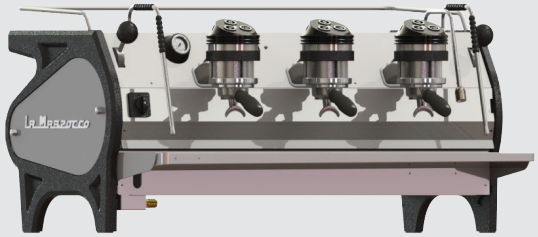
# manual

## strada av

The Strada AV is characterized by its underlying mechanical features and design of the Strada. The initials “AV” refer to a feature whereby brewing is activated by a three button keypad where the doses are counted by a flowmeter for each group. This model includes proportional steam valves, both featuring anti-resuction valves.



la marzocco

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# strada av

Operating Manual V1.0 - 11/2015
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## Chapters


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La Marzocco S.r.l.

Via La Torre 14/H
Località La Torre
50038 Scarperia e San Piero
(Firenze) - ITALIA

www.lamarzocco.com
info@lamarzocco.com

T: +39 055 849 191
F: +39 055 849 1990


EN

certifications available:

**⚠ WARNING ⚠**

**This machine is for professional use only and should be installed in locations where its use and maintenance is restriced to trained personnel. Children are forbidden to operate or play with the machine.**

**⚠ WARNING ⚠**

**The Coffee machine must be placed in a horizontal position on a counter higher than 80 cm from the ground.**

**⚠ WARNING ⚠**

**This machine is not suitable for outdoor use. Jets of water should not be used to clean the machine, nor should it be placed where water jets are used.**

**⚠ CAUTION ⚠**

**As already mentioned in the preceding notes, the manufacturer shall not be held responsible for damage to objects, animals and/or people whenever the machine has not been installed according to the instructions contained in this manual, and is not used to do what it was designed for (i.e. preparing coffee and hot drinks).**

**1) Important safeguards**

- The weighted sound pressure level of the machine is lower than 70dBA.
- Use, cleaning and maintenance of this coffee machine are realized by people (including children more than 8 years of age) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, as long as they have been given supervision or instructions concerning the use of the appliance by a person responsible for their safety and if they understand dangers.
- Children should be supervised to ensure that they do not play with the appliance.
- Keep the appliance and its cord out of the reach of children less than 8 years of age.

**2)** This operating manual is an integral and essential part of the product and

must be supplied to users. Users are asked to read the enclosed warnings and cautions carefully, as they provide valuable information concerning safety during installation, operation and maintenance. This manual must be kept in a safe place and be available for consultation to new and experienced users alike.

**3)** Ensure product's integrity by inspecting the packaging, making sure it presents no signs of damage which might have affected the enclosed machine.

**4)** Check the machine's integrity after having carefully removed the packaging.
**Note: In case of doubt, do not go on any further and contact your dealer or retailer immediately. They will send out specialized personnel authorized to perform service on the espresso machine.**

**5)** Packaging (boxes, plastic bags, foam parts and whatever else) must not be left around within easy reach of children, due to the potential danger it represents, nor be discarded in the environment.

**6)** Check to see that data on the rating plate corresponds to those of the main electrical supply which the machine will be hooked up to.

**7)** The equipment must be installed to comply with the applicable federal, state or local electrical and plumbing codes. The installation also must comply to the manufacturer's instructions, and must be performed by qualified and authorized personnel.

**8)** Incorrect installation may cause for injury/damages to people, animals or objects, for which the manufacturer shall not be held responsible.

**9)** Safe electrical operation of this device will be achieved only when the connection to the power outlet has been completed correctly and in observance of all local, national, and international electrical codes and safety regulations, and particularly by grounding the unit. Make sure grounding has

been done properly as it represents a fundamental safety requirement. Ensure qualified personnel check such connection.

**10)** Furthermore, you must ensure that the capacity of the available electrical system is suitable for the maximum power consumption indicated on the espresso machine.

**11)** We do not recommend using adapters, multiple plugs and/or extension cords. If you cannot avoid using them, make sure that they are exclusively of the kind which conforms to local, national, and international electrical codes and safety regulations, being careful not to exceed the power and current ratings indicated on such adapters and extension cords.

**12)** This device must be used exclusively for the functions it has been designed and built for. Any other application is inappropriate and dangerous. **The manufacturer shall not be held responsible for any damages caused by improper and/or irrational use.** This machine should not be installed in kitchens.

**13)** Using any electrical device requires that certain fundamental rules be observed. In particular:

- do not touch the device with wet or humid hands and feet;
- do not use the device while having no shoes on your feet;
- do not use extension cords in bath or shower rooms;
- do not unplug the device from the power outlet by pulling on the power supply cable;
- do not expose the device to atmospheric agents (rain, sun, etc.);
- do not allow children or untrained people to use this device;
- do not clean the control panel with a wet cloth since it is not watertight.

**14)** Before carrying out any maintenance and/or cleaning operations, turn the main switch, which is located on the front left of the machine, to the “O” or “OFF” position, and disconnect the machine from the electrical network

by unplugging the cord or by switching off the relative circuit breaker. For any cleaning operation, follow exclusively the instructions contained in this manual.

**15)** In case the machine is operating in a faulty manner or breaks down, disconnect it from the electrical network (as described in the preceding point) and close the water supply valve. Do not attempt to repair it. Contact a qualified and authorized professional to perform any repair. Any repairs must be performed exclusively by the manufacturer or by an authorized centre using only original parts. Non compliance with the above could compromise the safe operation of the machine.

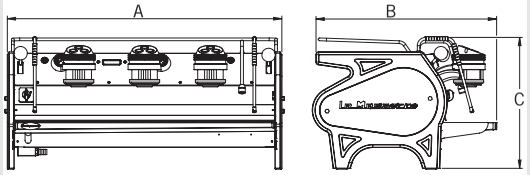
**16)** You should plan to make use of an omnipolar connector during installation, as required by local, national, and international electrical codes and regulations.

**17)** In order to avoid dangerous overheating problems, it is recommended that the power supply cable be fully unfurled.

**18)** Do not obstruct air intake and exhaust grilles and, in particular, do not cover the cup warmer tray with cloths or other items.

**19)** The machine's power supply cable must not be replaced by users. In case the power supply cable becomes damaged, shut off the machine and disconnect the machine from the electctrical network by switching off the relative circuit breaker and close off the water supply; to replace the power supply cord, contact qualified professionals exclusively.

**20) Common Dimensions, Weights, and Features**




| STRADA AV | 2 gr. | 3 gr. |
|---|---|---|
| A [mm] | 800 | 1000 |
| B [mm] | 675 | 675 |
| C [mm] | 475 | 475 |
| WEIGHT [kg] | 70 | 91 |

**This operating manual refers exclusively to the following models, of our own manufacture:**
STRADA, model AV 3 groups

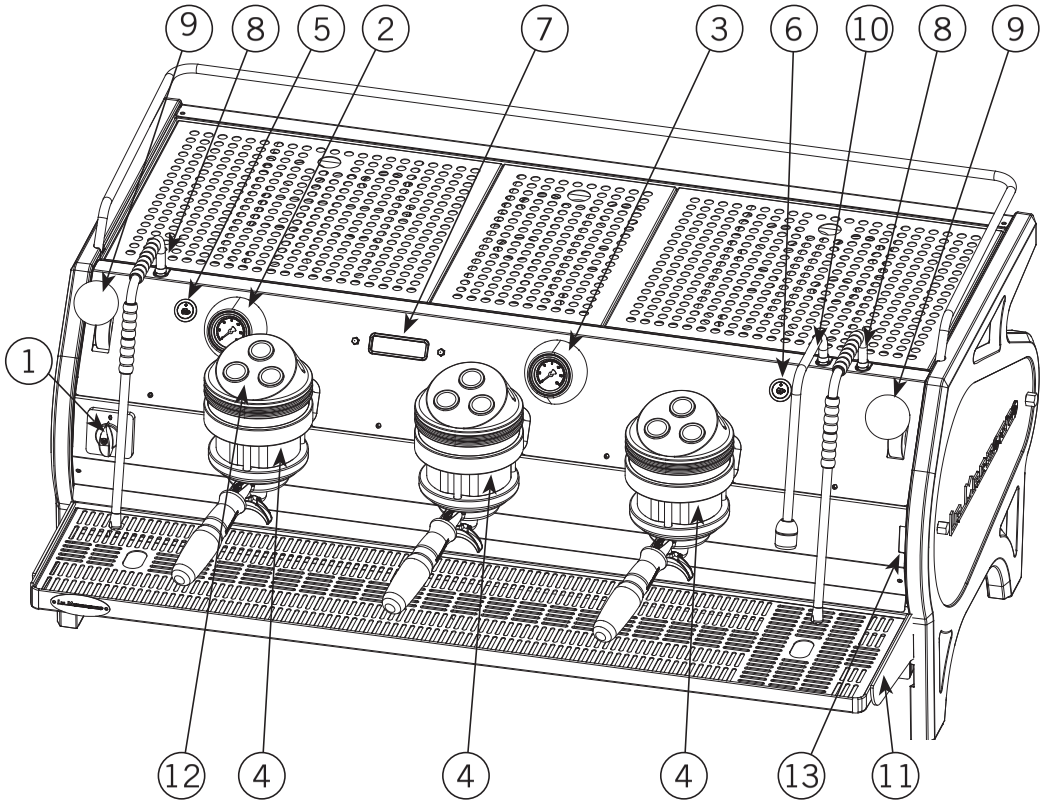



**Fig. 1 - Model AV with 2 or 3 groups**

**Legend**

| | |
|---|---|
| 1 | Main Switch |
| 2 | Pressure Gauge (steam boiler) |
| 3 | Pressure Gauge (coffee boiler) |
| 4 | Brew Groups |
| 5 | Cup Warmer Button |
| 6 | Tea Water Button |
| 7 | Digital Display |
| 8 | Steam Wand |
| 9 | Steam Wand Lever |
| 10 | Hot Water Wand |
| 11 | Removable Drain Tray |
| 12 | Group #1 Programming Keypad |
| 13 | Hot Water Mix Valve |

For additional information on electronics, keypads, and software programming, please see the section entitled Software Programming your Espresso Machine.

**1) General Description**

The machine is built in 2 and 3 coffee group versions and is essentially composed of the following parts:

- Steam Boiler (produces steam and hot water);
- Coffee ("saturated") boiler;
- Brewing groups;
- Exterior Cover;
- Water pump.

**2) Description of the various parts**

- **Steam Boiler**

The Steam Boiler consists of a cylindrical tank, of varying length according to the number of coffee groups, which is made of AISI 300 series stainless steel. Each unit is subjected to a hydraulic test, at a pressure of 6 bar, and has an operating pressure of 1.3-1.5 bar. The following is a list of effective volumes and power ratings according to the number of groups installed:

| | | |
|---|---|---|
| 2 groups | 8,2 liters | 3000 Watts |
| 3 groups | 11,8 liters | 4000 Watts |

Covers are welded at either end of the cylindrical tank and on one of them there is a housing for the water heating element, which allows the steam boiler to reach operating pressure within approximately 25 minutes. Operating pressure is maintained by temperature probe and PID controller. The steam boiler has various fittings used for safety devices, for supplying hot water and steam, and for the heating element.

Composed of AISI 300 series stainless steel tube. Heating is accomplished through an immersion-type plated heating element.

- Operating pressure of 1.3-1.5 bar, controlled automatically through a pressure switch or a temperature probe, adjusted to open the heating element supply circuit at 1.5 bar and close it at 1.3 bar.
- The pressure is displayed by means of a pressure gauge with a scale of 0 to 2 bar.
- Safety device, based on an expansion type mechanical valve, with counter-acting spring adjusted to 1.8 bar.
- Testing: hydraulic test at 4.5 bar performed on ready-to-use small boilers, at our factory.

**• Coffee Boiler**

The Coffee Boiler consists of a cylindrical tank made of AISI 300 series stainless steel. One each group (hot water generator for brewing coffee).

Each unit is subject to a hydraulic test, at a pressure of 18 bar, and has an operating pressure of 9 bar. The following is a list of effective volume and power ratings according to the number of groups installed:

| | | |
|---|---|---|
| 2 groups | 2 x 1,3 liters | 2 x 800 Watts |
| 3 groups | 3 x 1,3 liters | 3 x 800 Watts |

Covers are installed at either end of the cylindrical tank and on one of them there is housing for the water heating elements. The temperature of the coffee boiler is maintained by an electronic temperature controller (PID capable) with an accuracy of 0.2°C. The brewing groups are installed on the boiler.

Composed of an AISI 300 series stainless steel tube. Heating is accomplished through an immersion-type plated heating element.

- Operating temperature 95°C (adjustable), controlled automatically by an electronic temperature controller with an accuracy of 0.2 °C. Operating pressure of 9 bar, developed mechanically by a special positive-displacement pump which is activated automatically every time coffee is brewed.
- Pressure is displayed through a pressure gauge with a scale from 0 to 15 bar.
- Safety device, based on an expansion type mechanical valve, with ounteracting spring adjusted to 13.5 bar.

- Testing: Hydraulic test at 18 bar performed on ready-to-use small boilers, at our factory.

- **Brewing groups**

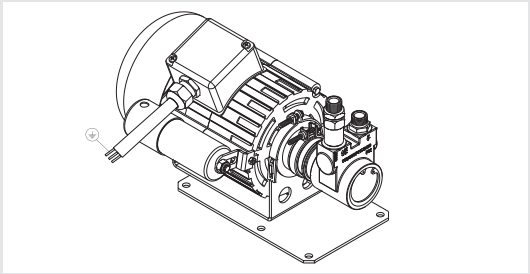
They consist of a precision casting made of stainless steel. The brewing group accepts the portafilter used to hold the ground coffee; the espresso flows through the brewing group, through the portafilter basket, through the portafilter spout, and into the cup(s) after the brewing button has been pressed.

- **Exterior cover**

The exterior consists of painted and stainless sheet steel panels. To provide good aesthetics, to optimize ergonometrics for the operator and to reduce the chance of damage to a minimum.

- **Water pump**

The rotary vane pump, is installed on the water supply tubing and is set up to operate anytime the coffee groups are activated, and through an autofill system whenever the water boiler needs to be replenished.



- **Machine CE plate:**

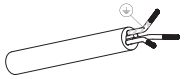
- **Machine ETL plate:**

# 3. Installation

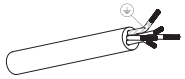
| MODEL/SERIES | GROUP | V/Hz | RATED POWER (W) | RATED INPUT (A) | COFFEE BOILER WATTAGE | STEAM BOILER WATTAGE | TOTAL WATTAGE | POWER CORD SIZE ($mm^2$) |
|---|---|---|---|---|---|---|---|---|
| STRADA AV | 2GR | AC220-240V/60Hz<br>AC208-240/60Hz<br>AC380/50Hz | 4600 | 20-22<br>23<br>12 | 1600 | 3000 | 4600 | SEE ELECTRICAL CONNECTIONS FOR DETAILS |
| | 3GR | AC220-240V/60Hz<br>AC208-240/60Hz<br>AC380/50Hz | 6400 | 25-29<br>30,5<br>16 | 2400 | 4000 | 6400 | |

**POWER CORD:**

***3 X WIRES 220V*** 1 X BLUE (NEUTRAL)
1 X BROWN (PHASE)
1 X YELLOW & GREEN (GROUND)



***5 X WIRES 380V*** 1 X BROWN (PHASE) 1 X BLUE (NEUTRAL)
1 X GRAY (PHASE) 1 X YELLOW & GREEN (GROUND)
1 X BLACK (PHASE)



**⚠ WARNING ⚠**

THE DETAILS ON THE LEFT DESCRIBE HOW TO CONNECT EACH WIRE TO THE PLUG. RESPECT ALSO THE LOCAL SAFETY REGULATIONS.

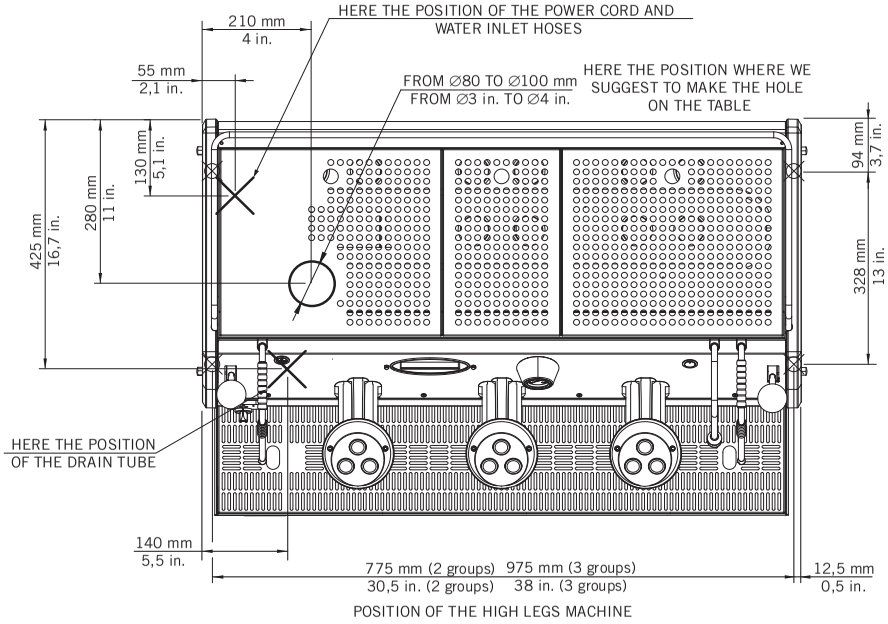



**Fig. 2 - Installation guide**

**⚠ WARNING ⚠**

**The machine is intended to be permanently connected to fixed wiring, and it is mandatory that a residual current device (RCD) with a rated residual operating current not exceeding 30mA is installed.**

**⚠ WARNING ⚠**

**The Coffee Boiler and Steam Boiler contain water at elevated temperature. Water temperature over 125°F / 52°C can cause severe burns instantly or death from scalding (Coffee Boiler 207°F/97°C - Steam Boiler 256°F / 124°C)**

**⚠ WARNING ⚠**

**Replace fuses with the same size, type and rating F1 = 2A, 250V**

**WARNING**

At each installation, the machine should be equipped with a new set of tubes for plumbing and related gaskets.

**WARNING**

Water pressure supply must be between 4 and 8 bar if sufficient pressure is not available we suggest that an additional water supply system is used.

**WARNING**

Before making any electrical connections make sure that the two strain relief connectors are firmly secured to the body of the machine in order to prevent inadvertent stress on the power cables.

**WARNING**

This machine should not be installed in kitchens.

**WARNING**

Hazardous voltage disconnect from power supply before servicing.

**WARNING**

The motor pump must be situated close to the machine in an accessible place for maintenance but not for accidental interference and where there is an optimal air circulation.

**WARNING**

The manufacturer declines any responsibility for any event leading to liability suits whenever grounding has not been completed according to current local, national, and international regulations and electrical codes, or other electrical parts have been connected improperly.

**WARNING**

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or with lack of experience and knowledge, unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety.

**WARNING**

- U.S.A. and CANDA only - Do not connect to a circuit operating at more than 150V to ground on each leg.

**WARNING**

This machine is not suitable for outdoor use. Jets of water should not be used to clean the machine, nor should it be placed where water jets are used.

**⚠ WARNING ⚠**

**In order to prevent cracks or leakage: do not store or install the Coffee machine in places where in boiler or hydraulicsystem to freeze.**

**Note:**

- The drinking water mains valve and the circuit breakers for the electrical system need to be located in the most convenient position for the operator to access them easily and quickly.
- The machine should be placed on a flat counter and must be placed in settings with the following temperatures: Minimum room temperature: 5°C/41°F; Maximum room temperature: 32°C/89°F.
- If the machine has been temporarily housed in settings with a room temperature of less 0°C/32°F, the machine must be placed in a warmer environment in order to gradually defrost the hydraulic system prior to use.
- Water pressure supply must be between 4 and 8 bar.
- This machine complies with the standard 61000-3-11, the impedance at the supply interface must be Zmax= 0.11 Ω.

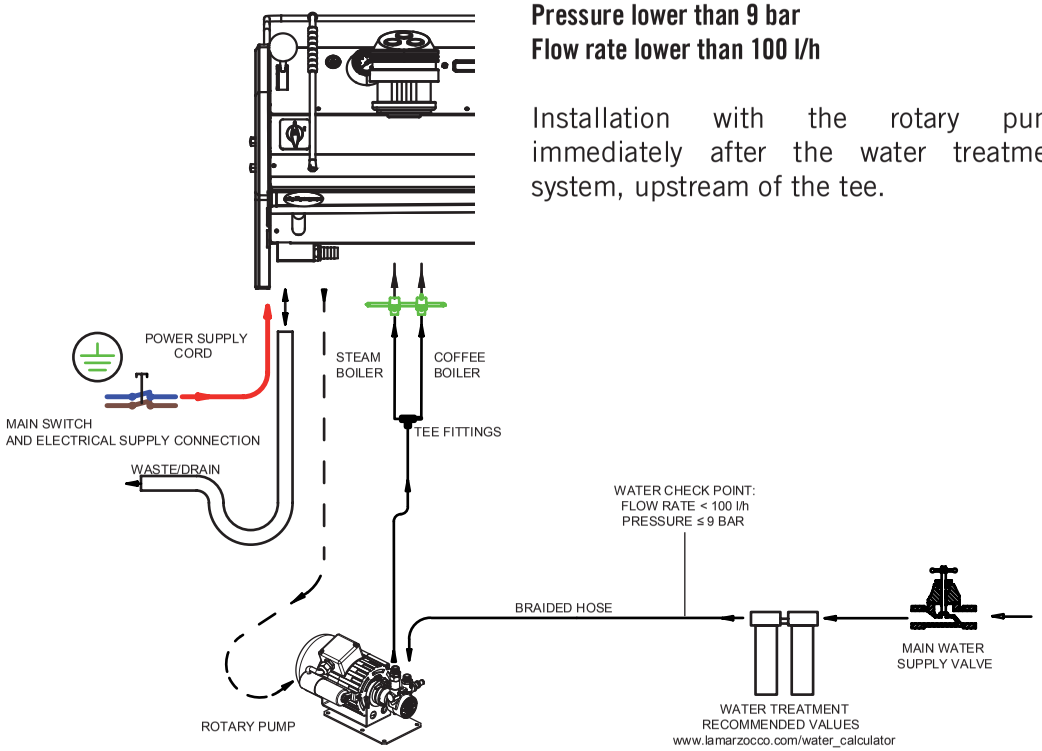
**1) Installation guide**

For best results, STRADA needs a minimum flow of water in input of 100 l/h and a pressure of 2.5 bar.

Installations that do not meet these requirements will cause a shorter life of the pump and may cause a high noise level during coffee brewing.

If the pressure and flow are not adequate, air bubbles may develop within the gears. This is called cavitation. Cavitation can impair the performance of the espresso machine.

If the incoming water of the espresso machine falls outside the recommended parameters, it is necessary to carry out one of the following installations:




**Pressure lower than 9 bar**
**Flow rate lower than 100 l/h**

Installation with the rotary pump immediately after the water treatment system, upstream of the tee.

**Fig. 3 - Installation guide - type 1**

**Pressure higher than 9 bar**
**Flow rate lower than 100 l/h**

Installation of the pressure reducer immediately after the water treatment system, upstream of the rotary pump.

Installation of the rotary pump (set to 9 bar) immediately after the pressure reducer, upstream of the tee.

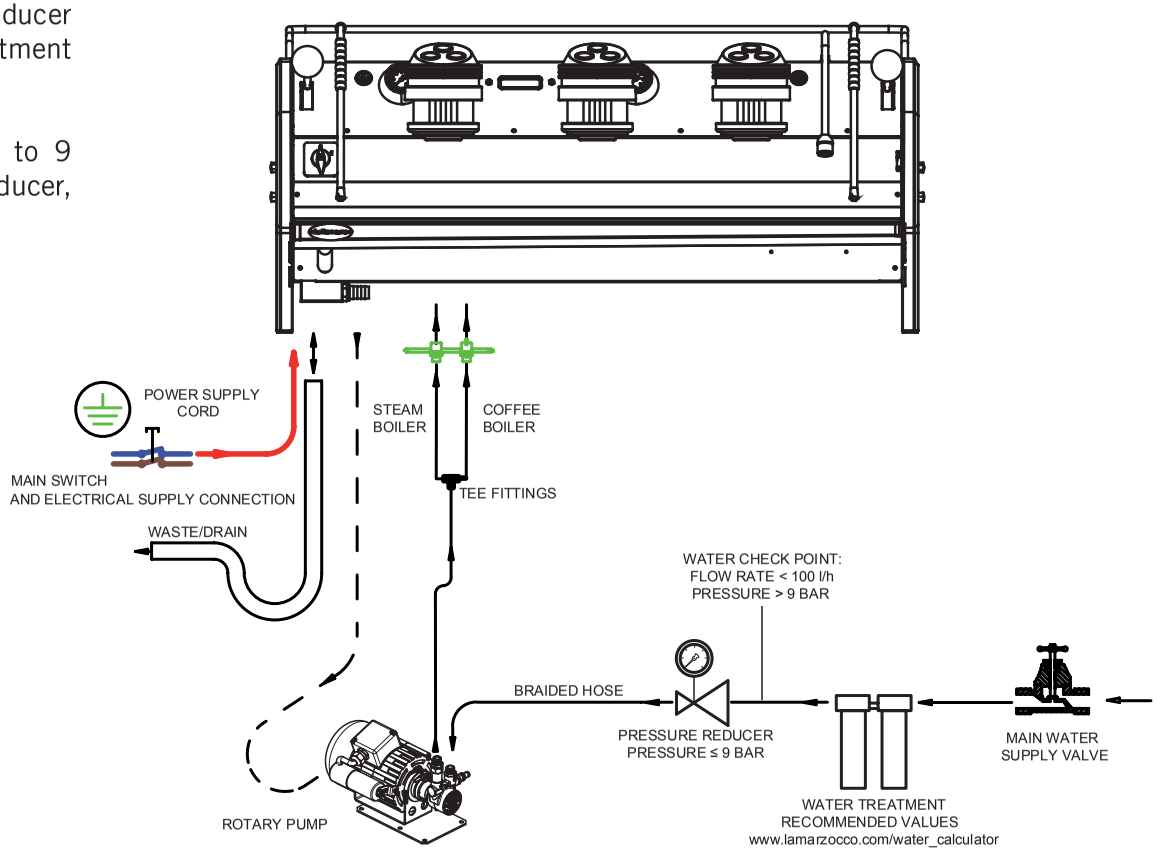



**Fig. 4 - Installation guide - type 2**

## 2) Accessories

Check the package to make sure that the following accessories are included:

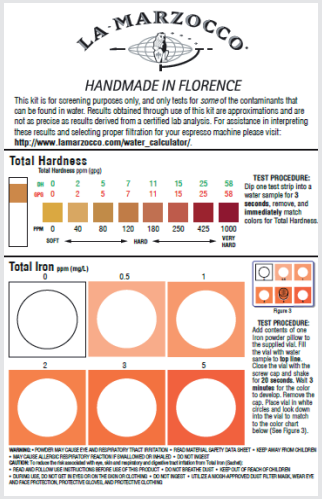
- a number of 1-dose and 2-dose portafilters orresponding to the number of groups;
- replacement 1-dose and 2-dose filters (one of each);
- 1 tamper;
- 1 blind filter;
- cleaning detergent, for the groups;
- 3 stainless steel braided hoses for water connections;
- 1,5 mt of reinforced plastic tubing for drainage;
- 1 hose clamp;
- 1 TEE Fitting.

In order to proceed with installation, it is necessary that the following are available:

- Pipes carrying drinking water with a 3/8"G (BSP) end connection; (3/8" Compression for USA and Canada)
- Electrical Supply according to the specification of the espresso machine purchased:
- Single/Three phase 220VAC - 50/60 Hz electrical connection with ground, protected socket and approved interlock switch
- Single phase 200VAC - 50/60 Hz electrical connection with ground, protected socket and approved interlock switch
- Three-phase, 380VAC - 50 Hz electrical connection with neutral + ground, near the bench on which the machine is installed and terminating in a suitable protected fivepole socket equipped with an approved interlock switch
- Waste water drain system.

## 3) Water test kit

In order to enable you to check if your water supply is within the suggested ranges, La Marzocco machines will be equipped with two units of a quick water test kit (see image below) including 6 test-strips and instruction cards.



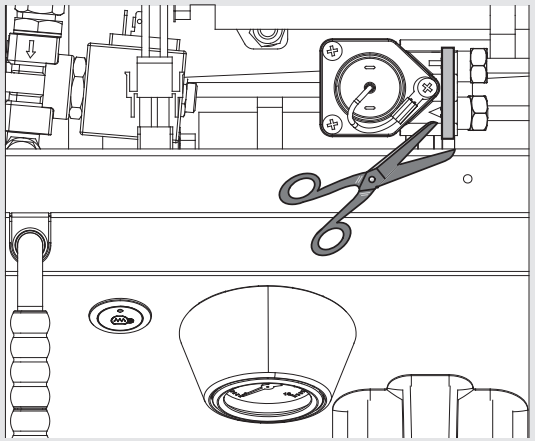

The parameters that you can measure are Total Hardness, Total Iron, Free Chlorine, Total Chlorine, pH & Total Alkalinity, Chlorides.

Ideally, you should perform a test on the water BEFORE the water treatment system and again AFTER the water system in order to verify if this is actually matching our suggested ranges.

Once the test has been performed, learn which treatment system is most appropriate for your particular water supply by filling out the online water calculator on our website: LA MARZOCCO WATER CALCULATOR (http://www.lamarzocco.com/water_calculator/).

## 4) Flowmeter safety removal

Before switch on, remove the clamp from the flowmeter located inside the machine, as indicated by the adhesive label applied on the main switch. Also remove the label from the main switch.



**5) Water supply connection**

In order to connect the machine up to the water mains proceed according to the indications given in the chapter about Installation and in compliance with any local/national safety standards of the location in which the machine is being installed.

To guarantee a correct and safe functioning of the machine and to maintain an adequate performance level and a high quality of the beverages being brewed it is important that the incoming water be of a hardness greater than 7°f (70ppm, 4°d) and less than 10°f (100ppm, 6°d), pH should be between 6.5 and 8.5 and the quantity of chlorides be less than 50mg/l . Respecting these values allows the machine to operate at maximum efficiency. If these parameters are not present, a specific filtration device should be installed, while always adhering to the local national standards in place regarding potable water.

Then connect the inlet of the water filter/softener (if present) to the drinking water supply using one of the supplied stainless steel braided hoses. Before connecting the filter to the water pump, flush the water supply line and the filtration system in order to eliminate any residual particles which could otherwise get stuck in taps or valves thus preventing them from working properly. Connect the water supply connection of the espresso machine to the water pump outlet using one of the supplied stainless steel braided hoses. Then connect the water pump inlet to the water filter/softener outlet (if present).

**Note:** The water pump is a differential pressure volumetric pump and has been designed to be used exclusively with cold water. Make sure that water is always present while the pump is operating, otherwise air can be introduced into the brew boiler causing an undesireable condition and the pump can be damaged.

**6) Electrical connections**

**a) Power supply cord**

• This is the main power supply cable that provides power to the entire espresso machine. There are different types of cable based upon the electrical requirements of the espresso machine purchased:

• 200/220VAC 1 Phase 3-core cable with 4/6/10mm2 cross section or AWG 12/10/8 for 2,3 4 group versions, secured to espresso machine via a strain relief connector

• 220VAC 3 Phase 4-core cable with 4 mm2 cross section for 2 , 3 and 4 group versions, secured to espresso machine via a strain relief connector

• 380 VAC 3 Phase 5-core cable with 2.5mm2 cross section for 2, 3 and 4 group versions, secured to espresso machine via a strain relief connector.

**b) Water pump motor power cord**

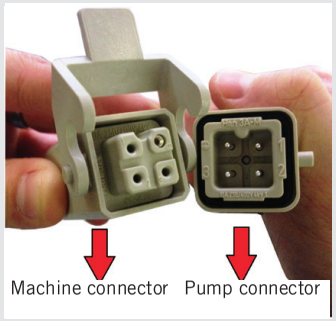
This is the power supply for the water pump motor. The internal electronics will switch the pump motor on when needed.

• 3-core cable with 1.5 mm2 cross section or 3-core AWG 16 (for UL version) secured to espresso machine via a strain relief connector.

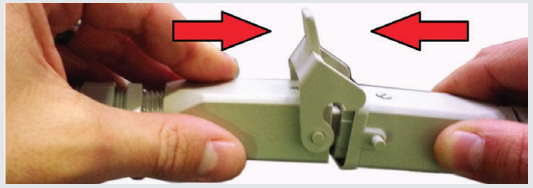
**c) Quick connection between the water pump and the espresso coffee machine**

The electrical connection must be made through the use of the connectors, as shown in the following figures:

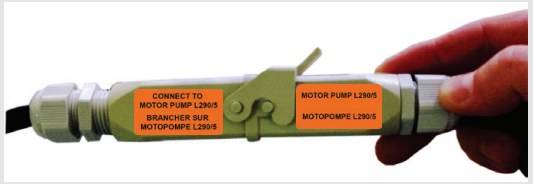
- View of the connectors;



- Cable connection;



- Cable tightening;




**7) Waste water drain connection**

The espresso machine drain is to be connected by means of the included reinforced plastic tubing. Connect one end of the reinforced plastic tubing to the drain hose connection on the left side of the espresso machine, secure with included hose clamp. Connect the other end to a suitable waste water collection system.
In case such a system is not available, drained liquids may be collected in a suitable bucket and any necessary drain pipe extensions shall be made using steel-lined PVC tubing and suitable hose clamps.

**Water specifications table**

| | | Min. | Max. |
|---|---|---|---|
| T.D.S. | ppm | 90 | 150 |
| Total Hardness | ppm | 70 | 100 |
| Total Iron ($Fe^{+2}/Fe^{+3}$) | ppm | 0 | 0,02 |
| Free Chlorine ($Cl_2$) | ppm | 0 | 0,05 |
| Total Chlorine ($Cl_2$) | ppm | 0 | 0,1 |
| pH | value | 6,5 | 8,5 |
| Alkalinity | ppm | 40 | 80 |
| Chloride ($Cl^-$) | ppm | not more | 50 |

**N.B.:** Test water quality (the warranty is void if water parameters are not within the range specified in the section “installation”)

**⚠ CAUTION ⚠**

**Never remove the filter holder when water is being delivered. This operation can be extremely dangerous since the high pressure built-up inside the blind filter would spray out hot and slightly caustic water, which may cause severe burns. The Coffee Boiler contains water at elevated temperature. Water temperature over 125°F / 52°C can cause severe burns instantly or death from scalding.**

**⚠ WARNING ⚠**

**The machine must not be dipped in, nor splashed with, water in order to clean it. For cleaning operations, please follow the instructions listed below very carefully.**

**⚠ WARNING ⚠**

**This machine is designed only for preparing coffee and hot drinks.**

**IMPORTANT**

To improve the flavor of the espresso, the temperature of the water in the coffee boiler and therefore of the groups may eventually be raised or lowered via the digital display (please consult the Software Programming Manual for detailed instructions).

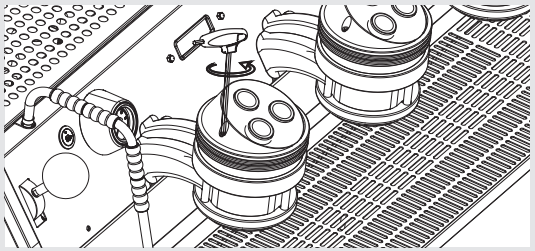
**1) Starting the espresso machine**

**a) Filling the boilers with water**

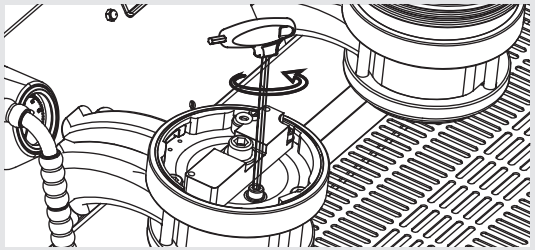
Once the installation procedures have been completed, it is necessary to fill the boiler tanks with water. Complete the following procedure to properly fill the boiler tanks:

- **Coffee boiler**

The water flows inside the coffee boiler directly, as soon as the water system and purifier taps (if present) are opened.
Since the inflow of water will compress the air in the boiler, it will be necessary to remove or "bleed" the air from the coffee boilers. All air must be removed in order to completely "saturate" the coffee boiler/group assemblies.
To remove the air from the boiler, or "bleed the groups", it will be necessary to remove the plastic keypad from the top of the group.



Loosen the bleed screws one at a time to allow air to escape until water flows from below the screw head. Tighten the screw to stop the water from flowing. Over tightening can cause damage to the sealing washer and the group cover. Repeat this procedure on all groups.

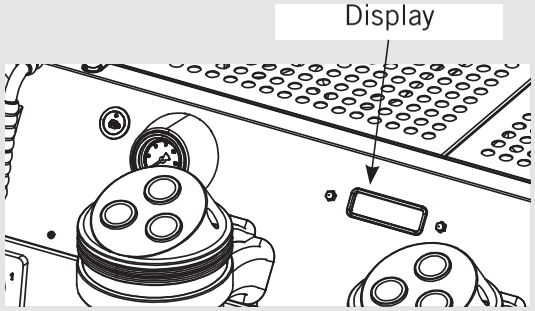


- **Steam boiler**

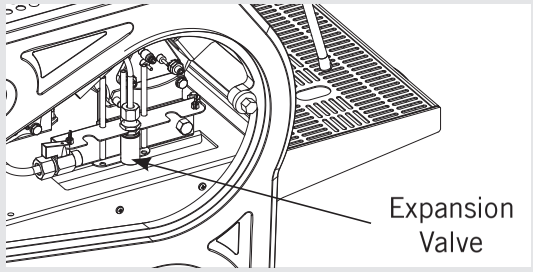
Turn the main switch to position "1" or ON, the automatic steam boiler level gauge

will be switched on, activating the auto-fill solenoid valve and the motor pump. This will fill the steam boiler to a predetermined level and will shut off when full.

**Note:** Air inside the steam boiler may build up pressure (which may be detected through the pressure gauge).
Once the pump stops, check the display, the message "Coffee Boiler Filled?" should be displayed. Press to confirm that the preceding procedures are complete.
The installation is now complete and the espresso machine should be heating to operating temperatures.




**2) Waiting for the Espresso Machine to Heat to Operating Temperature**
During this time, it may happen that the pointer of the coffee boiler pressure reaches as high as 14-15 bar. This may happen anytime that the heating element is in the "on" condition. In this case, it is necessary to adjust the expansion valve (see the picture below about the three coffee boiler expasion valves) in such a way that the pressure never exceeds 13.5bar.




In normal operating conditions, the coffee boiler pressure transducer, while brewing, can read anywhere from 0-12 bar when brewing.
When the steam boiler reaches operating temperature, the light on the Tea dispense button will switch on.

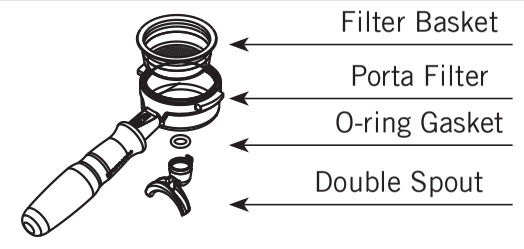
**3) Brewing after first installation**
Once the first installation procedures are finished, before proceeding with brewing coffee, hot water and steam, please follow these steps:

- Engage the portafilters by inserting them into each group, brew water through each group for at least two minutes.
- Being careful to avoid burns, turn on each steam wand for at least one minute.
- Turn on the hot water valve for the time necessary to allow the following quantities of water to be brewed:

- At least 1 liter for a 1/2 group machine
- At least 2 liters for a 3 group machine

**4) Installing the portafilters**
Install the portafilter(s) by inserting them into the group and rotate the handle from left to right. When the portafilters are inserted properly, you can press any of brew buttons to start the flow of water through the portafilter. You should allow hot water to pass through the empty portafilter(s) for a few seconds each time, in order to preheat the portafilter.

**Note:** It is important to leave the portafilters installed in the espresso machine when not in use. The portafilter must remain heated for the brew process to function correctly.




**5) Brewing coffee**

Now you can brew an espresso. Disengage one of the portafilters, fill the filter with ground coffee, tamp the ground coffee with the tamper supplied (exerting a force of 20 kg) and re-engage the portafilter to the group. Press a button on the keypad to begin the brewing process.

**Note:** Some baristas believe it is important to press the brewing button prior to installing the portafilter to allow the water to flush any remaining coffee oils and particles from the group. Some also flush just after brewing coffee for the same reason. Please experiment to find the best possible procedure for you.

**6) Water pump**

Whenever you are brewing coffee, and you can adjust the pump pressure by turning the by-pass screw (below the plug located on the side to which the pump power supply is connected) clockwise to increase and counter-clockwise to reduce pressure. Adjust pressure only when at least one group is brewing coffee.

**Note:** When the heating element in the coffee boiler is energized, the water will expand increasing the start-up pressure. Once the maximum pressure is reached, the expansion (safety) valve should start working by discharging a few drops of water, in order to prevent such pressure from exceeding 11-12 bar.

In case the pressure exceeds 12 bar, you must adjust the expansion valve by unscrewing the cap slightly. If this is not sufficient, remove the valve and clear away any calcium deposits. This remedy is valid also in case the valve remains open in the drain position (i.e. the pressure cannot increase to 8 bar approx.).

**7) General notes for coffee preparation**

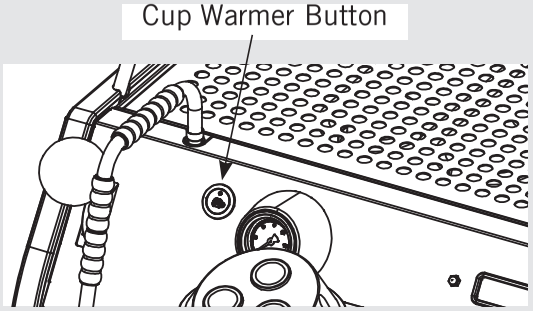
The portafilters must remain heated since they are at the lowest position of the group itself, and they are partially isolated due to the rubber gasket between them. This can be accomplished by leaving the portafilters installed in the machine when not in use. The portafilters may also be actively heated. This procedure may be carried out by brewing some hot water through the portafilter then turning off the water flow, before making coffee.

It is important to remember that coffee left over in the filters must be removed only when you need to prepare another cup, and only at that time should you place a new dose of ground coffee in the filter.

The size of the coffee granules is extremely important in preparing a good cup of coffee, other than the type of coffee mix used, quite obviously. The ideal grinding can be determined by making various coffees using the amount of ground coffee that you would normally use for each cup (we recommend at least 6-7g). The best grinding is that which allows coffee to flow out from the filter holder spouts neither too slowly (drop by drop) nor too quickly (quick light brown flow). A general rule is that a double dose should dispense approximately 25cc or 2 fluid oz. of espresso in approximately 25 seconds.

**8) Cup Warmer**

Press Cup Warmer Button for enabled or disabled the cup warmer. This function work in two modes continuous or timed (see the Software Programming Manual for further instructions).



## 5. Dispensing Steam and Hot Water

**1) Steaming milk or other liquids**

In order to allow for any condensed water in the wand to be released ALWAYS allow some steam to be discharged by turning on the valve before inserting the steam wand into the pitcher of liquid to be heated.

Dip one of the 2 steam wands (part 8, page 7) which are connected to the steam valve, into the liquid to be heated, turn the steam knob gradually until steam comes out at the end of the wand.

The steam will transfer heat to the liquid raising its temperature up to boiling point. Be careful not to allow liquid to overflow in order to avoid severe burns.

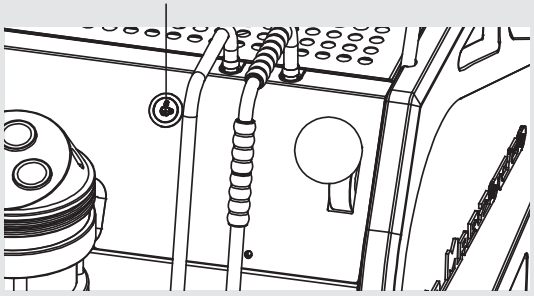
In order to prevent the heated liquid from being sucked back into the steam boiler it is recommended before using the wand that you purge the steam valve and steam wand by opening the valve for a few seconds to allow steam to escape to the atmosphere from the end of the steam wand. Failure to do so can cause the heated liquid to transfer from the heated liquid container to the steam boiler (via vacuum created from cooling parts). This condition is undesireable and can cause contamination in the steam boiler. After use remember to purge the wand by opening the steam valve for a few seconds, and then clean the outside of the wand itself with an appropriate cloth.

In order to prepare milk for making cappuccino with the right amount of foam, go through the following steps:

• After purging the steam wand place the container half-full of milk underneath, carefully open the steam valve and raise the container so as to bring the wand end to a point just below the surface of the milk; at this point, move the container up and down just enough to dip the nozzle end in and out of the milk until you get the right amount of foam, bring the temperature of the milk almost up to 149/158°F or 65/70°C. You can then pour this milk into a cup containing warm espresso and you will end up with a fresh cup of cappuccino.

**2) Preparing tea and other hot drinks.**

**TE'**



You may dispense hot water by using the fixed nozzle (part 6, page 7). To dispense hot water, press the tea water button.

This button commands hot water delivery. The temperature of the water may be adjusted by adjusting the mixing valve.

**⚠ WARNING ⚠**

If the above-mentioned instructions are not adhered to the manufacturer cannot be held responsible for damage to persons or things.

**⚠ WARNING ⚠**

In order to prevent cracks or leakage: do not store or install the coffee machine in places where temperature may cause water in boiler or hydraulic system to freeze.

**⚠ WARNING ⚠**

The machine is intended to be permanently connected to fixed wiring, and it is advisable that a residual current device (RCD) with a rated residual operating current not exceeding 30mA is installed.

**⚠ WARNING ⚠**

The machine must be installed so that qualified technical presonnel can easily access it for eventual maintenance.

**⚠ WARNING ⚠**

The machine must not be dipped in, nor splashed with, water in order to clean it. For cleaning operations, please follow the instructions listed below very carefully.

**⚠ WARNING ⚠**

Do not remove the filter holder while relative group is brewing hot liquids.
The Coffee Boiler contains water at elevated temperature. Water temperature over 125°F / 52°C can cause severe burns instantly or death from scalding.

**⚠ WARNING ⚠**

This machine is for professional use only and should be installed in locations where its use and maintenance is restriced to trained personnel.

**⚠ WARNING ⚠**

Jets of water should not be used to clean the machine, nor should it be placed where water jets are used.

**1) Cleaning groups and drain wells**

- Put a tablespoon of detergent powder for coffee machines into the blind filter, supplied with the machine, and tighten it onto the group you want to clean by using a normal filter holder.
- Turn the Paddle Valve on and off approximately 10 times (10 seconds intervals) on each group.
- Rinse the group using a normal filter by running hot water through it several times.

**2) Cleaning filters**

- Put 2 or 3 teaspoons of detergent powder for coffee machines in about 1/2 a litre

of water inside a heat-resistant container and boil.
- Dip filters in the boiled solution and leave them fully submerged for about 30 minutes.
- Rinse thoroughly with clean water and run hot water through one group several times with the filters in place.
- Make one cup of coffee and discard in order to remove any unpleasant flavor.

**3) Cleaning filter holders (portafilters)**

Using the proper cleaning tool (brush) wash the filter holders under hot water, a neutral detergent may also be used.For extraordinary cleaning see the Portafilter Manual.

**4) Cleaning the drain collector**

Remove the drain tray grill at least twice a week and clean, pull out the water drain collector and clean it thoroughly. Inspect and clean also the drain box and remove any leftover grounds.

**5) Cleaning the body**

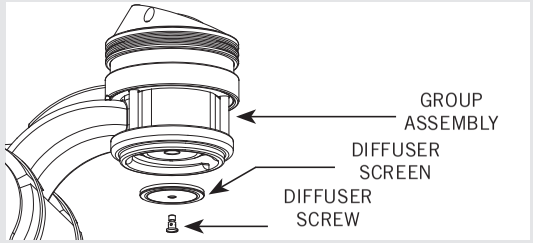
Wipe the stainless steel surfaces with a soft, non abrasive cloth in the direction of the glazing marks, if any. Do not use any alcohol or solvents whatsoever on painted or imprinted parts in order not to damage them.

**6) Cleaning the hot water and steam nozzles**

Steam nozzles must be cleaned immediately after use with a damp cloth and by producing a short burst of steam so as to prevent the formation of deposits inside the nozzles themselves, which may alter the flavor of other drinks to be heated. Hot water nozzles must be cleaned periodically with a damp cloth.

**7) Cleaning the diffuser screen**

- Due to filter holder discharge operations (subsequent to coffee brewing), a certain amount of coffee grounds may slowly build-up on and obstruct, even partially, the diffuser screen. To clean it, you must first remove it by unscrewing the diffuser screw.




- Put 2 or 3 teaspoons of cleaning detergent for coffee machines in about 1/2 a litre of water inside a heat-resistant container and boil.
- Place the diffuser screen(s) and diffuser screw(s) in the solution and leave them fully submerged for about 30 minutes. Rinse thoroughly with clean water. Install and run hot water through each group several times with the screen installed.

**8) Water Filter/Softener**

Please see the documentation accompanying the water filter/softener for proper operating and cleaning instructions.

**9) Depressurize the steam boiler**

Press and hold the encoder knob to set the espresso machine to “OFF”, then push down the steam lever in order to depressurize the steam boiler.

**IMPORTANT**

If the machine has not been used for more than 8 hours or, in any case, after long periods of being idle, in order to use the machine to its full potential it is necessary to perform some cleaning cycles before brewing beverages as follows:
- Groups: with the portafilters engaged in the groups brew water through each for at least two minutes
- Being careful to avoid burns, turn on each steam wand for at least one minute.
- Turn on the hot water valve for the time necessary to allow the following quantities of water to be brewed:

  At least 1 liter for a 1/2 group machine
  At least 2 liters for a 3 group machine

If the machine is not going to be used for long periods of time, it is advisable to follow these safety indications:
- Disconnect the machine from the water mains or interrupt the water connection via a mains tap.
- Disconnect the machine from the electrical mains.

# 7. De-commissioning and Demolition

**1) De-commissioning and demolition**

Start by setting the main switch to the “0” or OFF position.

**Disconnecting from the power outlet**
Disconnect the espresso machine from the electrical network by switching off the associated circuit breaker or circuit protection device. Remove the power supply cord from the power connection. Remove the Pump Motor Power Cord from the water pump motor.

**Disconnecting from the water system**
Shut off the water supply by closing the specific tap located upstream of the water filter/softener inlet. Disconnect the water pipe at the water filter/softener inlet. Remove the hose connecting the espresso machine to the water pump. Remove the reinforced plastic tubing on the drain connection.

At this point, the machine may be removed from the bar, being very careful not to drop it or squash your fingers.

The machine is made out of various materials and therefore, if you do not intend to put it back in service, it must be taken to a special disposal company which will select the materials which can be recycled and discard the others.

Current regulations make it illegal to discard such machine by leaving it on public grounds or on any private property.

**Recycling notice: Warning for the protection of the environment.**
Used Electrical and electronic waste contains hazardous but also valuable and scarce materials which should be recovered and recycled properly. We kindly ask that you contribute to the protection of the environment and natural resources by delivering used equipment to the relevant recycling locations if such locations are available in your country.

## 8. Mandatory Maintenance and Check-up Operations

These operations are in addition to the Maintenance and Periodic Cleaning Operations as specified in Chapter 6.

The following maintenance and check-up operations sould be carried out by a qualified technician.
The time required for the periodic maintenance is determinated by the quantity of daily work and/or coffee consumption.

**N.B. These periodic maintenance operations are not covered by warranty.**

**EVERY THREE/FOUR MONTHS**

- Replace group gaskets
- Replace diffuser screens
- Clean auto-fill probe
- Check vacuum breaker for proper operation
- Inspect water inlet valve
- Inspect drain system for leaks or clogs
- Check flow rate for each group
- Check brew temperature
- Check that brew pressure is at 9bar
- Check all switches for proper operation
- Check/note water hardness (Water quality must be within the range of parameters specified in the chapter on Installation, otherwise warranty is voided)
- Check filter basket condition
- Check shot volumes
- Test flowmeter's ohm value (ohm value is acceptable if greater than 1.8 K ohm, and less than 2.2 K ohm)

**EVERY YEAR (in addition to the above)**

- Replace portafilter baskets
- Inspect group valve plungers
- Inspect vacuum breaker
- Inspect expansion valve
- Inspect electrical wiring condition
- Inspect boilers safety switches
- Inspect electrical wiring condition
- Replace over-pressure valve (safety valve)
- Accurate control of the tightness at 2,4Nm of each cable on the terminal block.

**EVERY 3 YEARS (in addition to the above)**

- Check the condition of the inside of boilers and if necessary rinse out with a proper cleaning product allowed for food and beverage appliances.

## 9. Software Programming Guide


Programming Introduction

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Shut Down Procedures page 30

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Cleaning Cycles page 32

**“Barista” Programming**

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**“Technical” Programming**

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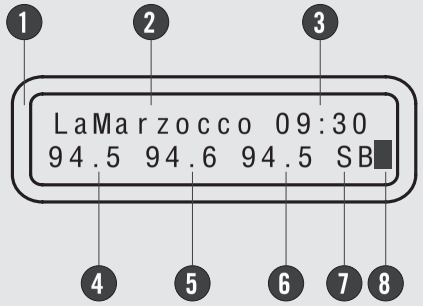
Description

- This espresso machine has a CPU and many configurable settings.
- Additionally, there are many feedback controls employed in this espresso machine to troubleshoot problems should they occur.
- The following is a brief introduction to the controls and display and how they interact with the operator.

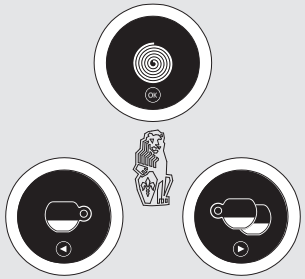
## Digital Display




1. Digital display
2. Name
3. Daily timetable
4. 1st group coffee boiler temperature
5. 2nd group coffee boiler temperature
6. 3rd group coffee boiler temperature
7. Steam Boiler
8. Heating indicator (on during heating, off when the temperature has been reached)

The digital display is a backlit display capable of displaying 2 lines of 16 characters. The display enables the operator to interact with the espresso machine to visibly change parameter values. The display also provides valuable information to the operator.
There are several warnings that the can be displayed to alert the operator of an unusual condition or a fault. Additionally, simple messages are displayed alerting the operator that an action has been started or that a process needs to begin.

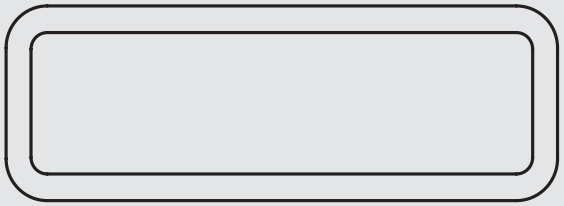
## Programming Keypad



The keypad has two functions. The first is for control of the espresso. The second is for programming individual software parameters. The programming of the individual parameters is possible only using the buttons in the group 1 (group starting from the left).

| Button | Description |
|---|---|
| | This button is used to control the brewing of the single espresso. It is also used in the programming of the individual parameters such as the “back” button in the menu.<br><br>For simplicity's sake in this manual it will be represented by this symbol with the name **T1**. |
| | This button is used to control the brewing of the double espresso. It is also used in the programming of the individual parameters such as the “forward” button in the menu.<br><br>For simplicity's sake in this manual it will be represented by this symbol with the name **T2**. |
| | This button is used for a continuous control of the brewing of the espresso. It is also used in the programming of the individual parameters such as the “enter” button in the menu.<br><br>For simplicity's sake in this manual it will be represented by this symbol with the name **T3**. |

# Turning the Espresso Machine On



## Description

The following is the procedure for turning on the power to the espresso machine.

- Please follow the procedures carefully to avoid any damage to the espresso machine.
- Proceed checking for water connection to the espresso machine.
- Proceed making sure you have filled the boilers.

| Display | Operating Procedure |
|---|---|
| | **1** Turn the Main Switch to the 1 position. |
| SB FILLED? | **2** To continue with the start up process, press the T3 button after filling the steam boiler. |
| GROUPS BLED? | **3** To continue with the start up process, press the T3 button after the saturation of the coffee boiler. |
| LaMarzocco 00:00<br>CB□ 93.8°C SB□ | **4** The rectangles next to CB and SB indicate the warming up of the water contained in the boilers. When the set temperature is reached, these rectangles turn off and all the lights of the buttons turn on. Now the machine is ready for use. During the normal operation of the machine, the flashing of the rectangles indicates the intermittent heating necessary for maintaining the temperature. |

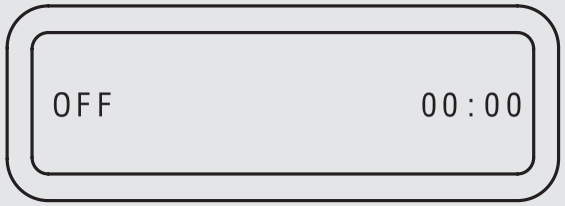
**NOTE:** Ensure all air is removed from the group prior to staring the espresso machine.
This only needs to be completed once during the initial setup or when water is drained from the coffee boiler.
Instructions for bleeding the groups of air can be found in the Installation Guide.

**WARNING**

**HAZARDOUS VOLTAGE DISCONNECT FROM POWER SUPPLY BEFORE SERVICING**

## Shut Down Procedures

### Turning the Espresso Machine Off



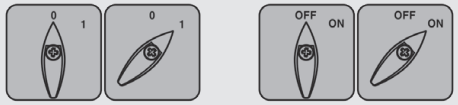

#### Description

The following is the procedure for turning off power to the espresso machine.

• Please follow the procedures carefully to avoid any damage to the espresso machine.

• This machine has two off settings. One setting turns off all of the components in the espresso machine and the other turns off power to the complete espresso machine.

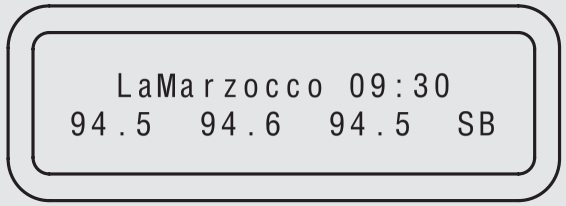
| Display | Operating Procedure |
|---|---|
| | **1** The following is the procedure for safely turning off the espresso machine. |
| LaMarzocco 09:30<br>94.5 94.6 94.5 SB | **2** Press and hold the buttons T2 and T3 at the same time. The display changes to the following: |
| OFF 00:00 | **3** This is the OFF setting used in the normal operating conditions. |
| | **4** During servicing or other conditions that warrant it, the main switch should be turned to the 0 position. The espresso machine is off and display should be blank. It is important to follow this procedure when turning off the machine. Failure to do so can damage the electronics. |




**WARNING**

**HAZARDOUS VOLTAGE DISCONNECT FROM POWER SUPPLY BEFORE SERVICING**

## Programming Mode



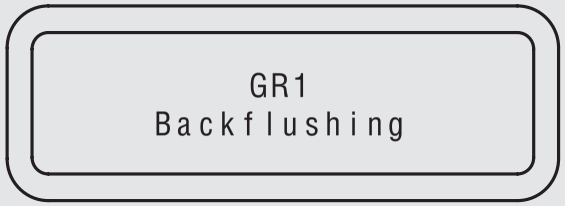

### Description

- To change the values of any parameter the operator must first enter into the programming mode.
- There are two levels within the programming mode that allow the programming of specific parameters.
- The two programming levels are as follows:
- Barista Programming - The parameters contained within this level are ones the operator can change to affect the quality of the espresso.
  No password is required for access.
- Technical Programming - The parameters contained within this level are ones the operator can change to affect the performance of the espresso machine. These parameters are set in the factory and their adjustment requires the intervention of a service technician La Marzocco reccomends that no changes are made at this level. The Technician Password is required for access.

| Display | Operating Procedure |
|---|---|
| | **"Barista" Programming Level** |
| LaMarzocco 09:30<br>94.5 94.6 94.5 SB | **1** While the espresso machine is on, press and hold the button T3 . After approximately 5 seconds the following display appears. |
| Program<br>Dose | **2** This is the "Barista" programming level. To program the brewing amount for each button, to set the coffee boilers, the pre-infusion, and to enable/disable the resistance of the cup warmer if present. |
| Press Enter<br>To Exit | **3** To exit the programming mode, scroll to the exit menu, using the buttons T1 or T2 . Press the T3 button to confirm the exit, or press at the same time the buttons T2 and T3. |
| | **"Technical" Programming Level** |
| LaMarzocco 00:00<br>CB 93.8°C SB | **1** While the espresso machine is on, press and hold the button T3 . After approximately 10 seconds the following display appears. |
| Enter Password | **2** This is the "Technical" programming level. Enter the password and press the buttons and T2 to move between the available parameters, press the T3 button to confirm.<br><br>**Note:** You must scroll to the exit menu to exit the programming mode, or press at the same time the buttons T2 and T3. |

## Cleaning Cycles

### Cleaning Cycles




**Description**

- This parameter allows the operator to carry out the washing of the coffee groups, in an automatic way, by running multiple cleaning cycles.
- This espresso machine has a group rinsing function (rinsing jets) integrated in the electronics.
- The rinsing procedure is provided to give the operator more flexibility and freedom with regard to this operation.

| Display | Operating Procedure |
|---|---|
| GR1<br>Backflushing | **1** When the espresso machine is on, to enable the washing procedure press and hold at the same time the buttons T1 and T3 .<br>This activates the washing procedure of each group.<br>**2** When activated, the water pump comes into operation, and the electric valve of the specific group being washed will turn on and off the cycle. There are about 10 preset cycles with an interval of 4 seconds. To manually stop the rinsing, press any key.<br>**NOTE:** In order to properly rinse the groups, put a small amount of detergent in a blind portafilter basket and insert it in the group to be rinsed before activating the rinsing process. |

**⚠ WARNING ⚠**

**MOST DETERGENTS CAUSE FOAMING DURING THE CLEANING PROCESS. THIS FOAM COLLECTS AT THE DRAIN BOX AND CAN PROHIBIT WASTE WATER FROM DRAINING PROPERLY. RINSE ONLY ONE GROUP AT A TIME. RINSING MULTIPLE GROUPS SIMULTANEOUSLY COULD CAUSE THE DRAIN BOX TO OVERFLOW.**

## Program Dose

### Description

- This parameter allows the operator to program the amount of coffee (brewing amount) for each button on the keyboard.
- The brewing amount can be set in terms of time (sec. ) or pulses. This number refers to the number of pulses that the flowmeter sends to the CPU.
- Once programmed, the button remains lighted.
- It is possible to set the dose for both a short and a long shot on the same key.
- The setting of the first group is automatically copied to the subsequent groups.
- It is possible to set each key individually, in this case the dose of the first group will no longer be used.
- It is possible to copy the doses of any key to the others.

| Display | Operating Procedure |
|---|---|
| LaMarzocco 09:30<br>94.5 94.6 94.5 SB | **1** When the espresso machine is turned on, press and hold the T3 button to access the “Barista” programming. After about 5 seconds the following screen is displayed. |
| Group Dose<br>Settings | **2** Press the T3 button to enter the doses programming procedure. |
| Program<br>Volume Dose | **3** Press the T3 button to start the doses programming procedure. |
| Press Enter<br>To Exit<br>Push To Stop<br>20 Pulses 1s<br>G1B1 Saved<br>20 Pulses | **4** On each button you can set two doses, one for a short shot, one for a long shot.<br>To set the brewing time of a short shot, press and release the button immediately, press again to stop and store the desired dose.<br>To set the brewing time of a long shot, press and hold the button for about 2 seconds, press and release the button immediately to store the desired dose.<br>The two doses of each key can be set independently from one another.<br>If one of the two doses is not set or does not refer to the corresponding dose of the first group, it will work as continuous dose. |

## Program Dose

### Description

- This parameter allows the operator to program the amount of coffee (brewing amount) for each button on the keyboard.
- The brewing amount can be set in terms of time (sec. ) or pulses. This number refers to the number of pulses that the flowmeter sends to the CPU.
- Once programmed, the button remains lighted.
- It is possible to set the dose for both a short and a long shot on the same key.
- The setting of the first group is automatically copied to the subsequent groups.
- It is possible to set each key individually, in this case the dose of the first group will no longer be used.
- It is possible to copy the doses of any key to the others.

| Display | Operating Procedure |
|---|---|
| Press Enter To Exit | **5** Press the T3 button to return to the doses programming. |
| Group Dose Exit | **6** Press T1 or T2 until the display shows the exit menu, press the T3 button to return to the “Barista” programming. |
| | **7** Press T1 or T2 to continue with the programming of the other parameters. |
| LaMarzocco 09:30 94.5 94.6 94.5 SB | **8** Press T2 and T3 at the same time to exit the programming mode and return to the normal use of the espresso machine. |

## Program Dose

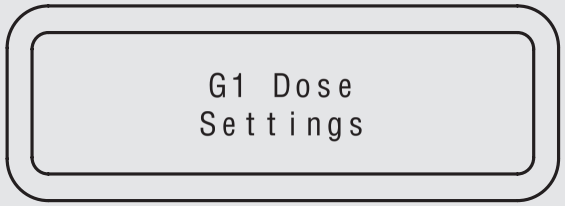
### Description

- This parameter allows the operator to view and manually change each dose for each key.
- For greater accuracy and consistency of the doses, it is recommended that you set each key.

| Display | Operating Procedure |
|---|---|
| LaMarzocco 09:30<br>94.5 94.6 94.5 SB | **1** When the espresso machine is turned on, press and hold the T3 button to access the “Barista” programming. After about 5 seconds the following screen is displayed. |
| Group Dose<br>Settings | **2** Press the T3 button to enter the doses programming procedure. |
| Program<br>Volume Dose | **3** Press the button T1 or T2 to display the following menu. |
| G1 Dose<br>Settings | **4** Press the button T3 view and/or change the dose of each key. |
| G1B1 Dose<br>263 Pulses<br>G1B1 Long Dose<br>363 Pulses<br>G1B1 Dose<br>Continuous<br>G1B1 Dose<br>Use Group 1 | **5** Press the button T1 or T2 to view the dose of each key. Pressing the button T3, the dose value will blink. Use the button T1 or T2 to change the value, press the button T3 to confirm the desired value.<br>It is possible to set the value of the pulses to zero to choose a continuous dose. |

## “Barista” Programming

### Program Dose

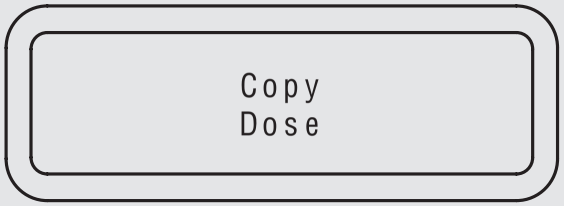



**Description**

- This parameter allows the operator to view and manually change each dose for each key.
- For greater accuracy and consistency of the doses, it is recommended that you set each key.

| Display | Operating Procedure |
|---|---|
| | Except for the first group, you can set the function USE GROUP 1 for each key.<br>This option allows to use the corresponding dose of the first group instead of setting it.<br>The setting of the first group is automatically copied to the subsequent groups. |
| Exit<br>Group 1 | **6** Press the button T3 to exit the submenu. |
| Group Dose<br>Exit | **7** Press the T3 button to return to the doses programming. |
| | **8** Press T1 or T2 to continue with the programming of the other parameters. |
| LaMarzocco 09:30<br>94.5 94.6 94.5 SB | **9** Press T2 and T3 at the same time to exit the programming mode and return to the normal use of the espresso machine. |

## Program Dose

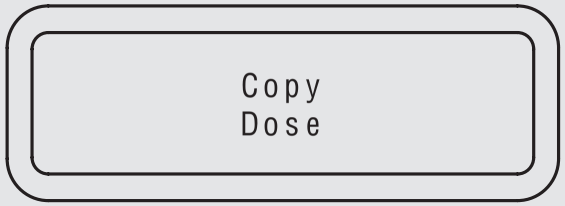



### Description

- This parameter allows the operator to copy the doses present of each key to the others.

| Display | Operating Procedure |
|---|---|
| LaMarzocco 09:30<br>94.5 94.6 94.5 SB | **1** When the espresso machine is turned on, press and hold the T3 button to access the “Barista” programming. After about 5 seconds the following screen is displayed. |
| Group Dose<br>Settings | **2** Press the T3 button to enter the doses programming procedure. |
| Program<br>Volume Dose | **3** Press the button T1 or T2 to display the following menu. |
| Copy<br>Dose | **4** Press the button T3 to start the dose copy procedure. |
| Push Button<br>to Copy | **5** Press the key whose setting you want to copy. Now all the keys will flash. |
| Push to Paste<br>Enter to Exit | **6** Press the key where you want to paste the previously copied setting. Successful programming is indicated by the fixed lighting of the key. It is possible to repeat this procedure on any key. |
| Group Dose<br>Exit | **7** Press T1 or T2 until the display shows the exit menu, press the T3 button to return to the “Barista” programming. |

## Program Dose

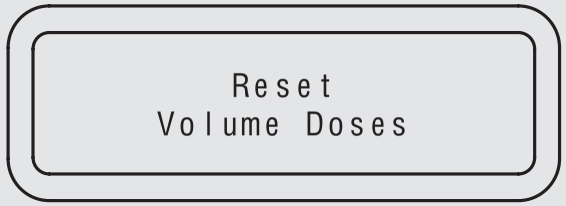



### Description

- This parameter allows the operator to copy the doses present of each key to the others.

| Display | Operating Procedure |
|---|---|
| | **8** Press T1 or T2 to continue with the programming of the other parameters. |
| LaMarzocco 09:30<br>94.5 94.6 94.5 SB | **9** Press T2 and T3 at the same time to exit the programming mode and return to the normal use of the espresso machine. |

## Program Dose

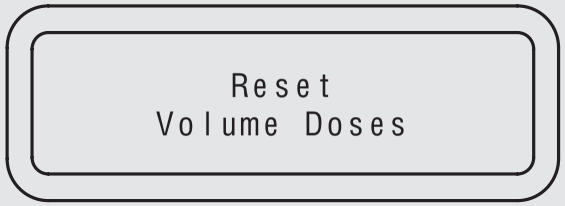



### Description

- This parameter allows the operator to cancel all the doses set.

| Display | Operating Procedure |
|---|---|
| LaMarzocco 09:30<br>94.5 94.6 94.5 SB | **1** When the espresso machine is turned on, press and hold the T3 button to access the “Barista” programming. After about 5 seconds the following screen is displayed. |
| Group Dose<br>Settings | **2** Press the T3 button to enter the doses programming procedure. |
| Program<br>Volume Dose | **3** Press the button T1 or T2 to display the following menu. |
| Reset<br>Volume Doses | **4** Press the button T3 to confirm the procedure. |
| Resetting<br>Doses... | **5** Now all settings are cleared. |
| Group Dose<br>Exit | **6** Press T1 or T2 until the display shows the exit menu, press the T3 button to return to the “Barista” programming. |

## Program Dose




### Description

- This parameter allows the operator to cancel all the doses set.

| Display | Operating Procedure |
|---|---|
| | **7** Press T1 or T2 to continue with the programming of the other parameters. |
| LaMarzocco 09:30<br>94.5 94.6 94.5 SB | **8** Press T2 and T3 at the same time to exit the programming mode and return to the normal use of the espresso machine. |

## Tea Dose

### Description

- This parameter allows the operator to program the amount of water (brewing amount) for the tea button.
- This feature can be enabled or disabled.

| Display | Operating Procedure |
|---|---|
| LaMarzocco 09:30<br>94.5 94.6 94.5 SB | **1** When the espresso machine is turned on, press and hold the T3 button to access the “Barista” programming. After about 5 seconds the following screen is displayed. |
| Program<br>Dose | **2** Move between the parameters using the buttons T1 and T2 until the display shows: |
| Tea<br>Settings | **3** Press the T3 button to enter the menu. |
| Tea Dose<br>ENABLED | **4** Press the T3 button to enter the menu, move between the parameters using the buttons T1 and T2 to select ENABLED or DISABLED , press the T3 button to confirm the option. |
| Program<br>Tea Dose | |
| Press Tea Button<br>To Stop | **5** To program the brewing time, press the tea button to start and then press it again to stop when the desired dose is achieved. |
| Press Tea Button<br>To Program | Now the saved brewing time is displayed. |
| Tea Dose Saved<br>5.0 Seconds | |

## Tea Dose

### Description

- This parameter allows the operator to program the amount of water (brewing amount) for the tea button.
- This feature can be enabled or disabled.

| Display | Operating Procedure |
|---|---|
| Tea Dose<br>Exit | **6** Press the T3 button to return to the “Barista” programming. |
| | **7** Press T1 or T2 to continue with the programming of the other parameters. |
| LaMarzocco 09:30<br>94.5 94.6 94.5 SB | **8** Press T2 and T3 at the same time to exit the programming mode and return to the normal use of the espresso machine. |

## Coffee Boiler

### Description

- This parameter allows the operator to enable/disable the coffee boiler.
- This parameter allows the operator to program the coffee boiler temperature. Each group can have a different programming.

| Display | Operating Procedure |
|---|---|
| LaMarzocco 09:30<br>94.5 94.6 94.5 SB | **1** When the espresso machine is turned on, press and hold the T3 button to access the “Barista” programming. After about 5 seconds the following screen is displayed. |
| Program<br>Dose | **2** Move between the parameters using the buttons T1 and T2 until the display shows: |
| Coffee Boiler<br>Settings | **3** Press the T3 button to enter the menu. |
| Coffee Boiler 1<br>ENABLED | **4** Press the T3 button to enter the menu, move between the parameters using the buttons T1 and T2 to select ENABLED or DISABLED , press the T3 button to confirm the option. In the case of option enabled you can set the following parameters. |
| CB1 Temperature<br>93.1°C 93.3°C | **5** Press the T3 button to enter the menu, move with the buttons T1 and T2 to set the desired temperature, press the T3 button to confirm the value. In the case of espresso machine a multiple boilers you can set the temperature also on the coffee boiler. The temperature indicated on the left is the actual temperature of the group while the temperature on the right is the set temperature. |

## Coffee Boiler

### Description

- This parameter allows the operator to enable/disable the coffee boiler.
- This parameter allows the operator to program the coffee boiler temperature. Each group can have a different programming.

| Display | Operating Procedure |
|---|---|
| CB Settings<br>Exit | **6** To exit the menu move between the parameters using the buttons T1 and T2 until the exit menu is displayed. Press the T3 button to return to the “Barista” programming. |
| | **7** Press T1 or T2 to continue with the programming of the other parameters. |
| LaMarzocco 09:30<br>94.5 94.6 94.5 SB | **8** Press T2 and T3 at the same time to exit the programming mode and return to the normal use of the espresso machine. |

## Pre-Infusion or Pre-Brewing

### Description

- This parameter allows the operator to program the time of pre-brewing of water with the coffee. Each group can have a different programming.
- Pre-brewing has only two values to be adjusted for each group. The time (in seconds) for which the brewing valve is open during the pre-brewing cycle and the time (in seconds) for which the brewing valve is closed during the pre-brewing cycle; during this time the pump is active. Once the pre-brewing cycle is over, the normal brewing cycle will continue until the end.
- For an espresso machine composed of three groups, they are identified as Group 1, Group 2 and Group 3.

| Display | Operating Procedure |
|---|---|
| LaMarzocco 09:30<br>94.5 94.6 94.5 SB | **1** When the espresso machine is turned on, press and hold the T3 button to access the “Barista” programming. After about 5 seconds the following screen is displayed. |
| Program<br>Dose | **2** Move between the parameters using the buttons T1 and T2 until the display shows: |
| Pre-Wet<br>Settings | **3** Press the T3 button to enter the menu. |
| Group 1 Pre-Wet<br>Os Wet Os Hold | **4** Press T1 or T2 to select the group whose parameters you want to set.<br>By pressing the T3 button the first value will blink. Use the buttons T1 and T2 to reach the value that you want to set, press T3 to confirm. Repeat this operation to set the second value. |
| Pre-Wet Settings<br>Exit | **5** To exit the menu move between the parameters using the buttons T1 and T2 until the exit menu is displayed. Press the T3 button to exit the menu. |
| | **6** Press T1 or T2 to continue with the programming of the other parameters. |
| LaMarzocco 09:30<br>94.5 94.6 94.5 SB | **7** Press T2 and T3 at the same time to exit the programming mode and return to the normal use of the espresso machine. |

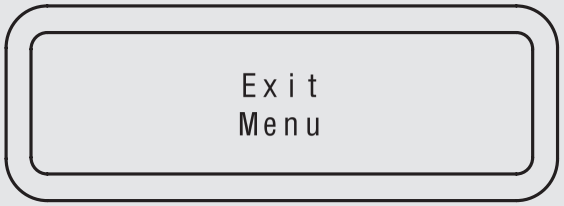
## Cup Warmer

### Description

- This parameter allows the operator to enable or disable the cups heating function.
- This function is displayed only on the models of espresso machine equipped with this accessory.

| Display | Operating Procedure |
|---|---|
| LaMarzocco 09:30<br>94.5 94.6 94.5 SB | **1** When the espresso machine is turned on, press and hold the T3 button. After about 5 seconds the following screen is displayed. |
| Program<br>Dose | **2** Move between the parameters using the buttons T1 and T2 until the display shows: |
| Cup Warmer<br>DISABLED | **3** Press the T3 button to enter the menu, move between the parameters using the buttons T1 and T2 to select ENABLED or DISABLED , press the T3 button to confirm the option. |

## Exit Menu




### Description

- This parameter allows the operator to exit the “Barista” programming and return to the normal use of the espresso machine.

| Display | Operating Procedure |
|---|---|
| Exit<br>Menu | **1** Press the T3 button to exit the “Barista” programming and return to the normal use of the espresso machine. |
| LaMarzocco 09:30<br>94.5 94.6 94.5 SB | **2** Alternatively, you can exit the “Barista” programming and return to the normal use of the espresso machine by pressing T2 and T3 at the same time. |

## “Technical” Programming

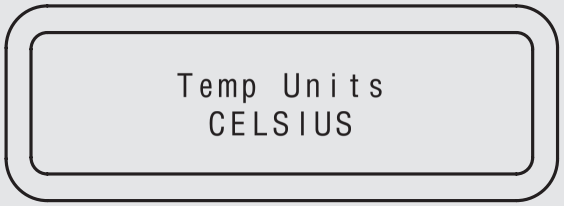
### Language

**Description**

- This parameter allows the technician to change the language of the display.

| Display | Operating Procedure |
|---|---|
| LaMarzocco 09:30<br>94.5 94.6 94.5 SB | **1** When the espresso machine is turned on, press and hold the T3 button. After about 10 seconds the following screen is displayed. |
| Enter Password<br>****** | **2** Enter the technician password using the buttons T1, T2 and T3. After the acceptance, the following screen is displayed. |
| Language<br>ENGLISH | **3** Press the T3 button to enter the menu, move between the parameters using the buttons T1 and T2 to select a language , press the T3 button to confirm the option.<br>**4** Press T1 or T2 to continue with the programming of the other parameters. |
| Exit<br>Menu | **5** To exit the menu move between the parameters using the buttons T1 and T2 until the exit menu is displayed. Press the T3 button to exit the menu and return to the normal use of the espresso machine. |
| LaMarzocco 09:30<br>94.5 94.6 94.5 SB | **6** Alternatively, you can exit the “Technical” programming and return to the normal use of the espresso machine by pressing T2 and T3 at the same time. |

## Temperature Measurement Units




### Description

- This parameter allows the technician to change the temperature display from degrees Celsius to degrees Fahrenheit and vice versa.

| Display | Operating Procedure |
|---|---|
| Enter Password ****** | **1** After accessing the “Technical” programming menu and entering the password, use the buttons T1 and T2 until the following screen is displayed. |
| Temp Units CELSIUS | **2** Press the T3 button to enter the menu, move between the parameters using the buttons T1 and T2 to select an option, press the T3 button to confirm the option. |
| | **3** Press T1 or T2 to continue with the programming of the other parameters. |
| Exit Menu | **4** To exit the menu move between the parameters using the buttons T1 and T2 until the exit menu is displayed. Press the T3 button to exit the menu and return to the normal use of the espresso machine. |
| LaMarzocco 09:30 94.5 94.6 94.5 SB | **5** Alternatively, you can exit the “Technical” programming and return to the normal use of the espresso machine by pressing T2 and T3 at the same time. |

## Name

### Description

- This parameter allows the technician to program a 16 character user name.
- The user name is displayed continuously on the display on the second line.

| Display | Operating Procedure |
|---|---|
| Enter Password ****** | **1** After accessing the “Technical” programming menu and entering the password, use the buttons T1 and T2 until the following screen is displayed. |
| Name LaMarzocco | **2** Press the T3 button to enter the menu, use the buttons T1 and T2 to set the desired value, press the T3 button to confirm the value and proceed with writing. |
| | **3** Press T1 or T2 to continue with the programming of the other parameters. |
| Exit Menu | **4** To exit the menu move between the parameters using the buttons T1 and T2 until the exit menu is displayed. Press the T3 button to exit the menu and return to the normal use of the espresso machine. |
| LaMarzocco 09:30 94.5 94.6 94.5 SB | **5** Alternatively, you can exit the “Technical” programming and return to the normal use of the espresso machine by pressing T2 and T3 at the same time. |

## Program Dose

### Description

- This parameter allows the operator to program the amount of coffee (brewing amount) for each button on the keyboard.
- The brewing amount can be set in terms of time (sec. ) or pulses. This number refers to the number of pulses that the flowmeter sends to the CPU.
- Once programmed, the button remains lighted.
- It is possible to set the dose for both a short and a long shot on the same key.
- The setting of the first group is automatically copied to the subsequent groups.
- It is possible to set each key individually, in this case the dose of the first group will no longer be used.
- It is possible to copy the doses of any key to the others.

| Display | Operating Procedure |
|---|---|
| LaMarzocco 09:30<br>94.5 94.6 94.5 SB | **1** After accessing the “Technical” programming menu and entering the password, use the buttons T1 and T2 until the following screen is displayed. |
| Group Dose<br>Settings | **2** Press the T3 button to enter the doses programming procedure. |
| Program<br>Volume Dose | **3** Press the T3 button to start the doses programming procedure. |
| Press Enter<br>To Exit | **4** On each button you can set two doses, one for a short shot, one for a long shot. |
| Push To Stop<br>20 Pulses 1s | To set the brewing time of a short shot, press and release the button immediately, press again to stop and store the desired dose. |
| G1B1 Saved<br>20 Pulses | To set the brewing time of a long shot, press and hold the button for about 2 seconds, press and release the button immediately to store the desired dose. |
| | The two doses of each key can be set independently from one another. |
| | If one of the two doses is not set or does not refer to the corresponding dose of the first group, it will work as continuous dose. |

## Program Dose

### Description

- This parameter allows the operator to program the amount of coffee (brewing amount) for each button on the keyboard.
- The brewing amount can be set in terms of time (sec. ) or pulses. This number refers to the number of pulses that the flowmeter sends to the CPU.
- Once programmed, the button remains lighted.
- It is possible to set the dose for both a short and a long shot on the same key.
- The setting of the first group is automatically copied to the subsequent groups.
- It is possible to set each key individually, in this case the dose of the first group will no longer be used.
- It is possible to copy the doses of any key to the others.

| Display | Operating Procedure |
|---|---|
| Press Enter To Exit | **5** Press the T3 button to return to the doses programming. |
| Group Dose Exit | **6** Press T1 or T2 until the display shows the exit menu, press the T3 button to return to the “Technical” programming. |
| | **7** Press T1 or T2 to continue with the programming of the other parameters. |
| LaMarzocco 09:30 94.5 94.6 94.5 SB | **8** Press T2 and T3 at the same time to exit the programming mode and return to the normal use of the espresso machine. |

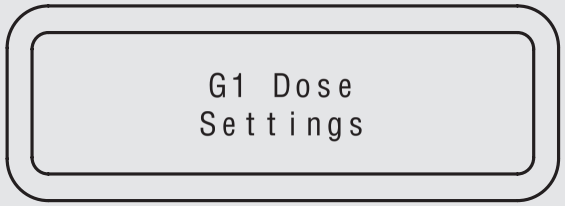
## Program Dose

### Description

- This parameter allows the operator to view and manually change each dose for each key.
- For greater accuracy and consistency of the doses, it is recommended that you set each key.

| Display | Operating Procedure |
|---|---|
| LaMarzocco 09:30<br>94.5 94.6 94.5 SB | **1** After accessing the "Technical" programming menu and entering the password, use the buttons T1 and T2 until the following screen is displayed. |
| Group Dose<br>Settings | **2** Press the T3 button to enter the doses programming procedure. |
| Program<br>Volume Dose | **3** Press the button T1 or T2 to display the following menu. |
| G1 Dose<br>Settings | **4** Press the button T3 view and/or change the dose of each key. |
| G1B1 Dose<br>263 Pulses<br>G1B1 Long Dose<br>363 Pulses<br>G1B1 Dose<br>Continuous<br>G1B1 Dose<br>Use Group 1 | **5** Press the button T1 or T2 to view the dose of each key. Pressing the button T3, the dose value will blink. Use the button T1 or T2 to change the value, press the button T3 to confirm the desired value.<br>It is possible to set the value of the pulses to zero to choose a continuous dose. |

## Program Dose

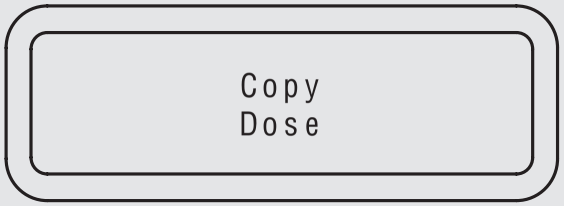



### Description

- This parameter allows the operator to view and manually change each dose for each key.
- For greater accuracy and consistency of the doses, it is recommended that you set each key.

| Display | Operating Procedure |
|---|---|
| | Except for the first group, you can set the function USE GROUP 1 for each key.<br>This option allows to use the corresponding dose of the first group instead of setting it.<br><br>The setting of the first group is automatically copied to the subsequent groups. |
| Exit<br>Group 1 | **6** Press the button T3 to exit the submenu. |
| Group Dose<br>Exit | **7** Press T1 or T2 until the display shows the exit menu, press the T3 button to return to the “Technical” programming. |
| | **8** Press T1 or T2 to continue with the programming of the other parameters. |
| LaMarzocco 09:30<br>94.5 94.6 94.5 SB | **9** Press T2 and T3 at the same time to exit the programming mode and return to the normal use of the espresso machine. |

## Program Dose

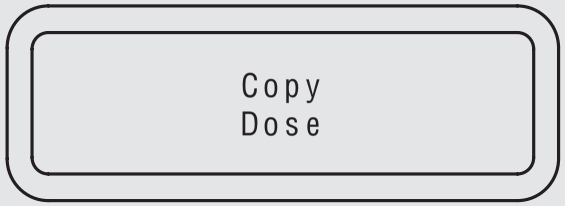



### Description

- This parameter allows the operator to copy the doses present of each key to the others.

| Display | Operating Procedure |
|---|---|
| LaMarzocco 09:30<br>94.5 94.6 94.5 SB | **1** After accessing the “Technical” programming menu and entering the password, use the buttons T1 and T2 until the following screen is displayed. |
| Group Dose<br>Settings | **2** Press the T3 button to enter the doses programming procedure. |
| Program<br>Volume Dose | **3** Press the button T1 or T2 to display the following menu. |
| Copy<br>Dose | **4** Press the button T3 to start the dose copy procedure. |
| Push Button<br>to Copy | **5** Press the key whose setting you want to copy. Now all the keys will flash. |
| Push to Paste<br>Enter to Exit | **6** Press the key where you want to paste the previously copied setting. Successful programming is indicated by the fixed lighting of the key. It is possible to repeat this procedure on any key. |
| Group Dose<br>Exit | **7** Press T1 or T2 until the display shows the exit menu, press the T3 button to return to the “Technical” programming. |

## Program Dose

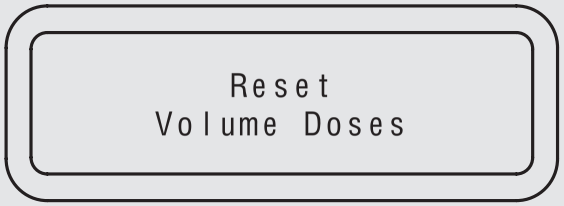



### Description

- This parameter allows the operator to copy the doses present of each key to the others.

| Display | Operating Procedure |
|---|---|
| LaMarzocco 09:30<br>94.5 94.6 94.5 SB | **8** Press T1 or T2 to continue with the programming of the other parameters.<br>**9** Press T2 and T3 at the same time to exit the programming mode and return to the normal use of the espresso machine. |

## Program Dose

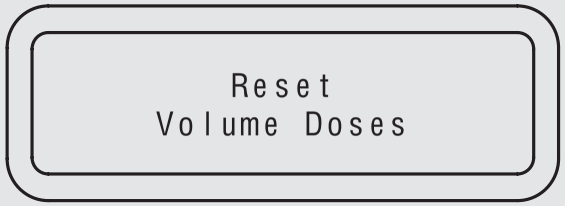



### Description

- This parameter allows the operator to cancel all the doses set.

| Display | Operating Procedure |
|---|---|
| LaMarzocco 09:30<br>94.5 94.6 94.5 SB | **1** After accessing the “Technical” programming menu and entering the password, use the buttons T1 and T2 until the following screen is displayed. |
| Group Dose<br>Settings | **2** Press the T3 button to enter the doses programming procedure. |
| Program<br>Volume Dose | **3** Press the button T1 or T2 to display the following menu. |
| Reset<br>Volume Doses | **4** Press the button T3 to confirm the procedure. |
| Resetting<br>Doses... | **5** Now all settings are cleared. |
| Group Dose<br>Exit | **6** Press T1 or T2 until the display shows the exit menu, press the T3 button to return to the “Technical” programming. |

## Program Dose




### Description

- This parameter allows the operator to cancel all the doses set.

| Display | Operating Procedure |
|---|---|
| LaMarzocco 09:30<br>94.5 94.6 94.5 SB | **7** Press T1 or T2 to continue with the programming of the other parameters.<br>**8** Press T2 and T3 at the same time to exit the programming mode and return to the normal use of the espresso machine. |

## Tea Dose

### Description

- This parameter allows the operator to program the amount of water (brewing amount) for the tea button.
- This feature can be enabled or disabled.

| Display | Operating Procedure |
|---|---|
| Enter Password ****** | **1** After accessing the “Technical” programming menu and entering the password, use the buttons T1 and T2 until the following screen is displayed. |
| Tea Dose Settings | **2** Press the T3 button to enter the menu. |
| Tea ENABLED | **3** Press the T3 button to enter the menu, move between the parameters using the buttons T1 and T2 to select ENABLED or DISABLED , press the T3 button to confirm the option. |
| Program Tea Dose<br>Press Tea Button To Stop<br>Press Tea Button To Program<br>Tea Dose Saved 5.0 Seconds | **4** To program the brewing time, press the tea button to start and then press it again to stop when the desired dose is achieved.<br>Now the saved brewing time is displayed. |

## Tea Dose

### Description

- This parameter allows the operator to program the amount of water (brewing amount) for the tea button.
- This feature can be enabled or disabled.

| Display | Operating Procedure |
|---|---|
| Tea Dose<br>Exit | **5** Press the T3 button to return to the “Technical” programming. |
| Exit<br>Menu | **6** Press T1 or T2 to continue with the programming of the other parameters. |
| | **7** To exit the menu move between the parameters using the buttons T1 and T2 until the exit menu is displayed. Press the T3 button to exit the menu and return to the normal use of the espresso machine. |
| LaMarzocco 09:30<br>94.5 94.6 94.5 SB | **8** Alternatively, you can exit the “Technical” programming and return to the normal use of the espresso machine by pressing T2 and T3 at the same time. |

## Coffee Boiler

### Description

- This parameter enables the technician to set various parameters of the coffee boiler.
- The temperature of the boiler is measured at the most critical point in the boiler where temperature fluctuation is the greatest.
- The temperature of the water exiting the group head is held constant by means of the mass of the group casting. Even though the temperature of the boiler may vary slightly, the temperature of the water exiting the group is constant.
- To properly calibrate the temperature of any espresso machine it is import to measure the temperature of the water exiting the group by means of an external temperature measuring device. The difference of the display temperature and the measured temperature may be

| Display | Operating Procedure |
|---|---|
| Enter Password ****** | **1** After accessing the “Technical” programming menu and entering the password, use the buttons T1 and T2 until the following screen is displayed. |
| Coffee Boiler Settings | **2** Press the T3 button to enter the menu. |
| Coffee Boiler 1 ENABLED | **3** Press the T3 button to enter the menu, move between the parameters using the buttons T1 and T2 to select ENABLED or DISABLED , press the T3 button to confirm the option. In the case of espresso machine with 3 groups you can set the temperature also on the coffee boiler 2 and 3. |
| CB1 Temperature 93.1°C 93.3°C | **4** Press the T3 button to enter the menu, move with the buttons T1 and T2 to set the desired temperature, press the T3 button to confirm the value. In the case of espresso machine with 3 groups you can set the temperature also on the coffee boiler 2 and 3. The temperature indicated on the left is the actual temperature of the group while the temperature on the right is the set temperature. |

**DANGER**

**THE STEAM BOILER CONTAINS WATER AT ELEVATED TEMPERATURES.**
**WATER TEMPERATURE OVER 52°C CAN CAUSE SEVERE BURNS IN STANTLY OR DEATH FROM SCALDING.**

## Coffee Boiler

### Description

compensated by use of the "Coffee T. Offset" parameter.

- The OFFSET parameter is used to calibrate the coffee boiler temperature system to ensure the display temperature accurately represents the temperature of the water exiting the group head.
- This parameter is preset at the factory based upon initial tests of this espresso machine.
- It is not recommended that this number is changed. Changes to this parameter can cause unexpected results.
- It is important to write down this value before making changes to be sure you can return to the factory programming if unexpected results occur. Each machine may have a different value as it is set individually.

| Display | Operating Procedure |
|---|---|
| CB1 Offset 3.0°C | **5** Press the T3 button to enter the menu, move with the buttons T1 and T2 to set the desired temperature, press the T3 button to confirm the value. In the case of espresso machine with 3 groups you can set the temperature also on the coffee boiler 2 and 3. |
| CB Settings Exit | **6** Press the T3 button to return to the "Technical" programming. |
| | **7** Press T1 or T2 to continue with the programming of the other parameters. |
| Exit Menu | **8** To exit the menu move between the parameters using the buttons T1 and T2 until the exit menu is displayed. Press the T3 button to exit the menu and return to the normal use of the espresso machine. |
| LaMarzocco 09:30 94.5 94.6 94.5 SB | **9** Alternatively, you can exit the "Technical" programming and return to the normal use of the espresso machine by pressing T2 and T3 at the same time. |

**⚠ DANGER ⚠**

**THE STEAM BOILER CONTAINS WATER AT ELEVATED TEMPERATURES.**
**WATER TEMPERATURE OVER 52°C CAN CAUSE SEVERE BURNS IN STANTLY OR DEATH FROM SCALDING.**

## Steam Boiler

Steam Boiler
Settings

### Description

- This parameter enables the technician to set various parameters of the steam boiler.
- The temperature of saturated water is proportional to the pressure inside the Steam Boiler. Therefore it is possible to regulate the pressure of the steam boiler by means of electronic temperature control. Please use the following tables as reference when setting the steam boiler temperature.

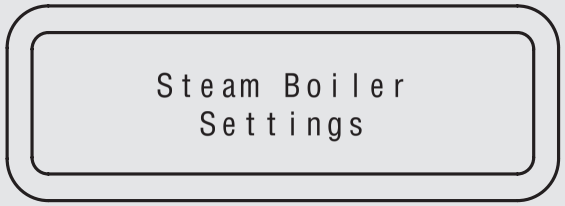
| Temperature | Pressure |
|---|---|
| 247°F/119°C | 1.0 bar |
| 260°F/127°C | 1.5 bar |
| 272°F/133°C | 2.0 bar |

| Display | Operating Procedure |
|---|---|
| Enter Password ****** | **1** After accessing the “Technical” programming menu and entering the password, use the buttons T1 and T2 until the following screen is displayed. |
| Steam Boiler Settings | **2** Press the T3 button to enter the menu. |
| Steam Boiler ENABLED | **3** Press the T3 button to enter the menu, move between the parameters using the buttons T1 and T2 to select ENABLED or DISABLED , press the T3 button to confirm the option. |
| Steam Temp. 123,7°C 123,5°C | **4** Press the T3 button to enter the menu, move with the buttons T1 and T2 to set the desired temperature, press the T3 button to confirm the value. |
| Autofill Delay 2 start 2 stop | **5** The first value indicates the time in seconds between the detection of the need to fill and the start of filling. The second value indicates the time in seconds between filling and its actual end. Press the T3 button to enter the menu, move with the buttons T1 and T2 to set the desired automatic filling time, press the T3 button to confirm the value. |

**DANGER**

**THE STEAM BOILER CONTAINS WATER AT ELEVATED TEMPERATURES.**
**WATER TEMPERATURE OVER 52°C CAN CAUSE SEVERE BURNS IN STANTLY OR DEATH FROM SCALDING.**

## Steam Boiler




### Description

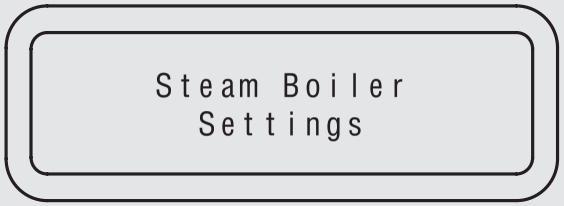
- The parameter filling WITH PUMP allows the technician to select the activation of the water pump during the automatic filling cycle of the service boiler.
- Only under unusual circumstances would the option of “WITHOUT PUMP” be chosen.
- The electronics installed in this espresso machine give priority to the brew boiler for pressure. The activation of the auto-fill cycle during the brewing process can reduce the overall dispensing pressure in the brew boiler.
- During the auto-fill cycle, if a brew cycle is chosen, the auto-fill cycle is delayed until all brew cycles are complete.

| Display | Operating Procedure |
|---|---|
| Fill During Brew YES | **6** Press the T3 button to enter the menu, move using the buttons T1 and T2 to select YES or NO, press the T3 button to confirm the option. |
| Autofill Timeout 10 min | **7** Press the T3 button to enter the menu, move with the buttons T1 and T2 to set the desired time, press the T3 button to confirm the value. |
| Fill With Pump WITH PUMP | **8** Press the T3 button to enter the menu, move using the buttons T1 and T2 to select WITH PUMP or WITHOUT PUMP, press the T3 button to confirm the option. |
| Level Sensitiv. HIGH | **9** Press the T3 button to enter the menu, move using the buttons T1 and T2 to select HIGH or LOW, press the T3 button to confirm the option. |
| SB Settings Exit | **10** To exit the submenu move between the parameters using the buttons T1 and T2 until the exit submenu is displayed. Press the T3 button to exit the submenu. |

**⚠ DANGER ⚠**

**THE STEAM BOILER CONTAINS WATER AT ELEVATED TEMPERATURES.**
**WATER TEMPERATURE OVER 52°C CAN CAUSE SEVERE BURNS IN STANTLY OR DEATH FROM SCALDING.**

## Steam Boiler




### Description

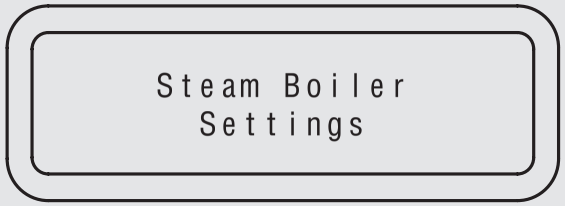
- The parameter filling WITH PUMP allows the technician to select the activation of the water pump during the automatic filling cycle of the service boiler.
- Only under unusual circumstances would the option of “WITHOUT PUMP” be chosen.
- The electronics installed in this espresso machine give priority to the brew boiler for pressure. The activation of the auto-fill cycle during the brewing process can reduce the overall dispensing pressure in the brew boiler.
- During the auto-fill cycle, if a brew cycle is chosen, the auto-fill cycle is delayed until all brew cycles are complete.

| Display | Operating Procedure |
|---|---|
| | **11** Press T1 or T2 to continue with the programming of the other parameters. |
| Exit Menu | **12** To exit the menu move between the parameters using the buttons T1 and T2 until the exit menu is displayed. Press the T3 button to exit the menu. |
| LaMarzocco 09:30 94.5 94.6 94.5 SB | **13** Alternatively, you can exit the “Technical” programming and return to the normal use of the espresso machine by pressing T2 and T3 at the same time. |

**DANGER**

**THE STEAM BOILER CONTAINS WATER AT ELEVATED TEMPERATURES.**
**WATER TEMPERATURE OVER 52°C CAN CAUSE SEVERE BURNS IN STANTLY OR DEATH FROM SCALDING.**

## Steam Boiler




### Description

- The parameter “Level Sensit.” allows the technician to select the probe sensitivity for steam boiler filling.
- To set this parameter the espresso machine must be in OFF mode.
- Before you turn on again the espresso machine, remember to replace the connection cable.
- Black connection cable corresponding to HIGH sensitivity.
- Red connection cable corresponding to LOW sensitivity.

| Display | Operating Procedure |
|---|---|
| OFF 00:00 | **1** Press and hold the button T2 and T3 at the same time to turn off the espresso machine. |
| Enter Password ****** | **2** After accessing the “Technical” programming menu and entering the password, use the buttons T1 and T2 until the following screen is displayed. |
| Steam Boiler Settings | **3** Press the T3 button to enter the menu, navigate the parameters using the buttons T1 and T2 until the following screen is displayed: |
| Level Sensitiv. HIGH | **4** Press the T3 button to enter the menu, move using the buttons T1 and T2 to select HIGH or LOW, press the T3 button to confirm the option. |
| SB Settings Exit | **5** To exit the submenu move between the parameters using the buttons T1 and T2 until the exit submenu is displayed. Press the T3 button to exit the submenu. |

**DANGER**

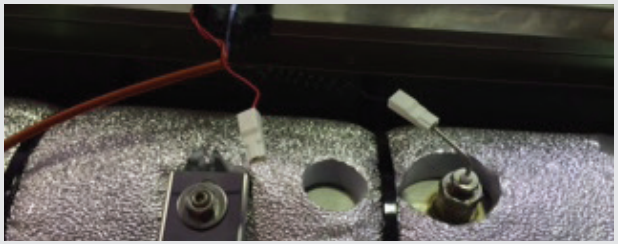
**THE STEAM BOILER CONTAINS WATER AT ELEVATED TEMPERATURES.**
**WATER TEMPERATURE OVER 52°C CAN CAUSE SEVERE BURNS IN STANTLY OR DEATH FROM SCALDING.**

## Steam Boiler

Steam Boiler
Settings

### Description

- The parameter "Level Sensit." allows the technician to select the probe sensitivity for steam boiler filling.
- To set this parameter the espresso machine must be in OFF mode.
- Before you turn on again the espresso machine, remember to replace the connection cable.
- Black connection cable corresponding to HIGH sensitivity.
- Red connection cable corresponding to LOW sensitivity.

| Display | Operating Procedure |
|---|---|
| Exit Menu | **6** To exit the menu move between the parameters using the buttons T1 and T2 until the exit menu is displayed. Press the T3 button to exit the menu. |
| Restart Machine for Changes | **7** Turn the Main Switch to the 0 position. |
| | **8** Connect the black cable (HIGH) or the red cable (LOW) to the level probe, as shown in the following figure:  |
| LaMarzocco 09:30 94.5 94.6 94.5 SB | **9** Now it is possible to turn on again the espresso machine; set the main switch to position 1 and press any button to complete machine switch on. |

**DANGER**

**THE STEAM BOILER CONTAINS WATER AT ELEVATED TEMPERATURES.**
**WATER TEMPERATURE OVER 52°C CAN CAUSE SEVERE BURNS IN STANTLY OR DEATH FROM SCALDING.**

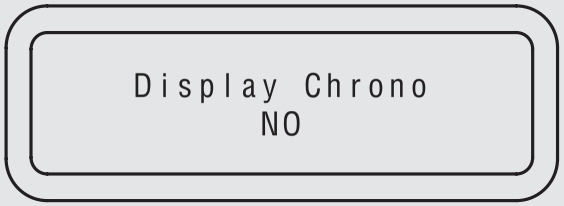
## Pre-Infusion or Pre-Brewing

### Description

- This parameter allows the operator to program the time of pre-brewing of water with the coffee. Each group can have a different programming.
- Pre-brewing has only two values to be adjusted for each group. The time (in seconds) for which the brewing valve is open during the pre-brewing cycle and the time (in seconds) for which the brewing valve is closed during the pre-brewing cycle; during this time the pump is active. Once the pre-brewing cycle is over, the normal brewing cycle will continue until the end.
- For an espresso machine composed of three groups, they are identified as Group 1, Group 2 and Group 3.

| Display | Operating Procedure |
|---|---|
| Enter Password ****** | **1** After accessing the “Technical” programming menu and entering the password, use the buttons T1 and T2 until the following screen is displayed. |
| Pre-Wet Settings | **2** Press the T3 button to enter the menu. |
| Group 1 Pre-Wet 0s Wet 0s Hold | **3** Press T1 or T2 to select the group whose parameters you want to set.<br>By pressing the T3 button the first value will blink. Use the buttons T1 and T2 to reach the value that you want to set, press T3 to confirm. Repeat this operation to set the second value. |
| | **4** To exit the menu move between the parameters using the buttons T1 and T2 until the exit menu is displayed. Press the T3 button to exit the menu. |
| Pre-Wet Settings Exit | **5** Press T1 or T2 to continue with the programming of the other parameters. |
| LaMarzocco 09:30 94.5 94.6 94.5 SB | **6** Press T2 and T3 at the same time to exit the programming mode and return to the normal use of the espresso machine. |

## Crono Function

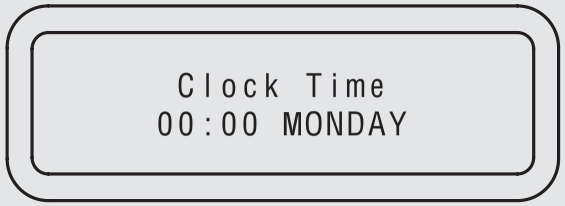



### Description

- When enabled, this parameter displays a timer that times each shot.
- The timer is reset each time a button on the keypad is pressed.
- If enabled, the Chrono function is permanently displayed during brewing, while during wait state it alternates with the programmable name.

| Display | Operating Procedure |
|---|---|
| Enter Password ****** | **1** After accessing the “Technical” programming menu and entering the password, use the buttons T1 and T2 until the following screen is displayed. |
| Display Chrono NO | **2** Press the T3 button to enter the menu, move between the parameters using the buttons T1 and T2 to select an option (NO/TIME/DOSE), press the T3 button to confirm the option. |
| GR1 GR2 GR3 18 0 0 | **3** In the case of active option (TIME or DOSE ) the display shown to the side appears. |
| | **4** Press T1 or T2 to continue with the programming of the other parameters. |
| Exit Menu | **5** To exit the menu move between the parameters using the buttons T1 and T2 until the exit menu is displayed. Press the T3 button to exit the menu. |
| LaMarzocco 09:30 94.5 94.6 94.5 SB | **6** Alternatively, you can exit the “Technical” programming and return to the normal use of the espresso machine by pressing T2 and T3 at the same time. |

## Clock Adjust




### Description

- This parameter allows the user to set the time of day and the day of the week.
- This parameter is used to display time and is also used by the “Auto On/Off” parameter
- There are 4 changeable values within this parameter:
  - Hour;
  - Minute;
  - Day of week;
  - Hour Format 12h or 24h.

| Display | Operating Procedure |
|---|---|
| Enter Password ****** | **1** After accessing the “Technical” programming menu and entering the password, use the buttons T1 and T2 until the following screen is displayed. |
| Clock Time 00:00 MONDAY | **2** Pressing the T3 button the first value will blink. Use the buttons T1 and T2 to set the clock. Repeat the operation to set the day of the week. |
| | **3** Press T1 or T2 to continue with the programming of the other parameters. |
| Exit Menu | **4** To exit the menu move between the parameters using the buttons T1 and T2 until the exit menu is displayed. Press the T3 button to exit the menu. |
| LaMarzocco 09:30 94.5 94.6 94.5 SB | **5** Alternatively, you can exit the “Technical” programming and return to the normal use of the espresso machine by pressing T2 and T3 at the same time. |

## Cup Warmer

### Description

- This parameter allows the technician to enable or disable the cups heating function.
- This parameter allows the technician to adjust the operating time of the resistance for the heating of the cups.
- This function is displayed only on the models of espresso machine equipped with this accessory.
- In TIME mode it is possible also to stop and to restart the cycle of the cup warmer by pushing the cup warmer button (item 5 fig. 1).

| Display | Operating Procedure |
|---|---|
| Enter Password ****** | 1 After accessing the "Technical" programming menu and entering the password, use the buttons T1 and T2 until the following screen is displayed. |
| Cup Warmer Settings | 2 Press the T3 button to enter the menu. |
| Cup Warmer ENABLED | 3 Press the T3 button to enter the menu, move between the parameters using the buttons T1 and T2 to select ENABLED or DISABLED , press the T3 button to confirm the option. |
| Cup Warmer Mode TIME | 4 Press the T3 button to enter the menu, move between the parameters using the buttons T1 and T2 to select TIME or BY BUTTON , press the T3 button to confirm the option. |
| Cup Warmer T On 2min | 5 Press the T3 button to enter the menu, move between the parameters with the buttons T1 and T2 to set the desired time, press the T3 button to confirm the value. |
| Cup Warmer T Off 8min | 6 Press the T3 button to enter the menu, move between the parameters with the buttons T1 and T2 to set the desired time, press the T3 button to confirm the value. |

## Cup Warmer

### Description

- This parameter allows the technician to enable or disable the cups heating function.
- This parameter allows the technician to adjust the operating time of the resistance for the heating of the cups.
- This function is displayed only on the models of espresso machine equipped with this accessory.
- In TIME mode it is possible also to stop and to restart the cycle of the cup warmer by pushing the cup warmer button (item 5 fig. 1).

| Display | Operating Procedure |
|---|---|
| Cup Warmer Exit | **7** To exit the submenu move between the parameters using the buttons T1 and T2 until the exit submenu is displayed. Press the T3 button to exit the submenu. |
| | **8** Press T1 and T2 to continue with the programming of the other parameters. |
| Exit Menu | **9** To exit the menu move between the parameters using the buttons T1 and T2 until the exit menu is displayed. Press the T3 button to exit the menu. |
| LaMarzocco 09:30 94.5 94.6 94.5 SB | **10** Alternatively, you can exit the “Technical” programming and return to the normal use of the espresso machine by pressing T2 and T3 at the same time. |

## Cup Warmer

### Description

- This parameter allows the technician to enable or disable the cups heating function.
- This parameter allows the technician to enable or disable the cups heating function with cup warmer button (item 5 fig. 1).
- This function is displayed only on the models of espresso machine equipped with this accessory.
- In BY BUTTON mode the cup warmer is time independent and will work in continuous mode.

| Display | Operating Procedure |
|---|---|
| Enter Password ****** | **1** After accessing the “Technical” programming menu and entering the password, use the buttons T1 and T2 until the following screen is displayed. |
| Cup Warmer Settings | **2** Press the T3 button to enter the menu. |
| Cup Warmer ENABLED | **3** Press the T3 button to enter the menu, move between the parameters using the buttons T1 and T2 to select ENABLED or DISABLED , press the T3 button to confirm the option. |
| Cup Warmer Mode BY BUTTON | **4** Press the T3 button to enter the menu, move between the parameters using the buttons T1 and T2 to select TIME or BY BUTTON , press the T3 button to confirm the option. |

## Cup Warmer

### Description

- This parameter allows the technician to enable or disable the cups heating function.
- This parameter allows the technician to enable or disable the cups heating function with cup warmer button (item 5 fig. 1).
- This function is displayed only on the models of espresso machine equipped with this accessory.
- In BY BUTTON mode the cup warmer is time independent and will work in continuous mode.

| Display | Operating Procedure |
|---|---|
| Cup Warmer<br>Exit | **5** To exit the submenu move between the parameters using the buttons T1 and T2 until the exit submenu is displayed. Press the T3 button to exit the submenu. |
| | **6** Press T1 and T2 to continue with the programming of the other parameters. |
| Exit<br>Menu | **7** To exit the menu move between the parameters using the buttons T1 and T2 until the exit menu is displayed. Press the T3 button to exit the menu. |
| LaMarzocco 09:30<br>94.5 94.6 94.5 SB | **8** Alternatively, you can exit the “Technical” programming and return to the normal use of the espresso machine by pressing T2 and T3 at the same time. |

## Auto ON/OFF

### Description

- This parameter allows the technician to program the espresso machine to turn on at a preset time and turn off at a preset time.
- This feature also allows the espresso machine to remain in the off condition for one repeating closed day.

| Display | Operating Procedure |
|---|---|
| Enter Password ****** | **1** After accessing the “Technical” programming menu and entering the password, use the buttons T1 and T2 until the following screen is displayed. |
| Auto On/Off Settings | **2** Press the T3 button to enter the menu. |
| Auto On/Off ENABLED | **3** Press the T3 button to enter the menu, move between the parameters using the buttons T1 and T2 to select ENABLED or DISABLED , press the T3 button to confirm the option. |
| Auto On Time 00:00 | **4** If the parameter is enabled, press the T3 button to enter the menu, move with the buttons T1 and T2 to set the desired time, press the T3 button to confirm the value. |
| Auto Off Time 00:00 | |
| | **5** Press the T3 button to enter the menu, move with the buttons T1 and T2 to set the desired time, press the T3 button to confirm the value. |
| Closed On NEVER | **6** Press the T3 button to enter the menu, move with the buttons T1 and T2 to select an option, press the T3 button to confirm the option. |

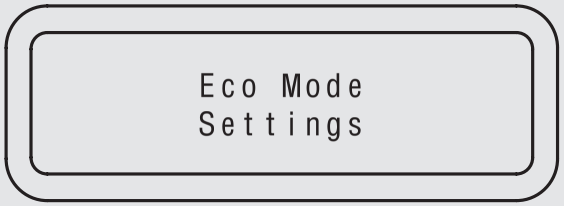
## Auto ON/OFF

### Description

- This parameter allows the technician to program the espresso machine to turn on at a preset time and turn off at a preset time.
- This feature also allows the espresso machine to remain in the off condition for one repeating closed day.

| Display | Operating Procedure |
|---|---|
| Auto On/Off<br>Exit | **7** To exit the submenu move between the parameters using the buttons T1 and T2 until the exit submenu is displayed. Press the T3 button to exit the submenu. |
| | **8** Press T1 or T2 to continue with the programming of the other parameters. |
| Exit<br>Menu | **9** To exit the menu move between the parameters using the buttons T1 and T2 until the exit menu is displayed. Press the T3 button to exit the menu. |
| LaMarzocco 09:30<br>94.5 94.6 94.5 SB | **10** Alternatively, you can exit the “Technical” programming and return to the normal use of the espresso machine by pressing T1 and T2 at the same time. |

## ECO Mode

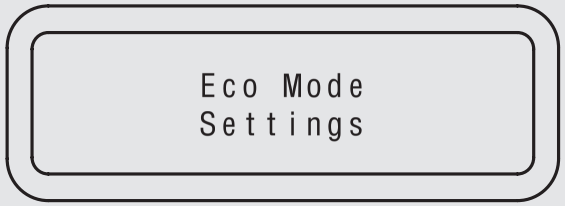



### Description

- This parameter allows the technician to set up a temperature to be maintained in case of a temporary non utilization of the espresso machine.
- It is possible to set this parameter also during the normal operation of the machine by pressing T1 and T2 at the same time.

| Display | Operating Procedure |
|---|---|
| Enter Password ****** | **1** After accessing the “Technical” programming menu and entering the password, use the buttons T1 and T2 until the following screen is displayed. |
| Eco Mode Settings | **2** Press the T3 button to enter the menu. |
| Eco Mode Temp -10.0°C | **3** Press the T3 button to enter the menu, move between the parameters with the buttons T1 and T2 to set the desired temperature, press the T3 button to confirm the value. |
| Auto Eco Time 30 | **4** Press the T3 button to enter the menu, move between the parameters with the buttons T1 and T2 to set the desired time (in minutes), press the T3 button to confirm the value. A value of “0” (zero) disables the Eco Mode parameter. |
| Eco Mode Exit | **5** To exit the submenu move between the parameters using the buttons T1 and T2 until the exit submenu is displayed. Press the T3 button to exit the submenu. |

## ECO Mode




### Description

- This parameter allows the technician to set up a temperature to be maintained in case of a temporary non utilization of the espresso machine.
- It is possible to set this parameter also during the normal operation of the machine by pressing T1 and T2 at the same time.

| Display | Operating Procedure |
|---|---|
| | **6** Press T1 or T2 to continue with the programming of the other parameters. |
| Exit Menu | **7** To exit the menu move between the parameters using the buttons T1 and T2 until the exit menu is displayed. Press the T3 button to exit the menu. |
| LaMarzocco 09:30 94.5 94.6 94.5 SB | **8** Alternatively, you can exit the “Technical” programming and return to the normal use of the espresso machine by pressing T2 and T3 at the same time. |

## Coffee Dose Counter

### Description

- This parameter allows the technician to review the total doses dispensed for each button.
- This parameter displays different values:
  - Total coffee doses;
  - Coffee doses for each button;
  - Tea doses.

| Display | Operating Procedure |
|---|---|
| Enter Password ****** | **1** After accessing the "Technical" programming menu and entering the password, use the buttons T1 and T2 until the following screen is displayed. |
| Coffee Dose Counter | **2** Press the T3 button to enter the menu. |
| Total Coffee Doses: 63 | **3** Move between the parameters using the buttons T1 and T2 to display the desired option: |
| Doses G1B1 10 | **4** Continuing to move with the buttons T1 and T2 you can display the total doses of each button. |
| Doses G1B2 3 | **5** Continuing to move with the buttons T1 and T2 you can display the total doses of each button. |
| Doses G1B3 5 | **6** Continuing to move with the buttons T1 and T2 you can display the total doses of each button. |
| Tea Doses 30 | **7** Continuing to move with the buttons T1 and T2 you can also display the total doses of the tea button. |

## Coffee Dose Counter

### Description

- This parameter allows the technician to review the total doses dispensed for each button.
- This parameter displays different values:
  - Total coffee doses;
  - Coffee doses for each button;
  - Tea doses.

| Display | Operating Procedure |
|---|---|
| Coffee Doses<br>Exit | **8** To exit the submenu move between the parameters using the buttons T1 and T2 until the exit submenu is displayed. Press the T3 button to exit the submenu. |
| | **9** Press T1 or T2 to continue with the programming of the other parameters. |
| Exit<br>Menu | **10** To exit the menu move between the parameters using the buttons T1 and T2 until the exit menu is displayed. Press the T3 button to exit the menu. |
| LaMarzocco 09:30<br>94.5 94.6 94.5 SB | **11** Alternatively, you can exit the “Technical” programming and return to the normal use of the espresso machine by pressing T2 and T3 at the same time. |

## Filter Alarm

### Description

- This parameter enables the technician to program an alarm that will alert the user about the need for maintenance or replacement of the water filter.
- Once the set volume has been reached, the error message “Filter Alarm” will be displayed.
- A value of 0 (zero) disables the filter alarm parameter.
- This feature can be enabled or disabled.

| Display | Operating Procedure |
|---|---|
| Enter Password ****** | **1** After accessing the “Technical” programming menu and entering the password, use the buttons T1 and T2 until the following screen is displayed. |
| Filter Alarm Settings | **2** Press the T3 button to enter the menu, move between the parameters using the buttons T1 and T2 to select ENABLED or DISABLED , press the T3 button to confirm the option. |
| Filter Alarm ENABLED | |
| Alarm Units LITERS / DAYS | **3** Press the T3 button to enter the menu, move between the parameters using the buttons T1 and T2 to select LITRES or DAYS , press the T3 button to confirm the option. |
| Filter Status 0 of 1000L | **4** Press the T3 button to enter the menu, move between the parameters with the buttons T1 and T2 to set the desired value, press the T3 button to confirm the value. |
| Filter Alarm 1000 Liters | **5** Press the T3 button to enter the menu, move between the parameters with the buttons T1 and T2 to set the desired value, press the T3 button to confirm the value. |

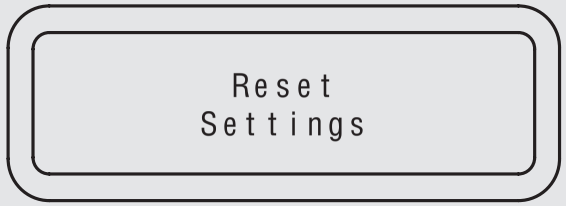
## Filter Alarm

### Description

- This parameter allows the technician to preprogram an alarm that notifies the user when the water filter requires service or replacement.
- When the programmed volume of water has passed through the espresso machine the error message “Change Filter” is displayed.
- A value of 0 (zero) disables the filter alarm parameter.
- This feature can be enabled or disabled.

| Display | Operating Procedure |
|---|---|
| Alarm Tea Use<br>40 Coffee Water | **6** Press the T3 button to enter the menu, move between the parameters with the buttons T1 and T2 to set the desired value, press the T3 button to confirm the value. |
| Filter Alarm<br>Exit | **7** To exit the submenu move between the parameters using the buttons T1 and T2 until the exit submenu is displayed. Press the T3 button to exit the submenu. |
| | **8** Press T1 or T2 to continue with the programming of the other parameters. |
| Exit<br>Menu | **9** To exit the menu move between the parameters using the buttons T1 and T2 until the exit menu is displayed. Press the T3 button to exit the menu. |
| LaMarzocco 09:30<br>94.5 94.6 94.5 SB | **10** Alternatively, you can exit the “Technical” programming and return to the normal use of the espresso machine by pressing T2 and T3 at the same time. |

## Reset

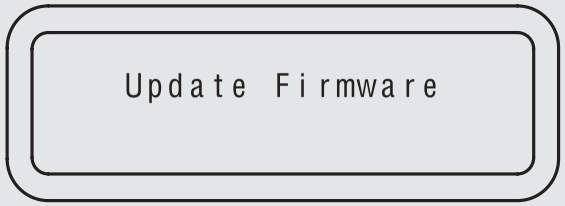



### Description

- This parameter allows the technician to reset all the values returning to initial factory settings.
- It is possible to reset the settings you made in the “Barista” programming or the settings you made in the “Technical” programming.

| Display | Operating Procedure |
|---|---|
| Enter Password ****** | **1** After accessing the “Technical” programming menu and entering the password, use the buttons T1 and T2 until the following screen is displayed. |
| Reset Settings | **2** Press the T3 button to enter the menu. |
| Barista Settings Reset | **3** Press the T3 button to reset the settings you made in the “Barista” programming. |
| Tech, Settings Reset | **4** Press the T3 button to reset the settings you made in the “Technical” programming. |
| Reset Exit | **5** To exit the submenu move between the parameters using the buttons T1 and T2 until the exit submenu is displayed. Press the T3 button to exit the submenu. |
| | **6** Press T1 or T2 to continue with the programming of the other parameters. |
| Exit Menu | **7** To exit the menu move between the parameters using the buttons T1 and T2 until the exit menu is displayed. Press the T3 button to exit the menu. Alternatively, you can exit the “Technical” programming and return to the normal use of the espresso machine by pressing T2 and T3 at the same time. |

## Update Firmware

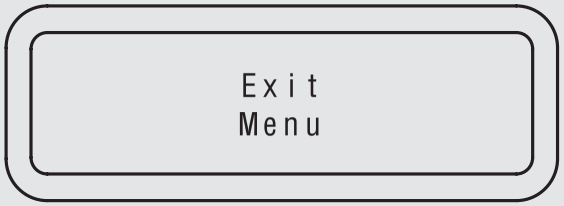



### Description

- This parameter allows the technician to update the control unit of the espresso machine via a USB Pendrive.

| Display | Operating Procedure |
|---|---|
| Enter Password ****** | **1** After accessing the “Technical” programming menu and entering the password, use the buttons T1 and T2 until the following screen is displayed. |
| Update Firmware | **2** Press the T3 button to update the firmware. The following screen will immediately appear. |
| Insert USB Key And Press Enter | **3** Insert the USB Pendrive into the USB port and press the T3 button . |
| OFF 00:00 | **4** When the update is over, the espresso machine restarts. Set the switch to 0 (zero) and then again to 1. |

## Exit Menu




### Description

- This parameter allows the technician to exit the “Technical” programming and return to the normal use of the espresso machine.

| Display | Operating Procedure |
|---|---|
| Exit Menu | 1 Press the T3 button to exit the “Technical” programming and return to the normal use of the espresso machine. |

## Troubleshooting

- This espresso machine is equipped with several feedback mechanisms that alert the operator when an unusual condition occurs. Additionally the espresso machine will warn the operator when certain parameters fall below or above the programmed point. These errors and warnings will appear as a message in the display.
- The following section will describe errors and warnings that may appear in the display.

| Message | Description | Message Solution |
|---|---|---|
| Steam Boiler Autofill Failed | This message is displayed when the CPU does not detect a full signal from the steam boiler within the set time interval. | When this message is displayed the CPU also shuts down and turns off power to the machine (see the parameter “Level Timeout”). Press the ON/OFF button to reset this error. |
| Coffee Boiler 1 Probe Failed | This message is displayed when the CPU does not detect the temperature probe. | When this message is displayed the CPU shuts down and turns off the machine.<br>The way to reset this error is to verify and to reconnect the temperature probe. |
| SB Filled? | This message is displayed during first installation and when preset of settings is made. | Push enter if Steam Boiler is filled. Verify the presence of water looking the sight glass. |
| Groups Bled? | This message is displayed during first installation and when preset of settings is made. | Push enter if groups have been blend ie no air is present in groups. |
| Coffee Boiler 1 Is Not Heating | This message is displayed when the coffee boiler does not reach the minimum temperature with the programmed time interval. | See the parameter “Heating Timeout” for more information. The number on the display corresponds to the number of the faulty coffee boiler. |
| Coffee Boiler 1 Overheated | This message is displayed when the coffee boiler temperature exceeds the maximum allowed temperature. | When this message is displayed call an authorized service technician to repair this fault. The also CPU turns power off to the coffee boiler. |
| Steam Boiler Probe Failed | This message is displayed when the CPU does not detect the temperature probe. | When this message is displayed the CPU shuts down and turns off the machine.<br>The way to reset this error is to verify and to reconnect the temperature probe. |
| Steam Boiler Overheated | This message is displayed when the steam boiler temperature exceeds the maximum allowed temperature. | When this message is displayed call an authorized service technician to repair this fault. The also CPU turns power off to the steam boiler. |
| Steam Boiler Is Not Heating | This message is displayed when the steam boiler does not reach the minimum temperature with the programmed time interval. | See the parameter “Heating Timeout” for more information. |

| Message | Description | Message Solution |
|---|---|---|
| Flow Meter 1 No Pulse | This message is displayed when the CPU does not receive the appropriate signal from the flowmeter. | When the flowmeter alarm is displayed, push a button to turn off the alarm. This problem is a result of water not flowing through the flow meter. This can be caused by the coffee packed too tightly, a blockage in the tubes, a malfunctioning water pump, a faulty valve, or a damaged flowmeter. Call a service technician to fix this problem. |
| Autofill In Progress | This message is displayed when the steam boiler autofill cycle is activated and water is entering the steam boiler. | No action is required when this message is displayed. This message is only displayed to notify the operator of the active process. |
| Invalid Password | This message is displayed when password entered does not match the programmed password. | This error message will be displayed anytime an incorrect password is entered.<br>The machine comes back to the previous state. |
| Provide for the replacement | This message is displayed when the filter alarm is on. All the buttons flash | When this message is displayed perform the required maintenance operations on the water filter or replace it.<br>No action is required on the espresso machine. |