



BATTISTELLA®

MACCHINE PER STIRARE
IRONING EQUIPMENT

Instructions and maintenance

SATURNO mod. 2009 ***SATURNO 4F mod. 2011***

BATTISTELLA B.G. S.r.l.

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INSTRUCTIONS AND MAINTENANCE

SATURNO mod. 2009 – SATURNO 4F mod. 2011

Before starting the machine, carefully read this manual and follow the instructions.

Never use the product in any way other than that indicated in this manual.

1. SPECIFICATIONS

MODEL:	SATURNO mod. 2009	SATURNO 4F mod. 2011
POWER SUPPLY:	400 V+N – 50Hz	400 V+N – 50Hz
TOTAL INSTALLED POWER:	6750 W	13.400 W
IRON 1 POWER:	900 W	900+900 W
IRON 2 POWER:	900 W	900+900 W
STANDARD BOILER POWER:	4400 W	9000 W
PUMP POWER:	0,5 Hp	0,7 Hp
BOILER CAPACITY:	8 L.	10 L.
IRONING ENDURANCE:	CONTINUOUS	CONTINUOUS
OPERATING STEAM PRESSURE:	3,5 BAR	4 BAR
WEIGHT:	42 kg	54 kg
OVERALL DIMENSIONS:	40x54x97 h. cm	40x54x97 h. cm
BRUSH (optional accessory):	500 W	500 W

MADE IN ITALY

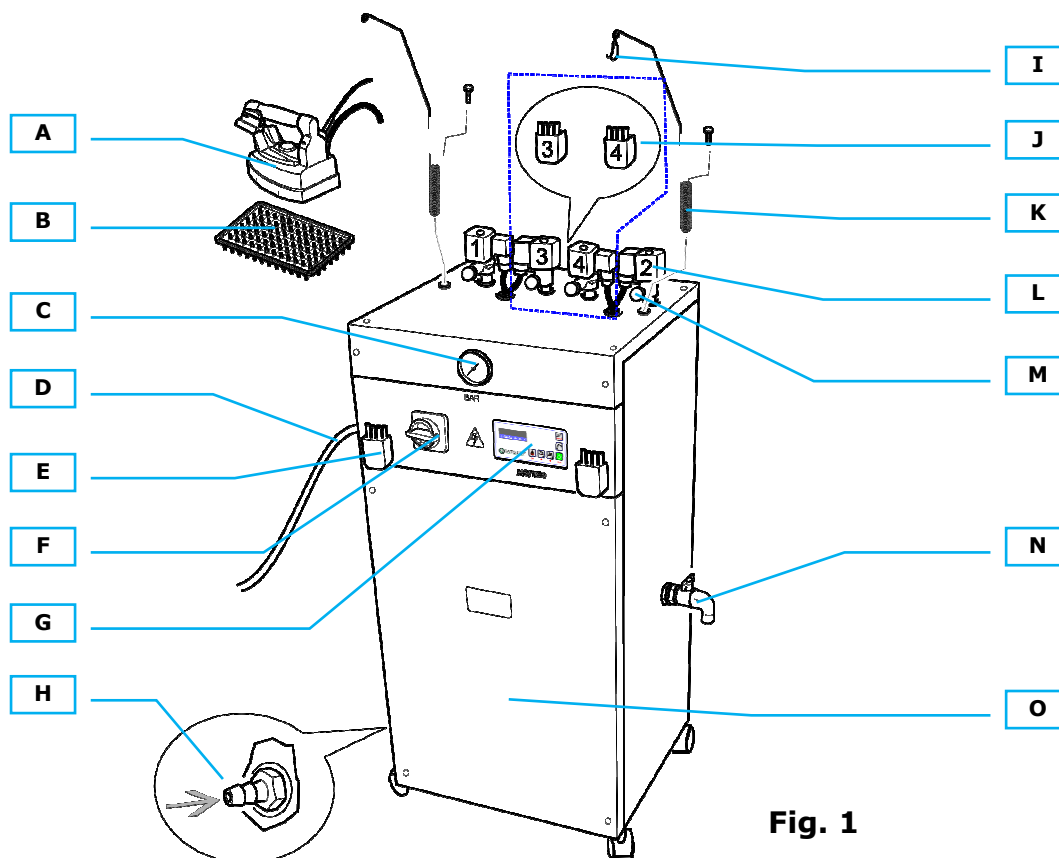


Fig. 1




LEGEND			
A	Iron	I	Cable support hook
B	Rubber iron rest	J	Solenoid valve/sockets for Saturno 4F
C	Pressure gauge	K	Cable support
D	Electric wire	L	Solenoid valve
E	Iron socket	M	Solenoid valve knob
F	Main switch	N	Discharge tap
G	Board for electronic card	O	Front panel
H	Water inlet hose		

2. IMPORTANT

It is the operator's responsibility to carefully follow the instructions written in this manual to better use and preserve the machine and avoid injuries to people or damage to things.

This ironing board is not suitable for people (children included) with physical or mental handicaps or inexperienced persons, unless they are instructed by a person who takes the responsibility for their safety. Children must not play with the ironing board.

Labels have been put on some parts of the machine in order to identify the crucial points. The meanings of the labels are as shown below:

	Hot surface. Accidental burns. Pay attention.
	High voltage. Electrocutation risk. Pay attention not to touch high voltage parts. Disconnect the machine from the power grid before removing the protection panels.
	Indicates the presence of the boiler discharge tap Caution steam output - boiling water! Danger of accidental burns. Follow the instructions indicated in the manual to safely discharge the water from the boiler.

3. OPENING OF PACKAGE

1. Open the box containing the machine from the part marked 'ALTO' and read the following instructions carefully (take care of this manual for further reference).
2. Remove the steam generator from the box.
3. Fix the cable support (fig. 1-K) in the specific hole, connect the iron plug to the socket (fig. 1-E) and fix the steam hose to the solenoid valve with a hose clamp (fig. 1-L).
4. Fix the iron cables to the cable support hook (fig. 1-I), paying attention to avoid twisting.
5. Place the iron on the rubber iron rest (fig. 1-B).
6. Repeat procedures from 3 to 5 for the second iron.

4. WATER CONNECTION

Connect the machine to the aqueduct (drinkable water). The water pressure must not exceed 4 Bar.

For connection, check that there is a tap nearby and a rubber hose that resists the aqueduct pressure. The rubber hose must be inserted and fixed onto the "WATER INLET HOSE HOLDER" of the machine diameter 10 mm (fig. 1-H) by using two hose clamps.

Note: before connecting the machine to the aqueduct, discharge a few liters of water to clean the system pipes.

If a water connection is not possible and the machine requires a water tank, ask the manufacturer or dealer about the changes to be made.

It is recommended to use only drinking water. Do not use distilled water or with a hardness less than 12°f, as this type of water causes malfunctions in the machine (corrosion, dark water from the iron, etc. ...).

If the water is excessively hard (more than 20° f) it is recommended to install a water softener that reduces dissolved salts in water.

Once ironing is finished, close the water tap and remember to open it before turning on the machine.

Caution: do not use the machine with the water tap closed otherwise the pump may be irreparably damaged.

5. ELECTRICAL CONNECTION

Connect the machine to a protected socket with earth protector switch, with observance of the law in force and a voltage suitable to the ironing board.

Be sure the voltage and power frequency correspond to what is written on the label placed on the machine.

It is compulsory to connect the equipment to a good ground wire and the connection has to be done by qualified personnel.

The machine is supplied with electric cable. Match the colours below to connect the machine cable to the electrical system/plug.

NEUTRAL	—————→	BLUE
PHASE L1	—————→	BROWN
PHASE L2	—————→	GREY
PHASE L3	—————→	BLACK
GROUND	—————→	YELLOW/GREEN

6. ELECTRONIC CARD KEY FUNCTIONS



Esc

"Electronic card" on/off key. N.B. the electronic board will continue to receive power from the mains supply. At the end of each working day it is suggested to always unplug the machine from the mains.
WITHIN THE MENU: allows to exit the current function or the menu.



Key to enter the menu.
WITHIN THE MENU: key to reset the various warnings.



"Gun/Brush" on/off key (optional accessory).



"Iron 1" on/off key. On Saturno 4F version this key also switches on/off iron 3 together with iron 1
WITHIN THE MENU: allows to return to the previous menu items.



"Iron 2" on/off key. On Saturno 4F version this key also switches on/off iron 4 together with iron 2
WITHIN THE MENU: allows to shift to the next menu items.



Ok

"Boiler" on/off key.
WITHIN THE MENU: allows to confirm the choices made.

7. MEANING OF ICONS



FIXED LIGHT: indicates that the boiler is on and its pressure is optimum. Machine is ready to iron.
INTERMITTENT LIGHT: indicates that the boiler is on and that the water is being heated to obtain steam.



Indicates that iron 1 is functioning. On Saturno 4F version it indicates that both iron 1 and iron 3 are switched on.



Indicates that iron 2 is functioning. On Saturno 4F version it indicates that both iron 2 and iron 4 are switched on.



Indicates that the pump is pumping water into the boiler.



Indicates that the pump is blocked and that it has failed to restore correct water level inside the boiler (see chapter "water charging icons").



Indicates that there has been a failure on the machine which requires a service engineer, or that recurring maintenance is required.

8. CONNECTION AND STARTING


It is recommended to discharge water from the boiler before switching it on for the first time, as well as every time the machine is put into operation after it has not been used for more than one week. This operation rinses the boiler so as to eliminate any deposits and to prevent dark water from coming out of the iron during ironing.

1. Turn on the electronic card (green key) and activate the required functions. The settings of the electronic card are memorized every time the main switch is turned off. Once the machine is turned on again, it will start with the settings memorized before the machine was turned off (e.g. if the boiler was on, it will be on upon switching on the machine).

NOTE: the electronic card automatically performs a check of the software installed. This is why it takes 2 seconds for the machine to turn on.


If an error or fault is sensed, the "safety" device blocks the electronic card and does not allow normal functioning. "SOFTWARE ERROR" will be displayed. Contact the authorized service center to update the software.

2. Wait until the boiler light is fixed (not intermittent). Take the iron by the cork handle, point it towards the floor and press the micro-switch (fig. 2) 4 or 5 times, so that steam comes out. This procedure must be carried out in order to heat up the hose which takes steam to the iron and avoid water coming out of it. It is possible to adjust the steam flux by adjusting the solenoid valve knob (fig. 1-M).
3. Once these procedures have been completed, the table is ready for ironing. During


ironing, the icon  can be:

- intermittent when the board is resetting the correct pressure in the boiler;
- fixed when the machine has reached the optimum pressure for ironing.

9. WATER CHARGING ICONS AND ACOUSTIC SIGNALS

While ironing, the icon  will switch on and "WATER PUMPING" will be displayed. This means that water is being pumped into the boiler.

In the event the pump should remain without water for a long time, or an obstruction does not allow water to be pumped into the boiler, the "pump saving" device will be

activated and the pump will not work. This is shown by the icon  and the warning "PUMP BLOCKED" will be displayed. An intermittent acoustic alarm is also audible.

To restore the correct functioning proceed as follows:

- turn off the boiler by pressing the proper key;
- check that there is sufficient water pressure in the water system and that there are no obstructions;
- drain all the steam by pressing the iron micro-switch;
- press the key again to turn on the boiler.

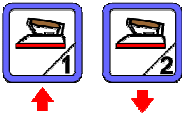
If the warning "PUMP BLOCKED" continues to be displayed, do not insist. Disconnect the machine from the power grid and have it checked by qualified personnel.

10. MENU



To gain access to the MENU, press the key shown on the left. To exit the MENU press ESC or wait for 10 seconds.

Use the keys below to shift between the various menu items:



MENU:

HOURS OF WORK	 Ok	 ↑ ↓	TOTAL HOURS	Cannot be zeroed	To return to previous menu Esc Or wait for 10 seconds (to exit)
			PARTIAL HOURS	Zeroing of hours Press for 5 seconds Ok	

TOTAL HOURS: computation of the total hours the machine has worked for. This data cannot be zeroed.

PARTIAL HOURS: computation of the hours the machine has worked for since last zeroing. To zero the data, follow instructions as per table.

WARNINGS RESET	 Ok	 ↑ ↓	FILTER	Zeroing of hours	To return to previous menu: Esc Or wait for 10 seconds (to exit)
			PROBE	Press for 5 seconds Ok	

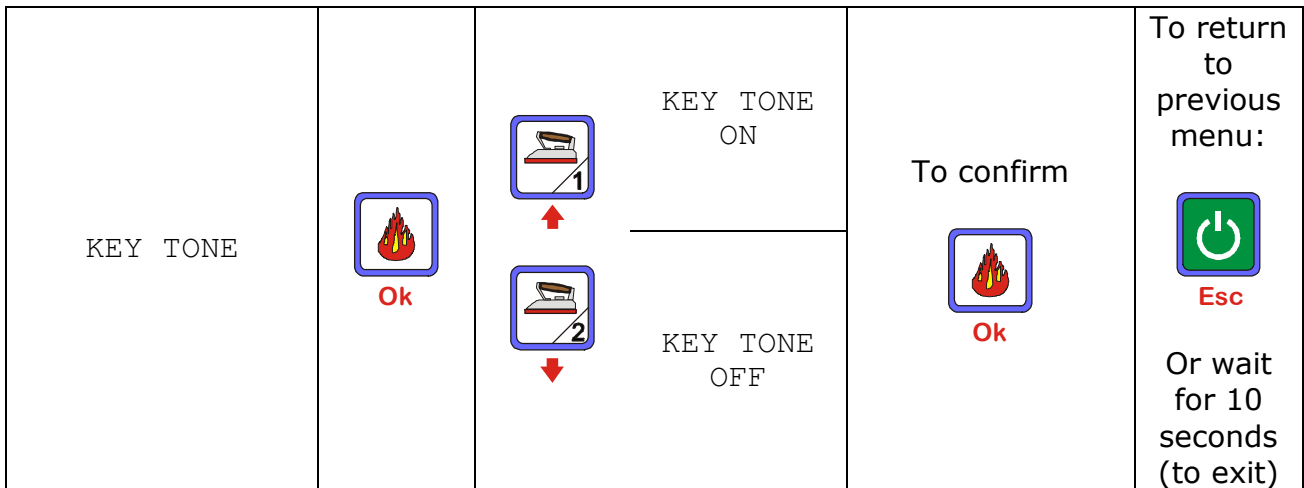
Reset is necessary in order to delete the warnings from the display once maintenance has been done.

Example: warning "CLEAN PROBE" is displayed.

1. Gain access to MENU;
2. find WARNINGS RESET, press OK and find PROBE;
3. press OK, then press RESET for 5 seconds;
4. ESC to return to previous menu (or wait for 10 seconds to exit the menu).

According to the type of water and the use of the machine, maintenance may be required even earlier.

Warnings are memorandums set by the manufacturer and do not limit functions or block the machine.



Used to activate or deactivate the acoustic signal when keys are pressed.
If you wish the acoustic signal to be deactivated, press "KEY TONE OFF".






SERVICE ENGINEER	Password needed. Service engineer authorized access only
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MANUFACTURER	Password needed. Manufacturer authorized access only
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WARNING: if by pressing SET the warning "PASSWORD BLOCKED" is displayed, this means that the wrong password has been typed 10 times in the "SERVICE ENGINEER" or "MANUFACTURER" menu.

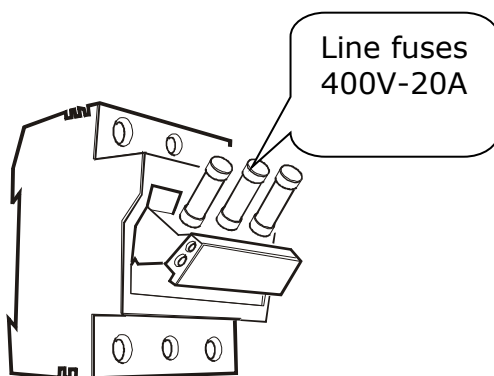
To unblock the menu, contact the authorized service centre or the manufacturer.

To set the desired language, see table below:

LANGUAGE	 Ok	 1  2	ITALIAN	To confirm language  Ok	To return to previous menu:  Esc Or wait for 10 seconds (to exit)
			ENGLISH		
			FRENCH		
			GERMAN		
			SPANISH		
			PORTUGUESE		

Note: languages may be different according to the country of destination.

11. REPLACEMENT OF LINE FUSES



The line fuses protect the entire machine. To access the fuses the master switch must be turned to 0 and the blue cover must be taken off.

IMPORTANT: ONLY REPLACE FUSES WITH IDENTICAL ONES AND WITH THE SAME CAPACITY.

12. GENERAL WARNINGS

1. Avoid connecting the device to multiple sockets and/or extensions which are not suited to its power.
2. Always keep children away from the ironing board, both when it is on and off.
3. Place the equipment on a steady surface indoor with a temperature between +10°C and +40°C. Do not place it outside or expose it to the action of atmospheric agents.
4. The operator must never leave the ironing board unattended when plugged into the electricity grid.
5. When in use, do not bring it near thermolabile or inflammable parts.
6. Always switch off the machine by pressing the specific key before disconnecting it from the mains.
7. Always disconnect the plug from the socket when the equipment is not in use and before any maintenance or cleaning procedure.
8. Keep the electric wire away from hot surfaces and be careful not to crush it under doors or to step on it.
9. Never leave the iron on the board or on the garments when it is switched on.

10. Do not place the iron directly on the metal part of the iron rest. Always place the iron on the proper rubber iron rest
11. Do not iron directly on people.
12. Do not rest or use iron on zippers, hooks, rings, etc. ... to avoid scratching the iron plate.
13. Only use normal drinkable water from the water supply.
14. Do not add additives of any kind to water.
15. Do not discharge the boiler when the machine is still functioning (see chapter "boiler discharge").
16. Check that the water supply pipes do not freeze during winter.
17. During long periods of inactivity close the water, completely discharge the boiler and unplug the machine from the mains.

13. IRONING

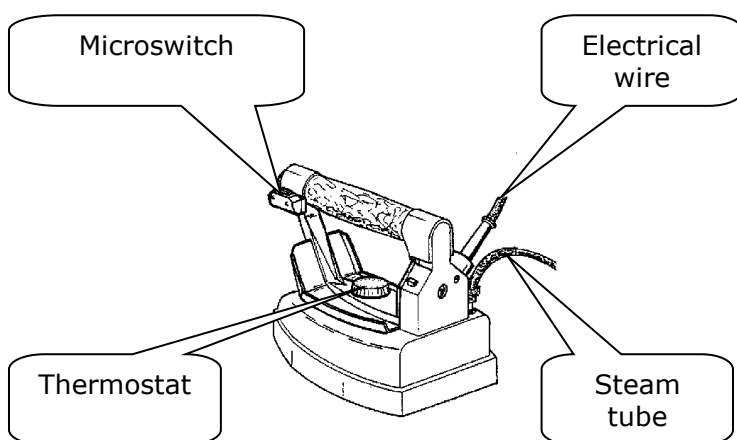


Fig. 2

●●●	Cotton - linen	Steam
●●	Wool - silk	Dry
●	Synthetic acrylic polyester nylon	

To iron:

1. Adjust the iron temperature (fig. 2). For dry ironing you can set the thermostat on various positions depending on the type of fabric you want to iron (refer to the label instructions). For steam ironing you must necessarily adjust the thermostat on the "cotton" or "linen" position.
2. To iron, run the iron on the garments and press the micro-switch (fig. 2) of the iron at intervals so that steam comes out.
3. For delicate, blue or black garments, we recommend the use of the special anti-shine shoe (optional accessory).
4. We suggest to place the iron only on the rubber iron rest.
5. If the steam generator is used together with a non-vacuum ironing board, water droplets may form on the ironing surface. If this is the case, decrease the steam flux by using the steam adjustment knob. We therefore suggest to use the steam generator together with a heated and vacuum ironing board.

Saturno mod. 2009 is supplied with 2 irons, whereas Saturno 4F is supplied with 4 irons.

14. BOILER DISCHARGE

Discharge the boiler at least once a week.

Connect the drain tap (M 1/2" GAS attachment) to the drain by using a thermo-insulated rigid tube (copper or steel). Alternatively, it is possible to discharge the water into a heat-resistant tank.

Carry out the following procedures:

1. unplug the machine from the electric mains after ironing has been completed;
2. wait half an hour after turning off the board to allow the machine to cool down (the ideal pressure for a safe discharge is 0,5 bar);
3. slowly open the discharge tap located on the side of the machine and wait for all the water to drain out and finally close the boiler discharge tap.

If the drained water still contains dirt, repeat the procedure until the water is clean. Wear work gloves to avoid possible burns and pay attention to avoid splashing of hot water onto the operator!

15. ELECTRICAL RISKS

The following situations are considered dangerous for the operator:

1. when the earth protector switch is activated upon switching on the machine;
2. using the ironing board during thunderstorms;
3. using the ironing board without proper protection for feet (without shoes...) or with wet hands or feet;
4. using the ironing board with damaged electric cables;
5. using the ironing board when the electric cable touches hot parts of the machine;
6. when the iron overheats or loses water;
7. when washing or cleaning the iron with water;
8. when there is loss of water and/or steam from the machine;
9. when the machine is not connected to a good ground wire with observance of the law in force.

16. MECHANICAL RISKS

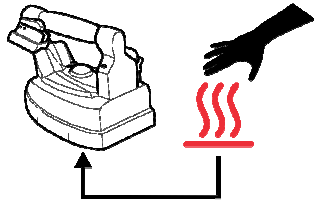
The following situations are considered dangerous for the operator:

1. using the machine for different purposes other than ironing;
2. using the machine after the safety valve has been activated (steam pressure inside the boiler is too high – check the pressure gauge).

17. THERMAL RISKS

The following situations are considered dangerous for the operator:

1. touching the iron base when working;
2. discharging the boiler without following the instructions written in the manual;
3. directing the jet of steam towards people or animals.



**Caution: Thermal danger!
Incandescent iron plate**

Some parts of the ironing board can become extremely hot: use it very carefully and disconnect the plug when not in use.

It is advisable to proceed with the cleaning of the machine only once it has cooled down.

18. INTERVENTIONS AND SMALL REPAIRS

1. Immediately replace the electric wire when it is damaged. The wire is supplied by the manufacturer or authorized service centres. Do not use the equipment with a damaged electric wire.
2. Check that there are no losses from the discharge tap. If there are, replace it.

19. CLEANING OF WATER FILTER

The cleaning of the water filter (fig. 3) is to be done whenever the warning is displayed. If the water is full of impurities, cleaning should be done more often.

To clean the water filter:

1. turn off the main water supply tap;
2. open the front panel and find the filter;
3. unscrew the filter plug by using a wrench;
4. remove the filter;
5. by using running water, clean the filter in order to eliminate all impurities;
6. re-assemble the filter, fix with the wrench and turn on the main water supply tap, checking at the same time if there are any leakages;
7. close the front panel;
8. once all the previous operations are done, reset the warning that appears on the display (see "WARNINGS RESET" table).

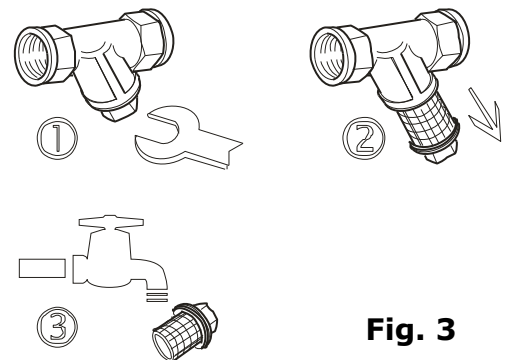


Fig. 3

20. CLEANING OF THE BOILER PROBE

Cleaning of the probe (fig. 4) is recommended whenever the warning appears on the display.

In the event that the water is very hard it may be necessary to clean it more frequently.

To clean the probe of the boiler, do as follows:

1. open the front panel of machine;
2. find the boiler and the probe;
3. disconnect the "faston" from the probe;
4. unscrew the probe by using a wrench and take it out;
5. clean the probe with sandpaper in order to eliminate all encrustation;
6. re-assemble the probe and check that there are no leakages when there is pressure inside the boiler;
7. close the front panel.

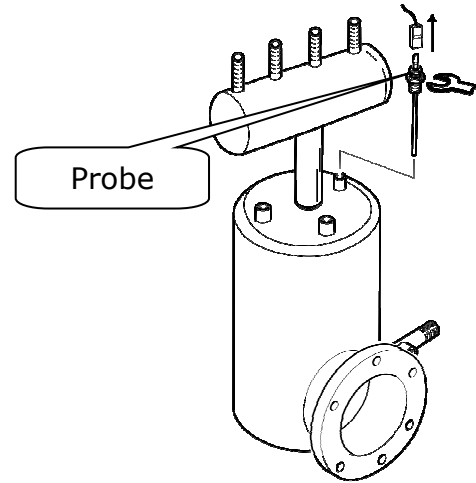




Fig. 4

21. COMPULSORY PERIODICAL MAINTENANCE

(To be carried out exclusively by authorized service centres, qualified technicians or by the manufacturer)

Compulsory maintenance is signaled by the icon  and "GENERAL MAINTENANCE" will be displayed. Contact **only** your reseller, authorized service centres or the manufacturer in order to carry out the necessary maintenance. Once the check has been completed, the authorized personnel will reset the "general maintenance" icon which is shown on the display.

The number of hours between the maintenances to be done  is calculated approximatively and it refers to a machine that works under "normal" conditions. It is up to the operator to determine the exact frequency of maintenance procedures according to the following parameters:

- water hardness;
- other particular conditions.

It is also recommended to annually check the correct functioning of the safety valve.

This machine was designed to work 8 hrs. per day, 5 days a week.

22. PACKING

The ironing board can be packed with cellophane or in a cardboard box which cannot be turned upside down.

As this is not a stiff package it is not shock-resistant. We therefore suggest to handle the packed machine with utmost care and not to use it as a stool or support.

Keep away from children any plastic bags, boxes, polystyrene etc. used for packing, as they may be dangerous.

23. TRANSPORT

Transport the packed machine to the point nearest to where it has to be installed and then unpack it. The equipment has to be transported only by fork lift or hand pallet trucks.

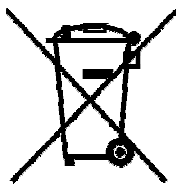
The machine is supplied with wheels which allow it to be moved for a short distance. It is recommended not to place the equipment too close to the walls and other machines, in order to facilitate the use and a perfect maintenance.

24. WARRANTY

The manufacturer's warranty becomes void:

- in the event of repairs carried out by unauthorized personnel or service centers;
- total or partial failure to follow the instructions contained in this manual;
- for poor storage, lack of maintenance/cleaning or incorrect assembly;
- when there are damages caused by the customer;
- when there are failures or damages that do not derive from a manufacturing defect;
- when there are damages deriving from a fortuitous event (fire, short circuit) or due to third parties (tampering);
- when there are damages caused by limescale;
- when the damage has been caused by the use of water different from that indicated in the instructions (see "WATER CONNECTION" chapter);
- when using the machine for a purpose different than the one specified in this manual;
- when using non-genuine spare parts or accessories, modified or not suitable for the appliance.

25. DISPOSAL



According to the directive 2012/19/UE on waste of electrical and electronic equipment, do not treat this product as urban waste.

This appliance is marked according to the directive 2011/65/UE on restriction of use of specific dangerous substances in electrical and electronic equipment.

This symbol on the product or on its packaging indicates that this product shall not be treated as urban waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment.

Ensuring this product is disposed of correctly will help prevent potential negative consequences for the environment and human health which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources.

The abusive disposal of the product by the user may lead administrative sanctions.

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**Every product manufactured by BATTISTELLA Co. is subject to the following limitations:**

- ❖ **Battistella B.G. S.r.l.** guarantees that this machine, correctly installed and used, works accordingly to this manual of instructions. Each implicit guarantee is limited by law as from purchase date.
- ❖ **Declination of responsibility for consequential damages: Battistella B.G. S.r.l.** will never take the responsibility for any damage (included, without any limitation, consequential damages due to loss or no profit, cutback or any other economical loss) deriving from the use of a BATTISTELLA machine, even in case the Company had been previously informed of such kind of possibility.

Should you need **further information** about this manual, please contact **Battistella B.G. S.r.l.** or the person who sold you the machine.  
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