




S11 MINIBRIO

INSTRUCTIONS FOR USE AND MAINTENANCE

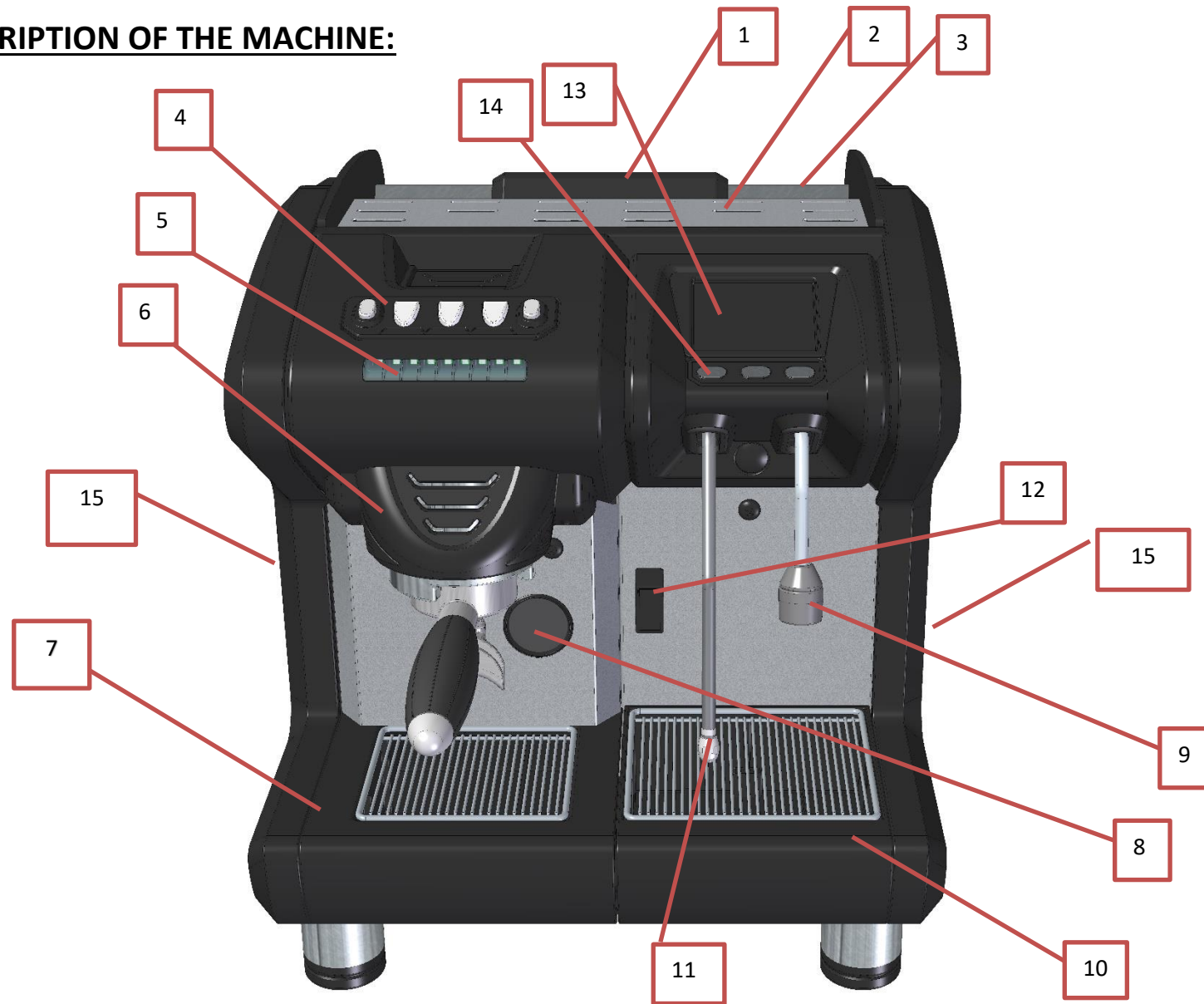
REV 01

La Spaziale SpA Via E. Duse, 8 40033 Casalecchio di Reno Bologna - (Italy) tel. +39 051 611.10.11 fax. +39 051 611.10.40

 info@laspaziale.com

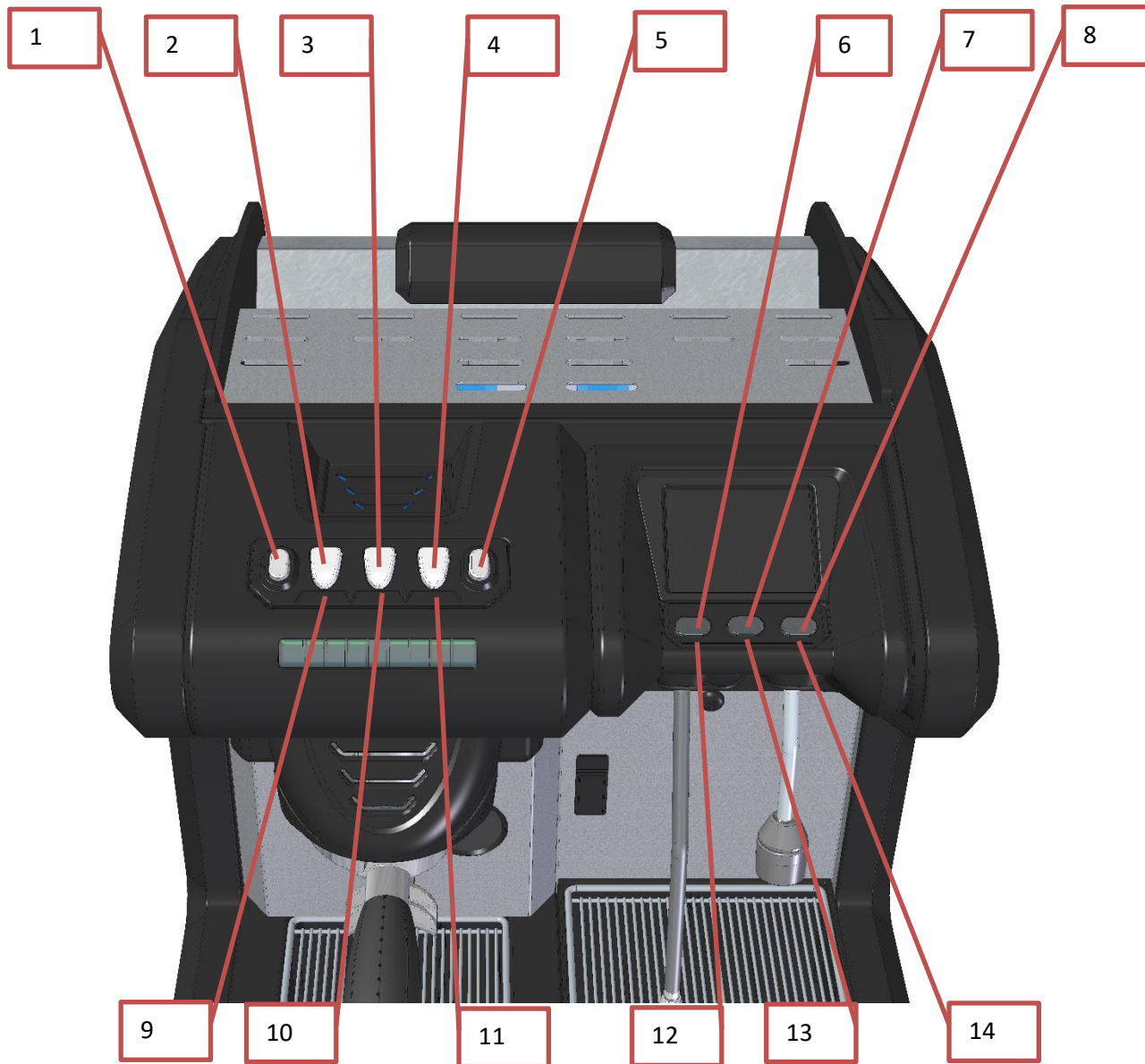
 www.laspaziale.com

GENERAL DESCRIPTION OF THE MACHINE:



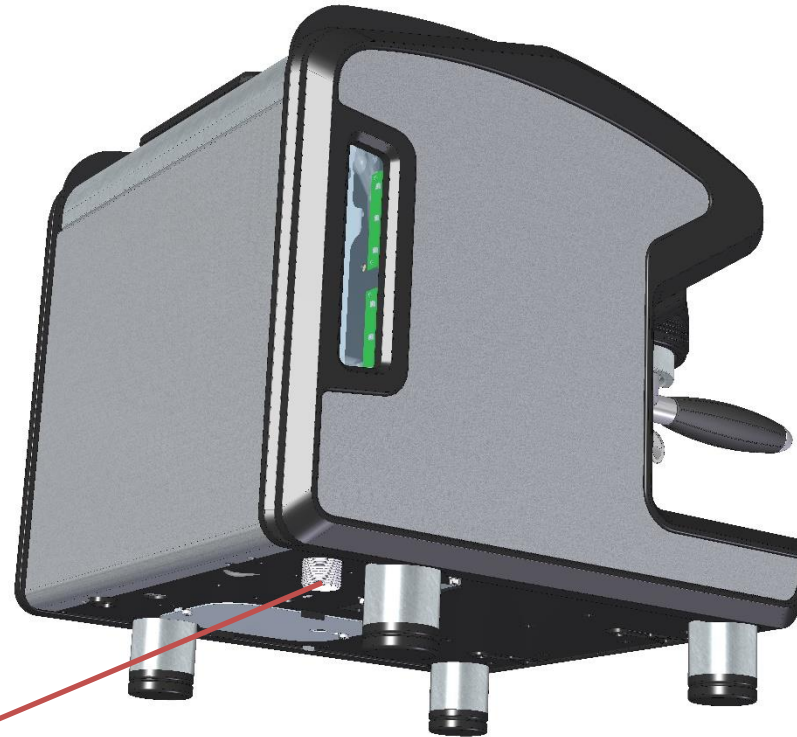
- 1) WATER TANK FILLING LID
- 2) CUP HOLDER TRAY
- 3) WATER TANK ACCESS LID
- 4) DELIVERY GROUP PUSHBUTTON PANEL
- 5) DELIVERY GROUP LED STATUS BAR
- 6) COFFEE DELIVERY GROUP N. 1
- 7) DRIP TRAY COFFEE MODULE
- 8) PRESSURE MANOMETER GROUP 1 PUMP
- 9) HOT WATER SPOUT FOR INFUSIONS
- 10) DRIP TRAY WATER DELIVERIES
- 11) STEAM NOZZLE
- 12) USB CONNECTION
- 13) TFT MAIN DISPLAY TOUCHSCREEN
- 14) MAIN PUSHBUTTON PANEL (ON/ STBY; INFUSED WATER DELIVERIES; STEAM DELIVERIES)
- 15) SIDE LED WATER TANK

GENERAL DESCRIPTION OF THE CONTROL PANEL:



- 1) DELIVERY GROUP PURGE FUNCTION BUTTON
- 2) GROUP 1 SHORT COFFEE DELIVERY BUTTON
- 3) DELIVERY BUTTON 1 LONG COFFEE / 2 COFFEES (according to appliance parameters) DELIVERY GROUP
- 4) GROUP CONTINUOUS DELIVERY BUTTON
- 5) DELIVERY GROUP ON / STBY BUTTON
- 6) STEAM DELIVERY BUTTON (IF STEAM BOILER IS ON)
- 7) APPLIANCE ON/ STBY BUTTON
- 8) INFUSED WATER DELIVERY BUTTON (IF STEAM BOILER IS ON)
- 9) GROUP 1 SHORT COFFEE DELIVERY BUTTON LED
- 10) DELIVERY BUTTON LED 1 LONG COFFEE 2 COFFEES (according to appliance parameters) DELIVERY GROUP
- 11) DELIVERY GROUP CONTINUOUS DELIVERY BUTTON LED
- 12) STEAM DELIVERY BUTTON LED.
- 13) APPLIANCE ON / STANDBY LED
- 14) INFUSED HOT WATER DELIVERY LED

WATER MAINS CONNECTION SETUP (OPTIONAL):

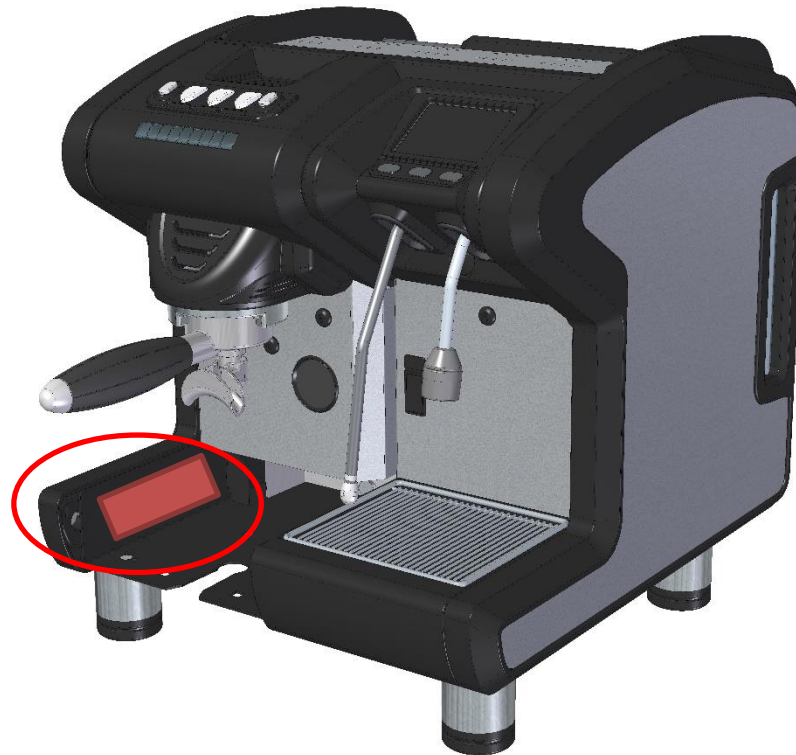


$\frac{3}{4}$ GAS WATER MAINS
CONNECTION

N.B.: Do not apply excessive force when connecting the hose to the fitting.

APPLIANCE DATA PLATE

Remove the delivery group drip tray to view the appliance data plate:



READ THE FOLLOWING WARNINGS CAREFULLY AS THEY PROVIDE IMPORTANT SAFETY INFORMATION ON APPLIANCE USE AND MAINTENANCE

This appliance must be used solely for its intended purpose and installed in a suitable place for such use. Any other use is to be considered improper and therefore hazardous. The manufacturer will not be held responsible for any damage caused due to improper, incorrect or hazardous appliance use.

The appliance must be installed in compliance with current legislation and according to the manufacturer's instructions. Incorrect installation may cause damage to people, animals or property and the manufacturer will not be held liable.

The electrical safety of this appliance is ensured when it is correctly connected to an efficient earthing system, as provided for in legislation in force.

The electrical system to which the appliance is connected (by the client) must be compliant with legislation in force.

This fundamental requirement must be verified by professionally qualified staff.

The manufacturer will not be held responsible for any damage caused due to the absence or inefficiency of a good earthing system, or for its non conformity with legislation in force.

When using any electrical appliance, the following fundamental regulations must also be observed:

- Do not touch the appliance with wet or damp hands or feet.
- Do not use the appliance barefooted.
- Do not pull on the power cord to disconnect the appliance from the mains.
- Do not allow the appliance to be used by children or unauthorised persons.
- Access to the appliance area should be strictly reserved to people familiar with and who have practical experience of operating the appliance, especially in regards to hygiene and safety.
- Before carrying out any scheduled cleaning or maintenance work, disconnect the appliance from the electrical mains.
- If the appliance becomes faulty and/or malfunctions, or if the power cord becomes damaged, fully switch off the appliance and do not attempt any direct repairs. Contact the manufacturer-authorized Help Centre only.
- To ensure efficient and correct appliance operation, follow the manufacturer's instructions when carrying out any scheduled maintenance.
- The appliance's protection against electrocution gives it a class I protection rating.
- The appliance must operate in an environment where the temperature is between **+5°C** and **40°C**.
- The appliance is not intended for use in an outdoor environment where it is directly subject to atmospheric agents.
- When operating normally, the acoustic noise emitted by the appliance is less than **70 dB**.

The appliance is supplied without water in the boiler, to avoid damage from exposure to low temperatures; for this very reason, if the appliance is unused for a long time, water should be removed from the boiler before disconnecting it.

Failure to comply with the above may impair the safety of the appliance and its service life.

If the appliance remains unused for a long period of time in a place where the temperature is below 0°C, before starting it up, call the Authorised Help Centre to verify appliance condition.

INSTALLATION

- The appliance is not designed to be built-in.
- After removing the packaging, check the condition of the appliance. If any doubts arise, do not use it and contact the manufacturer directly. Packaging materials must not be left in the reach of children as they are a potential hazard. Lift the appliance up by its sides and set it down on a secure support surface.
- The appliance must be installed so that the plug which disconnects the appliance from the electrical mains is still accessible.
- Installation must be carried out in areas where use and maintenance is restricted to trained staff only.

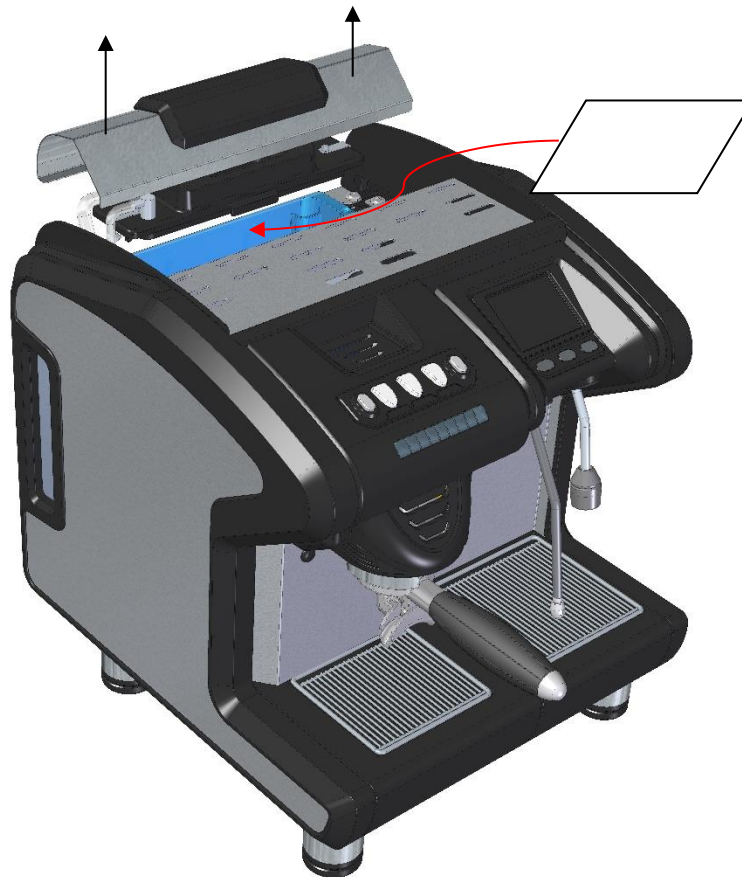
Before plugging the appliance into the mains socket, check that data plate details are the same as those for the installation site.

INSERTING RESIN BAG TO SOFTEN WATER

A resin bag is supplied with the appliance, which is necessary for softening water before use (removal of limescale).

Remove the resin bag from its packaging and thoroughly rinse under running water for around 1 minute.

Remove the water tank cover 1 (PAGE2), lift the cover below and place the bag in the tank:

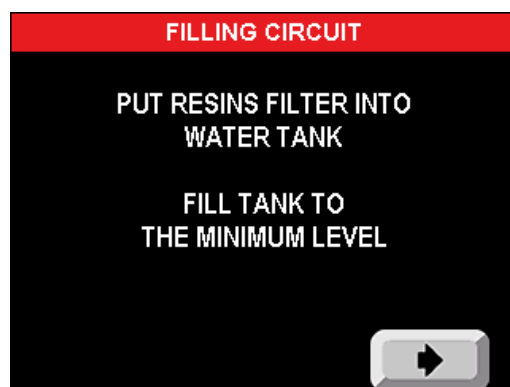


Correctly reposition the items to close the tank compartment.

AUTOMATIC CYCLE FOR THE FILLING OF THE GROUP DELIVERY WATER CIRCUIT UPON INITIAL START-UP

REFER TO THE COMPONENTS KEY ON PAGES 2-4 WHEN FOLLOWING THE INSTRUCTIONS BELOW

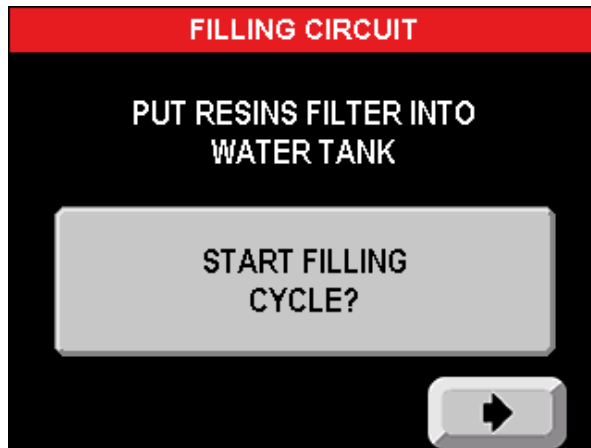
- 1) Insert the plug into the power socket. The LED 13 (PAGE4) will flash to indicate that the appliance is connected to the electrical mains (STANDBY).
- 2) Hold down the button 7 (PAGE4) for more than 3 seconds: the LED 13 (PAGE4) will stop flashing and remain on, meaning that the appliance has been successfully switched on.
- 3) The following will be displayed on the main display 13 (PAGE2):



If you have not already done so in the previous step, add the resin bag that comes supplied with the appliance, as described on PAGE10, manually add around 1 litre of cold water, after lifting tank cover 1 (PAGE2), up to the minimum level marked on the tank.

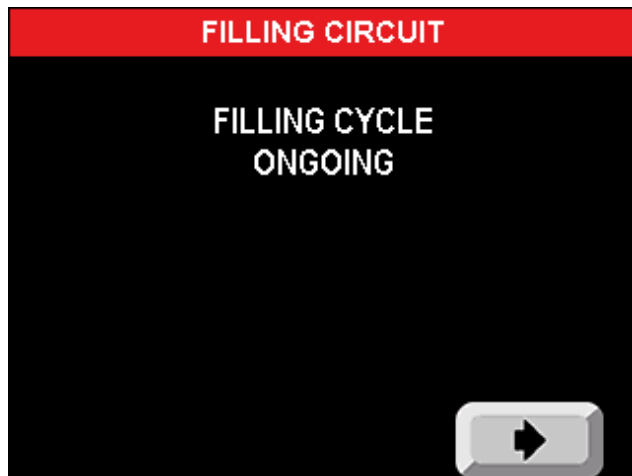
PLEASE NOTE: When filling the tank, avoid spilling water out of the filling hole!

Upon reaching the minimum level, the Display will read:

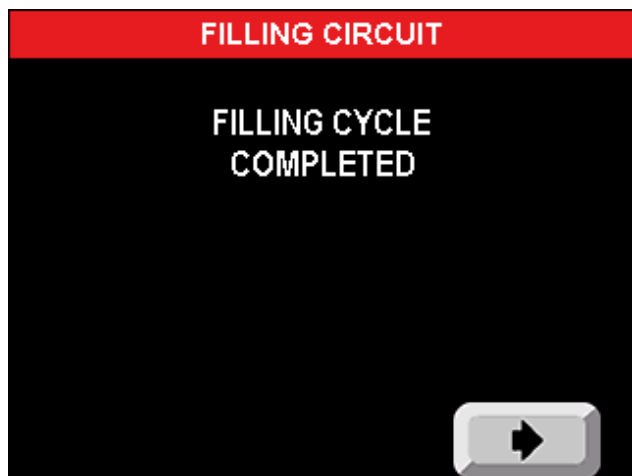



Press on the "START FILLING CYCLE", ensure the Coffee tray 7 (PAGE2) of Delivery Group 6 (PAGE2) are in position.

The appliance will now start an automatic filling cycle of the delivery group, which will last 30 seconds; during this time, water will start coming out of delivery group 6 (PAGE2).



Once the filling cycle finishes, the Display will read:



Press the  button to end the water cycle filling procedure, only required when commissioning the appliance.

The Display will return to STBY, with LED 13 (PAGE4) flashing only.

SUPPLYING THE APPLIANCE WITH WATER:

The appliance can be supplied with water (filling the water tank) in two ways, according to settings integrated in management firmware:

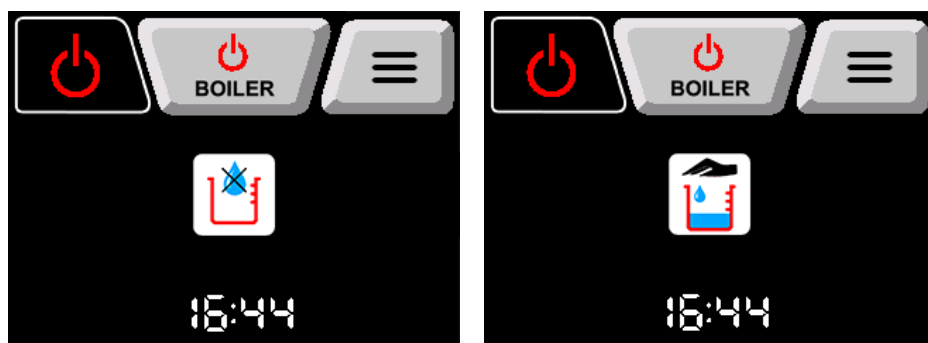
- **MANUAL SUPPLY:** The rear water tank (2.8 Lt capacity approximately) must be manually filled: lift the cover 1 (PAGE2) and add water.
- **DIRECT SUPPLY FROM WATER MAINS (OPTIONAL):** The rear tank is automatically filled by means of the hose supplied and connected to the lower appliance fitting as illustrated on PAGE 6

REFER TO THE FILLING METHOD PRE-INSTALLED ON THE APPLIANCE, OR SET DURING INSTALLATION BY AN AUTHORISED TECHNICIAN.

SWITCHING THE APPLIANCE ON:

With appliance connected to electrical mains and in STBY mode (only LED 13 PAG2 flashing), press and hold down the button 7 for 3 seconds (PAGE4):


The following will appear on the display, according to tank water level:



In this case, the Display will indicate that the water level in the rear tank is insufficient.

Consequently, manual filling is required: proceed as described here below:

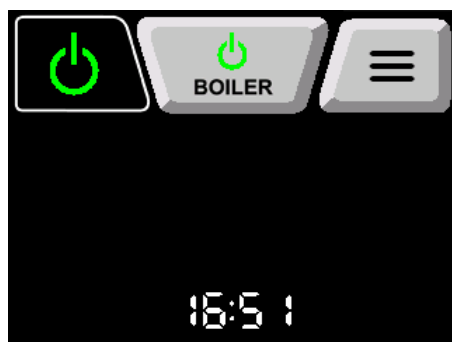
FILLING THE WATER TANK (MANUAL WATER TANK FILLING):

Lift the cover 1 (PAGE2) and fill the tank with cold drinking water until the no water  warning message is no longer displayed and the side panel LEDS 15 (PAGE2) are no longer flashing. Fill with more water, checking the water level from the side inspection windows all the while.

N.B.: Do not fill the tank with too much water **and in any case, stop filling with water when the**  **icon appears in the main display, in order to prevent any water from overflowing.**

N.B.: IF THE APPLIANCE IS CONNECTED TO THE WATER MAINS (OPTIONAL), THE TANK FILLING CYCLE WILL AUTOMATICALLY START WHEN THE APPLIANCE IS SWITCHED ON. THE CYCLE WILL END ONCE FILLED TO THE MAXIMUM LEVEL.

When the tank has been filled with water, the following will be displayed on the main display:

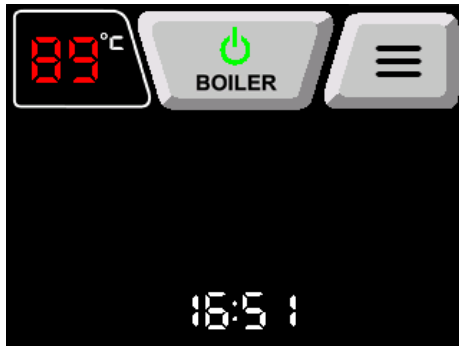


The delivery group and/or steam Boiler can now be switched on.

SWITCHING ON THE COFFEE DELIVERY GROUP:

Press button 5 (PAGE4) to switch on the coffee delivery group.

The following will be displayed on the main display:



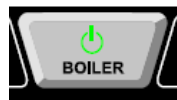
The front LED bar 5 (PAGE2) and leds of delivery pushbutton panel selections 4 (PAGE2) will light up.

As the delivery group heats up, the temperature value (expressed in °C) is displayed in red. It will turn green when set temperature is reached (this can be changed in the specific menu, see the section here below). Whenever the temperature drops below the set temperature, the number turns red (heating-up phase) until the set temperature is reached again (green).

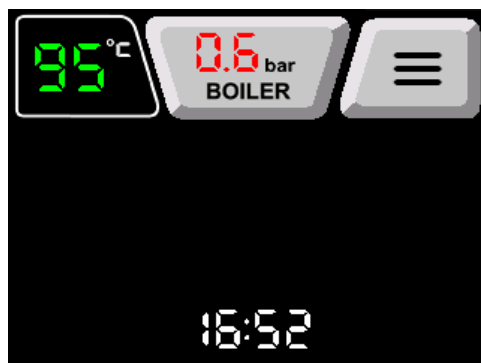


To disable the delivery groups, press the relative button 5 (PAGE4) for longer than half a second. The front LED bar 5 (PAGE2) will switch off.

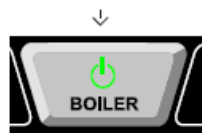
TURNING ON THE STEAM BOILER:



With the appliance switched on, press the button on the Touchscreen display to enable steam boiler heating (hot water for infusions/steam). The LEDs 12 and 14 (PAGE4) will light up and steam boiler pressure (expressed in Bars) will be displayed:



The steam boiler automatic water filling cycle will start and when it ends, the heating phase will begin.



To turn off the steam boiler, hold down the button for longer than half a second.

PREPARING COFFEE:

When the correct operating temperature of the delivery group is reached (value in °C in green), proceed as follows:

1. Unhook the filter holder of the display group (6) PAGE2.
2. Load ground coffee (use coffee doser supplied), take care not to leave any coffee powder on the upper edge of the filter holder, and press using the coffee press supplied.
3. Hook the filter holder back onto the delivery group (6) PAGE2, firmly but not too tightly.
4. Place one or two coffee cups under the filter holder.

Select the 1 short coffee button (2 PAGE4), 1 long coffee button (3 PAGE4) or continuous delivery button (4 PAGE4) to start delivery. If using selections with automatic doses, the appliance will stop delivery when the set amount has been delivered, based on programmed product values entered upon installation. If continuous delivery is selected, when the desired amount of coffee is delivered into the cup, press the button once more to stop delivery.

The amount of coffee delivered can be modified through programmable selections: please refer to the relevant chapter here below.

PLEASE NOTE: When using the appliance, frequently check tray 7 levels (PAGE2) and if necessary, empty it.

STEAM DELIVERY:

With the steam boiler ON and pressurised (approximately 1 - 1.2 bar as shown on the main Display), insert the steam wand 11 (PAGE2) into a frothing jug with the beverage that requires heating and press the button 6 (PAGE4).

Once the beverage has been heated up, press button 6 (PAGE4) again to stop steam delivery.

PLEASE NOTE: Do not press button 6 (PAGE4) before inserting the steam wand 11 (PAGE2) into the frothing jug, to avoid the risk of burning yourself.

HOT WATER DELIVERY FOR INFUSIONS:

With the steam boiler ON and pressurised (approximately 1 - 1.2 bars, as shown on the main Display), position a frothing jug underneath the hot water delivery spout 9 (PAGE2).

Press the hot water delivery button 8 (PAGE4). Hot water delivery will begin.

When the desired amount has been delivered, press again the button 8 (PAGE4) to stop delivery.

PLEASE NOTE: Do not press button 8 (PAGE4) before placing a frothing jug below the hot water delivery spout 9 (PAGE2), to avoid being burnt.

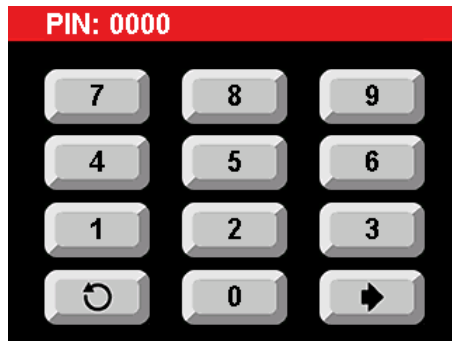
ACCESSING THE APPLIANCE PROGRAMMING/ SETTINGS MENUS:

To access the appliance settings/ parameters menu, proceed as follows:

With the appliance ON, press the  button on the Touch Display for more than a second and the following will appear on the Display:



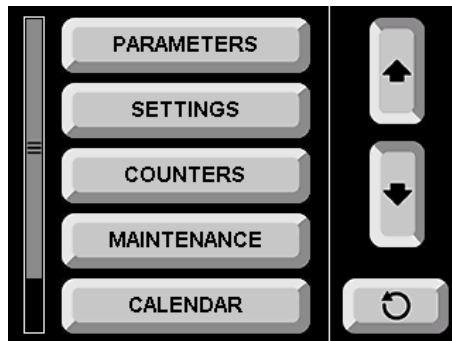
Enter the 4-digit PIN to access the menus (DEFAULT PIN: 0000) and confirm by pressing the  button.






N.B.: If no PIN is entered after 5 seconds, the display will return to the main screen.

The default PIN can be changed in the specific menu by following the procedure described in the relevant chapter.

When the correct PIN is confirmed, the following will appear on the Display:

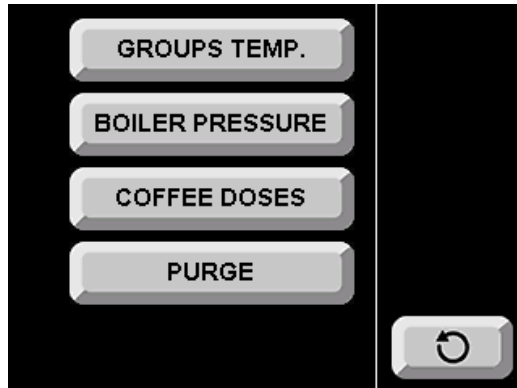


Use the  and  buttons to scroll through the menus, and select the desired Area to access them.


Press the  button to exit the settings Menu.

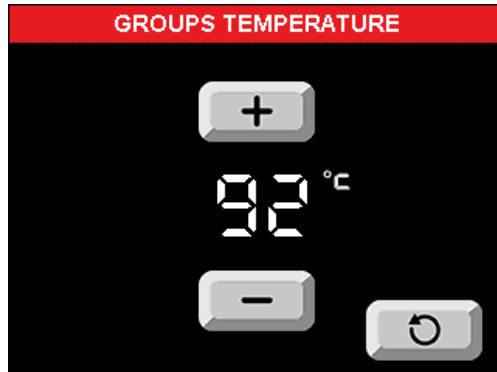
PARAMETERS MENU:



By selecting the  button, the following will be displayed:




DELIVERY GROUP TEMPERATURE MENU:

Select the  Menu to access the Menu for adjusting Coffee Delivery Temperature. The following will appear on the Display:



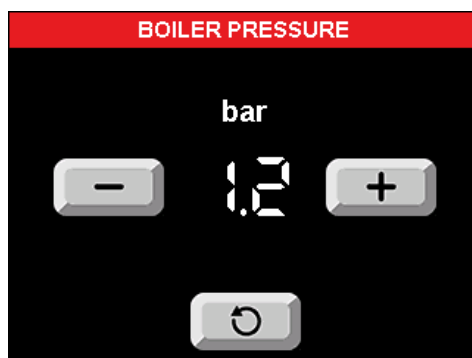
Use the  and  buttons to modify coffee delivery temperature relative to the Coffee Delivery Group.



Press  to confirm the set value and return to the Parameters Menu.


The operating temperature of the delivery group is modified solely for the purpose of improving the in-cup result, depending on the coffee blend used.

BOILER PRESSURE MENU:

Select the Menu to access the menu where Steam Boiler pressure can be adjusted. The following will appear on the Display:




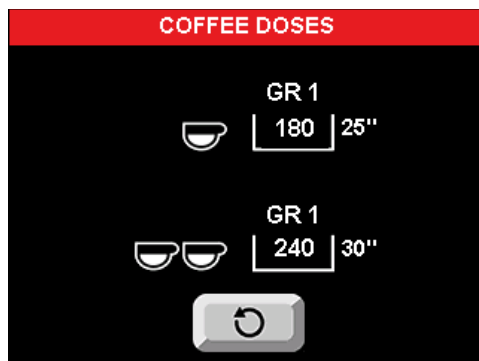
Use the  and  buttons to change (SET) steam boiler operating pressure.

Press  to confirm the set value and return to the Parameters Menu.

Steam boiler operating pressure is solely modified to change steam delivery power, so that the milk emulsion is optimised.

COFFEE DOSES MENU:


Select the  Menu to enter the menu for adjusting and saving delivered coffee amounts relative to buttons 2-3 (PAGE4) of the Delivery Group. The following will appear on the Display:



Proceed to prepare 1 coffee / 2 coffees, as described in the chapter on Page 18:

During delivery, once the desired volume of coffee is reached, stop delivery by pressing the delivery button once more (PAGE4). The amount of delivered coffee will be saved.


Repeat the operation for remaining selections.

When finished, press  to confirm set data and return to the Parameters Menu.



N.B.: When programming product volumes for each button, corresponding extraction time is automatically memorised (E.g.: 25"). Said time will become the "correct delivery time" if the "COFFEE EXTRACTION TIMES CONTROL" function is enabled, described in the specific chapter of this manual.


Set coffee volumes for each selection; ensure "granulometry" and "weight" parameters are correct, based on the type of beverage you wish to serve (E.g. Espresso 1 cup= 25 +/- 5 ml of product in cup extracted in 25+/-5 seconds)

PURGE MENU:


Select the  Menu to access the Parameters Menu for setting the "PURGE" (washing) duration of the delivery group, enabled by pressing button 1 (PAGE4), without the filter holder hooked on. The following will appear on the Display:

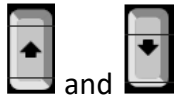
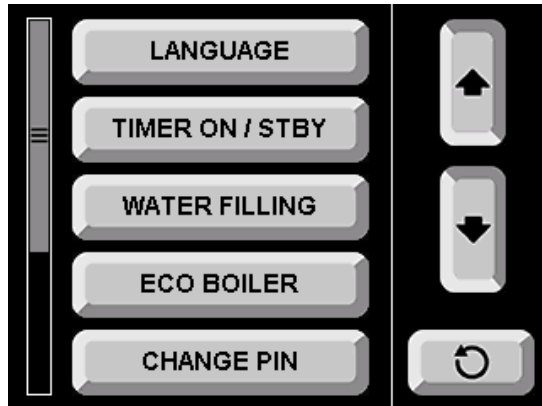




With the buttons  and  "PURGE" duration can be varied, according to requirements.

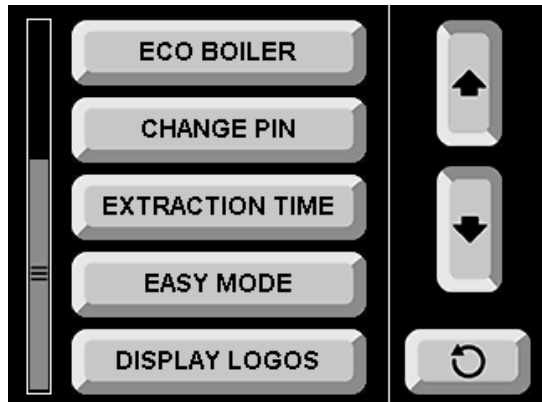
Press  to confirm set data and return to the Parameters Menu.

SETTINGS MENU


Select the  Menu and the following will appear on the Display:




Use the  and  buttons to scroll down the Menus:



Select the relative Area to access it.


Press the  button to exit the settings Menu.

LANGUAGE MENU:


Select the  Menu to access the displayed language settings Menu. The following will appear on the Display:



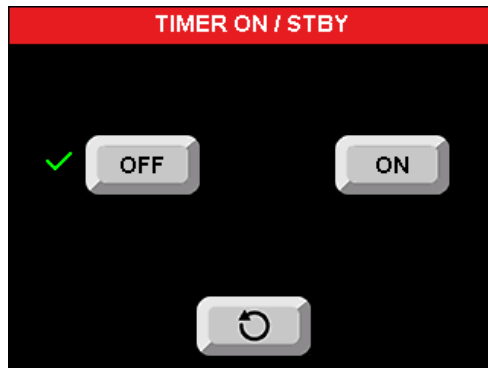
Select the Country to select the relative language.

Press the  button to exit the settings Menu.

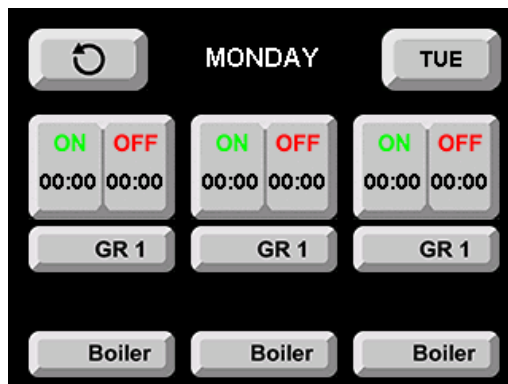
TIMER ON / STBY MENU:



Select the  Menu to access the ON and OFF Time Programming Menu of the appliance. It is also possible to select a function (DELIVERY GROUP, STEAM BOILER) for each daily on and off time slot (3 in total).

The following will appear on the Display:

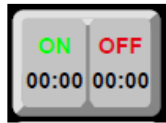


Select OFF to exit the Menu (the TIMER function will not be enabled), or select ON and the following will appear on the display:

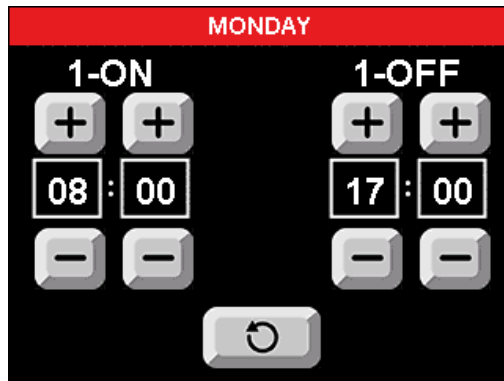


Select the  button to exit the menu and select the day of the week  to scroll through the days.

The example shows a screenshot of the ON and OFF time settings for MONDAY.




Select the button on the first time slot, to set relative ON and OFF times. The following will appear on the Display:

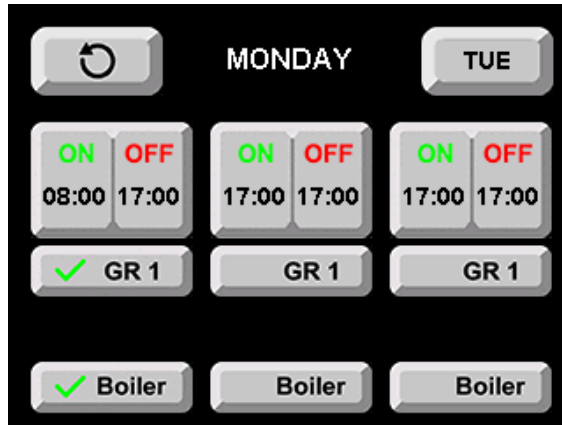


Use the + and - buttons to set relative ON and OFF times for the first time slot.

Use the button to return to the previous screen:

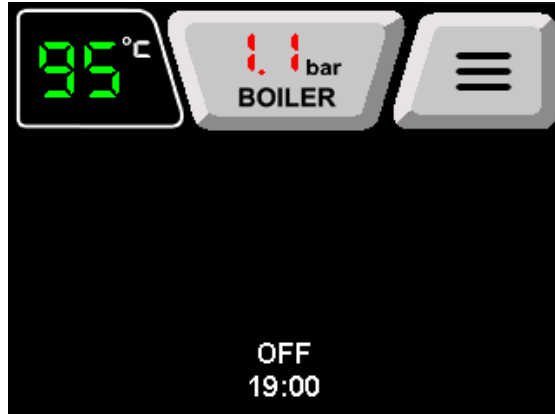
Select the **GR1 or Boiler** buttons and a FLAG  will appear next to the button to indicate that the selected Module will be enabled at the set time. If there is no check mark (FLAG), the module will not be enabled.

Repeat the steps above for every day of the week to automatically switch the appliance on and off.

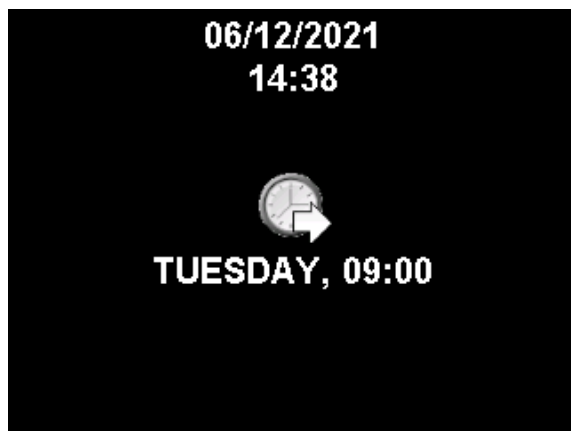


When this is complete, select the  button to exit the ON/ STBY TIMER Menu.

N.B.: With the TIMER function enabled, the current hour will alternate with the next OFF for the TIMER on the main Display:




With the appliance OFF for the TIMER, the next day and ON time for the TIMER is visible on the main Display:

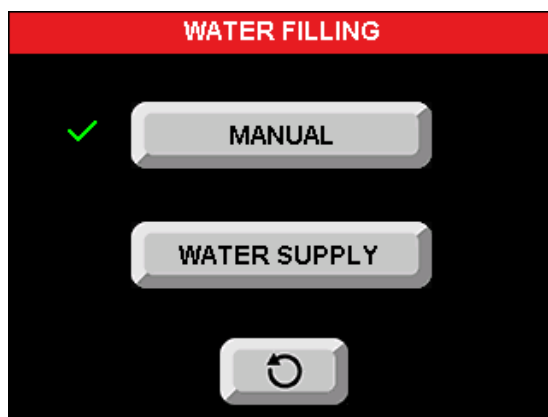



N.B: Use button 7 (PAGE4) to force appliance switch-on. As of now the TIMER will be disabled

WATER TANK FILLING MENU:


Select the  Menu to access the parameters for Water Tank filling.

The following will appear on the Display:




Select  if the appliance is programmed for Manual Water Tank filling.


Select  if the appliance is directly connected to the water mains (OPTIONAL).

N.B.: When the MANUAL mode is selected, the operator must manually fill the water tank using compartment 1 (PAGE2) when the “no water in tank”  warning message appears; when the WATER SUPPLY mode is selected, the appliance will automatically keep the water tank full by drawing water from the water mains.

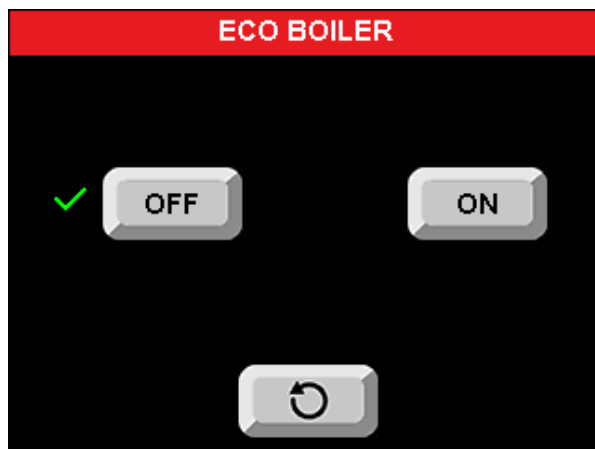
N.B.: Before selecting WATER SUPPLY mode, ensure the appliance is actually connected to the water MAINS with the special hose, connected to the inlet fitting which may be present under the appliance (please refer to PAGE 6).

Press the  button to exit the settings Menu.


ECO BOILER MENU:

Select the  Menu to access the Menu for modifying the management of the heating mode of steam BOILER for delivery GROUPS. With ECO BOILER ON, heating priority is always given to the delivery group over the steam BOILER, thus limiting maximum appliance power absorption from 2600W (ECO BOILER= OFF mode) to 1300W (ECO BOILER= ON).

The following will appear on the Display:



Select ON to enable the ECO BOILER function.


Press the  button to exit the Menu.

With the ECO BOILER ON function, ECO will light up in green on the main Display:



N.B.: With ECO BOILER= ON, STEAM BOILER activity (hot water / steam delivery) is limited by appliance firmware. If the delivery of large quantities of steam and/or hot water is required for infusions, leave ECO BOILER= OFF.


CHANGE PIN MENU:

Select the  Menu to change the DEFAULT PIN required to access menus.

The following will appear on the Display:




A new 4-digit PIN can be entered, which will be required the next time the appliance settings Menu is accessed.

Confirm the new PIN by pressing the  button.

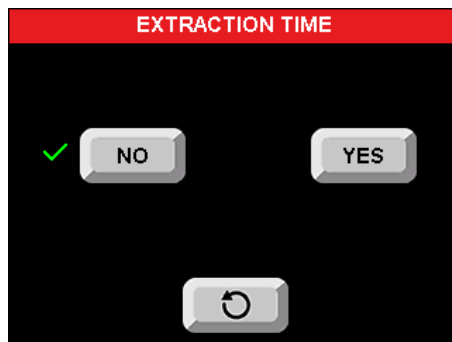
N.B.: Store and keep a note of the new PIN that has been set, otherwise the appliance settings Menu will no longer be accessible.

TIME CONTROL MENU:

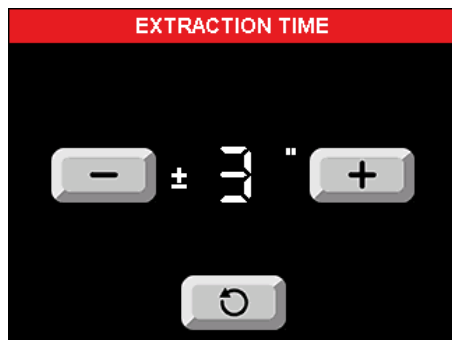
Select the  Menu to enable the coffee extraction time control function during delivery.

With this function, the user can verify the suitability of product delivery time set by machine installation parameters, and if necessary, adjust "granulometry" (grind) and/or "weight" (amount of ground coffee in filter holder) parameters.

The following will be displayed on the main Display:

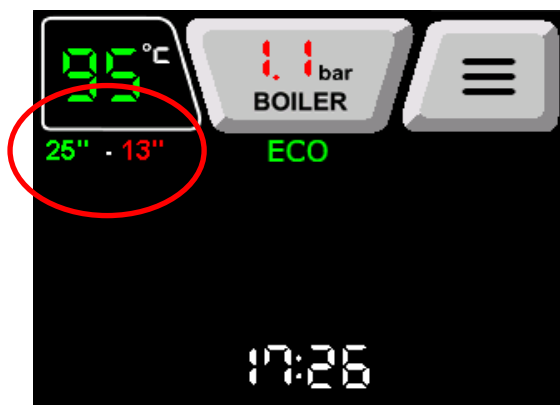


Select YES to enable the function and the following will appear on the Display:



Use + and - to modify the tolerance time applied to the coffee delivery time.

With this function enabled, during normal appliance operation, the reference time for the specific selection currently being completed is shown on the left (time automatically memorised upon programming delivered product volume), under the corresponding delivery group temperature on the main Display; the actual time of current delivery is shown on the right.

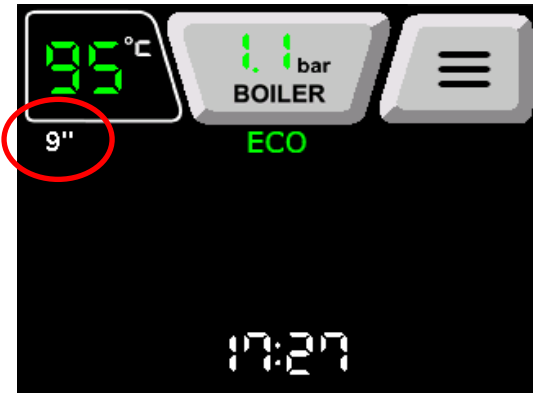


With real time value red = extraction time non-conformity


With real time value green = extraction time conformity

N.B: The purpose of this function is solely to give the user an idea of delivered product conformity based on its extraction time.

With the function disabled (EXTRACTION TIME CONTROL=OFF), current delivery time is displayed only, in white and without any reference.

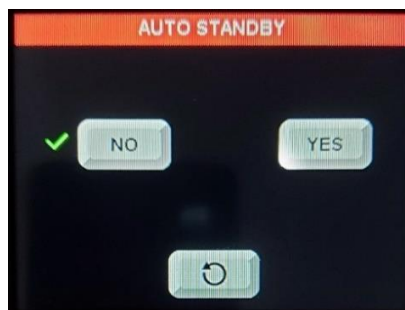


AUTO STANDBY MENU

Selecting the Menu  it is possible to activate the function of “auto shutdown” of the appliance after a certain period of programmable inactivity (“energy saving” function)

After such programmed time, in which the machine does not make coffee, steam or hot water deliveries, the machine moves from ON status to STANDBY status (off).


The following will appear on the display:



Selecting YES, it is possible to set the inactivity time of the appliance after which it will turn off automatically:





It is possible to set a time from 15 to 60 minutes.

When the function is active , the symbol  appears on the main screen, showing the remaining time before the auto shutdown.



Each time a new delivery is made (coffee , hot water for tea or steam) the remaining time is reset and restarts for the preset value in the Menu.

EASY MODE MENU:

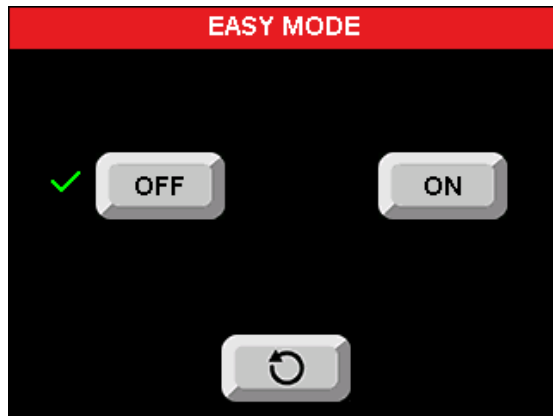
Select the  Menu to access the Menu where the delivery group and steam boiler can be stopped from being switched on and off separately, and the time that the settings menu access button  is held down for can be extended.

This mode is also called the appliance's "Simplified USE mode" and is recommended when the appliance needs to be used in "EASY" mode.

With this mode enabled, each time the appliance on/off button 7 is pressed (PAGE4), both delivery groups and steam boiler are enabled (do not need to be turned on separately) and cannot be disabled separately either.

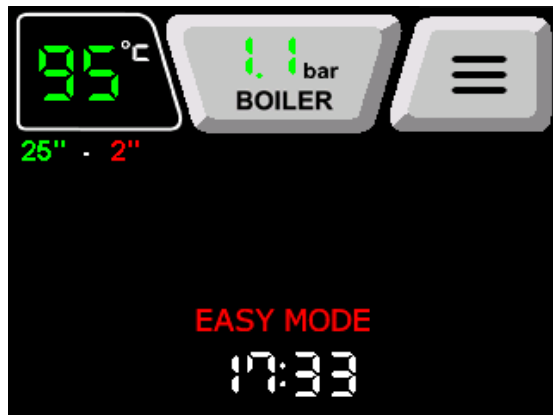
To disable the delivery group and steam Boiler, press the appliance main on/off button 7 (PAGE4).


The following will appear on the Display:




When ON is selected, the function is enabled and when OFF is selected, the function is disabled.

When this function is active, the lettering EASY MODE will be visible on the main screen.



Press the  button to exit the Settings Menu.

DISPLAY LOGOS MENU:


Select the  Menu to access the function for importing images that can be viewed on the TFT display.

Before entering the DISPLAY LOGOS Menu, lift the rubber cover and insert the USB key into port 12 (PAGE2). The key must contain one or more valid images in its ROOT folder (see specifications below).

Images can be imported for use during the STBY function (the imported image is displayed when the appliance is in STBY mode) and SCREENSAVER function (the imported image is displayed when the appliance is inactive for more than 10 seconds. When any key or the TFT screen is touched, the main menu options are displayed once more).

When the menu is accessed with the USB Key containing valid images already inserted, the following will be displayed:

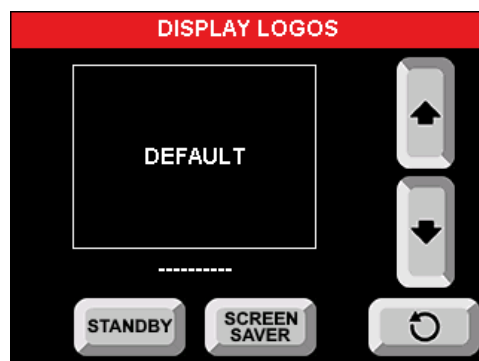


A preview of the first image detected by the USB Key. Press the  button to preview any further images in the USB Key.

When the desired image is displayed, press STANDBY and this image will become the new display image when the appliance is in STBY mode.

Press SCREENSAVER and the selected image will become the new display image whenever the appliance is inactive for more than 10 seconds.

After the last image on the USB Key has been previewed, the following will appear on the display:



Press the STANDBY and/or SCREENSAVER buttons to reset the DEFAULT settings for the 2 functions (STBY: No image displayed; SCREENSAVER: no image displayed when the appliance is inactive for more than 10 seconds).

VALID IMAGE FORMATS:

Only the following images can be imported and displayed in the DISPLAY LOGOS Menu:

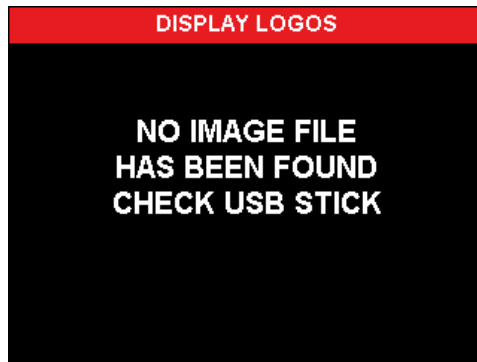
.BMP file extension (Bitmap).

Uploaded image size must be 320 x 240 pixels

Image depth must be 24 bits


Image size must not exceed 400Kb.

If the image is invalid or there are no images on the USB Key, the following will appear on the display:




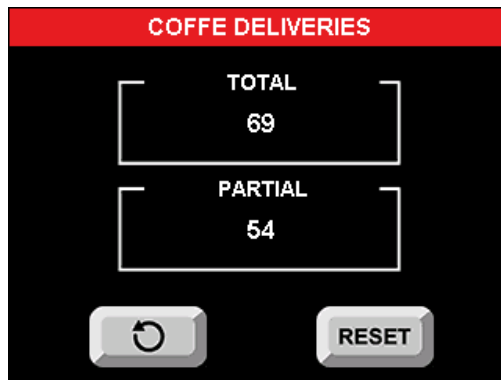
Exit the Load Bitmap Menu by pressing the  button, remove the USB Key and reposition the rubber cover.

COUNTERS MENU:

Select the  Menu to access the Menu where any set coffee, steam and infused water delivery counters can be viewed. The following will appear on the Display:

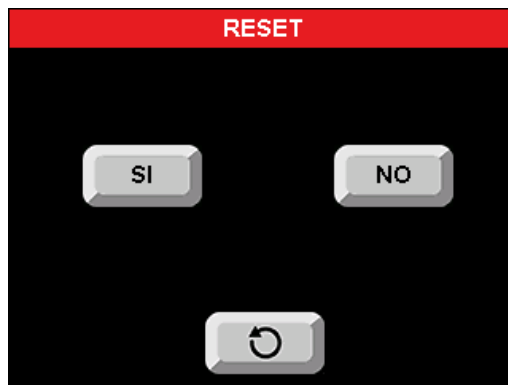


Select the  Menu and the following will appear on the Display:



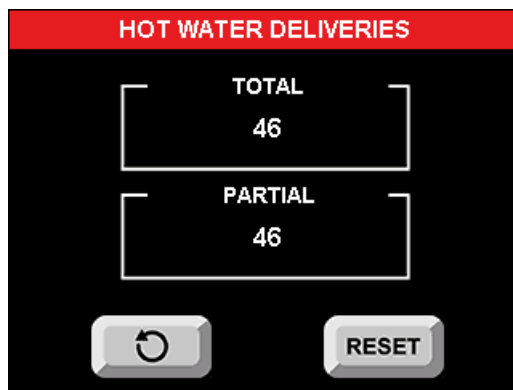
The amount of coffees that have been delivered can be viewed, and this is split into TOTAL (non-resettable) and PARTIAL (resettable) figures.

To reset PARTIAL counters, select the  button and the following will appear on the display:



Select YES to reset the partial counters, and select NO to not reset them.

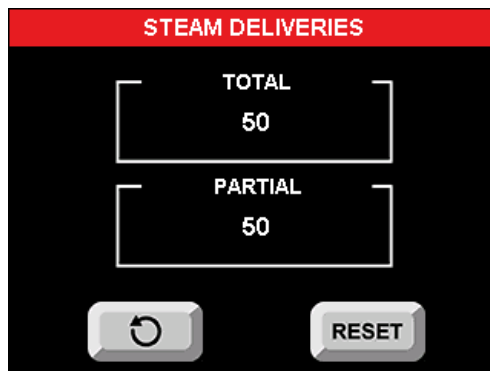
Select the **HOT WATER DELIVERIES** Menu and the following will appear on the Display:



The amount of water deliveries for infusions can be viewed, and this is split into a TOTAL (non-resettable) and PARTIAL (resettable) figures.

If necessary, reset the PARTIAL counters by following the procedure described above.


Select the **STEAM DELIVERIES** Menu and the following will appear on the Display:

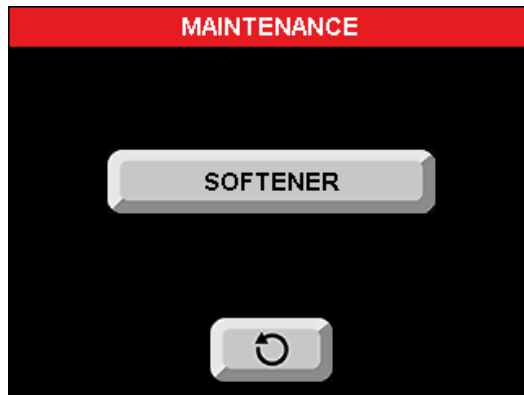



The amount of steam dispenses can be viewed, and this is split into a TOTAL (non-resettable) and PARTIAL (resettable) figures.


If necessary, reset the PARTIAL counters by following the procedure described above.

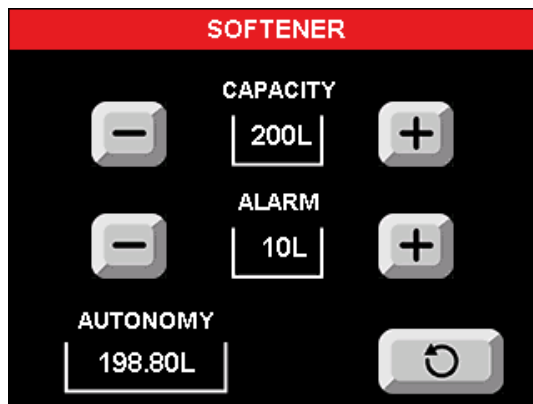
MAINTENANCE MENU:

Select the  Menu and the following will appear on the Display:



Press the  button to exit the Settings Menu.

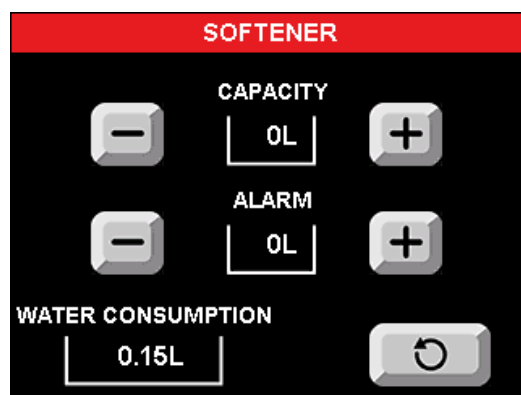
Select the  Menu to access the Menu where the service life of the water softener resin bag can be set in litres. This bag is used to remove limescale from the Water Tank. The following will appear on the Display:




“L/Max” is the maximum service life of the resin filter (modifiable according to the manufacturer's instructions using the + and - buttons).

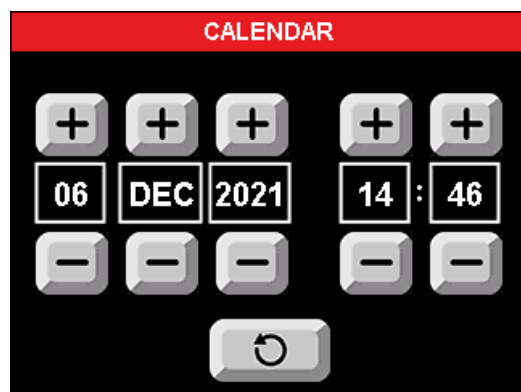
The warning is the value in litres that has been reached, which appears on the main display when it is time to replace the resin filter .

N.B: By setting the value of LTMAX and WARNING to 0, the AUTONOMY field is automatically changed to CONSUMPTION. The consumption field is increased by the actual value of water consumed by the appliance.




CALENDAR MENU:


Select the  Menu to access the current DATE and TIME settings menu. The following will appear on the Display:




Change the parameters using the + and - buttons.

Press the  button to exit the Settings Menu.

INFO MENU:

Select the  Menu to view general appliance info:

Press the  button to exit the Settings Menu.



UPDATING APPLIANCE MANAGEMENT FIRMWARE:

Appliance management firmware can be updated using a USB key.

Firmware updates are necessary to ensure optimal appliance performance and to leverage all the latest available features.

To update firmware, proceed as follows:

- Put the appliance into STBY mode by pressing button 7 (PAGE4).
- Unplug the power cable from the mains.
- Lift up the rubber cover and insert a USB key containing a valid firmware version in its ROOT folder into port 12 (PAGE2).
- Plug in the power cable: the firmware update process will start automatically.
- When the process has been completed, the appliance will automatically return to STBY mode: the USB key can now be removed and the rubber cover repositioned.

The installed appliance firmware versions can be viewed in the INFO menu.

SCHEDULED MAINTENANCE OF THE APPLIANCE BY THE USER

N.B.!

To ensure efficient and correct appliance operation, follow the manufacturer's instructions by carrying out scheduled cleaning and maintenance operations

Please Note!

Scheduled cleaning and maintenance works must be carried out by the user in accordance with the manufacturer's instructions as described here below. Unplug the appliance from the electrical mains before proceeding with any cleaning operations.

Scheduled cleaning and maintenance works must be carried out when the appliance has cooled down and whilst wearing protective gloves, to prevent scratching.

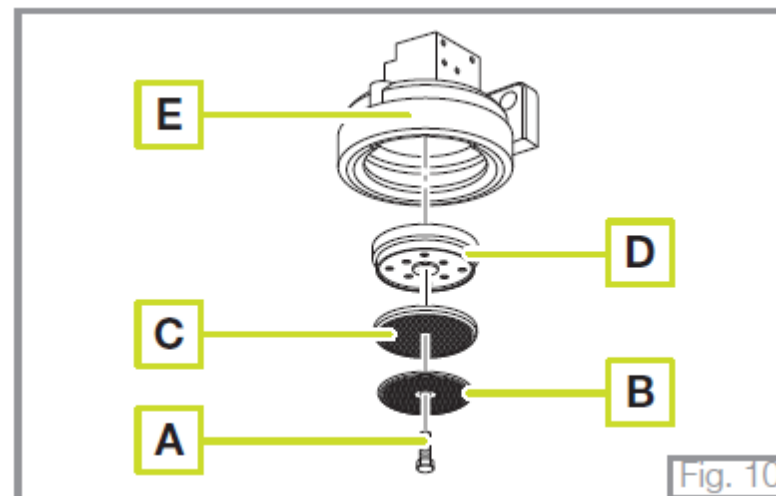
EACH DAY AT THE END OF THE LAST SHIFT:

- 1)** Switch the appliance off, leave it to cool down and then clean the filter holder (5), filters and nozzles, ensure that any limescale is removed from the inside of filter holders and nozzles; check all holes are clear (use an abrasive sponge for this operation).
- 2)** Clean the sprayheads under the delivery group (3) using the brush supplied.
- 3)** Clean the tray (7) and tray grille (6), using commercial cleaning products if necessary.

Every 3 days

After disconnecting the appliance, remove the sprayheads using the key specifically supplied for this purpose; brush thoroughly and ensure all holes are clear. Follow the sequence illustrated here to reassemble all parts.

- A. Fixing screw
- B. Small sprayhead
- C. Large sprayhead
- D. Diffuser
- E. Delivery Group



N.B.!

Do not use water jets to clean the appliance.

EXTERNAL STRUCTURE

Clean the external structures of the appliance with detergents that are mild, so as not to ruin them. The use of abrasive sponges is not recommended as they may damage appliance body panels.

INNER TANK

Clean the inside of the water tank as follows:

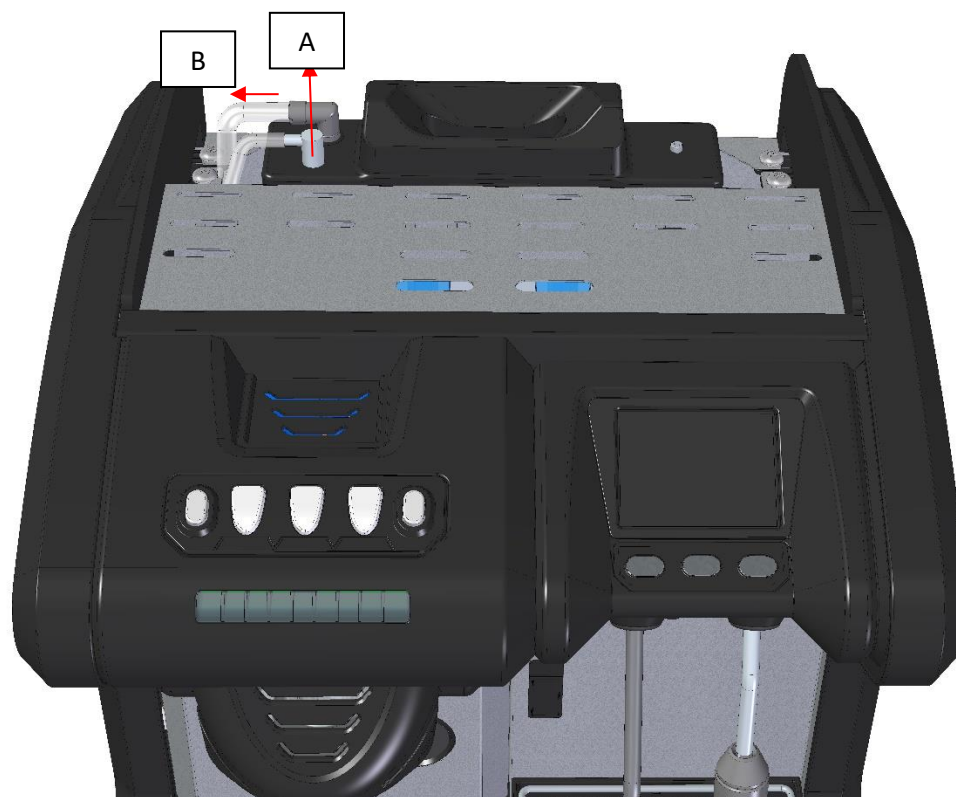
N.B: Always use protective gloves in order to avoid being scratched.

- 1) Switch the appliance off using the button 7 (PAGE4) and disconnect the power plug from the electrical mains.
- 2) Lift the metal sheet cover 3 (PAGE2)

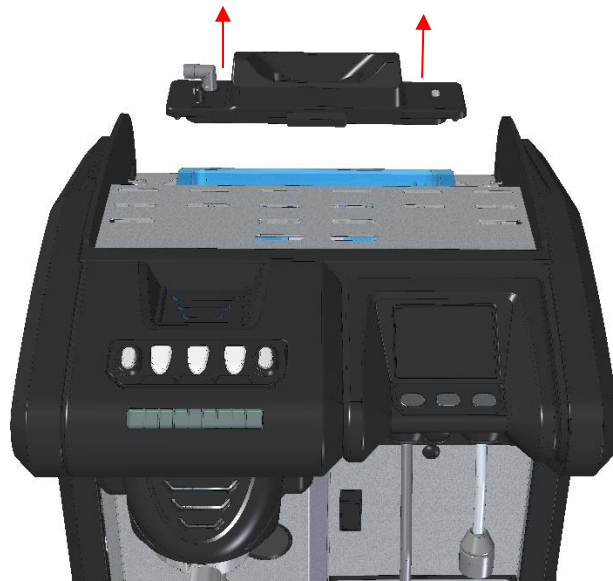


- 3) Disconnect the water suction hoses (A) and drain hoses (B):

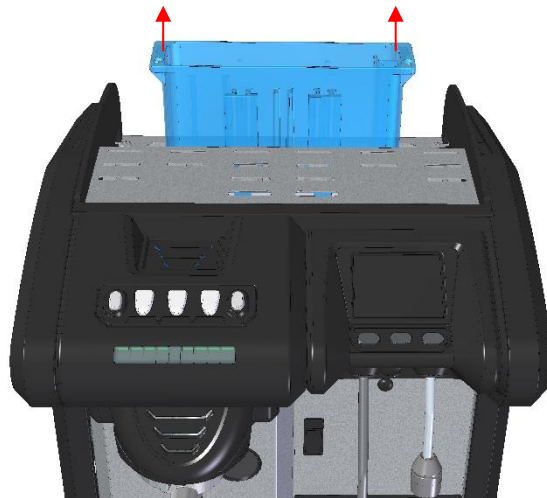
N.B: Tube "B" is only present if the appliance is fitted with an installed water mains connection kit.



4) Lift the lid of the tank:



5) Remove the tank, take care not to spill any water inside:



- 6) Clean the inside of the tank and remove any limescale, using an abrasive sponge if necessary.
- 7) Now reposition all previously-removed components by following the aforementioned steps in reverse order. Be sure to correctly reposition the tank and connect all previously disconnected silicone hoses.

PLEASE NOTE:

Every day after the last shift and after daily cleaning, turn off the appliance by pressing button 7 (PAGE4), and unplug the appliance from the mains.

If the appliance is directly connected to the water mains (OPTIONAL), close the water shut-off valve fitted by the client.

MANAGEMENT OF OPERATING WARNINGS:

DELIVERY GROUP TEMPERATURE NOT REACHED WARNING


Appliance-stopping warning. If during the brew group's initial heating phase, the temperature does not reach at least 50°C within 5 minutes, the



icon will appear in the place where relative group temperature is displayed.

Reset the warning by turning off and switching the respective group back on, using button 5 (PAGE4).


GROUP TEMPERATURE TOO HIGH WARNING

Appliance-stopping warning. When the temperature detected by the delivery group's temperature probe exceeds 140°C, the  icon will appear in the place where group temperature is displayed.

Reset the warning by turning off and switching the respective group back on, using button 5 (PAGE4).


STEAM BOILER PRESSURE NOT REACHED WARNING

Steam boiler-stopping warning only. If, when the steam boiler is turned on at the start of the day, the pressure does not reach 0.5 bars in 20

minutes, the  icon will appear in the place of the steam boiler on/off button.


The warning is reset by pressing (turning off) this button on the main display.

HIGH BOILER PRESSURE WARNING

Steam boiler-stopping warning only. If, when the steam boiler is turned on at the start of the day, the pressure exceeds 1.6 bars, the  icon will appear in the place of the steam boiler on/off button.


The warning is reset by pressing (turning off) this button on the main display.

STEAM BOILER AUTOMATIC WATER FILLING SYSTEM TIME OUT WARNING

Steam boiler-stopping warning only. If the water level in the steam boiler is not automatically restored within 7 minutes (the first time it is turned on) or after 2.5 minutes (during normal operation), the  icon will appear in the place of the steam boiler on/off button.

The warning is reset by pressing (turning off) this button on the main display.

NO WATER IN TANK WARNING


Appliance-stopping warning. When the minimum level sensor does not detect enough water in the tank, the  icon will appear and the LEDs on the side of the appliance will begin to flash. Any beverages that are in the process of being delivered will be completed, but no further beverages can be delivered until the tank is manually replenished with water through the filling compartment 1 (PAGE2).

The warning is automatically reset when tank water level is restored.

THE WATER TANK IS BEING FILLED (VERSIONS CONNECTED DIRECTLY TO THE WATER MAINS ONLY – OPTIONAL)

When the water tank is being automatically filled with water, the  icon will appear. When the correct water level is reached, the icon will disappear.


WATER TANK FILLING TIME OUT WARNING (VERSIONS CONNECTED DIRECTLY TO THE WATER MAINS ONLY)

Appliance-stopping warning. If the correct water level is not reached within a certain period of time when the tank is being automatically filled, the  icon will appear.

The warning is reset by turning off and switching the appliance back on using button 7 (PAGE4).


N.B.: Visually check the tank's water level using the side inspection windows, to prevent the water from overflowing.

LOW RESIN IN THE TANK WARNING

NON-appliance stopping warning. When the resins used to remove limescale from the tank's water have been used up (according to the service life counters that have been set in litres in the specific menu), the  icon will appear.


Replace the resins in the tank by referring to page 10 of this manual and follow the onscreen instructions.

AUTOMATIC COFFEE DOSING SYSTEM FAULT WARNING

Non-appliance stopping warning. If, when delivering coffee via the programmable buttons 2-3 (PAGE4), the volumetric control system cannot determine how much coffee has been delivered, the  icon will appear in the place where that group's temperature is displayed.

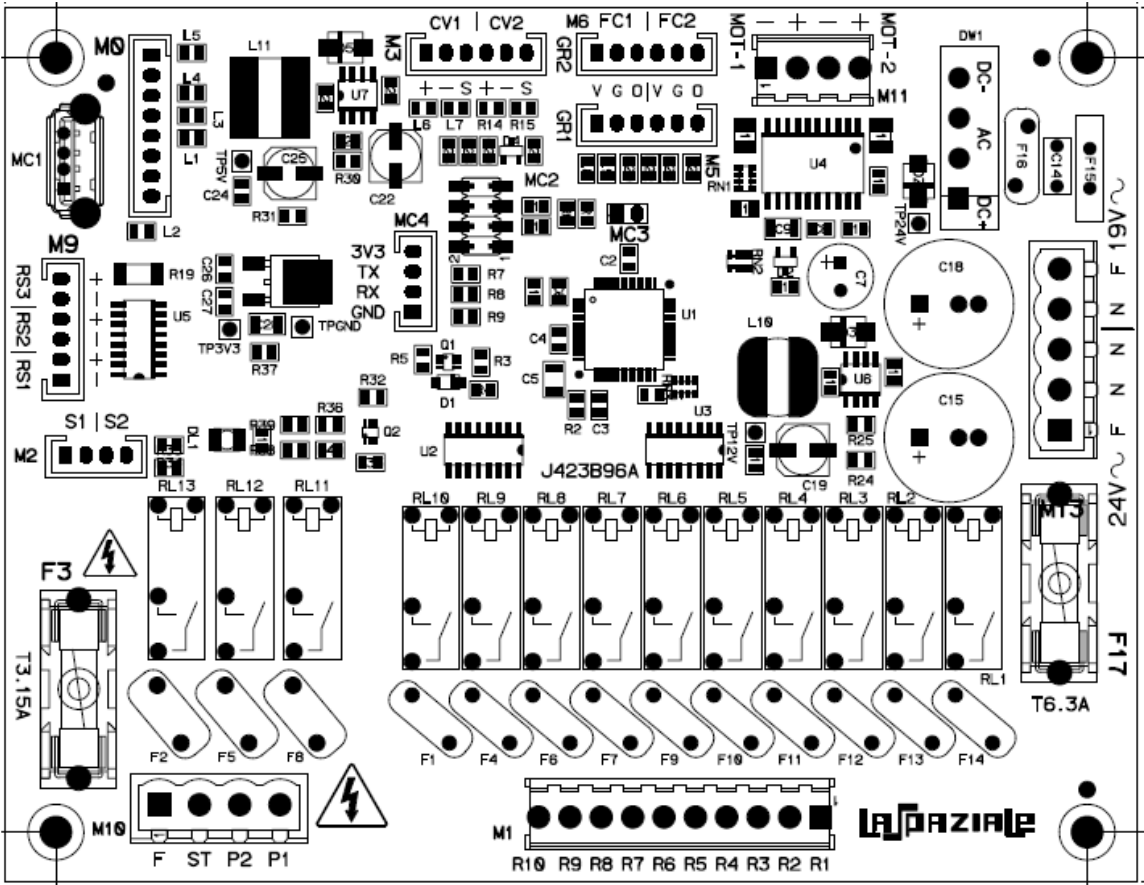
The warning is automatically reset by manually stopping the beverages being delivered, using buttons 2-3 (PAGE4).

STEAM BOILER PRESSURE SENSOR FAULT WARNING

Steam boiler-stopping warning only. When the sensor determines that the steam boiler's working pressure is not working, the  icon will appear in the place of the steam boiler on/off button.

Contact technical support to resolve the problem.

POWER BOARD CONNECTIONS:



KEY:

M0 = CONNECTION WITH DISPLAY BOARD

M1 = CONNECTION DELIVERY RELAY 24Vac

RL1: RELAY EV delivery GR1

RL2: not used

RL3: RELAY EV load Steam boiler

RL4: RELAY EV delivery H2O

RL5: RELAY EV STEAM delivery / M.A.T.

RL6: not used

RL7: not used

RL8: RELE EV inbound water connection to water mains (OPTIONAL)

RL9: FREE

RL10: FREE RELAY

MC1 = USB CONNECTION

M2 = REED SENSORS CONNECTION FOR TANK LEVEL (S1= MIN ; S2 = MAX)

M3 = VOLUMETRIC COUNTERS CONNECTION (CV1=GR1; CV2 = not used)

MC4 = RS232 SERIAL CONNECTION

M5-M6 = NOT USED

M9 = STATIC RELAYS CONNECTION:

RS1: PILOTING STATIC RELAY GR1

RS2: not used

RS3: PILOTING STATIC RELAY STEAM BOILER

M10 = CONNECTIONS 230Vac (F3 = FUSE LINE 230Vac)

F = PHASE IN

ST = NOT USED

P2 = NOT USED

P1 = OUT PUMP GR1

M11 = NOT USED

M13 = IN / OUT 24Vac / 19Vac (F17 = FUSE LINE 24Vac)

F19Vac = PHASE IN 19Vac FROM TRANSFORMER

N19Vac = NEUTRAL IN 19Vac FROM TRANSFORMER

F24Vac = PHASE IN 24Vac FROM TRANSFORMER

N24Vac = NEUTRAL IN / OUT 24Vac FROM TRANSFORMER

MC1 = CONNECTION WITH TFT DISPLAY

X1 = BUZZER

M0 = CONNECTION WITH POWER BOARD

M4 = CONNECTION TEMPERATURE PROBE PT1000 DELIVERY GROUPS (PT1 = GR1; PT2 = not used)

M7 = CONNECTION STEAM BOILER PRESSURE SENSOR

M8 = CONNECTION STEAM BOILER WATER LEVEL

M12 = RS232 SERIAL CONNECTION

M14 = LED R/L WATER TANK

M15 = CONNECTION KEYBOARD ON/STBY – STEAM – H2O

M16 = CONNECTION TEMPERATURE PROBE PT1000 M.A.T. SYSTEM

M17 = CONNECTION DELIVERY PUSHBUTTON PANEL GR1

M18 = not used




S11 MINIBRIO

REV. 01/2022

La Spaziale SpA Via E. Duse, 8 40033 Casalecchio di Reno Bologna - (Italy) tel. +39 051 611.10.11 fax. +39 051 611.10.40

 info@laspaziale.com

 www.laspaziale.com