

SOFIA ESPRESSO





CERT. N° 9191 BNVN
CSQ
ECC
UNI EN ISO 14001:2004





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10. PUTTING THE MACHINE OUT OF SERVICE

10.1 Putting the machine out of service temporarily

- Carry out all the cleaning and maintenance operations.
 Disconnect and wrap up the power supply cable.
 Disconnect the water supply tube.
 Cover the machine and store it in a dry place, not exposed to bad weather and with exclusive access.
 For the conduction of the machine disconnection operations from the utility supply mains, please contact qualified personnel.

10.2 Putting the machine out of service definitely

- Disconnect and wrap up the power supply cable.
 Disconnect the water supply tube.
 Cut off the supply cable, pack up the machine and deliver it to personnel in charge of specifically certified waste recycling or used machinery collection centres.

11. TROUBLE SHOOTING

The following are inspection operations that can be carried out by the operator with the machine powered down and unplugged from the power mains. For any other type of anomaly or non-specified machine inconveniency, unplug the machine from the power mains, do not proceed with direct attempts at repairing the machine and immediately contact qualified and authorised sales service network personnel.

1) The machine will not start up:	- Check to ensure that the power mains plug has been plugged in correctly	
	- Check to censure that the differential, magneto-thermal and main switches are all correctly engaged	
	- Check the condition of the power supply cable and mains plug. If they are damaged, please contact qualified and authorised personnel for replacement.	
2) Water found under the machine	- Check to censure that the tray discharge is not obstructed.	
3) Slow dispensing speed	Check filter and spout/sprayer conditions to make sure they are clean.	
	- Check to make sure that the coffee has not been ground too finely	
4) Irregular steam supply	- Check to censure that the spout nozzles are not obstructed.	



9. MAINTENANCE

Unless otherwise specified, all maintenance operations must be carried out when the machine is totally powered down to OFF, it has cooled down and the mains socket is unplugged. Use of metal, abrasive tools and solvents is not recommended for machine cleaning operations:

they could all cause damages.

where indicated, use specific detergents for coffee machi-nes that are available on sale in the specialised technical service centres.

9.1 Daily maintenance

- 9.1 Dany maintenance
 For cleaning operations use cloths or sponges that will not release fibres or threads.
 Clean the bodywork accurately and, on the stainless stele parts, rub in the direction of the satin finish.
 Clean the steam and the hot water dispenser pipes. Check to see that the spout diffuser nozzles are not clogged or partially clogged with routst and residues. If a crust removal operation is necessary, be very careful not to deform or damage the relative
- necessary, be very careful nict to derorn or damage the readve-sprayer. Remove the filter baskets from the machine then remove the filters and proceed with removing any coffee encrustations. To remove grease deposits rinse out the filters and filter baskets using hot water.

9.2 Weekly maintenance

9.2.1 Cleaning the dispensing groups

- This operation must be conducted whilst the machine is operative and under pressure.

 Place the blind filter on issue with the machine into the filter basket. Add in a spoon of specific coffee machine detergent, then reassemble the filter basket back into the group to be
- cleaned. Activate the coffee dispensing start command on the group for about 30 seconds. In the Automatic version, once the filter basket is assembled
- back on again, press keyboard keys 14 and 18 simultaneously. The machine will automatically run five wash cycles. Start up and stop the dispensing cycles for the number of times required, until clean, clear water flows out of the group dispensions.
- mes required, until clean, clear water flows out of the group discharge. Remove the filter basket, remove the blind filter and insert a normal filter. Reassemble the filter basket back on and activate the dispensing cycle for as many times as required to ensure sufficient rinsing.

 Make a coffee to eliminate any possible unpleasant tastes.

9.2.2 Cleaning the filters

- Prepare a cleaning solution using hot boiling water plus a packet of the specific coffee machine powder detergent, in a container that is not in aluminium or iron.
- Remove the filters and soak them together with the filter baskets in said solution for at elast 20 minutes (if possible, all-night soaking is preferable). remove the filters and the filter baskets from the deterging solution and rinse them thoroughly under plenty of running
- water.

9.2.1 Cleaning the collection tray

- Remove the cup carrier grid from the tray and clean if neces-sary. Remove the discharge tray and clean it to remove any possible encrustations and/or coffee grounds residues.

9.3 Periodic maintenance tasks

9.3.1 Water replacement and total emptying out of the boiler

This operation must be conducted by the technical service per-

- nnel.
 Power the machine down to OFF and wait until there is no more pressure inside the boiler (i.e. the pressure gauge must be on "0")
 Remove the safety valve by unscrewing it at the base using an adjustable spanner (size 21).
 Use a pump to suck up all the water in the boiler.
 Reassemble the safety valve back on again.
 Proceed with filling the boiler back up again.

9.3.2 Regeneration of the water treatment units

For the regeneration of the water treatment units, please consult the relative user's manual and follow the instructions therein.

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DECLARATION OF CONFORMITY

La **BIANCHI VENDING GROUP S.p.A.** Corso Africa, 9 - 24040 Zingonia di VERDELLINO (BG) Italia

states that the range of professional coffee machines model:

SOFIA ESPRESSO

is complying with the safety measures foreseen by the directives:

EEC 73/23 ⇒ EEC 93/68 ⇒ EEC2006/95 EEC 89/336 ⇒ EEC 91/263 ⇒ EEC 92/31⇒ 93/68 ⇒ EEC 2004/108 Low Voltage Directive Electromagnetic compatibility - LV -

MATERIALS AND ARTICLES IN CONTACT WITH FOOD

(2) REG. (EC) 1895/2005
(2) REG. (EC) 1895/2005
(2) REG. (EC) 1895/2005
(2) REG. (EC) 1895/2005
(3) REG. (EC) 1895/2005
(4) REG. (EC) 1895/2005
(5) REG. (EC) 1895/2005
(6) REG. (EC) 1895/2005
(7) REG. (EC) 1895/2005
(8) REG. (EC) 1895/2005
(9) REG. (EC) 1895/2005
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(2) REG. (EC) 1895/2005
(3) REG. (EC) 1895/2005
(4) REG. (EC) 1895/2005
(5) REG. (EC) 1895/2005
(6) RE (3) DIR. 2002/72 EC relating to plastic materials and articles intended to come into contact

The tests have been made in accordance with the Harmonized European Standards 1) LOW VOLTAGE (Electrical safety LV):

(Safety of Household and Similar Electrical Appliances) (Safety for Vending and dispensing Machines) Measurement of acoustic noise Sound Pressure Level: LpA < 70 dB(A) EN 60335-1: 2002 + A1+ A11 EN 60335-2-75: 2004+ A1 EN ISO 11201 + EN ISO 3744

2) ELECTROMAGNETIC COMPATIBILITY (EMC)

EN 55014-1:2000+A1+A2 EN 55014-2:1997+A1 EN 61000-3-2: 2000+A2 EN 61000-3-3:1995+A1+A2

EN 61000-4-4 EN 61000-4-5 EN 61000-4-6 EN 61000-4-11 EN 61000-4-2

EN 50366:2003 +A1 Measurement of Electromagnetic field

3)

MATERIALS AND ARTICLES IN CONTACT WITH FOOD D.M. 21-03-1973 and its amendements \Rightarrow D.M. 2006 May 4th nr. 227, and receiptment of European Directives: 82/711/EEC, 85/572/EEC, 93/8/EEC, 97/48/EC, 2002/72/EC, 2004/13/EC, 2004/19/EC, 2005/79/EC, Reg. EC n. 1935/04 e Reg.EC n. 1895/2005.

Zingonia di Verdellino (BG), 01/05/2008

CHIEF EXECUTIVE OFFICER Omero De Martin



INFORMATION TO THE USERS

Under Legislative Decree 25 September 2007, no.185 and art. 13, Legislative Decree 25 July 2005, no.151 "Implementation of Directives 2002/95/EC, 2002/96/EC and 2003/108/EC, regarding the reduction of use of hazardous substances in electrical and electronic equipment as well as waste disposal

The barred waste container symbol on the equipment disposed of separately from the other types of waste. The barred waste container symbol on the equipment means that the product, at the end of its service life, must be

The user must therefore convey the equipment, at the end of its service life, to the appropriate separate collection centres for electronic/electrotechnical waste products or return it to the dealer when purchasing a new equivalent equipment.

The appropriate separate collection and the following sending of the used equipment to recycling, treatment and eco-friendly disposal will help avoid negative effects on the environment as well as on health along with an easier recycling of the materials

Any unauthorized disposal of the product by the user will imply the enforcement of the administrative sanctions as set out in Legislative Decree no. 22/1997 (article 50 and following articles, Legislative Decree no. 22/1997).



7. OPERATION

7.1 How to make coffee

- Detach the filter basket from the dispensing group. Turn it upside Detach the filter basket from the dispensing group. Turn it upside down and knock down on the filter edge area (taking care not to damage the filter) directly onto the coffee grounds collector tray to empty out all the coffee grounds.

 Use the single dose or double dose filter, as required. Fill up the filter with the dose of ground coffee, level the coffee out and press in lightly using the appropriate coffee presser. Remove any ground coffee remnants possibly still on the edge of the filter.

Leaving ground coffee remnants on the edge of the filter may prevent the seal from closing tightly enough with su-

- may prevent the seal from closing tightly enough with subsequent loss of water and coffee grounds.

 Hook the filter basket up onto the dispensing group firmly enough to ensure optimised tightness.

 Position the cups under the dispensing spouts. Start up the coffee dispensing cycle by pressing in either the key or the pushbutton, depending on the relative machine version.

 Once coffee dispensing is complete, leave the filter basket in the dispensing until the next dispensing cycle is run.

During the dispensing cycles, beware of the hot machine parts I.e. particularly the coffee dispensing groups, the steam spoults and the hot water dispensing groups, the steam spoults and the hot water dispenser pipes. Placing one's hands under the dispensing group and spouts during machine operation is strictly prohibited.

7.2 How to make cappuccino

- Make a dose of coffee in a cappuccino cup
- make a dose of conten in a cappuction cup.

 Fill a tall, rather narrow container up halfway with milk.

 Position said container under the steam dispenser nozzle so that the nozzle touches the bottom of the container.

 Open the steam tap and lower the container until the steam spray skims the surface of the milk.
- spray skims the surface of the milk. Keep moving the container up and down vertically so that the nozzle simultaneously moves in and out, frothing the milk (to a creamy foam) Close the steam tap and pour the frothy milk into the cappuccino

Library are steam tap and pour the frothy milk into the cappuccino cup containing the coffee.

Once done, immediately wipe off the steam dispenser nozzle using a clean, dry cloth. This will avoid milk residue crusts on the spout.

Warning: the nozzle will be very hot. To avoid skin burn hazards, avoid touching it directly whilst cleaning.

7.3 How to heat up a drink

- Plunge the steam dispenser nozzle directly into the liquid that
- requires heating.

 Open the tap gradually to enable the steam to exit the spout. This will enable the steam to gradually heat the liquid up to the required temperature.

 Once the temperature has been reached, close the steam to t

Once done, immediately wipe off the steam dispenser nozzle using a clean, dry cloth.

Warning: the nozzle will be very hot. To avoid skin burn hazards, avoid touching it directly whilst cleaning.

7.4 How to make teas and infusions

- Position a container under the hot water dispenser pipe and press the relative pushbutton to start drawing the hot water. Once the required quantity of hot water has been drawn, press the pushbutton again to stop drawing.

the pushbutton again to stop drawing.

Add the required tas flavour into the hot water.

The use of treated water may cause the tea or infusion to have a darker appearance compared to use of standard water. If normal tea or infusion colouring is preferred, proceed with heating up non-treated water as described under previous section 7.3.

8. DOSAGE ADJUSTMENT AND CALIBRATION (for versions equipped with this function)

8.1 Electronic dosage machine versions

The overall series of Sofia Espresso coffee machines is available in automatic coffee dosage versions (Automatic). Said dose can be adjusted and customised.

8.1.1 Dosage adjustment

Coffee dose adjustments are carried out by acting on the group keypads:

- Arrange the filter basket, either single or double based on the key to be adjusted, as described under the "how to make coffee"
- Keep the key (Fig. 8.1 item 18) pressed in until the relative LED flashes and the versions fitted with a display show up the "PROGRAMMING SELECT WITHIN 30s" message
- The flashing led indicates that the machine is in the programming phase. Once 30 seconds have gone by the machine will automatically revert to operation mode.
- automatically revert to operation mode. Whilst the LED is flashing, press the key relative to the dosage that must be programmed, to start dispensing. During the dispensing cycle, the LED corresponding to the selected program key will stay on, as will the LED on key (18). The versions titted with a display will show up the "PROGRAM-MING" message followed by the type of coffee being adjusted (espress or "long" diluted (i.e. weaker).
- Wait for the cup dose to reach the required quantity, then press the key again to stop the dispensing cycle.

the key again to stop the dispensing cycle.

The adjusted quantity is stored by the electronic power pack.

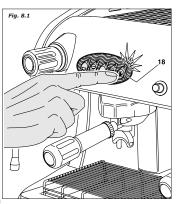
repeat the operation on the remaining keys. The LEDS relative to keys that have already been programmed will stay OFF.

For dose adjustments on machines with two or three dispensing groups, start the adjustment operations from the keyboard that is first to the left on the machine frontlet.

The electronic power pack will automatically store and apply the adjustments to the other machine keypads.

the adjustments to the other machine keypads.

If adjustment of the groups relative to the second and/or third keyboard is also required, start the procedure all over again from the beginning.





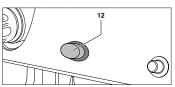
Level display (5) indicates the level of the water in the boiler. The Sofia Espresso coffee machine series have been equipped with a device that automatically keeps the water leve in the boiler constant, by acting on the pump and on the electrovalve. If said level were not visible, switch the machine off and contact the sales service network. itch the ma-

Display (3) [only for Automatic models that are equipped with one]

The multifunction display that the machine is provided with pro-vides useful indications to the user on the machine operation

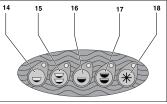
- Upon machine start-up and during possible boiler fill-up operations, the display unit displays the "boiler fill-up" message.
- During the machine's standby mode the display will show up the "select drink" message followed by another, customised message entered by the user.
- During the dosage programming phase, the display will show up the operations being run by the machine (section 8 refers)

Pushbutton dispensing version control-pushbutton.



Key 12 coffee dispensing pushbutton

Multifunction keypad (only for the Automatic versions)



 $\ensuremath{\text{\textbf{Key 14}}}$ dispenses the dose necessary for the preparation of one single espresso coffee

Key 15 dispenses the dose necessary for the preparation of two espresso coffees

 ${\bf Key~16}$ dispenses the dose necessary for the preparation of one single further diluted (i.e. weaker) espresso coffee **Key 17** dispenses the dose necessary for the preparation of two further diluted (i.e. weaker) espresso coffees

Key 18 activates continuous dispensing. Pressing the key for a second time, dispensing is interrupted.

6.2 Avvio macchina

- After having run another examination of the electric and hydraulic system connections, open the hydraulic system inlet tap.
- Position selector switch (11) on first position and wait until the electronic power pack that the machine is equipped with, executes the necessary control runs and activates the pump and electro valve for boiler fill-up

and electro valve for boller fill-up
If the boller is aiready at full level, the automatic level
control will prevent the pump from starting up again

Via the appropriate level display (5) check that the boller is at
full level and that the pump is on standby.
Semi-Automatic dispensing version:

Position the empty filter basket into the dispensing group, then press pushbutton (12) and wait for the water to run out of the filter basket spout. Press the pushbutton once again to end the water dispensing cycle.

Automatic dispensing version:

Position the empty filter basket into the dispensing group, then press pushbutton and wait for the water to run out of the filter basket spout. Press the pushbutton once again to end the water dispensing cycle.

- uspensing cycle.

 Position selector switch (11) onto position 2, the signal light (13) on the side will light up and the heating element will begin the heat-up phase of the water in the boiler.
- Wait for the red signal light (13) to go off, meaning that the ideal pressure in the boiler has been reached.

During machine operations the red signal light will go on and off at irregular intervals, depending on machine use.

When the red signal light (13) goes off, it means that the heating element is off as well.

- Semi-Automatic dispensing version:
 Position the filter basket filled with the ground coffee into the dispensing unit.
- The cup/cups under the dispensing spout
- Press the coffee dispensing pushbutton (12) that is located in the foreground
- Once the required quantity of coffee has been dispensed into the cup, press the coffee dispensing pushbutton (12) again to stop dispensing.

- Automatic dispensing version:

 Position the filter basket filled with the ground coffee into the dispensing unit.
- The cup/cups under the dispensing spout
- Press key (14) for the coffee to be dispensed in one single cup. The coffee dispensing cycle will end automatically
- Press key (15) for two espresso coffees to be dispensed. The coffee dispensing cycle will end automatically
- Press key (16) for the dispensing of one further diluted (i.e. weaker) espresso coffee, in one single cup. The coffee dispensing cycle will end automatically
- Press key (17) for the dispensing of two further diluted (i.e. weaker) espresso coffee, into two cups. The coffee dispensing cycle will end automatically
- Press key (18) for the continuous coffee dispensing mode.

BEFORE USING THE MACHINE, READ THIS MANUAL CAREFULLY FOR ITS CORRECT USE IN AC-CORDANCE WITH THE CURRENT safety STANDARDS.



ATTENTION: Important safety indications



READ the instruction manual machine carefully before using the machine



For any service or maintenance switch off the machine



ATTENTION: machine switched on



ATTENTION: hot parts in contact!



PE Earthing indication



IMPORTANT NOTICES

OPERATOR



By "operator" we mean the person assigned to machine use and operation and to coffee refilling tasks. The operator must furthermore take care of all the necessary machine cleaning operation In the event of machine breakdowns, the operator is required to contact the installation and service technicians accordingly.

INSTALLATION TECHNICIAN



The installation technician is defined as the person responsible for the installation of the coffee ma-chine, the starting up operations and the function settings. Each regulation operation is the exclusive responsibility of the installation technician who also holds

the programming access password.

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1.0 INTRODUCTION



1.1 Directions and instructions for operators

This coffee brewing machine has been engineered and constructed in full compliance with all the laws and regulations currently in force on safety issues. It is deemed as being safe to machine operators that accurately comply with all the directions and instructions provided in this Manual.

. The user must not under any circumstances remove the guards that require a tool for removal.

Some maintenance operations (to be done solely by specialized technicians and indicated in this manual with a special symbol) require that specific safety protections of the machine must be switched off .

switched off. In accordance with the current safety regulations, certain opera-tions are the exclusive responsibility of the installation technician, and the ordinary maintenance technician may have access to specific operations on with specific authorization. The acquaintance and absolute respect, from a technical point of view, of the safety instructions and of the danger notices contained in this manula, are fundamental for the execution, in conditions of minimum risk, for the installation, use and maintenance of this machine.

1.2 General Instructions



Knowledge of the information and instructions contained in the present manual is essential for a correct use of the coffee machine on the part of the user.

Interventions by the user on the coffee machine are allowed only if they are of his competence and if he has been duly trained. The installation technician must be fully acquainted with all the mechanisms necessary for the correct operation of the coffee machine.

actinic. It is the buyer's responsibility to ascertain that the users have been trained and are informed and regulations indicated in the technical documentation supplied.

Despite the full observance of the safety regulations by the constructor, those who operate on the coffee machine must be fully aware of the potential risks involved in operations on the machine.

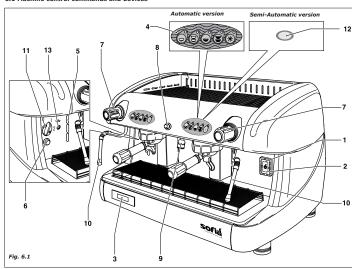
- This instruction manual constitutes an integral part of the coffee machine and as such, it must be always be on hand in the vicinity of the machine for easy consultation by the various machine operators, right until the machine is actually stripped and scrapped.
- In case of loss or damage of the present manual it is possible receive a new copy making application to the manufacturer, with prior indication of the data registered on machines' serial number.
- Modifications to the machine not previously agreed on with the construction company and undertaken by the installation tech-nician are considered to be under his entire responsibility.

All the operations necessary to maintain the machine's efficiency, before and during it's use are at the users charge.

- cy, beind and unity is a use as a use uses a value of Any manipulations or modifications made to the coffee machine that are not previously exponsibility for damanufacture, relieve the latter from any responsibility for damages deriving from, and will automatically result in the cancellation of the machine guarantee terms.
- This manual reflects the status at the moment of the emission of the coffee machine on the market; possible modifications, upgrading, adaptments that are done the machine and that are subsequently commercialized do not oblige Blanchi Vending Group Spa neither to intervene on the machine previously supplied, nor, neither to update the relative technical documen-tation supplied together with the machine.

6. COMMISSIONING

6.1 Machine control commands and devices



- Boiler pressure gauge 1
- 2. Pump pressure gauge
- 3. Display
- Automatic version controls (G01)
- Level display
- Manual water refill pushbutton Steam dispensing turn-knob
- 8. Water dispenser pushbutton
- Water dispenser pipe
- Steam dispenser nozzle
- 11. Selector switch
- 12 Semi-Automatic dispensing version controls (G03)
- 13. Heating element indicator light

11

- When the indicator is in the interval between 0 and 0.8 bar i.e. with the blue background, the machine is in its heating up stage and therefore coffee dispensing is not recommended.
- The interval comprised between 0.8 and 1.6 bar indicates that the pressure and the temperature internally to the boiler are at their ideal levels for coffee preparation.

In the event that the pressure indicated by the pressure gauge (1) goes up to over 1.6 bar, switch the machine of immediately and contact the sales service network.

The pump pressure gauge (2) with a 0 to -15 bar scale, displays the pump pressure level only when the pump is working.



In both cases, a differential switch must be arranged upstream of the power supply cable, complete with magnetic release switches compatible with the data provided on the machine rating plate. The relative contacts must be provided with an opening equal or greater than 3mm. We hereby remind that each machine must be provided with its own, individual safety devices. In the event that the power supply cable is damaged, it must be replaced either by the manufacturer, by the manufacturer is technical services or by qualified personnel that is capable of preventing any possible hazards.

5.1.2 Water mains supply (Fig. 5.2 and Fig. 5.3)

The water mains connections must be arranged to be in the vicinity of the machine.

Liquid ground collection tank discharge tube

Water supply tube

Following is the correct procedure for connecting the machine up

- collowing is the correct procedure for connecting the machine up to the water mains:

 lift the drop collector tray (Fig. 5.2) remove the metal plate protection unit connect up the reticulated tube (on supply in the machine package) to the 3/8° brass bulkhead feed-through (Fig. 5.3) connect the other end of the tube up to the water mains. Check to make sure that there are no obstructions in the mains rotate the machine start-up turn-knob (Fig. 6.1, Item 11) to position 1, whereupon the machine will automatically fill in water, up to the probe level

5.2 Machine positioning

Position the machine unit onto the horizontal surface as arran-ged, then carefully adjust height via the adjustable feet. Ensure that the machine is not inclined at an angle larger than 2°. Prior to proceeding with the connection, accurately wash out the water mains tubes

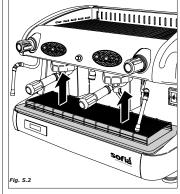
- open the mains water tap completely and let the water run for a few minutes. $% \left(\frac{1}{2}\right) =\frac{1}{2}\left(\frac{1}{2}\right)$
- Proceed with connecting up the inlet and outlet water connec Hook up the machine to the electrical power mains

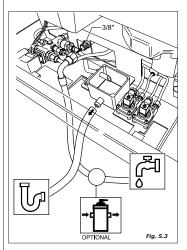
Open the water mains supply tap completely.

- Switch on the main switch (item 1) and wait until the boiler fills up to set level $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left($
- Switch on the main switch (item 2) to start heating up of the water in the boiler. Activate all the groups so that they discharge water for about
- a minute. Repeat this operation twice.
- Wait until the machine has reached the required pressure level (about 40 minutes) Proceed with discharging steam from the steam spouts for about
- one minute.
- Discharge hot water from the hot water dispenser pipe for about a minute. Repeat this operation twice.
- Switch all the switches back off again.

For optimised machine operations we recommend the use of a water treatment/lime scale eliminator unit to be connected up prior to entry of the mains water into the machine.

If the machine has not been dispensing for longer than 24 hours, prior to starting operations proceed with washing out all the internal components by repeating all the operations listed above.





It is however Blanchi Vending Group's faculty, when dee-med opportune and for valid motives, to adjourn the manuals already present on the market, sending to their customers adjournment sheets that must be kept in the original manual.

Possible technical problems that could occur are easily resolvable consulting this manual; For further information, contact the distributor from whom the machine has been purchased, or contact Blanchi Vending Group's Technical Service at the following

035-4502111 - fax 02 70048332

Whenever the machine servicing facilities are contacted, it is ne-cessary to quote the data on the serial number rating plate. Blanchi Vending Group S.p.A. bereby declines each and every liability whatsoever arising for damages to persons and/or objects subsequent to failure to observe the following directions and war-nings during installation and/or operation of the coffee machine:

- The machine must be exclusively positioned in places where use is strictly reserved to appropriately trained personnel.
- use is strictly reserved to appropriately trained personnier.

 Potentially hazardous machine packing material (plastic bags, expanded polystyrene, cardboards staples and nails, etc) must strictly not be left on hand for access by children.

 Prior to connecting up the machine, check to ensure that the rating plate data is compliant with the power mains. The use of adapters, multiple socket strips and/or extensions is strictly overbiblisted. prohibited.
- In case of uncertainty, have the power supply system inspected by qualified personnel. The system must comply with all the relative provisions and regulations in force, amongst which:

 machine grounding;
- conductor sectioning to be appropriately sufficient for electrical input; circuit breaker device, suited to overload cat, 3
- Check to ensure that the mains voltage does not have a displacement greater than 6%.
- Check to ensure that the pressure is comprised between 0.5 and 5 bar.
- The machine is not intended for installation in industrial kitchens, private consumer kitchens and the likes.
- The machine is not intended for outdoor installation or for installation in places subject to water sprays and/or water jets.
- stallation in places subject to water sprays and/or water jets. Position the machine on a waterproof surface (i.e. laminate, steel, ceramic tiling, etc.) and far away from heat sources (ovens, cookers, chimneys, etc.), in sites where the ambient temperature will not drop below 5°C.

 Position the machine onto a support surface so that the cup heater is located at a height 150 cm above floor level.

 Do not expose the machine to bad weather or install it in environments with excess ambient humidity.

 Do not in any awy obstruct the suction or dissipation grids and particularly do not cover the cup heater surface with dishcloths or other objects.

- or other objects
- When packed, the machine must be stored in sufficiently dry When packed, the machine must be stored in sufficiently dry storage facilities with temperatures not less than 5°C. It is pos-sible to stack only up to three packages of the same machine on top of one another. Avoid placing any other types of heavy packages on top of the machine package. To ensure standard operations, the appliance must be installed in sites where the environmental temperature is comprised
- between a minimum +5°C and a maximum +50°C temperature and where the absolute humidity is not in excess of 75%.
- Do not position the appliance in the vicinity of inflammable objects and always keep a safety distance of at least 30 cm.
- Removal of mechanical, electrical and/or heat safety guards and protections is strictly prohibited.
- and protections is strictly prohibited. In the event of emergencies such as conflagration and fire, out of the order noises and heating, etc. immediately unplug the machine from the power mains, close any water and/or gas supply taps and faucets as the case may be. In the event that during handling and transport operations the machine where to transit in ambient temperatures close to or under 0°C, the technician is required to subsequently empty out the hydraulic circuit.

- The standard factory conditions provide for machine delivery without water in the internal circuits.
- To ensure faultless machine operations, use only accessories and spares as authorised by the manufacturer.
- The coffee machines have been engineered and constructed for the brewing of espresso coffee and other hot drinks. Any other use is considered as improper and hazardous machine use.

use is considered as improper and nazardorus machinie use.

The machines are intended exclusively for foodstuff preparation purposes. The use/introduction of liquids and/or other substances that may generate hazards and/or contaminate the dispensers.

Blanchi Vending Group S.p.A. can in no way whatsoever be held liable to compensation for any possible damages arising due to forced interruptions of machine dispensing operations caused by breakdowns and failures.

The operator must:

- he operator must:

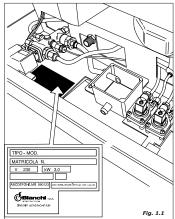
 Not come into contact with any hot machine parts and/or with the dispensing area.

 Not place containers holding liquids onto the machine.

 Not undertake maintenance and/or handling operations with the machine plug still in the power mains or when not cooled down.
- Not wash the machine with direct, pressurised water jets.
- Neither partially nor entirely submerge the machine in water. Not use the machine if the electric power supply cable looks as though it is damaged.
- Not touch the machine with wet or moist hands and/or feet.
- Not use the machine if minors are present in the immediate vicinity thereof.
- Not allow the machine to be used by minors or disabled indivi-
- Not obstruct the heat suction or dissipation grids with dishcloths or other objects
- or other objects.

 Not use the machine if it is in any way wet or moist, unless it is the machine's dispensing area.

The manufacturer hereby declines each and every liability for damages whatsoever arising to persons and/or things due to improper, wrong or unreasonable use of any one of the machines by non-professional operators.





2. DESCRIPTION OF THE MACHINES

The **Sofia Espresso** coffee machine series have been engineered and constructed for the brewing of espresso coffee and other hot drinks. Any other use is intended as improper or dangerous.

The manufacturer hereby declines each and every liability for damages whatsoever arising to persons and/or things due to improper, wrong or unreasonable use of any one of the machines.

The machine operator must observe all the use and maintenance instructions in this manual, at all times. Should any doubts on operation or anomalies arise, stop the machine, do not attempt repairs or direct interventions on the machine and immediately contact the service facilities accordingly.

The series of **Sofia Espresso** coffee machines is available eithe in electronically controlled dispensing versions with programmable cup dosage, or in continuous dispensing versions (i.e. with pushbutton regulation).

uutton regulation).

The dispensing group is heat set and stabilised to ensure optimised utilization of all the noble coffee components. An electronic device warrants for optimised hot water auto-levelling in the boiler unit. Water and steam dispensing is provided via 3 high-performance multi-direction spouts (a 2-spout version is available on demand) that allow for the preparation of cappuccinos and other hot drinks.

Said technical solutions ensure that energy wastes are prevented thereby safeguarding the machine from dangerous thermal shocks.

Water as necessary is tapped in directly from the water mains and is pressurised via a sealed or maintenance free volumetric pump. Water heating is provided via conductive thermal exchange in the boiler unit.

By activating the appropriate controls located on the machine's frontlet panel, optimally pressurised and heated water is delivered to the dispensers.

The machine is provided with a steel structural framework, onto which all its mechanical and electric components are fixed.

The machine bodywork is in stainless steel and Baydur $\!\!(\!0$ to guarantee optimised protection and safety combined with unique designing.

3.0 TECHNICAL SPECIFICATIONS

3.1 Machine dimensions and weights

DIMENSIONS AND WEIGHTS	SOFIA ESPRESSO 1 GROUP VERSION	SOFIA ESPRESSO 2 GROUP VERSION	SOFIA ESPRESSO 3 GROUP VERSION
Length [mm]	520	700	950
Depth [mm]	540	540	540
Height [mm]	500	500	500
Weight [kg]	44	70	80
Boiler capacity [litres]	5	12	21
PACKING			
Volume [cm³]	283	340	434
Dimensions LxDxH [mm]	620x700x660	620x830x660	620×1060×66
Gross Weight [kg]	48	74	90
Power supply voltage	230V/400V	230V/400V	230V/400V
Power supply frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
Power input	2,58/2,58 kW	3,22/3,22 kW	4,3/4,3 kW
Steam boiler rated pressure	1,4 bar	1,4 bar	1,4 bar
Heat exchanger rated pressure	12 bar	12 bar	12 bar

3.2 Items on issue with the machine

	SOFIA ESPRESSO 1 GROUP VERSION	SOFIA ESPRESSO 2 GROUP VERSION	SOFIA ESPRESSO 3 GROUP VERSION
1 dose filter basket	N°1	N°1	N°1
2 dose filter basket	N°1	N°2	N°3
1 dose filter	N°1	Nº1	N°1
2 dose filter	N°1	N°2	N°3
Blind filter	N°1	N°2	N°3
Inlet tube 1.7 m long	N°1	N°1	N°1
Discharge tube 1.5 m long	N°1	N°1	Nº1
Instruction manual	N°1	N°1	N°1
Wiring diagrams	N°1	N°1	N°1

3.3 Mechanical safety devices

- Complete safety and protection panelling on all hot machine parts and on the hot water and steam generator.
- Work surface with grid and liquid collection trav
- Expansion valve on the hydraulic system and safety valve on the heater.
- Non-return valve on the hydraulic system to avoid refluxes into the water mains.

3.4 Electrical safety devices

- Low-voltage keypad controls Thermal overload protection on the pump motor
- Thermal overload protection on the resistance elements

3.5 Acoustic noise

Sound pressure levels amounting to 70 db(A) are not normally exceeded on the machine operation site.

3.6 Vibrations

The machines are equipped with vibration-proof rubber feet. In standard working conditions, the machines do not generate dangerous vibrations, neither for the operator nor for the environment.

3.7 Machine functional specifications and make up

The overall Sofia Espresso range is available in the following con-Inte Overlan John Land.

Figuration versions:

Semi-automatic version:

With 1 steam dispenser nozzle and 1 hot water dispenser pipe

- With 1 steam dispenser nozzle and 1 not water dispenser pipe (GROUP 1)
 With double Steam dispenser nozzle and hot water dispenser pipe (GROUPS 2 3)
 With boiler water level display (GROUPS 1-2-3)

4. TRANSPORT

4.2 Inspection on delivery

4.1 Packing

- Automatic version:

 · With or without machine operation display functions.

 · With 1 Steam dispenser nozzle and 1 hot water dispenser pipe
- With 1 Steam dispenser nozzle and 1 hot water dispenser pipe
 (1 GROUP)
 With double Steam dispenser nozzle and hot water dispenser

The machine is delivered in one single cardboard package, with internal expanded polystyrene safety padding inserts. The packing is provided with conventional symbols to be accurately observed during package handling and storing operations. During transport the package must be kept in a consistently ver-During transport the backage must be kept in a consistently ver-tical position. Do not turn upside down or onto one side. Transport carefully avoiding bumps and impacts and exposure to bad weather.

Upon delivery, check to see that the machine complies exactly with the description provided on the transport documents, accessories

Check to see that the machine has not been subject to transp damages. If it has, immediately report the occurrence to t forwarder as well as to our customer service department.

Potentially hazardous machine packing material must strictly not be left on hand for access by children. Do not disperse the packing material in the environment but en-sure that it is accurately disposed of via appropriate packing and waste recycling facilities.

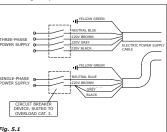
pipe (GROUPS 2 - 3)

· With boiler water level display (GROUPS 1-2-3).

5.1 Utilities to be provided by the customer

All the utility connection operations must be conducted by qualified personnel, in full compliance of the federal, state and/or local rules and regulations in force.

Prior to connecting up the machine, check to ensure that the rating plate data is compliant with the power mains voltage data. The power supply cable, that must be wholly undamaged, must be hooked up directly into the previously prepared utility connections as per all the rules and regulation in force. The grounding and atmospheric overload discharge safety and protection systems must mandatorily be executed as per all existing laws and regulations. For connection to the power mains, implement only an up-to-standard cable, provided with a safety (grounding) conductor. For the three-phase power supply, use a 5 conductor (3-phases + neutral + ground) connector.



5. INSTALLATION

The machines are fitted with height-adjustable feet. Ensure that height is adjusted identically for all the four base feet.

positioning support surface must be evenly levelled, dry, ng and stable, to be positioned at a height of at least 110 cm

from the floor. For correct machine operations it is not necessary to anchor it to the support surface and neither are technical devices required to limit vibrations. It is hereby recommended that some free space is left all around the machine, to make use and maintenance operations quick

Do not install the machine if it is wet or moist and wait until the

Do not install the machine if it is wet or moist and wait until the machine is surely and completely dry. Prior inspections by the service personnel are anyway necessary, to warrant that the machine's electrical components are not damaged. Make sure that enough space is left in the vicinity of the machine for positioning of the dose-grinder coffee.

In the event that the machines are equipped with a water treatment unit, said unit must be hooked up by the installation period of the properties of the properties

In the event of installation of different water treatment units not specifically dedicated to the machine, make sure that all the re-lative product documentation is completely observed.

Have the installation personnel install a coffee grounds collector tray.

3.1.1 Power Suppry
The machine is supplied ready for connection to the on-site power mains according to the specifications requested upon purchasing.
Prior to connecting up the machine, check to ensure that the rating

Fig. 5.1