to select the ← → symbols, press the “**OK**” key and the cursor of the “**text preview line**” moves. It is now possible to cancel a character of the text or add another.

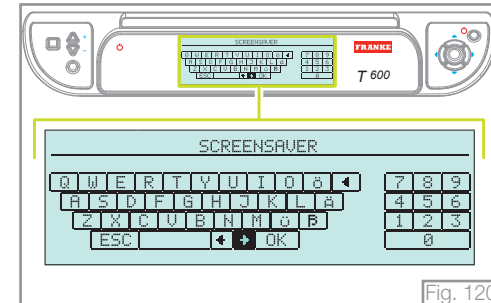


Fig. 120

Selecting the “**ESC**” symbol, the display visualises the previous menu. Selecting the “**OK**” key, the text is visualised on the main display (in a scrolling mode) when the machine remains inactive for more than two minutes.

If no message is composed, the screensaver function remains inactive after pressing the “**OK**” key.

In the case of deliveries, messages or alarms, the visualisation of the text is interrupted.

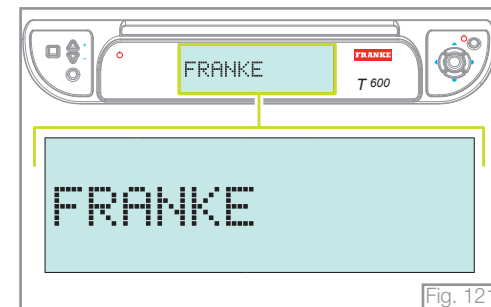


Fig. 121

## 7. SOFTWARE UPDATING

The machine's software can be updated by utilising an SD card (not supplied as standard).

To update the software, copy the file with the “.bin” extension onto a memory card and proceed as described.

### **Attention!**

Do not rename the “.bin” file because it will no longer be recognised by the machine.

With the main switch in the “0” position (machine switched off), insert the SD card with the contacts facing down into the appropriate reader under the machine.

Once the card has been inserted, switch on the machine using the main switch.

### **Warning!**

Do not switch off the machine during all the following operations.

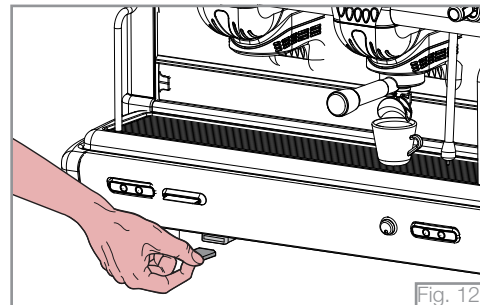


Fig. 122

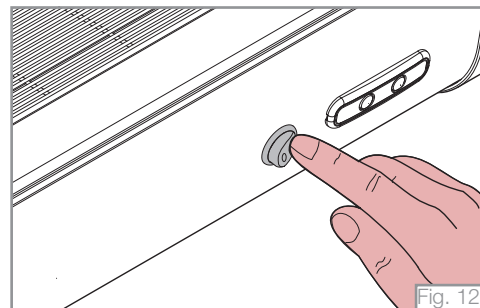


Fig. 123

The main display visualises all files that are present on the SD card that correspond to the file name structure “XXYY.bin”, where XX and YY correspond to the software revision.

Using the navigation touchpad, select the software to update the machine and press the “OK” key to confirm

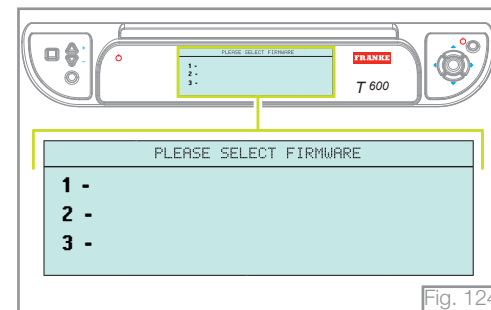


Fig. 124

The software is copied from the SD card to the CPU of the machine

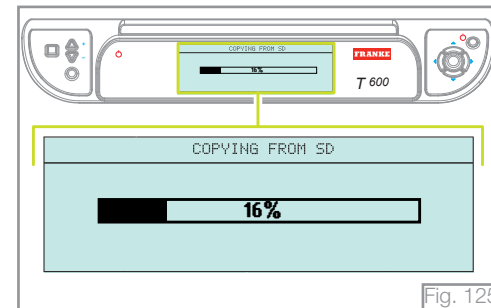


Fig. 125

Subsequently the software is transmitted from the power CPU to all the EEPROMs in the machine.

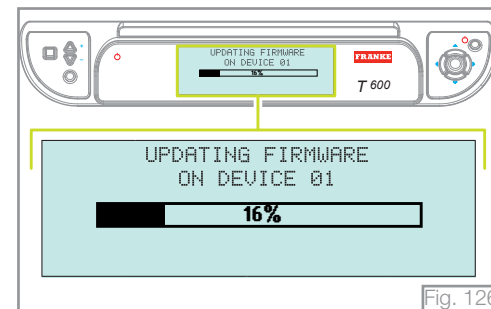
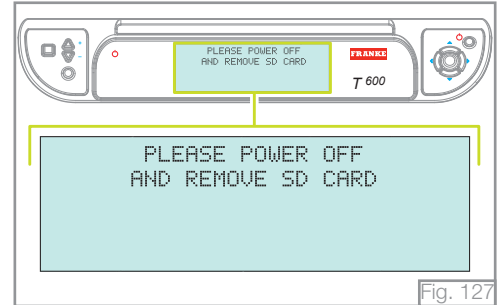
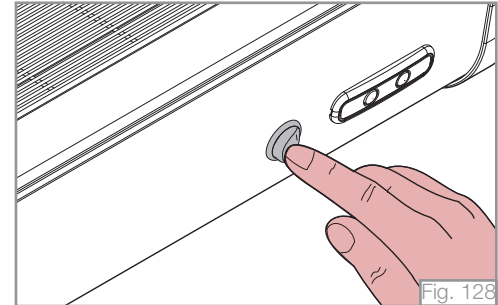


Fig. 126

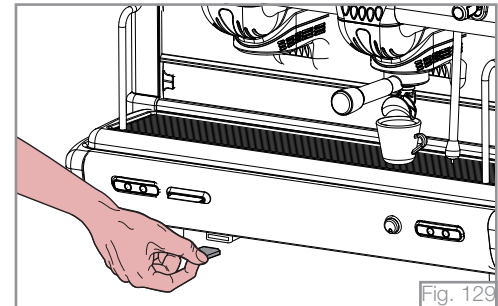
The following viewing panel appears when the copying of the software has finished.



Switch off the machine.



Remove the SD card from the reader





## 8. ROUTINE APPLIANCE MAINTENANCE TO BE PERFORMED BY THE USER

### **Take note!**

To grant the efficiency of the appliance and to maintain correct operation, it is necessary to follow the manufacturer's instructions as to cleaning and regular maintenance.

### **Attention!**

Cleaning and routine maintenance operations must be carried out by the user according to the manufacturer's instructions given here below. Before carrying out any cleaning operations, disconnect the appliance from the mains power. Cleaning and routine maintenance operations must be carried out when the machine is cold and using protective gloves to prevent abrasions.

### 8.1 DAILY AT THE END OF THE JOB

1. Replacing the water in the boiler (**See paragraph 6.10 "CLEANING", page 58**).
2. Then clean the filter holders and the filters with the brush provided, making sure no dirt is left inside the filter holders and that all filter holes are clean.

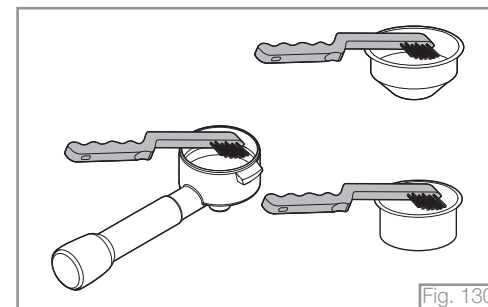
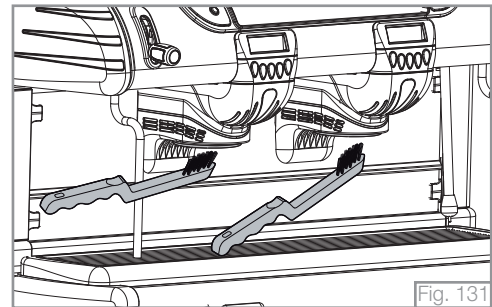
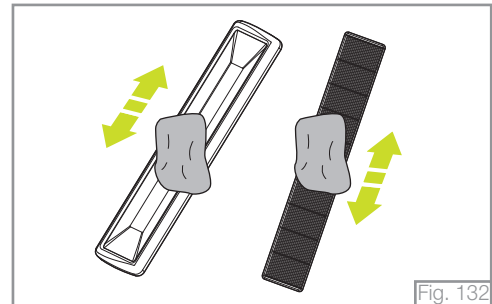


Fig. 130

3. Clean the delivery groups (See paragraph 6.10 “CLEANING” on page 58). Also clean the shower heads under the groups between one delivery and the next using the brush.



4. Clean the basin and the cup grille using standard detergent, if necessary.



## 8.2 EVERY TWO WEEKS

1. After turning off the machine, remove the shower heads using the wrench provided; brush them carefully, making sure that all the holes are clean. Then reassemble the parts following the sequence shown in the figure.
  - a. Fastening screw
  - b. Small shower head
  - c. Large shower head
  - d. Diffuser
  - e. Delivery group

### **Attention!**

Every day, at the end of work and after daily cleaning, turn off the appliance using the electric switch; then close the water supply tap and the gas tap (if fitted).

### **Warning!**

Do not use water jets to clean the machine.

## 3. WATER SOFTENER

If the installation of a water softener has been recommended by the installation engineer because of hard water and problems of scale deposits, it is necessary to follow the instructions of the water softener's manufacturer (periodic regeneration).

## 3. BODYWORK

Clean the bodywork of the appliance using mild detergent to prevent any damage.

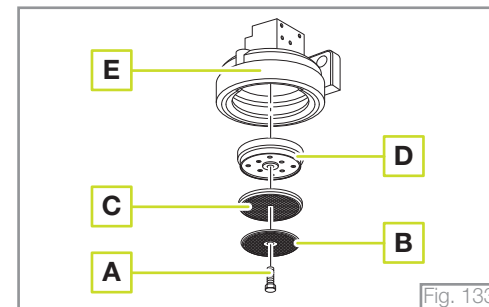


Fig. 133

## 9. LIST OF PROGRAMMABLE FUNCTIONS (TECHNICAL ASSISTANCE SERVICE ONLY)



### *Take note!*

For access and programming procedures for appliance functions, see the Installation Instruction Manual.

### ■ **SETTINGS MENÙ**

The “**Settings**” menu has two screens for the parameters to be programmed.


#### ■ **Water mains menu**

The appliance is equipped with a pressure sensor to check the pressure from the water mains on a constant basis.

#### ■ **Cup warmer set menu**

This function is used to change the reference temperature for the heat settings of the cup rack.

#### ■ **Free flow**

This function is used to disable the continuous delivery  of the coffee delivery groups in order to carry out a correct calculation of the number of coffees delivered.

#### ■ **Pin menu**

This function serves to use a password to access appliance programming stages (Technical Assistance Service).

#### ■ **Motor pump pressure sensor menu**

The appliance is equipped with a pressure sensor that can be used to check the motor pump pressure on a constant basis.

#### ■ **Water level control menu**

This function serves to prepare the appliance to detect water in the boiler by means of a conduction probe or magnetic float.

- **Installation date menu**

It is possible to enter the installation date and to store it to the appliance memory for future reference.

- **Factory settings menu**

The display can be used to restore all of the factory settings for the appliance.

- **PROGRAM MENU**

The “**Program**” menu contains a screen relevant to some appliance parameters that need setting.

- **Boiler temperature**

This function is used to set the working temperature for the boiler.

- **M.A.T. system temperature (optional)**

The appliance can be equipped with a system for automatic milk emulsifying at a controlled, adjustable temperature. The display shows the possibility to set the heating temperature of the milk according to the two available selections.

- **Auto calibration**

This function serves to calibrate the temperature probe of the boiler based on the appliance pressure sensor.



***Take note!***

Only use this function in case of replacing the temperature probe and/or the main CPU.

- **Coffee doses menu**

The display shows the possibility to program the coffee doses for the appliance groups.

- **Hot water doses menu**

The display shows the possibility to program the hot water doses automatically or semi automatically.

Selecting semiautomatic delivery, the relevant button operates semi automatically (ON/OFF) and not timed.

Selecting automatic delivery for hot water doses sets the automatic wand delivery times.

- **Boiler sensor menu**

The display shows the possibility to calibrate the appliance pressure sensor.

- **SERVICE MENU**

The “**Service**” menu contains a screen for the parameters to be set on the appliance.

- **Alarms menu**

This shows the list of alarms that have intervened on the machine, including the date, time and the description of the alarm itself.

- **Tech. service menu**

This shows the list of technical services performed on the machine, including the date and the description of the interventions.

- **Access menu**

This shows the list of ID accesses made using the Service card.

## ■ INSTRUMENTS MENU

The “**Instruments**” menu has two screens for the parameters to be programmed.

### ■ **Compensation menu**

This function is used to automatically compensate the boiler temperature on the appliance based on the variations in the ambient temperature in the area in which it is installed.

### ■ **Boost menu**

The display shows the possibility to enable the “BOOST” function manually or automatically.

### ■ **Itc menu**

This system makes it possible to set a different water temperature for coffee infusion on each delivery group.

The display shows the possibility to enable the system for each group and each selection.

### ■ **Technical assistance menu**

This function makes it possible to program scheduled servicing intervals.

Accessing “Service” accesses the possibility to enter the number of delivery cycles to be made before the service intervention (routine technical servicing).

Accessing “Filter” offers the possibility to monitor the water consumption envisaged before replacing any cartridge filter.

## ■ INFO MENÙ

The “Info” menu contains a screen with all of the main information concerning the appliance.

### ■ Testing date menu

When this menu is opened, the main display shows the date on which the machine was tested.

### ■ Installation date

When this menu is opened, the main display shows the previously stored date on which the machine was installed.

## ■ SOFTWARE UPGRADE

It is possible to upgrade the appliance software using an SD card (not provided).



## 10. MANAGEMENT OF THE ALARMS

### 10.1 ALARM MESSAGES VISUALISED ON THE MAIN DISPLAY

#### ■ EEPROM DEFAULT LOADED ON MAIN BOARD

This message is visualised when the power CPU cannot find the parameters memorised when installing the machine and a backup is not available in the front CPU. In this situation, the default data is reset.

#### ■ DAY LIGHT SAVING TIME UPDATE

This message signals the change from summer time to winter time and vice versa.  
This message automatically resets after 1 minute.

#### ■ BACK UP RESTORE ON FRONT BOARD IN PROGRESS

The power CPU acquires the data memorised in the front CPU.


### 10.2 ALARM MESSAGES VISUALISED ON THE FRONT DISPLAY



The alarm messages visualised on the main display are of two types; blocking and non-blocking.

The blocking messages interrupt the functioning of the machine. To reset the machine, it is necessary to switch the machine off and switch it on again using the stand-by key.

The non-blocking messages do not stop the machine from functioning and they are visualised on the display for 5 minutes.

After, the alarm message is substituted by a flashing  symbol to signal the presence of a malfunction in the machine. Pressing the “OK” key, the display visualises the alarm menu in which all non-blocking alarms of the machine are shown.

To reset the machine, it is necessary to switch the machine off and switch it on again.

All blocking and non-blocking alarms are also signalled by an acoustic beep.

### 10.2.1 Alarms relative to the auto-level system

The FRANKE T 600 has a water refilling system that is managed by three electronic sensors\*:

The minimum level sensor checks the presence of a minimum quantity of water in the boiler that is sufficient to cover the elements of the electrical resistances.

The \* level sensor determines the level of water in the boiler preset by the manufacturer.

The maximum level sensor checks that the level of water in the boiler is not higher than that allowed.

When the water in the boiler does not reach the level of the minimum level sensor, the display visualises:



When the water in the boiler reaches the level of the minimum level sensor, the level indicator visualises:



When the water in the boiler reaches the level preset by the manufacturer, the level indicator visualises:



When the water in the boiler reaches the level of the maximum level sensor, the level indicator visualises:



\* The electronic level sensor can be replaced by a mechanical/electrical float on request.

#### ■ **BOILER REFILL FAILED, PUSH OK alternating with LOW WATER LEVEL IN THE BOILER**

This alarm blocks the machine and can be reset by pressing the “OK” key.

This alarm intervenes when the refilling of the water in the boiler has exceeded the run time of the programmed time-out (6 minutes) and the water in the boiler has not reached the minimum level sensor.

Press the “OK” key to activate a second refilling cycle.

#### ■ **BOILER REFILL FAILED, PUSH OK**

This alarm does not block the machine and can be reset by pressing the “OK” key.


This alarm intervenes when the refilling of the water in the boiler has exceeded the run time of the programmed time-out (6 minutes).

Press the “OK” key to activate a second refilling cycle.

**■ DAMAGED WATER REFILL SYSTEM**

This alarm does not block the machine.

This alarm intervenes after the BOILER REFILL FAILED, PUSH OK alarm intervenes a second refilling cycle is activated and the water in the boiler does not reach the temperature level set by the manufacturer.


The alarm is visualised on the display for 5 minutes and is then substituted by the flashing  symbol that signals the presence of a malfunction in the machine.

In this machine status the hot water dispensing keys are disabled but the machine continues to function until the LOW WATER LEVEL IN THE BOILER alarm intervenes.

**■ FAILED MINIMUM LEVEL SENSOR**

This alarm does not block the machine.

This alarm intervenes when, after a minimum level sensor fault has been detected, the machine detects the correct level of water in the boiler set by the manufacturer but not the presence of the minimum level of water permitted.

The alarm is visualised on the display for 5 minutes and is then substituted by the flashing  symbol that signals the presence of a malfunction in the machine.

**■ DAMAGED WATER REFILL SYSTEM alternating with FAILED MINIMUM LEVEL SENSOR**

This alarm does not block the machine.

This alarm intervenes when the machine is in a FAILED MINIMUM LEVEL SENSOR alarm status and the refilling of the water in the boiler has exceeded the run time of the programmed time-out (6 minutes).

**■ LOW WATER LEVEL IN THE BOILER**

This alarm blocks the machine.

This alarm intervenes when the water in the boiler reaches a level that is too low to continue to operate correctly due to a malfunction of the auto-level system.

**■ HIGH WATER LEVEL IN THE BOILER**

This alarm blocks the machine.


This alarm intervenes when the water in the boiler reaches the maximum sensor level due to a malfunction of the auto-level solenoid valve.

When this alarm intervenes, the machine is disconnected from the mains water system by the closure of a water inlet solenoid valve.

**■ CUT OFF BOILER TEMPERATURE PROBE**

This alarm does not block the machine.

This alarm intervenes when the boiler temperature sensor is interrupted.

The alarm is visualised on the display for 5 minutes and is then substituted by the flashing  symbol that signals the presence of a malfunction in the machine.


When the temperature sensor is faulty, the thermostat regulation of the machine is taken over by the pressure sensor that recovers the pressure value corresponding to the set temperature value previously memorised during the programming phase (or corresponding to the last compensated temperature value) and maintains the temperature constant.

During this phase, the machine continues to function and it is not possible to modify the reference pressure value.

**■ SHORT CIRCUITED BOILER TEMPERATURE PROBE**

This alarm does not block the machine.

This alarm intervenes when the boiler temperature sensor is short-circuiting.

The alarm is visualised on the display for 5 minutes and is then substituted by the flashing  symbol that signals the presence of a malfunction in the machine.

When the temperature sensor is faulty, the thermostat regulation of the machine is taken over by the pressure sensor that recovers the pressure value corresponding to the set temperature value previously memorised during the programming phase (or corresponding to the last compensated temperature value) and maintains the temperature constant.

During this phase, the machine continues to function and it is not possible to modify the reference pressure value.

**■ HIGH BOILER TEMPERATURE**

This alarm intervenes when the boiler temperature sensor detects a temperature greater than 130°C.

When this alarm intervenes, the machine is disconnected from the electrical mains supply by a circuit breaker switch.

The alarm resets when the temperature detected by the sensor re-enters within the normal parameters.

**■ BOILER TEMPERATURE NOT REACHED**


This alarm does block the machine.

This alarm intervenes when the temperature detected by the sensor in the boiler has not yet reached 50°C. 20 minutes after switching on (either in manual mode or in TIMER mode).

#### ■ CUT OFF GROUPS TEMPERATURE PROBE

This alarm does not block the machine.

This alarm intervenes when the coffee dispensing groups' ambient temperature sensor is interrupted.


The alarm is visualised on the display for 5 minutes and is then substituted by the flashing  symbol that signals the presence of a malfunction in the machine.

When this alarm intervenes the COMPENSATION function is disabled (if it is active it becomes disabled) and the GROUPS HIGH TEMPERATURE and the GROUPS VERY HIGH TEMPERATURE alarms are not managed

#### ■ SHORT CIRCUITED GROUPS TEMPERATURE PROBE

This alarm does not block the machine.

This alarm intervenes when the coffee dispensing groups' ambient temperature sensor is short-circuiting.

The alarm is visualised on the display for 5 minutes and is then substituted by the flashing  symbol that signals the presence of a malfunction in the machine.

When this alarm intervenes the COMPENSATION function is disabled (if it is active it becomes disabled) and the GROUPS HIGH TEMPERATURE and the GROUPS VERY HIGH TEMPERATURE alarms are not managed.

#### ■ GROUPS HIGH TEMPERATURE

This alarm intervenes when the temperature detected by the coffee dispensing groups' ambient temperature sensor is greater than the temperature set in the menu.

The alarm resets when the temperature re-enters within normal parameters.

#### ■ GROUPS VERY HIGH TEMPERATURE

This alarm intervenes when the temperature detected by the coffee dispensing groups' ambient temperature sensor is greater than the temperature set in the menu.

The alarm resets when the temperature re-enters within normal parameters

#### ■ TEMPERATURE ALARM NOT CONSISTENT


When the temperature probe inside the boiler finds a temperature equal or higher than 130°C, the alarm set in. In the meantime the pressure in the boiler is lower than 1,4 bar.

When this type of alarm sets in, the thermoregulation of the machine is made out by the pressure sensor that recovers the same pressure value memorized in the machine during the programming (or equal to the last offset temperature value) and keeps it constant. During this phase, the machine is still working, but it is not possible to change the referenced pressure value.

**■ FAILED BOILER PRESSURE SENSOR**

This alarm does not block the machine.

This alarm intervenes if there is a fault in the boiler pressure sensor.

The alarm is visualised on the display for 5 minutes and is then substituted by the flashing  symbol that signals the presence of a malfunction in the machine.

If there is a fault in the boiler pressure sensor the auto-setting functions and the management of the thermostat are not available if there is a fault in the temperature sensor.

Furthermore, the controls managed by the sensor are disabled.

**■ ALARM FOR FAILED THERMO REGULATION**

This alarm blocks the machine.

This alarm intervenes when the boiler temperature sensor and the boiler pressure sensor are simultaneously faulty.

The main display visualises the alternating messages CUT OFF BOILER TEMPERATURE PROBE or SHORT CIRCUITED BOILER TEMPERATURE PROBE and FAILED BOILER PRESSURE SENSOR for 1 minute. The ALARM FOR FAILED THERMO REGULATION message follows.

**■ AIR IN THE BOILER, OPEN THE STEAM WANDS**

This alarm does not block the machine.


This alarm intervenes when the boiler pressure sensor detects a pressure greater or equal to 0.5 bar and the temperature sensor detects a temperature less than 100°C.

The alarm resets when the pressure value re-enters within normal parameters.

**■ FAILED WATER PRESSURE SENSOR**

This alarm does not block the machine.

This alarm intervenes when the water pressure sensor is faulty.


The alarm is visualised on the display for 5 minutes and is then substituted by the flashing  symbol that signals the presence of a malfunction in the machine.

If the water pressure sensor is faulty the controls and alarms associated to it are not available.

**■ HIGH WATER PRESSURE**

This alarm does not block the machine.


This alarm intervenes when the water pressure sensor detects a pressure greater than 6 bar for 3 consecutive seconds.

The alarm is visualised on the display for 5 minutes and is then substituted by the flashing  symbol that signals the presence of a malfunction in the machine.

**■ LOW WATER PRESSURE**

This alarm does not block the machine.

This alarm intervenes when the water pressure sensor detects a pressure less than 1 bar for 3 consecutive seconds.

The alarm is visualised on the display for 5 minutes and is then substituted by the flashing  symbol that signals the presence of a malfunction in the machine.

**■ HIGH PUMP PRESSURE**

This alarm does not block the machine.

This alarm intervenes when the pressure sensor detects a pressure greater than 11 bar after 5 seconds of delivery.

The alarm automatically resets at the end of the delivery

**■ LOW PUMP PRESSURE**

This alarm does not block the machine.

This alarm intervenes when the pressure sensor detects a pressure greater than 6 bar after 5 seconds of delivery.

The alarm automatically resets at the end of the delivery.

**■ NO WATER FEEDING**


This alarm intervenes when the water pressure sensor detects a 0 bar pressure for 3 consecutive seconds.

The alarm resets automatically when the pressure value re-enters within normal parameters.

**■ CUT OFF MAT TEMPERATURE PROBE**

This alarm does not block the machine.

This alarm intervenes when the temperature sensor of the M.A.T. system is interrupted.


The alarm is visualised on the display for 5 minutes and is then substituted by the flashing  symbol that signals the presence of a malfunction in the machine.

If the steam wand temperature sensor is faulty the system continues to function in semi-automatic mode when operating either one of the steam dispensing keys. This means the system functions by pressing one of the steam dispensing keys to activate the delivery of steam and press it again to stop the delivery

#### ■ **SHORT CIRCUITED MAT TEMPERATURE PROBE**

This alarm does not block the machine.

This alarm intervenes when the temperature sensor of the M.A.T. system is short-circuiting.


The alarm is visualised on the display for 5 minutes and is then substituted by the flashing  symbol that signals the presence of a malfunction in the machine.

If the steam wand temperature sensor is faulty the system continues to function in semi-automatic mode when operating either one of the steam dispensing keys. This means the system functions by pressing one of the steam dispensing keys to activate the delivery of steam and press it again to stop the delivery.

#### ■ **CUT OFF CUP WARMER TEMPERATURE PROBE**

This alarm does not block the machine.

This alarm intervenes when the cup warmer temperature sensor is interrupted.

This alarm is visualised on the display for 5 minutes and is then substituted by the flashing  symbol that signals the presence of a malfunction in the machine.


If the cup warmer temperature sensor is faulty the cup warmer resistances function in semi-automatic mode. This means the system functions by pressing one of the cup warmer keys to activate the resistances and press it again to deactivate it.

When the cup warmer resistances are switched on in semi-automatic mode the increase/decrease warning lights flash.

#### ■ **SHORT CIRCUITED CUP WARMER TEMPERATURE PROBE**

This alarm does not block the machine.

This alarm intervenes when the cup warmer temperature sensor is short-circuiting.

The alarm is visualised on the display for 5 minutes and is then substituted by the flashing  symbol that signals the presence of a malfunction in the machine. If the cup warmer temperature sensor is faulty the cup warmer resistances function in semi-automatic mode. This means the system functions by pressing one of the cup warmer keys to activate the resistances and press it again to deactivate it. When the cup warmer resistances are switched on in semi-automatic mode the increase/decrease warning lights flash.



**■ NO RECOGNIZED TAG**

This alarm does not block the machine.

This alarm intervenes when the machine does not recognise the TAG inserted.

The alarm is visualised on the display for 1 minute.

**■ FAILED TAG READER**

AThis alarm does not block the machine.

This alarm intervenes when the TAG reader is faulty.

The alarm is visualised on the display for 5 minutes and is then substituted by the flashing \* symbol that signals the presence of a malfunction in the machine.

If the reader is faulty it is no longer possible to gain access to the programming menus.

**■ FAILED BACK UP**

This alarm does not block the machine.

This alarm intervenes when the parameters memorised in the CPU are not copied into the TAG when making a backup copy using the TAG SERVICE.

**■ FAILED RESTORE**

This alarm does not block the machine.

This alarm intervenes when the parameters memorised in the TAG are not copied to the CPU when effectuating a RESTORE DATA using the TAG SERVICE.

**■ LOW POWER**

This alarm blocks the machine.

This alarm intervenes when the machine detects a voltage of 9 volts or less on the secondary circuit of the transformer.

The alarm resets automatically when the voltage re-enters within normal parameters.

**■ HIGH POWER**

This alarm blocks the machine.

This alarm intervenes when the machine detects a voltage of 14 volts or more on the secondary circuit of the transformer.

The alarm resets automatically when the voltage re-enters within normal parameters.

**■ FAILED CLOCK MODULE**

This alarm does not block the machine.

This alarm intervenes when the clock module is faulty.

**■ NO COMMUNICATION WITH MAIN BOARD**

This alarm blocks the machine.

This alarm intervenes when the front CPU does not communicate with the power CPU.

**■ ERROR COMMUNICATION GROUP 1**

The alarm intervenes when the power CPU cannot detect the presence of the 1st coffee dispensing groups' CPU.

**■ ERROR COMMUNICATION GROUP 2**

The alarm intervenes when the power CPU cannot detect the presence of the 2nd coffee dispensing groups' CPU.

**■ ERROR COMMUNICATION GROUP 3**

The alarm intervenes when the power CPU cannot detect the presence of the 3rd coffee dispensing groups' CPU.

**■ ERROR COMMUNICATION GROUP 4**

The alarm intervenes when the power CPU cannot detect the presence of the 4th coffee dispensing groups' CPU.

**10.3 MESSAGES VISUALISED ON THE COFFEE DISPENSING GROUPS' DISPLAYS*****Take note!***

All messages visualised on the coffee dispensing group displays are accompanied by an acoustic alarm.

**■ VOLUMETRIC DOSING SYSTEM FAULTY**

The alarm intervenes during the phases of dose programming or coffee dispensing by a determine coffee dispensing group when the machine cannot detect the impulses generated by the volumetric counter.

The alarm resets at the end of the delivery.

**■ FINE GRINDING**

The alarm intervenes when the machine detects that the coffee dispensing delivery time is more than the value set in the appropriate menu.

The alarm resets 5 seconds after the delivery has finished.

**■ GROSS GRINDING**

The alarm intervenes when the machine detects that the coffee dispensing delivery time is less than the value set in the appropriate menu. The alarm resets 5 seconds after the delivery has finished.

**■ TOO FINE GRINDING**

This alarm intervenes when the machine detects a number of impulses generated by the volumetric counter that can only be explained by the presence of coffee that has been ground too fine.

**■ ERROR COMMUNICATION FRONT BOARD**

This alarm blocks the machine.

The alarm intervenes when the power CPU cannot detect the front CPU.

All displays visualise this alarm message.

**■ LACK OF COMMUNICATION WITH THE POWER CPU**

The alarm intervenes when the CPU of a determined coffee dispensing group cannot detect the presence of the power CPU.

**■ LACK OF COMMUNICATION WITH THE FRONT CPU**

The alarm intervenes when the CPU of a determined coffee dispensing group cannot detect the presence of the front CPU.

**■ DEFAULT DATA DOWNLOADED**

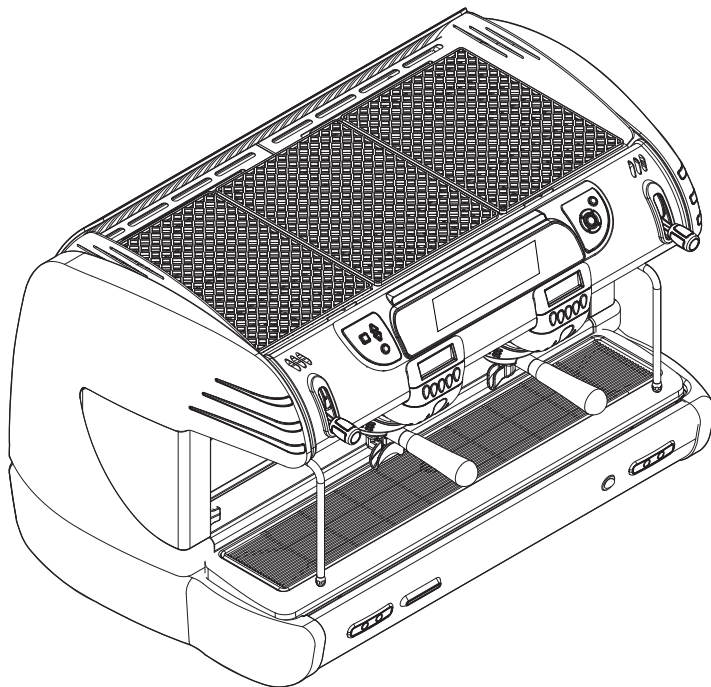
This message is visualised when the CPU of a determined coffee dispensing group cannot find the parameters memorised at the moment of installation. In this case the default data are reset.

**■ MACHINE BLOCKED**

When the machine is blocked all coffee dispensing groups' displays visualise MACHINE BLOCKED.

## 11. TECHNICAL DATA

<b>Dimensions</b> Length x Height x Depth (mm)	845 x 600 x 560 <b>(2 groups)</b>
	845 x 680 x 560 <b>(2 groups take away)</b>
	1078 x 600 x 560 <b>(3 groups)</b>
	1078 x 680 x 560 <b>(3 groups take away)</b>
	1311 x 600 x 560 <b>(4 groups)</b>
	1311 x 680 x 560 <b>(4 groups take away)</b>
<b>Weight (Kgs)</b>	85 <b>(2 groups)</b>
	100 <b>(3 groups)</b>
	115 <b>(4 groups)</b>
<b>Power supply rating and absorption</b> (V - Hz)	220/240/400 - 50/60
	3200 (with Boost function active: 4600) <b>2 groups - 2 groups take away</b>
	4200 (with Boost function active: 6200) <b>3 groups - 3 groups take away</b>
	6200 (with Boost function active: 7200) <b>4 groups - 4 groups take away</b>
<b>Boiler capacity</b> (litres)	10 <b>(2 groups)</b>
	15 <b>(3 groups)</b>
	20 <b>(4 groups)</b>





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