



espresso coffee machines

# INSTALLATION INSTRUCTION MANUAL

# S 8

# S 9



## WEEE

**Disposal of the equipment by the users within the European Community (WEEE) in compliance with the article 13 of the legislative decree issued on 25 July 2005, nr 151 "Implementation of the directives 2002/95/CE, 2002/96/CE e 2003/108/CE, concerning the decrease in the usage of dangerous substances in the electrical and electronic equipment and the disposal of waste".**



The symbol of the crossed waste bin indicated on the equipment or on the packaging means that the product at the end of its lifetime must be disposed of separately from all the other waste.

The separate collection of this equipment coming at the end of its lifetime is organized and run by the importer/distributor. The user who should have to dispose of such equipment should get in touch with the importer/ distributor and follow the procedure they have adopted for the separate disposal of the equipment coming at the end of its lifetime. The proper separate disposal of disused equipment so that it can be recycled and treated according what is environmentally compatible contributes to avoid possible negative effects on the Environment and on Health and allows the reutilization and/or the recycling of the materials the equipment is composed of.

The improper disposal by the user causes the enforcement of the administrative sanctions according to current regulations.

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See the video **“THE S8-S9 SERIES BY LA SPAZIALE”**  
to have a quick overview of functions of the machine

<http://www.laspaziale.com/index.php/en/video>

## 1 GENERAL DESCRIPTION OF THE MACHINE

S8

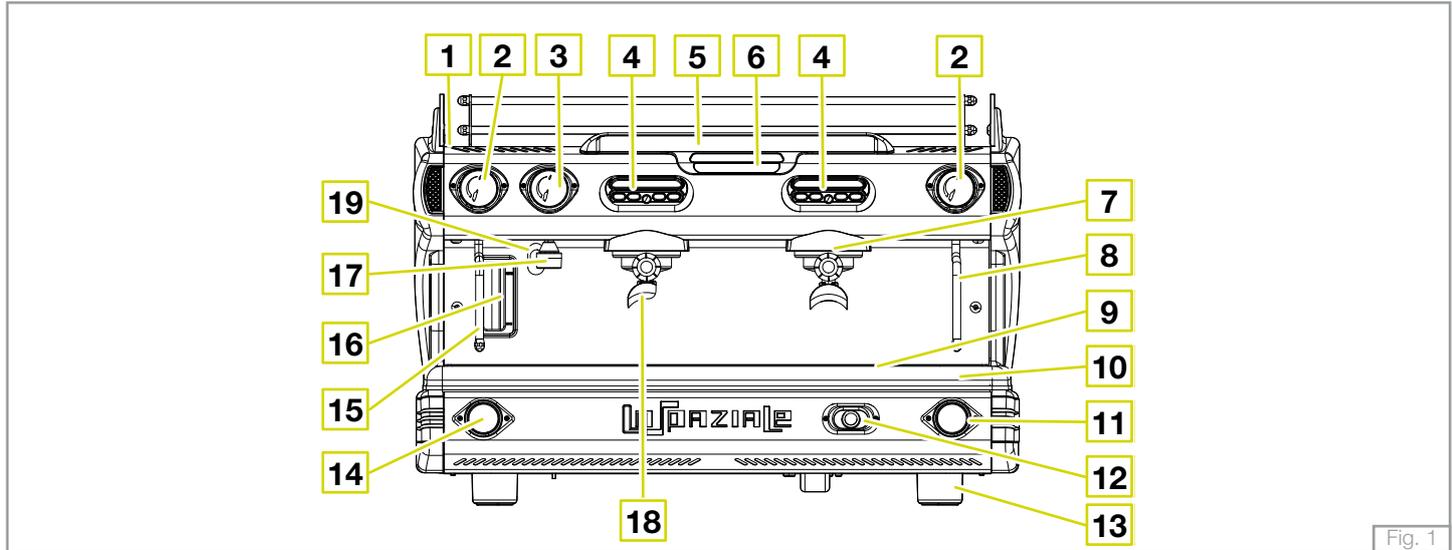


Fig. 1

### LEGEND

- 1. Top cup grid
- 2. Steam delivery knob
- 3. Hot water delivery knob
- 4. Touchpad
- 5. LED light display
- 6. Control panel
- 7. 2-cup filter holder
- 8. Right steam wand

- 9. Drip tray grid
- 10. Water drip tray
- 11. Boiler pressure gauge
- 12. Main on/off switch
- 13. Adjustable foot
- 14. Water mains gauge
- 15. Left steam wand
- 16. Water level glass
- 17. Hot water output

- 18. One-cup filter holder
- 19. Filling valve

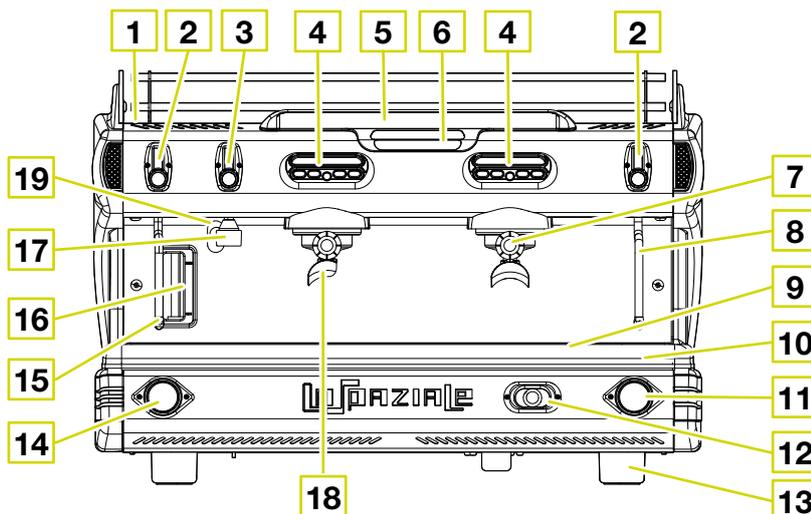


Fig. 2

### LEGEND

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>1. Top cup grid</li> <li>2. Steam delivery knob</li> <li>3. Hot water delivery knob</li> <li>4. Touchpad</li> <li>5. LED light display</li> <li>6. Control panel</li> <li>7. 2-cup filter holder</li> <li>8. Right steam wand</li> <li>9. Drip tray grid</li> </ul> | <ul style="list-style-type: none"> <li>10. Water drip tray</li> <li>11. Boiler pressure gauge</li> <li>12. Main on/off switch</li> <li>13. Adjustable foot</li> <li>14. Water mains gauge</li> <li>15. Left steam wand</li> <li>16. Water level glass</li> <li>17. Hot water output</li> <li>18. One-cup filter holder</li> <li>19. Filling valve</li> </ul> |
|--|--|

**S8 MAT**

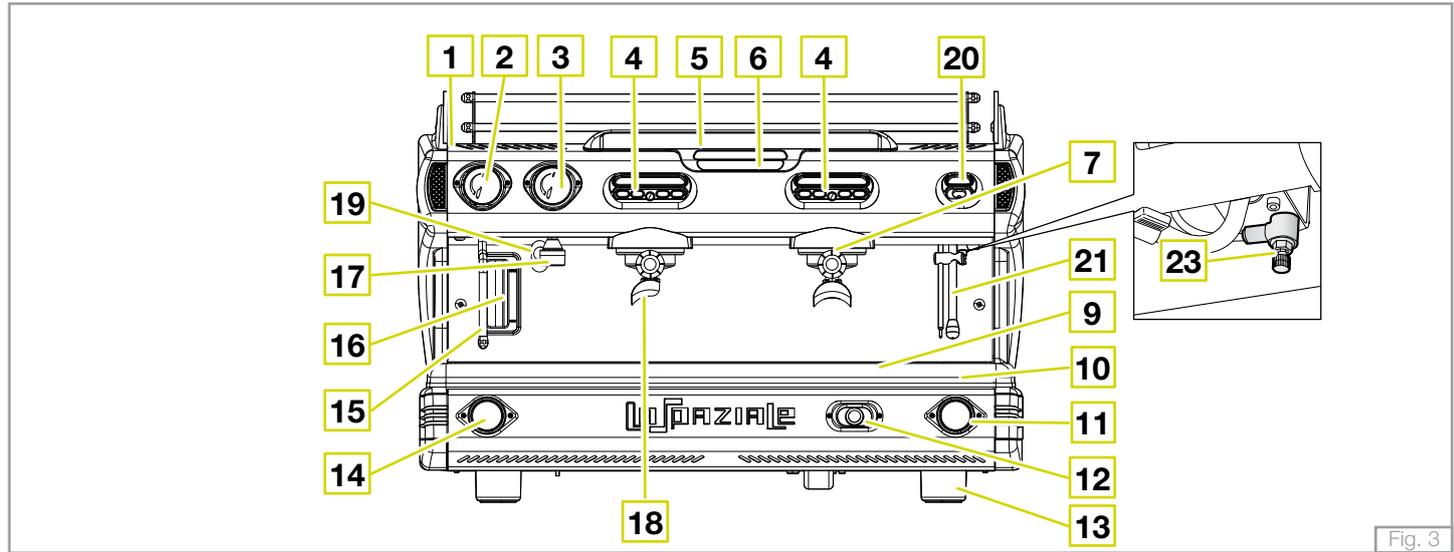


Fig. 3

**LEGEND**

- |   |   |  |
|---|---|--|
| <ul style="list-style-type: none"> <li>1. Top cup grid</li> <li>2. Steam delivery knob</li> <li>3. Hot water delivery knob</li> <li>4. Touchpad</li> <li>5. LED light display</li> <li>6. Control panel</li> <li>7. 2-cup filter holder</li> <li>8. One-cup filter holder</li> <li>9. Drip tray grid</li> </ul> | <ul style="list-style-type: none"> <li>10. Water drip tray</li> <li>11. Boiler pressure gauge</li> <li>12. Main on/off switch</li> <li>13. Adjustable foot</li> <li>14. Water mains gauge</li> <li>15. Left steam wand</li> <li>16. Water level glass</li> <li>17. Hot water output</li> <li>18. One-cup filter holder</li> </ul> | <ul style="list-style-type: none"> <li>19. Filling valve</li> <li>20. Automatic steam delivery button for milk foaming - M.A.T. - (optional)</li> <li>21. Steam wand with temperature sensor - M.A.T. - (optional)</li> <li>23. Air adjustment for milk foaming - M.A.T. - (optional)</li> </ul> |
|---|---|--|

## S9 MAT

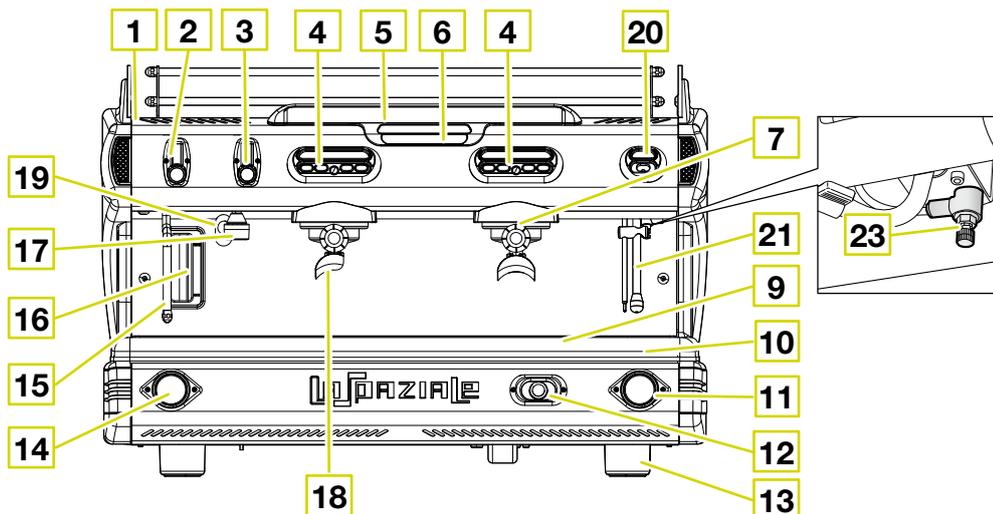


Fig. 4

### LEGEND

- |   |   |   |
|---|---|---|
| <ul style="list-style-type: none"> <li>1. Top cup grid</li> <li>2. Steam delivery knob</li> <li>3. Hot water delivery knob</li> <li>4. Touchpad</li> <li>5. LED light display</li> <li>6. Control panel</li> <li>7. 2-cup filter holder</li> <li>9. Drip tray grid</li> </ul> | <ul style="list-style-type: none"> <li>10. Water drip tray</li> <li>11. Boiler pressure gauge</li> <li>12. Main on/off switch</li> <li>13. Adjustable foot</li> <li>14. Water mains gauge</li> <li>15. Left steam wand</li> <li>16. Water level glass</li> <li>17. Hot water output</li> <li>18. One-cup filter holder</li> </ul> | <ul style="list-style-type: none"> <li>19. Filling valve</li> <li>20. Automatic steam delivery button for milk foaming - M.A.T.- (optional)</li> <li>21. Steam wand with temperature sensor - M.A.T. - (optional)</li> <li>23. Air adjustment for milk foaming - M.A.T. - (optional)</li> </ul> |
|---|---|---|

**S8 AT**

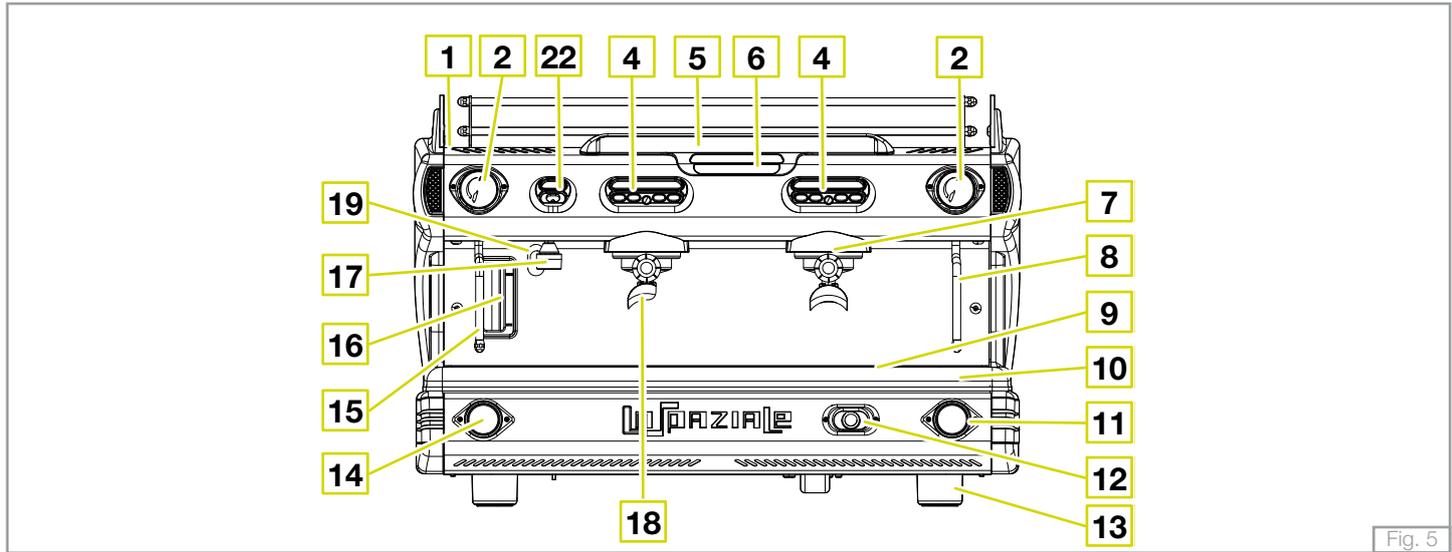


Fig. 5

**LEGEND**

- |  |   |  |
|--|---|--|
| <ul style="list-style-type: none"> <li>1. Top cup grid</li> <li>2. Steam delivery knob</li> <li>4. Touchpad</li> <li>5. LED light display</li> <li>6. Control panel</li> <li>7. 2-cup filter holder</li> <li>8. Right steam wand</li> <li>9. Drip tray grid</li> </ul> | <ul style="list-style-type: none"> <li>10. Water drip tray</li> <li>11. Boiler pressure gauge</li> <li>12. Main on/off switch</li> <li>13. Adjustable foot</li> <li>14. Water mains gauge</li> <li>15. Left steam wand</li> <li>16. Water level glass</li> <li>17. Hot water output</li> <li>18. One-cup filter holder</li> </ul> | <ul style="list-style-type: none"> <li>19. Filling valve</li> <li>22. Timed hot water delivery button</li> </ul> |
|--|---|--|

## S9 AT

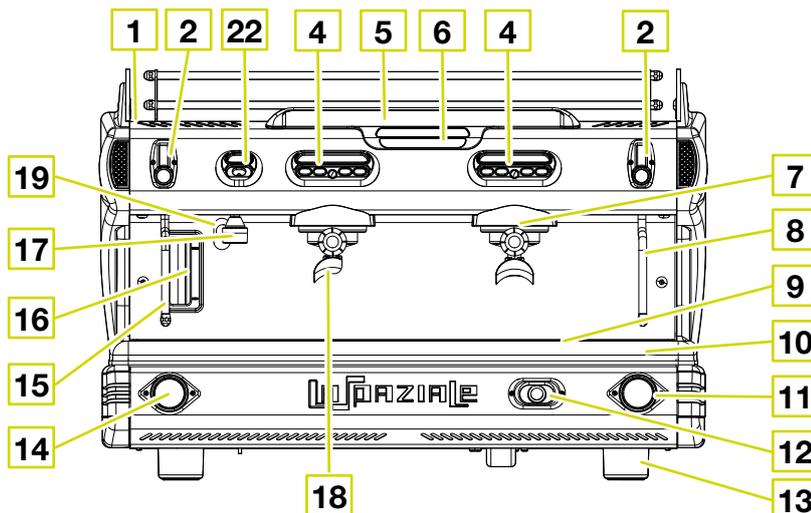


Fig. 6

### LEGEND

- 1. Top cup grid
- 2. Steam delivery knob
- 4. Touchpad
- 5. LED light display
- 6. Control panel
- 7. 2-cup filter holder
- 8. Right steam wand
- 9. Drip tray grid

- 10. Water drip tray
- 11. Boiler pressure gauge
- 12. Main on/off switch
- 13. Adjustable foot
- 14. Water mains gauge
- 15. Left steam wand
- 16. Water level glass
- 17. Hot water output
- 18. One-cup filter holder

- 19. Filling valve
- 22. Timed hot water delivery button

**COMPACT S8**

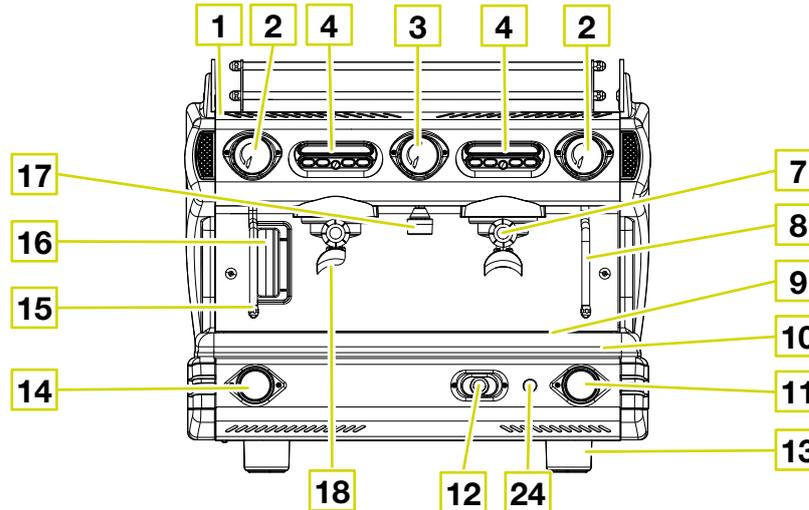


Fig. 7

**LEGEND**

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>1. Top cup grid</li> <li>2. Steam delivery knob</li> <li>3. Hot water delivery knob</li> <li>4. Touchpad</li> <li>7. 2-cup filter holder</li> <li>8. Right steam wand</li> <li>9. Drip tray grid</li> <li>10. Water drip tray</li> </ul> | <ul style="list-style-type: none"> <li>11. Boiler pressure gauge</li> <li>12. Main on/off switch</li> <li>13. Adjustable foot</li> <li>14. Water mains gauge</li> <li>15. Left steam wand</li> <li>16. Water level glass</li> <li>17. Hot water output</li> <li>18. One-cup filter holder</li> <li>24. Electric cup warmer button (optional)</li> </ul> |
|---|---|

## COMPACT S9

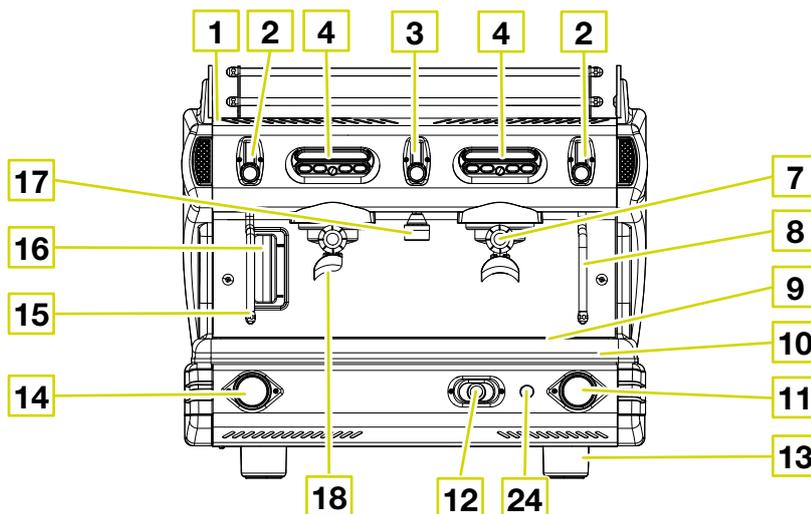


Fig. 8

### LEGEND

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>1. Top cup grid</li> <li>2. Steam delivery knob</li> <li>3. Hot water delivery knob</li> <li>4. Touchpad</li> </ul> | <ul style="list-style-type: none"> <li>11. Boiler pressure gauge</li> <li>12. Main on/off switch</li> <li>13. Adjustable foot</li> <li>14. Water mains gauge</li> <li>15. Left steam wand</li> <li>16. Water level glass</li> <li>17. Hot water output</li> <li>18. One-cup filter holder</li> <li>24. Electric cup warmer button (optional)</li> </ul> |
|--|---|

## 1.1 CONTROL PANEL DESCRIPTION

### Model EK

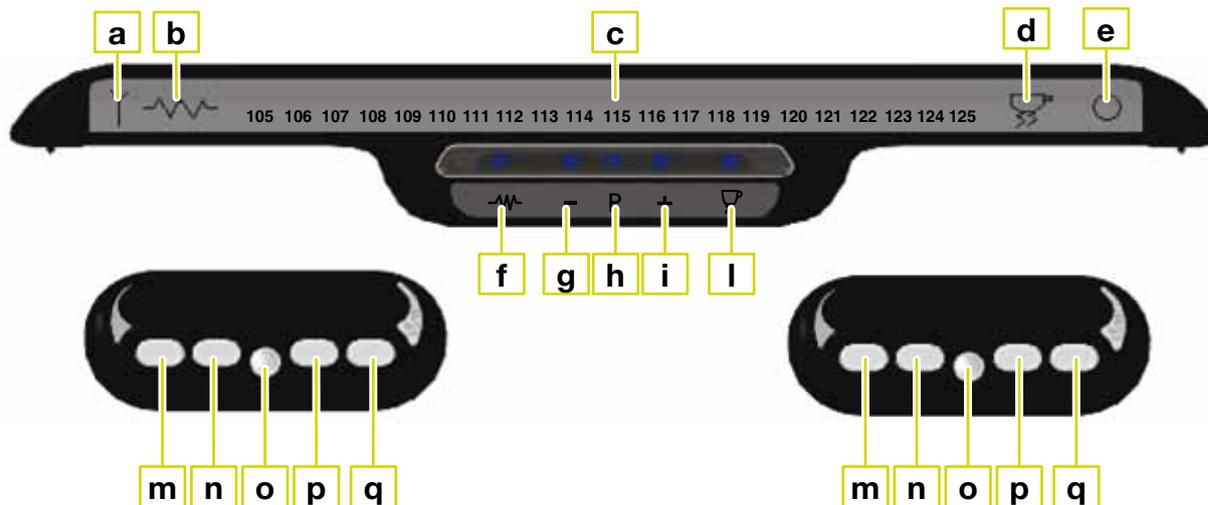


Fig. 9

### LEGEND

- |  |  |  |
|--|--|--|
| <ul style="list-style-type: none"> <li>a. Technical assistance indicator (optional)</li> <li>b. Indicator light for electric heating system status</li> <li>c. Temperature indicator lights</li> <li>d. Cup warmer heating element indicator light (optional)</li> <li>e. Stand/by indicator lights</li> </ul> | <ul style="list-style-type: none"> <li>f. ON/OFF button for appliance electric heating</li> <li>g. Datum decrease button</li> <li>h. Datum confirmation button</li> <li>i. Datum increase button</li> <li>l. Cup warmer heating element activation button</li> </ul> | <ul style="list-style-type: none"> <li>m. 1 short coffee preset delivery button</li> <li>n. 1 long coffee preset delivery button</li> <li>o. Free flow delivery button</li> <li>p. 2 short coffee preset delivery button</li> <li>q. 2 long coffee preset delivery button</li> </ul> |
|--|--|--|

## Model EP

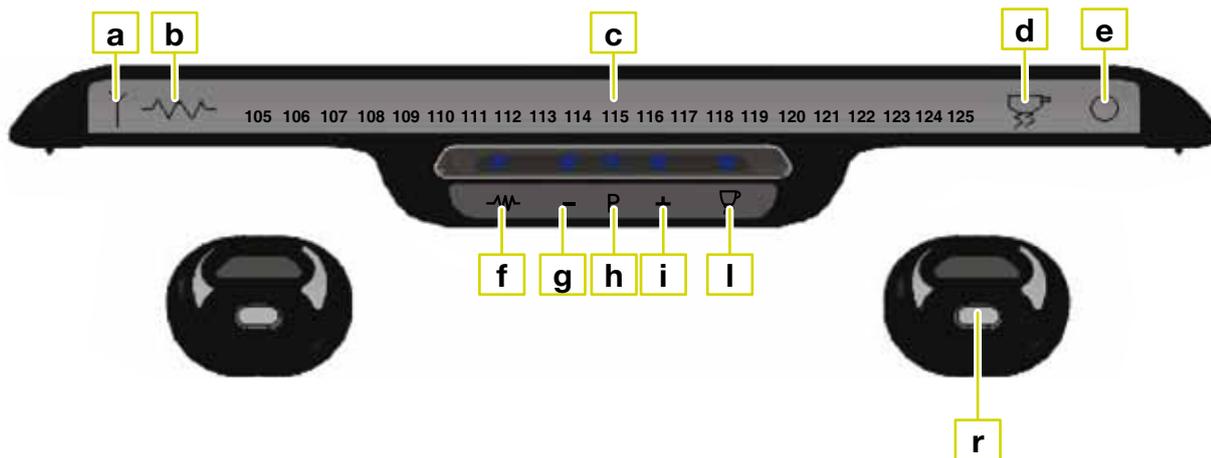


Fig. 10

### LEGEND

- |  |   |                           |
|--|---|---------------------------|
| a. Technical assistance indicator (optional)             | f. ON/OFF button for appliance electric heating | r. Coffee delivery button |
| b. Indicator light for electric heating system status    | g. Datum decrease button                        |                           |
| c. Temperature indicator lights                          | h. Datum confirmation button                    |                           |
| d. Cup warmer heating element indicator light (optional) | i. Datum increase button                        |                           |
| e. Stand/by indicator lights                             | l. Cup warmer heating element activation button |                           |

## 2. GENERAL ADVICE FOR THE INSTALLER

Read carefully the instructions and warnings contained in this manual and in the “**USE AND MAINTENANCE MANUAL**”, since they provide important indications concerning the installation of the appliance.

### **Attention!**

This appliance may only be used for its intended purpose.  
Any other use is therefore considered as improper and unreasonable.  
The manufacturer cannot be held liable for any damage caused by improper, incorrect or unreasonable use.

### **Attention!**

Make sure that the customer has previously installed the systems according to the instructions indicated in the “**USE AND MAINTENANCE MANUAL**” provided with the appliance.

### **Attention!**

Make sure that the power rating of the system arranged by the customer corresponds to the highest rating indicated on the rating plate of the equipment.

### **Danger!**

The appliance is supplied without a plug. It is supposed to be directly connected to the electric mains and therefore, it is necessary to fit a single-pole switch with contact opening of 3 mm or more beforehand, according to the regulations in force.

## **Danger!**

If it becomes necessary to replace the machine's power supply cable, utilise only these types: CET ELETTRIC H07RN-F 5 x 2.5 mm (400V) for 2/3 group versions, 5 x 4 mm (400V) for 4 group versions - CET ELETTRIC SINGLE PHASE 3 x 2.5 mm (220V) 2 group versions, 3 x 4 mm (220V) for 3/4 group versions. Replacing the cable must be carried out by qualified personnel. The electrical safety of the appliance is fully achieved only after it has been correctly connected to an earthing system as required by the laws in force.

## **Danger!**

The appliance must be supplied exclusively with cold drinking water. Maximum mains pressure (static pressure) must not be higher than 0.6 MPa.

## **Danger!**

If in doubt, concerning the above mentioned requirements (about the system previously installed by the customer), please have them checked by qualified staff.

## **Danger!**

The electrical safety of the appliance is fully achieved only after it has been correctly connected to an earthing system as required by the laws in force.

## **Attention!**

Installation must be carried out by qualified personnel according to current laws and to the manufacturer's instructions. Incorrect installation may cause damage to people, animals or property for which the manufacturer cannot be held liable.

 **Attention!**

The appliance must be installed on a flat bearing surface, the stability of which needs to be checked.

 **Attention!**

The appliance must be installed where use and maintenance are restricted to trained staff.  
The electrical power system, water supply system and drainage system must prearranged by the customer in an ideal position to permit the correct installation. The installer cannot modify existing systems that have been arranged by the customer. Refer to the chapter “Pre-installation arrangements organised by the customer” in the “USER AND MAINTENANCE MANUAL” attached to each machine.

## 3. REMOVING THE PACKAGING

After unpacking the machine, please check its integrity; in case of doubt, do not use it and consult the manufacturer. Packaging materials must not be left within children's reach since they are potentially dangerous.



The appliance weight is more than 30 kg and therefore, it cannot be moved by a single person alone.



Dispose of the packaging as per the norms in force of the country in which the machine is used.

### 3.1 STANDARD OUTFIT OF THE MACHINE

#### LEGEND

- A. 1 set of filter holders with relative spouts
- B. 1 complete set of hoses for connection to water mains
- C. 2 sets of filters
- D. 1 set of shower heads
- E. 1 wrench for shower head removal
- F. 1 brush
- G. 1 blind filter
- H. 1 manual coffee tamper
- I. 1 set group-head gasket

## 3.2 OPTIONAL ACCESSORIES

(Supplied only on request of the customer)

### LEGEND

- I. Water softener
- L. Water line impurity filter
- M. Pressure reducer
- N. Detergent

## 4. INSTALLATION

Place the machine on the support surface, lifting it up only from underneath.

Adjust the feet so that the machine fits perfectly in a horizontal position and tilting slightly backwards.

Before connecting the machine to the supply systems, ensure that the data on the nameplates correspond with the ratings where the machine is installed.

### 4.1 ELECTRIC INSTALLATION DIAGRAM

Take note of all warnings and advice in this manual when carrying out the electrical connection.

Furthermore, the power supply cable must be completely uncoiled to avoid dangerous overheating.

Check the voltage in the place of installation of the machine and then connect the power supply cable as shown in the figure below.

The cables of the machine are marked in the following way:

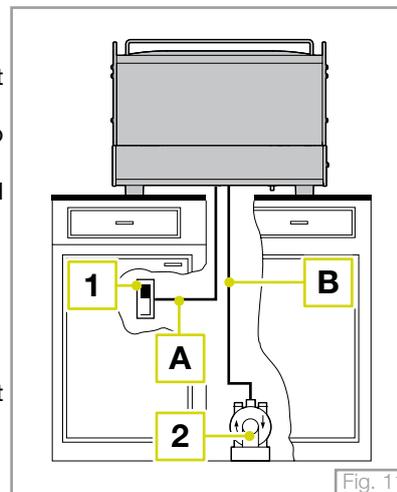
A - Power supply cable of the machine;

B - Motor pump cable (when not incorporated in the machine).

a) Connect cable (A) directly to the single pole switch (1).

b) Connect cable (B) directly to the motor pump (2).

Versions of the machine with the motor pump incorporated do not have the cable (B).



#### Legend:

- 1 Main switch (prepared by the customer);
- 2 Motor pump (if not built in).



Connect the yellow/green conductor lead of cable (B) to the earth terminal on the motor pump (when the motor pump is not incorporated in the machine).

**! Danger!**

The light blue conductor lead of cable (A) is connected to the neutral phase of the electrical system.

<b>HEATING ELEMENT CONNECTION</b>	V400/3Ph	V230/3Ph	V230/1Ph	
<b>POWER CABLE CONNECTION</b>	V400/3Ph	V230/3Ph	V230/1Ph	<b>WIRES OF POWER CABLE</b>  A = GREY B = BLACK C = BROWN D = LIGHT BLUE E = YELLOW GREEN
	A B C D E L1 L2 L3 N — PHASES NEUTRAL GROUND	A B C D E L1 L2 L3 — PHASES GROUND	A B C D E 1 N — PHASE NEUTRAL GROUND	

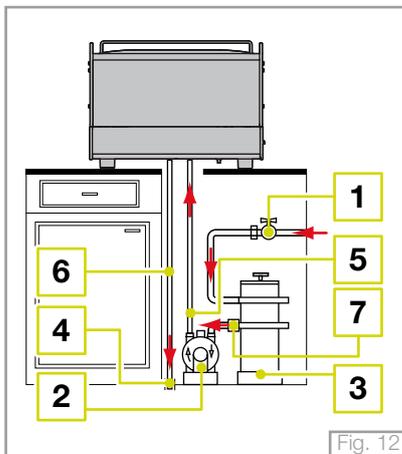
**! Take note!**

230 V single-phase connections are only possible with rating plate data of 5000 W or lower.

## 4.2 WATER MAINS INSTALLATION DIAGRAM

**Attention!**

The machine is supplied without water in the boiler to avoid exposure to temperatures less than 0°C that could cause irreparable damage.

**Legend:**

- 1 Water tap (previously installed by the customer)
- 2 Motor pump (provided with the machine - when not built in)
- 3 Water softener (optional)
- 4 Drain siphon (previously installed by the customer)
- 5 High-pressure (supplied)
- 5 Water drain pipe (provided with the machine).

Carry out the connections as shown in **Fig. 12** and taking into account the following instructions:

- Always use the hoses supplied with the machine to make water mains connections; never use any other hose or pipes already fitted.
- Make sure that hoses are not kinked, squashed or twisted.
- Fasten the ring nuts of the hoses firmly but without exerting too much pressure.

 **Danger!**

INSTALLATION OF THE WATER SOFTENER IS RECOMMENDED TO PROLONG THE LIFE OF THE MACHINE.

Install the water softener according to the instructions and norms supplied by the manufacturer.

The water softener must be positioned where it is easily accessible so as to carry out the regeneration cycle when necessary and should be positioned near to the water drainage u-pipe.

 **Danger!**

If a water softener is not a part of the water system, it is necessary to apply a filter to the inlet hose of the motor pump to avoid the entry of impurities that could damage the motor pump or the machine.

 **Attention!**

The motor pump must be installed at a distance to avoid drips or spurts of water and also to avoid salt from dropping onto the motor pump when filling the water softener with salt.

Before connecting the hose coming from the motor pump or from the water-softener, in case of appliances with built-in pumps, place it in a bucket and turn on the water tap (**1- Fig. 12**) for a couple of minutes in order to eliminate possible residues from the new hoses and in any case, until the water flows clear.

### 4.3 DRAINAGE SYSTEM

Assemble the push-fit drainage hose in the appropriate rubber holder of the collection basin of the machine and place the other end of the hose directly into the drainage u-pipe of the prearranged drainage system.

Check that the hose is not blocked or crushed along its length and it also has a sufficient incline to be able to drain without difficulty.

 **Danger!**

Do not place the drainage hose in basins or buckets underneath the counter to avoid the possibility of creating receptacles of dirt with the consequent proliferation of bacteria.

# **INSTRUCTIONS FOR S8/S9 2, 3 AND 4 GROUPS**

## 5. SWITCHING ON THE MACHINE

### 5.1 FILLING THE BOILER

- A. Open the water supply tap as arranged during the preparatory stages (see Fig. 12 on page 20 - Ref. 1).
- B. Verify that the water mains pressure (approx. 4 bar) is visualized on the water mains pressure gauge (14).
- C. Push the manual filling valve on the appliance (19) until the boiler level indicator is halfway (16).

### 5.2 SWITCHING ON THE APPLIANCE

- A. Turn on the power supply switch that was prearranged during the system preparation (see Fig. 11 page 18 – Ref. 1), and then turn on the machine's main switch (12).  
Once the machine is switched on, an electronic components check is carried through on 2-3-4 groups machines; all the symbols on the control panel, from left to right, are progressively turned on. At the end of this process, the symbol for the temperature setting will start to blink to indicate that the appliance is heating up.



#### *Take note!*

According to the amount of water filled manually, it is possible to activate the automatic refill system when the switch (12) is turned on, until the boiler water level indicated by the manufacturer is reached.

### 5.3 GROUP DOSE SETTING – EK MODEL

Hold down the free flow button  on the first touchpad from the right (1st GROUP) for about 5 seconds, until the symbol begins to flash (the dose symbols stay lit) and all the symbols on the other touchpads switch off.

Within 30 seconds fasten a filter holder (**18**) containing a dose of ground coffee to the group; put a cup below the filter holder and press the button “1 short coffee” (**m**) on the corresponding touchpad. The symbol for the selected dose will remain lit to indicate that the dose is being set. The symbol flashes while all others are switched off.

When the coffee reaches the required dose, press the button “1 short coffee” (**m**) again to stop the coffee delivery and confirm the required dose. When the dose has been set, the relevant symbol will switch off to show that programming is complete.

Repeat this operation for the other buttons (**n-p-q**), also on the touchpad on the right.

#### **Take note!**

Carry out this procedure to program the remaining doses, using the 1-cup filter holder (**18**) or the 2-cup one (**7**), according to the type of dose to be programmed.

#### **Take note!**

To quit the programming function, press the free flow delivery button (**o**) for 5 seconds or, alternatively, wait 1 minute to quit the function automatically.

#### **Danger!**

By setting the doses on the first touchpad on the right, automatically the other groups will be acquiring the same doses; if you want to set a group with different doses, repeat the same dose setting procedure on the touchpad corresponding to the group you want to program differently.

## 5.4 SETTING NEW OPERATING TEMPERATURE PARAMETERS

Hold down the button  (h) on the programming panel for 5 seconds; the symbol on the control panel for the set temperature will remain lit while the other symbols will switch off.

Use the buttons  (i) or  (g) to change the setting.  
Press the button  (h) to quit the programming function.

### **Take note!**

The boiler pressure (operating temperature) is usually modified exclusively in order to adapt the machine temperature to the type of coffee blend used, so as to improve the result in the cup.

## 5.5 ELECTRIC CUP WARMER (optional)

Press the cup warmer operating button  (l) and check its operating status through the lighting up of the LED  (d) on the control panel.  
To switch it off, press the same button.

## 5.6 TEMPORARY TEMPERATURE INCREASE FUNCTION

When the machine is operated in conditions which may considerably reduce its temperature, the boiler temperature can be increased by 2°C by pressing the  (i) button for approximately 2 seconds; by doing this, the programmed SET temperature keeps blinking and at the same time the temperature symbol, 2°C higher with respect to the programmed SET, starts blinking as well (e.g. if the SET is 120°C, it blinks and keeps blinking, while the 122°C SET starts blinking as well).

The new SET will follow the temperature trend, flashing when the appliance is heating up and fixed when the set temperature has been reached.

To return to the initial status, press the button  (g) for about 5 seconds.

 **Take note!**

It is possible to deactivate the electric heating of the heating elements by pressing the button **(f)** on the programming panel. Once deactivated, the relevant symbol **(b)** on the control panel will switch off to indicate this state. To reactivate the electric heating, press the button **(f)** again: the symbol **(b)** will switch on.

## 5.7 TEMPERATURE PROBE CALIBRATION

Switch off the appliance.

Press and hold down the button  **(h)** and switch on the appliance.

The “120” symbol will light up on the control panel and the temperature will automatically be set to 120°C. It is possible to check the status of the heating elements with the relevant symbol **(b)**: if lit, it means that the SET Temperature has been reached; if flashing, it indicates the heating phase.

Using the buttons **(i)**  or  **(g)** you can change this datum.

Each time that the buttons are pressed, probe calibration is changed by 0.5 °C.

If the symbol after “120” is flashing, this means that a change of 0.5 °C has been made; if it is lit, the change is 1 °C.

 **Take note!**

Probe calibration is performed by the manufacturer during the appliance testing phase.  
Only perform the above procedure after temperature probe replacement.

## 5.8 ELECTRONIC CONTROL BOARD SETTING

The electronic control board can be set to control two different water level controls (probe or floater) and to control the two different versions of group delivery (EK or EP).

The electronic control board has a selector for board configuration.

### WATER LEVEL CONTROL

According to the type of boiler water level control, it is necessary to set the electronic control board as follows:

- Move the selector to “S” if a PROBE water level control is used (conduction probe).
- Move the selector to “R” if a FLOATER water level control is used (magnetic reed).

### GROUP DELIVERY CONTROL

According to the type of group delivery control on the appliance, it is necessary to set the electronic control board as follows:

- Move the selector to “EK” if a 5-selection touchpad is used with programmable doses (automatic version).
- Move the selector to “EP” if a 1-key touchpad is used (semiautomatic version).



### *Take note!*

These settings are made by the manufacturer during the testing phase!

Only after replacing the electronic control board, make sure that the new board is pre-set in for the type of water level and delivery controls on the appliance.

## 5.9 AT TIMED HOT WATER POURING TO PREPARE INFUSIONS - A.T. - (optional)

Hold down the free flow delivery button  (o) of the first touchpad on the right (1st GROUP) for about 5 seconds, until the symbol starts to flash (the dose symbols will remain lit) and the symbols of all the other touchpads switch off.

The symbol on the timed water delivery button will start to flash.

Press the button for timed hot water delivery (3); the symbol will stop flashing and stay lit to indicate that programming is in progress. When the dose has reached the required amount, press the button (3) again to stop.



### **Take note!**

To quit the programming function, press the free flow delivery button for 5 seconds or, alternatively, wait 1 minute to quit the function automatically.

## 5.10 MIXED HOT WATER FUNCTION FOR INFUSIONS – (optional)

To activate the function, proceed as follows:

1. Push the free-flow delivery button  (o) of the first touchpad on your right (1°GROUP) for about 5 seconds until the symbol of the button start to flashing (the automatic doses symbols remains ON) and all of the symbols of the other touchpads are turned off.
2. The symbol of the preset hot water delivery infusions button is on but not flashing (MIXED HOT WATER FUNCTIONS is OFF).

Pushing the button  (h) the symbol of the preset hot water delivery infusions button start to flashing (MIXED HOT WATER FUNCTIONS is ON).

Everytime the button  (h) is pusher, you can turn ON or OFF the MIXED HOT WATER function (MIX ON: the symbol of the preset hot water delivery infusions button flashes; MIX OFF the symbol of the preset hot water delivery infusions is ON but set).

MIX OFF = water no mixed (symbol of the preset hot water delivery infusions is ON but set).

MIX ON = 50% hot water and 50% cold water (the symbol of the preset hot water delivery infusions button flashes).

3. Push the preset hot water delivery infusions button **(3)**, the symbols flashes to show that you're programming the mixing.
4. When the dose is on the desired quantity, push again the button **(3)** to end the mixing.

When programming the mixed hot water function, to exit from the programming push the free-flow delivery button  **(o)** for about 5 seconds or wait for about 1 minute for the automatic exit.

 **Take note!**

The MIXED HOT WATER FUNCTION for infusions required a specific hydraulic circuit.  
For further information about this system, contact La Spaziale SpA.

### 5.11 AUTOMATIC MILK FOAMING SYSTEM WITH ADJUSTABLE TEMPERATURE - M.A.T. - (optional)

After the correct temperature setting process and the air suction adjustment, this system can be used for automatic milk foaming.  
To program the set temperature, proceed as follows:

1. Switch off the appliance.
2. Press and hold down together the buttons  **(i)** and  **(g)**, on the programming touchpad and switch on the appliance using the main switch.
3. Only the previously set value for the temperature will remain lit on the control panel.
4. To change the setting, press the buttons  **(i)** and  **(g)**.
5. To quit the programming function and store the new setting, switch the appliance off and then on again, using the main switch **(12)**.

 **Take note!**

The temperature value on the control panel must be converted back using the conversion table here below:

t °C	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	
 	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	 

**DIFFERENT TEMPERATURE RANGE**

To program a different range of temperature (from 65°C to 85°C), proceed as follows:

1. Switch off the appliance
2. Press and hold down together the buttons (g) and (i), on the programming touchpad and switch on the appliance using the main switch (12).
3. Only the previously set value for the temperature will remain lit on the control panel.
4. Press and hold press for 10 seconds the button  (h), the light of the previously set value blinking.
5. To change the setting, press the buttons (g) and (i).
6. To quit the programming function and store the new setting, switch the appliance off and then on again, using the main switch (12).

 **Take note!**

The temperature value on the control panel must be converted back using the conversion table here below:

t	°C	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85		
		105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125		

After setting the temperature, it is necessary to set the air suction using the milk foamer regulator behind the front panel, close to the steam wand with the steam wand with temperature probe (Fig. 13).

Turn the adjustment screw anticlockwise to increase milk foaming.

Turn the adjustment screw anticlockwise to reduce milk foaming.

An approximate calibration is carried out during the test testing phase, loosening the adjustment screw by one and a half turns.

 **Danger!**

When adjusting the milk foaming level, take care not to touch the steam wand with temperature probe or wear protective, to prevent possible burns.

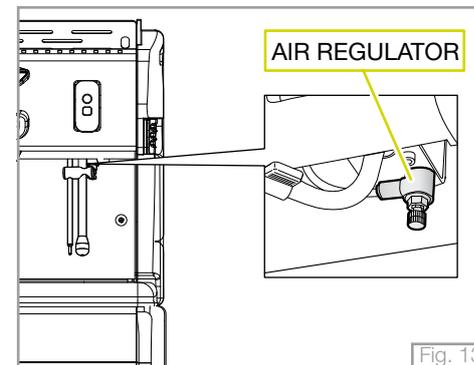


Fig. 13

## 5.12 INDIVIDUAL TEMPERATURE CONTROL - I.T.C. - (optional)

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

The temperature of each group is independent from the temperature set in the boiler.

To vary the temperature on a group, use the corresponding regulator alongside the group itself, which can be reached through the opening in the top of the, upper cup grid (1) (**Fig. 14**).

Turn the adjustment screw anticlockwise to decrease the temperature.

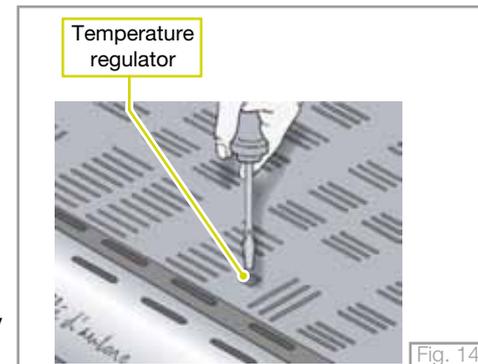
Turn the adjustment screw clockwise to increase the temperature.



### **Take note!**

Every full turn of the adjustment screw corresponds to a change of approximately 2 °C.

Changes must only be made to adapt the temperature of the delivery group to the coffee blend being used, so as to improve the result in the cup.



## 5.13 CASH REGISTER CONNECTION

The appliance can be connected with the cash register by a 32 relays interface.

For further information about this system, contact La Spaziale S.p.A..



### **Take note!**

If the appliance is set to be connected to the cash register but the interface is not connected, each time that a doses button is pressed, the corresponding symbol is blinking and the water doesn't come out to the group head.

## 5.14 TECHNICAL ASSISTANCE program – G.A. - (optional)

The scheduled technical assistance program makes it possible to keep some appliance parameters under control, making it possible to set a minimum threshold after which an alarm signal is given.

The program makes it possible to organise regular routine maintenance for the delivery groups (enabling the **SERVICE** menu) and/or the replacement of the filter cartridge or resin regeneration for the softener (enabling the **FILTER** menu).

**The appliances preset for this function still have the technical assistance program deactivated.**



### Take note!

To enable these controls it is necessary to have the technical assistance display (**Fig. 15**).

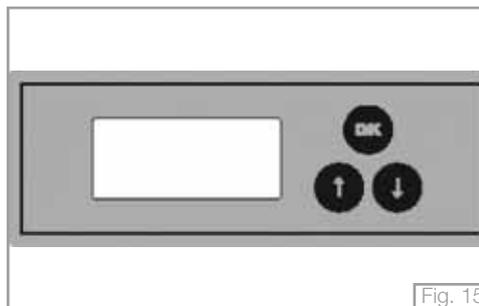


Fig. 15

When the display is connected, it will read the version of the control board fitted on the machine for **3 seconds**.

After the above cycle, the display will read:



Fig. 16

to indicate that the technical assistance is deactivated.

To enable one or both available controls, proceed as follows: hold down the button



for about **3 seconds**, this opens the **SERVICE** menu and the display will read:



Fig. 17

Where **“Y”** (Yes) will be flashing. To select **“N”** (No) press one of the 2 arrow keys



, **“N”** will start to flash. If you press the button  the control of delivery cycles will remain deactivated, passing directly to the softener **FILTER** settings.

If you confirm with **“Y”**, pressing the button , you enable the control and move to the setting of the number of solenoid valve insertion cycles, a number which decreases at every delivery operation. The display now shows:



Fig. 18

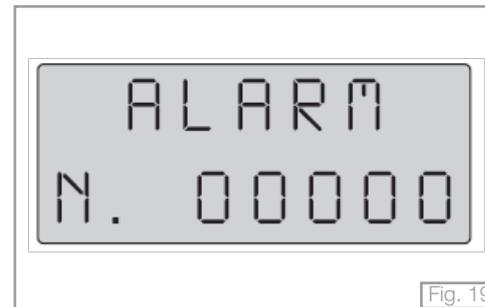
Where the first **“0”** on the right is flashing; when the button  pressed, this increases the number (0 - 9), while pressing the button  moves onto the most important digit on the left (the selected digit flashes to indicate that it can be changed). Once the required delivery cycle value has been set, confirm the setting by pressing

the button .

 **Take note!**

The set number is not a count of the number of cups of coffee delivered by the appliance, it is just a control over the solenoid valve insertion cycles for the groups and therefore, for example, 100 solenoid valve cycles do not correspond to 100 delivered cups of coffee.

Confirming the setting makes it possible to enter a minimum number of cycles which, when reached, will cause the appliance to display an alarm on the control panel by switching on the relevant control light **(b)**. The display will read:



Where the first "0" on the right is flashing. When the button  is pressed, this increases the number (0 -9), while pressing the button  moves onto the most important digit on the left (the selected digit flashes to indicate that it can be changed).

Once the delivery cycle alarm value has been set, confirm the setting by pressing the button .

 **Take note!**

The number cannot be greater than or equal to the maximum number of solenoid valve cycles set previously.

After confirming the setting, the program passes onto the settings for the softener FILTER menu.

The display will show:



Fig. 20

Where “Y” (Yes) will be flashing. To select “N” (No) press one of the 2 arrow keys



, “N” will start to flash. If you press the button  the control of the softener filter remains deactivated, quitting the programming function and returning to the initial screen.

If you confirm with “Y”, pressing the button , enables the control and allows the setting of the number of softener litres, after which it is necessary to replace the filter. The number decreases at every delivery operation. The display must read:



Fig. 21

Where the first “0” on the right is flashing. When the button  is pressed, this increases the number (0 - 9), while pressing the button  moves onto the most important digit on the left (the selected digit flashes to indicate that it can be changed).

Once the litre value has been set, confirm the setting by pressing the button . At this point it is possible to enter a minimum number of litres, after which the appliance will display an alarm on the control panel (6) by switching on the relevant control light. The display will read:



Fig. 22

Where the first “0” on the right is flashing. Pressing the button  will increase the number (0 - 9), while pressing the button  moves to the most important digit on the left (the selected digit will flash to show that it can be changed). Once the litres value has been set, confirm the setting by pressing the button , and it is possible to quit the programming function.

 **Take note!**

The number cannot be greater than or equal to the maximum number of solenoid valve cycles set previously.

With the controls enabled and the display connected, the display will show the remaining number of cycles before it is necessary to proceed with maintenance.

Or the number of litres remaining before the softener **FILTER** cartridge needs to be replaced:



Fig. 23



Fig. 24

 **Take note!**

The visualization is alternatively shown on the display only if both controls have been enabled, otherwise, only the enabled control is displayed.

The number of cycles is decreased after every 50 solenoid valve activations.

The number of litres for the filter is reduced after every 10 litres of water consumed.

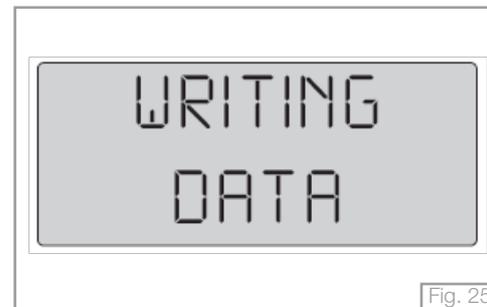


Fig. 25

**Setting the softener filter parameters.**

To access the menu to set softener filter parameters, press and hold down all three

keys    for 3 seconds.

The display will read:

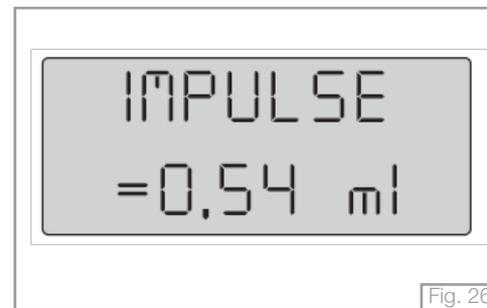


Fig. 26

Where **"0.54 ml"** is the correspondence between a flow meter pulse and the amount

of water delivered by the group given in millilitres. Pressing the buttons   decreases or increases the setting (**0.30 ml – 0.90 ml**).

Pressing the button  confirms the setting and the display will read:

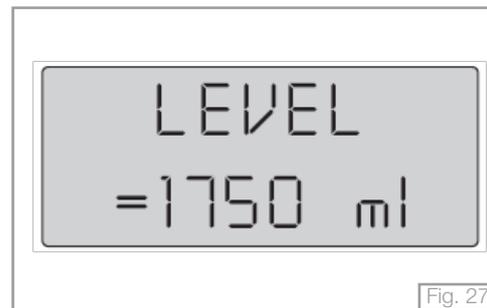


Fig. 27

Where “1750 ml” is the correspondence between 1 minute of operation of the automatic boiler refill system and the amount of water introduced, given in millilitres.

Pressing the buttons   increases/decreases the setting (1000 ml – 2000 ml).

Pressing the button  confirms the setting and returns to the initial display menu.

### 5.15 CHRONO FUNCTION (optional)

Chrono function allows to visualize on a display the delivery time of each coffee delivery group.

When the machine is switched on, the display will first show the display software version. When any button of the 1st, 2nd, 3rd, 4th group is pressed, the display will show the delivery time of the selected group.

At the end of the delivery, the extraction time stays on the display until the next delivery.

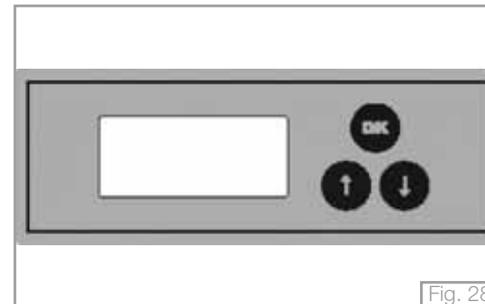


Fig. 28

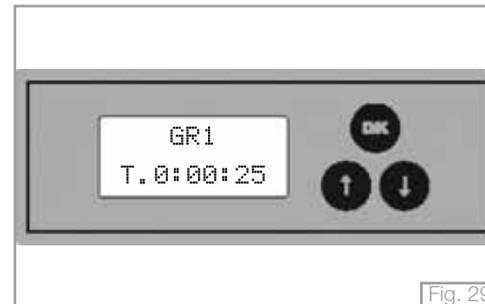


Fig. 29

In the event of simultaneous deliveries on different groups the display shows the delivery time of the last activated group.

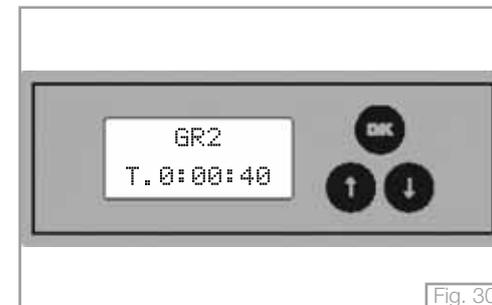


Fig. 30

Push the button  to visualize the delivery times of the groups that had been previously activated.

### 5.15 COUNTER FUNCTION (optional)

COUNTER function allows to record the number of cups of coffee that have been delivered by the machine.

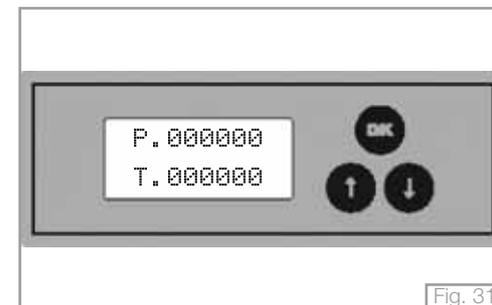


Fig. 31

Once the machine is switched on, the display shows for a few seconds the date and then the partial and total counters.

By pushing the “one short coffee” and “one long coffee” buttons, the counters are increased of one unit. By pushing the “two short coffee” and “two long coffee” buttons, the counters are increased of two units.

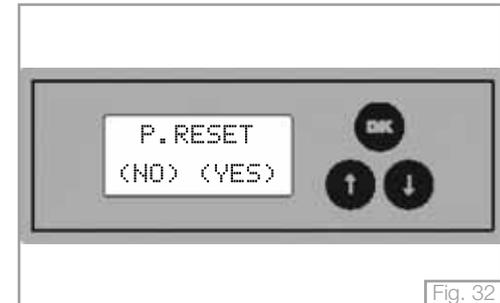


### Take note!

The counters are increased only when the deliveries are equal to or longer than 7 seconds.

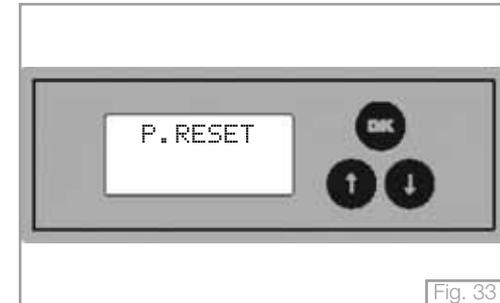
## RESET

To reset the partial counter, push the  button and hold it for 3 seconds; the display will show:



With the (NO) sign flashing.

Push the button , the (YES) sign flashes, push the  button to confirm the partial counter reset; the display will show for some seconds:



Then the display shows the counters again.

## 6 ALARM MANAGEMENT

The machines of this series signal possible malfunctions through symbols on the control panel and touchpads.

### 1. LED CORRESPONDING TO THE COFFEE DOSE BEING delivered FLASHING AFTER 5-6 SECONDS:

Too fine grinding.

Failed reading of the pulses sent by the flow meter to the delivery group.

After checking grinding, if the problem continues, contact an authorised Service Centre.

### 2. ALL DOSE SYMBOLS ON ALL TOUCHPADS FLASHING AND TEMPERATURE SYMBOLS SWITCHED OFF:

The automatic refill system for the boiler has been operating for longer than 3 minutes (total block of all machine functions).

To return to normal operation, turn off the machine with the ON/OFF switch (12).

If the problem persists, switch off the appliance and contact an authorised Service Centre.

### 3. "125 °C" SYMBOL ON AND BLINKING; ALL OTHER SYMBOLS SWITCHED OFF:

When the temperature taken by the sensor is above 140°C (total block of all machine functions).

To return to normal operation, turn off the machine with the ON/OFF switch (12).

If the problem persists, switch off the appliance and contact an authorised Service Centre.

### 4. "105 °C" SYMBOL BLINKING AND ALL OTHER SYMBOLS SWITCHED OFF:

When, 20 minutes after switching on, the temperature taken by the sensor is less than 60 °C (total block of all machine functions).

To return to normal operation, turn off the machine with the ON/OFF switch (12).

If the problem persists, switch off the appliance and contact an authorised Service Centre.

### 5. ALL TEMPERATURE SYMBOLS FLASHING AND ALL TOUCHPAD SYMBOLS SWITCHED OFF:

Temperature sensor in short circuit or failure (total block of all machine functions).

Switch off the appliance and contact an authorised Service Centre.

### 6. M.A.T. SYSTEM DELIVERY BUTTON SYMBOL SWITCHED OFF (only if present):

M.A.T. temperature probe short circuit or failure.

Contact an authorised Service Centre.

**Take note!**

When this alarm condition occurs, it is still possible to foam milk automatically by holding down the M.A.T. delivery button **(20)** until the required temperature is reached. When the button is released, steam delivery will stop.

**7. TECHNICAL ASSISTANCE SYMBOL LIGHT ON**

**(only if SERVICE control has been set by the Technical Assistance):**

This means the number of pre-set solenoid valve action cycles has reached the set alarm threshold.  
Contact an authorised Service Centre.

**8. TECHNICAL ASSISTANCE SYMBOL LIGHT FLASHING**

**(only if FILTER control has been set by the Technical Assistance):**

This means the number of pre-loaded litres for the softener has reached the set alarm threshold.  
Contact an authorised Service Centre.

# **INSTRUCTIONS FOR S8/S9 COMPACT VERSION**

## 5. SWITCHING ON THE MACHINE

### 5.1 FILLING THE BOILER

- A. Open the water supply tap as arranged during the preparatory stages (**See Fig. 12 on page 20**).
- B. Verify that the water mains pressure (approx. 4 bar) is visualized on the water mains pressure gauge (**14**).
- C. Push the manual filling valve on the appliance (it is placed below the water drip tray) until the boiler level indicator is halfway (**16**).

### 5.2 SWITCHING ON THE APPLIANCE

- A. Turn on the power supply switch that was prearranged during the system preparation (**see Fig. 11 page 18 – Ref. 1**), and then turn on the machine's main switch (**12**).  
Once the machine is switched on, all the symbols of touchpads are on.



#### **Take note!**

According to the amount of water filled manually, it is possible to activate the automatic refill system when the switch (**12**) is turned on, until the boiler water level indicated by the manufacturer is reached.

### 5.3 GROUP DOSE SETTING – EK MODEL

Hold down the free flow button  on the first touchpad from the right (1st GROUP) for about 5 seconds, until the symbol begins to flash (the dose symbols stay lit) and all the symbols on the other touchpads switch off.

Within 30 seconds fasten a filter holder (**18**) containing a dose of ground coffee to the group; put a cup below the filter holder and press the button “1 short coffee” (**m**) on the corresponding touchpad. The symbol for the selected dose will remain lit to indicate that the dose is being set. The symbol flashes while all others are switched off.

When the coffee reaches the required dose, press the button “1 short coffee” (**m**) again to stop the coffee delivery and confirm the required dose. When the dose has been set, the relevant symbol will switch off to show that programming is complete.

Repeat this operation for the other buttons (**n-p-q**), also on the touchpad on the right.

 **Take note!**

Carry out this procedure to program the remaining doses, using the 1-cup filter holder (**18**) or the 2-cup one (**7**), according to the type of dose to be programmed.

 **Take note!**

To quit the programming function, press the free flow delivery button (**o**) for 5 seconds or, alternatively, wait 1 minute to quit the function automatically.

 **Danger!**

By setting the doses on the first touchpad on the right, automatically the other groups will be acquiring the same doses; if you want to set a group with different doses, repeat the same dose setting procedure on the touchpad corresponding to the group you want to program differently.

## 5.4 SETTING NEW OPERATING TEMPERATURE PARAMETERS

The electric heating system of the appliance is already set by the manufacturer to operate at a temperature of 120 °C in the boiler, corresponding to 1 bar boiler pressure. Boiler pressure is viewed on the pressure gauge (11) situated on the front panel of the appliance. In order to increase or decrease the boiler pressure, it is necessary to operate on the electric pressure switch (Fig. 34) which is inside the machine (on the right side), as indicated here below:

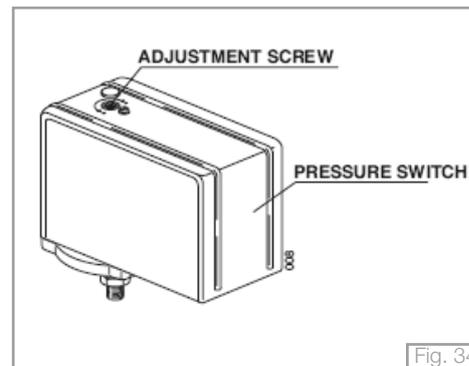
- Turn the adjustment screw anti-clockwise to increase boiler pressure.
- Turn the adjustment screw clockwise to decrease it.



**Danger!**

Cut off power while operating on the pressure switch.

Boiler pressure (at operating temperature) is normally modified exclusively in order to adapt the machine temperature to the particular type of coffee blend so as to obtain the best result in the cup.



## 5.5 ELECTRIC CUP WARMER (optional)

In the models equipped with the electric cup warmer, to activate it, move the main switch button from position **1** (standard operation of the machine) to position **2**. To deactivate it, move it back to position **1**.

## 5.6 INDIVIDUAL TEMPERATURE CONTROL - I.T.C. - (optional)

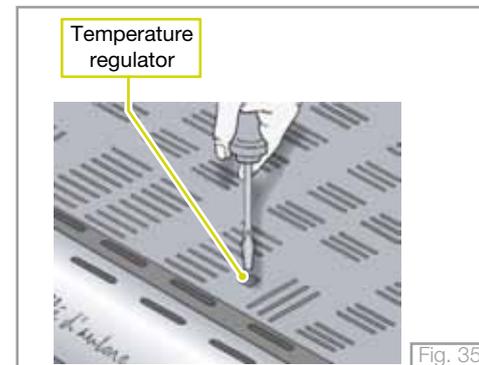
This system makes it possible to set a different coffee brewing temperature for each delivery group.

**The temperature of each group is independent from the temperature set in the boiler.**

To vary the temperature on a group, use the corresponding regulator alongside the group itself, which can be reached through the opening in the top of the, upper cup grid (1) (**Fig. 35**).

Turn the adjustment screw anticlockwise to decrease the temperature.

Turn the adjustment screw clockwise to increase the temperature.



### **Take note!**

Every full turn of the adjustment screw corresponds to a change of approximately 2 °C.

Changes must only be made to adapt the temperature of the delivery group to the coffee blend being used, so as to improve the result in the cup.

## 6. ALARM MANAGER – EK MODEL

This model communicates any anomalies through the relevant symbols on the touchpads.

### 1. SYMBOL CORRESPONDING TO THE COFFEE DOSE BUTTON ON DELIVERY MODE, FLASHING AFTER 5-6 SECONDS:

- Coffee ground too finely.
- Missing reading of the pulses sent by the flow meter to the dispensing group.

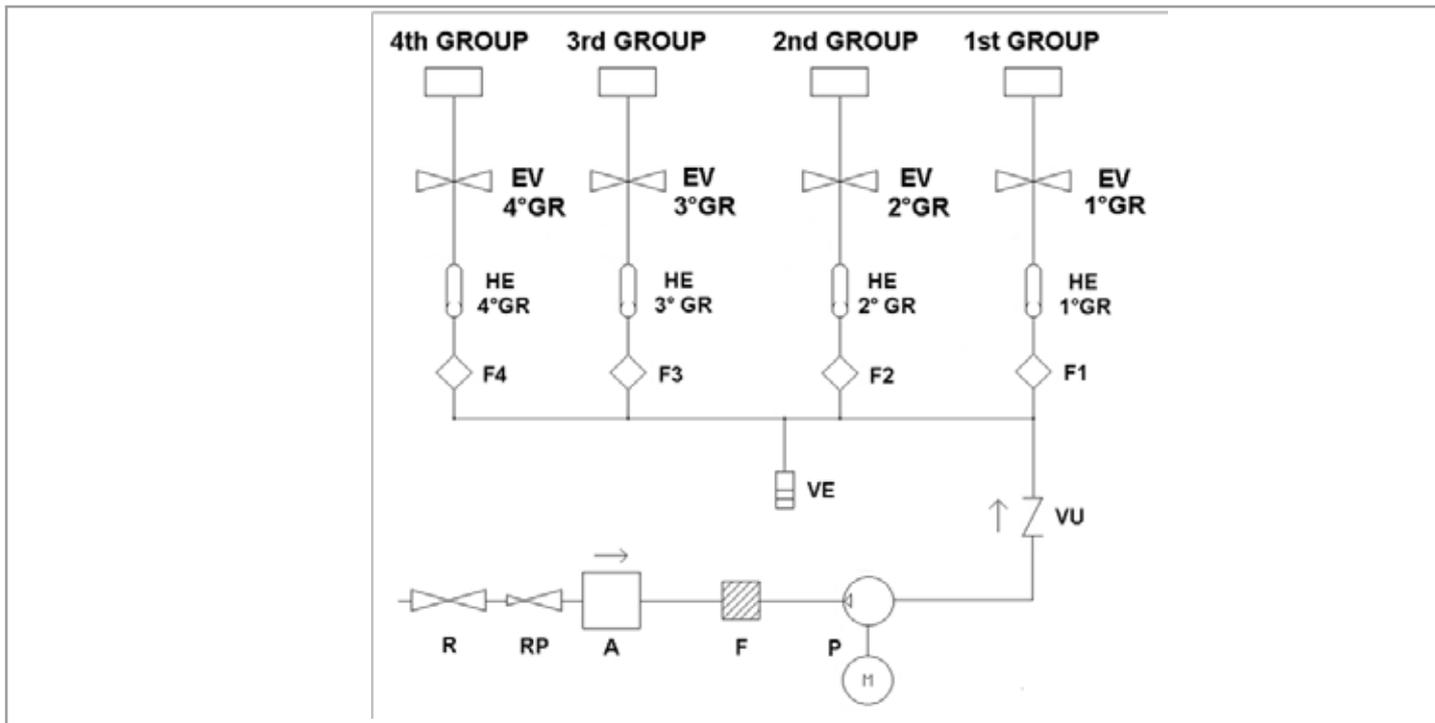
### 2. ALL DOSE SYMBOLS ON ALL TOUCHPADS FLASHING AND TEMPERATURE SYMBOLS SWITCHED OFF:

- The automatic refill system for the boiler has been operating for longer than 3 minutes (total block of all machine operations). To restore normal operation, switch the machine off using the main switch.

If the problem occurs again, check the automatic refill system for the boiler.

# DIAGRAMS

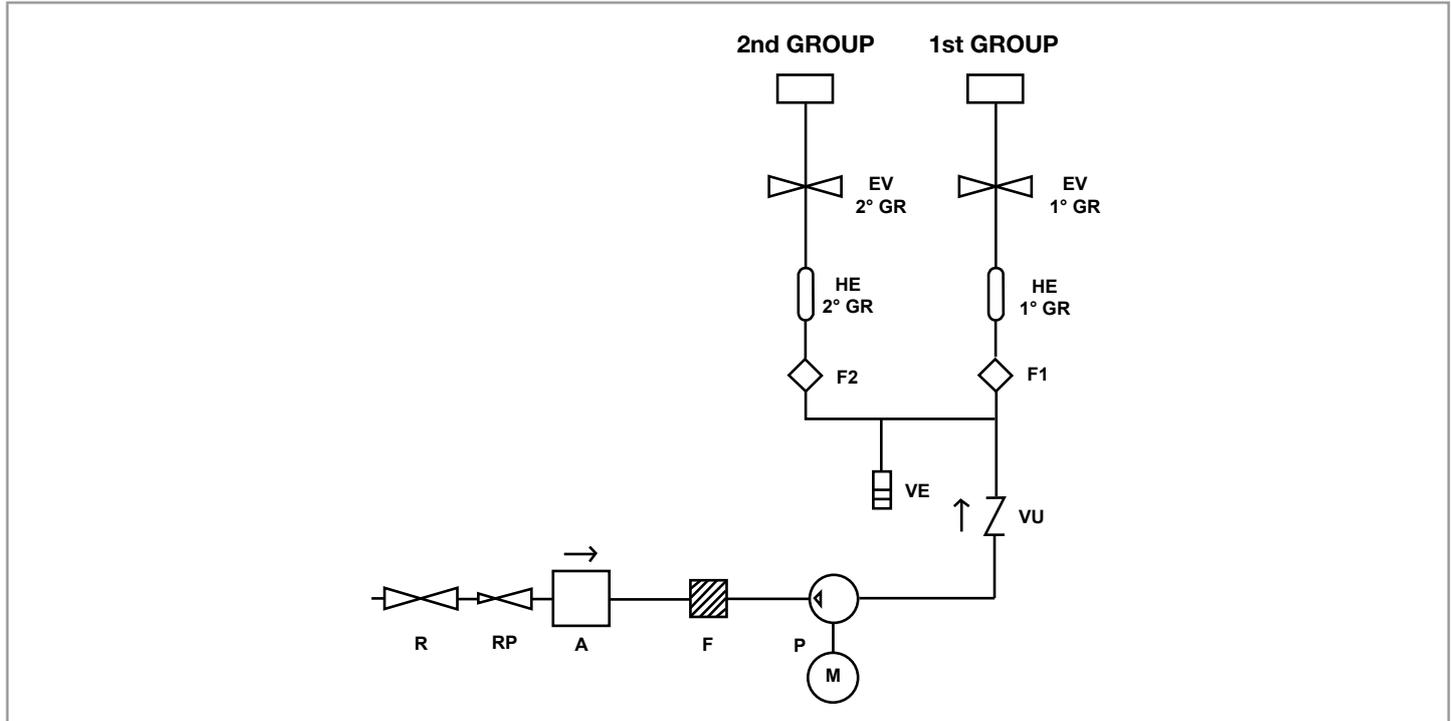
## 7 S8/S9 WATER LAYOUT DIAGRAM



### Legend:

- |  |  |  |
|--|--|--|
| <b>R</b> Water tap (prearranged by the customer) | <b>F</b> Filter (optional)                   | <b>F2</b> Flowmeter 2nd group from the right |
| <b>RP</b> Pressure reducer (optional)            | <b>P</b> Motor pump                          | <b>F3</b> Flowmeter 3rd group from the right |
| <b>A</b> Water softener (optional)               | <b>VU</b> One-way valve                      | <b>F4</b> Flowmeter 4th group from the right |
|  | <b>VE</b> Expansion valve                    | <b>HE</b> Heating exchanger                  |
|  | <b>F1</b> Flowmeter 1st group from the right | <b>EV</b> 3 way solenoid                     |

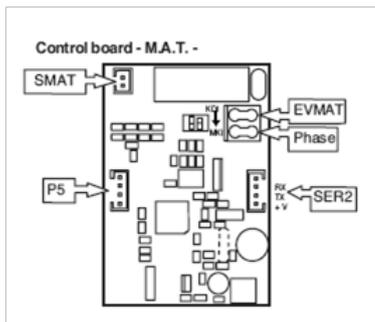
## 7.1 S8/S9 COMPACT WATER LAYOUT DIAGRAM



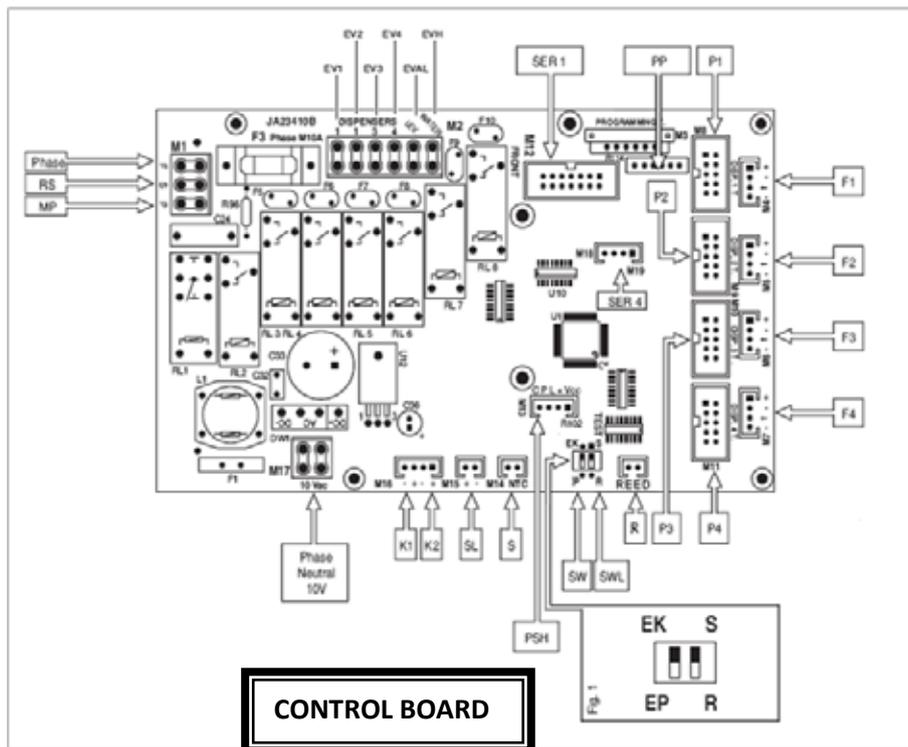
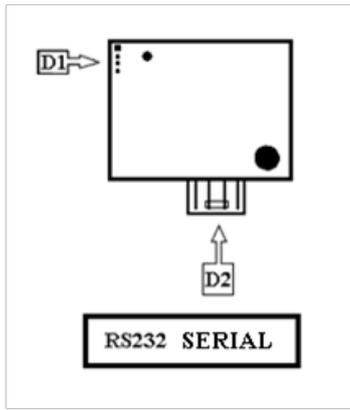
### Legend:

<b>R</b>	Water tap (prearranged by the customer)	<b>F</b>	Filter (optional)	<b>F2</b>	Flowmeter 2nd group from the right
<b>RP</b>	Pressure reducer (optional)	<b>P</b>	Motor pump	<b>HE</b>	Heating exchanger
<b>A</b>	Water softener (optional)	<b>VU</b>	One-way valve	<b>EV</b>	3 way solenoid
		<b>VE</b>	Expansion valve		
		<b>F1</b>	Flowmeter 1st group from the right		

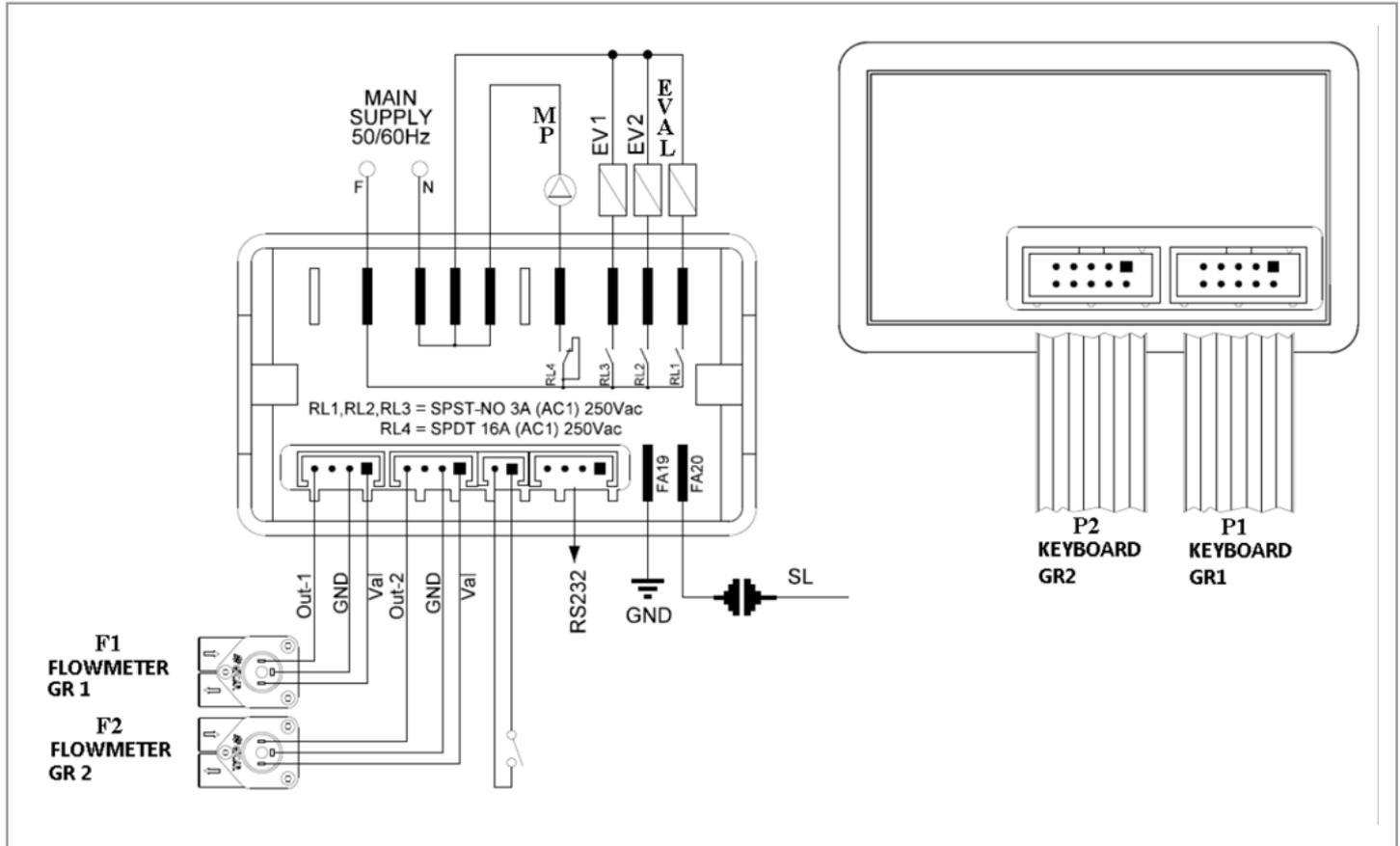
## 8 DIAGRAMS FOR ELECTRONIC BOARD CONNECTIONS



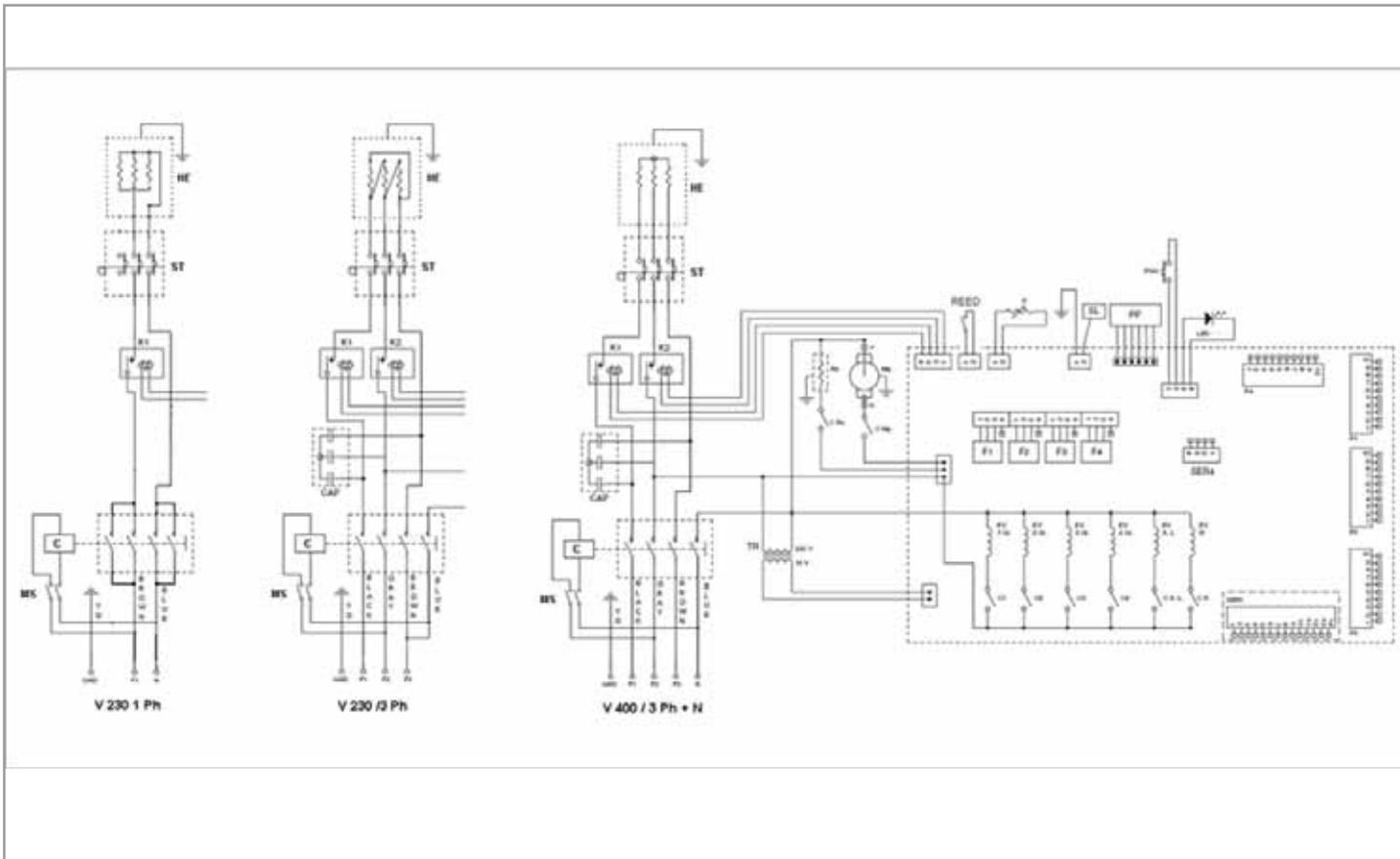
**MAT BOARD**



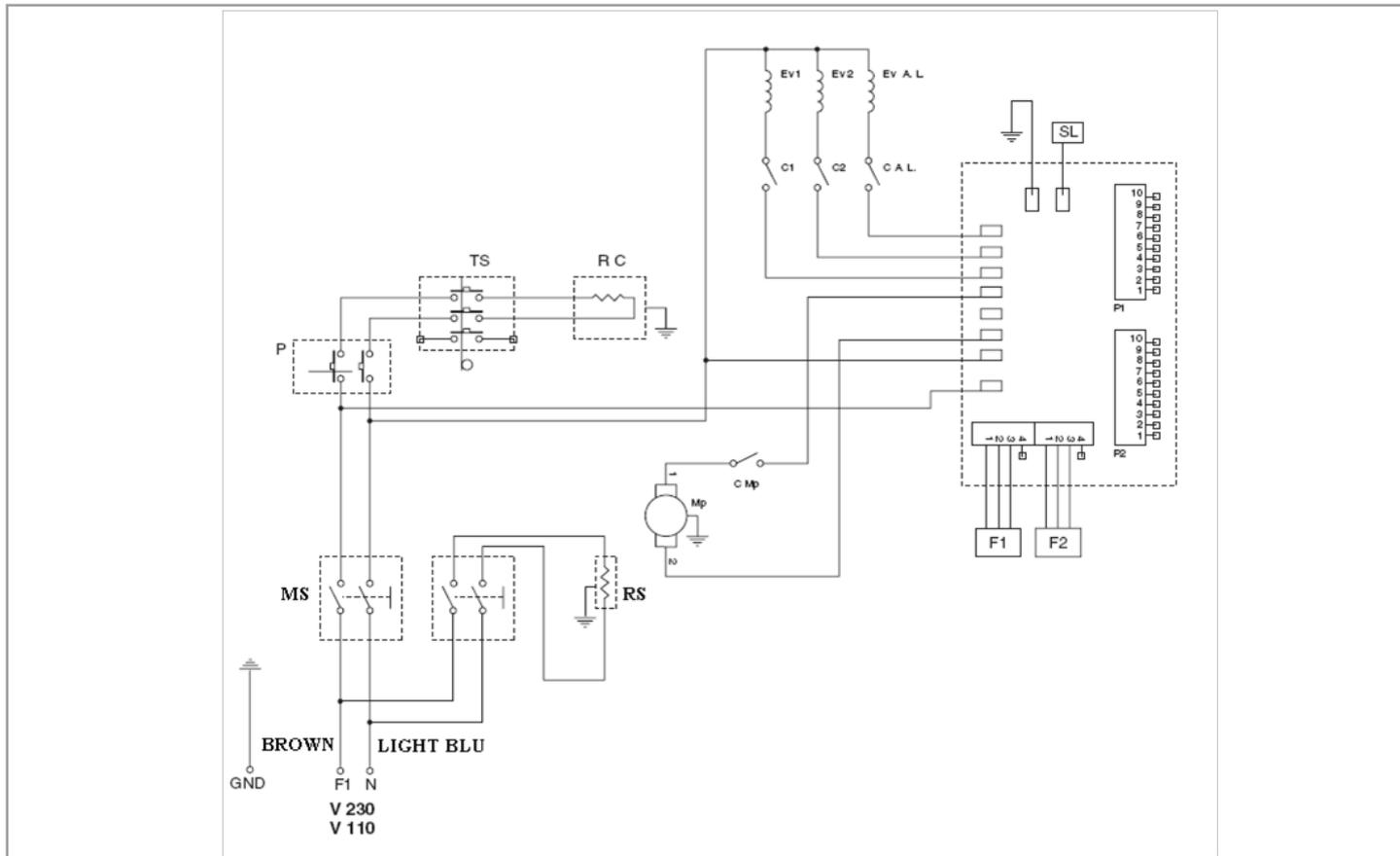
**8.1 S8/S9 COMPACT DIAGRAMS FOR ELECTRONIC BOARD CONNECTIONS**



## 9 WIRING DIAGRAMS



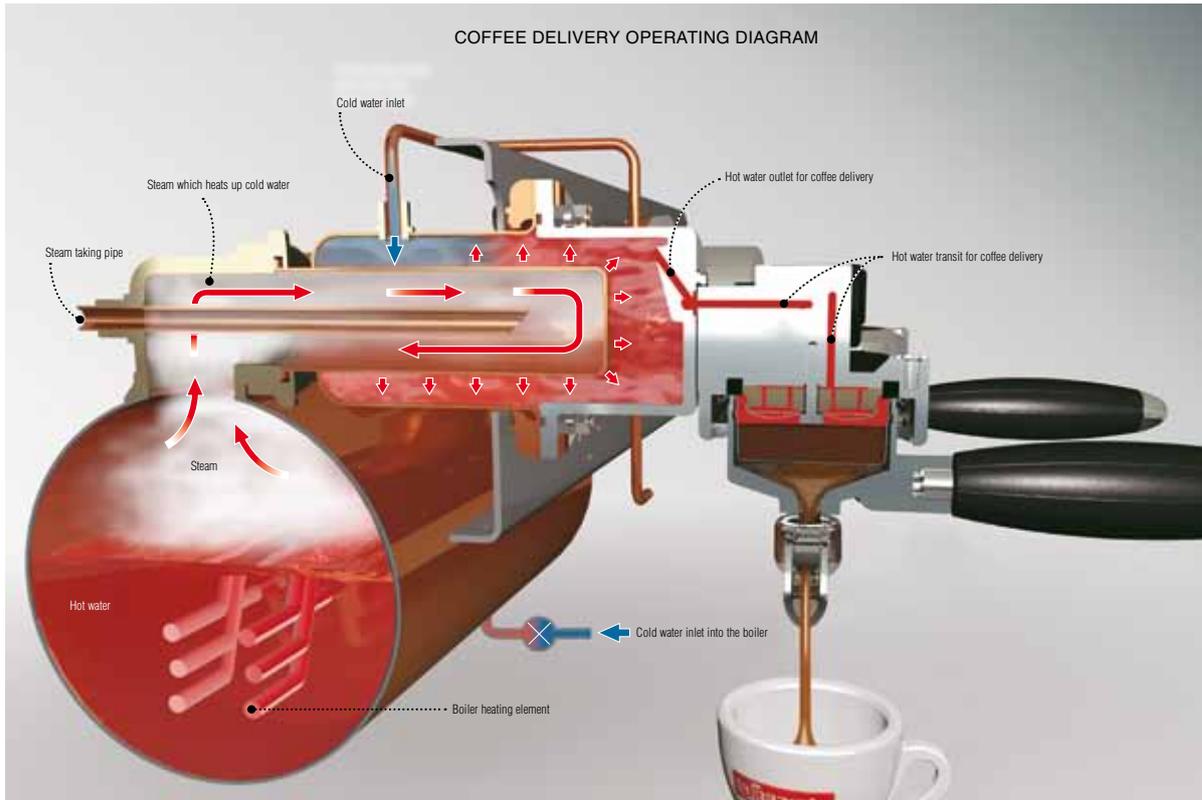
**9.1 S8/S9 COMPACT WIRING DIAGRAMS**



## 9.2 KEY DIAGRAM

<b>MP</b>	Motor pump	<b>CMP</b>	Control board relay controlling the motor-driven pump
<b>RS</b>	Cup warmer heating element	<b>C1</b>	Control board relay controlling the solenoid valve, 1st group from the right
<b>RC</b>	Boiler heating element	<b>C2</b>	Control board relay controlling the solenoid valve, 2nd group from the right
<b>EVAL</b>	Solenoid valve, automatic water refill	<b>C3</b>	Control board relay controlling the solenoid valve, 3rd group from the right
<b>EV1</b>	Solenoid valve, 1st group from the right	<b>C4</b>	Control board relay controlling the solenoid valve, 4th group from the right
<b>EV2</b>	Solenoid valve, 2nd group from the right	<b>CAL</b>	Control board relay to control the automatic water level solenoid valve
<b>EV3</b>	Solenoid valve, 3rd group from the right	<b>CH</b>	Control board relay to control the timed water solenoid valve
<b>EV4</b>	Solenoid valve, 4th group from the right	<b>SER4</b>	Serial connection RS232
<b>EVH</b>	Solenoid valve, timed water (optional)	<b>SER1</b>	Front panel connection to power board
<b>PSH</b>	Timed water button (optional)	<b>P5</b>	Button - M.A.T. -
<b>PP</b>	Programming touchpad	<b>SMAT</b>	Probe - M.A.T. -
<b>P1</b>	Touchpad, 1st group from the right	<b>EVMAT</b>	Solenoid valve - M.A.T. -
<b>P2</b>	Touchpad, 2nd group from the right	<b>SER2</b>	Technical assistance display connection -G.A.-CRO-NO-COUNTER
<b>P3</b>	Touchpad, 3rd group from the right		
<b>P4</b>	Touchpad, 4th group from the right		
<b>S</b>	Temperature probe in the boiler		
<b>F1</b>	Flow meter for 1st group from the right		
<b>F2</b>	Flow meter for 2nd group from the right		
<b>F3</b>	Flow meter for 3rd group from the right		
<b>F4</b>	Flow meter for 4th group from the right		
<b>CAP</b>	Filter		
<b>D1</b>	Controlboard connection		
<b>D2</b>	Serial connector		
<b>P</b>	Pressostat		
<b>MS</b>	Main switch		
<b>K1&amp;K2</b>	Static relays		
<b>C</b>	Contacteur		
<b>SL</b>	Control for water level in the boiler by probe		
<b>REED</b>	Control for water level in the boiler by floater		
<b>TS</b>	Safety thermostat with manual reset		
<b>TR</b>	Transformer for board		
<b>CRS</b>	Control board relay controlling the cup warmer heating element		

All espresso coffee machines by LA SPAZIALE have been built with an heat exchange system between the boiler and the coffee delivery group. A special patent, the only in the world, for the thermoregulation of the delivery group with steam circulation instead of water.



<http://www.laspaziale.com/index.php/en/video>

## 10 TECHNICAL DATA

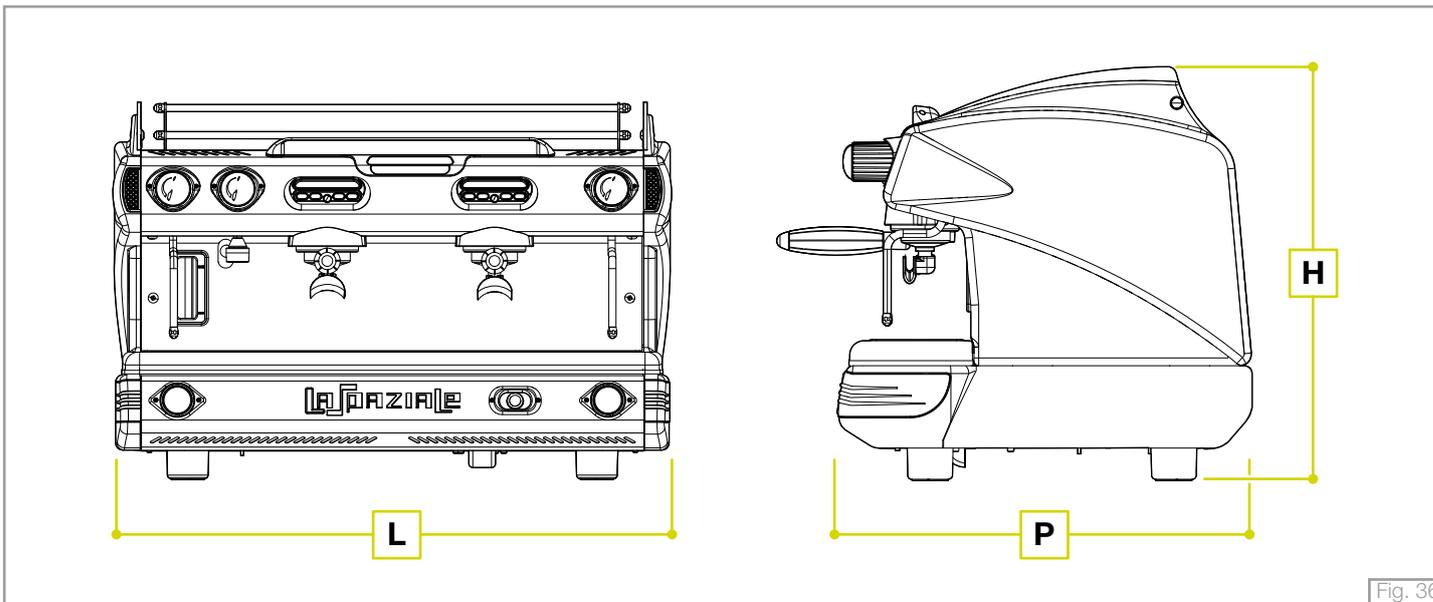


Fig. 36

### DIMENSIONS AND WEIGHT

S8 - S9	2 GR	3 GR	4 GR	COMPACT
L	770	1000	1235	580
H	520	520	520	520
P	530	530	530	530
WEIGHT KG	65	80	97	54

### POWER SUPPLY RATING AND ABSORPTION

S8 - S9	2 GR	3 GR	4 GR	COMPACT
VOLT	220/240/400	220/240/400	220/240/400	220/240
Hz	50/60	50/60	50/60	50/60
W	3500	4500	6000	3000
W+	4100	6500	-	3800

The 'W+' symbol refers to the machine's power with upgraded heating element.









espresso coffee machines

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