

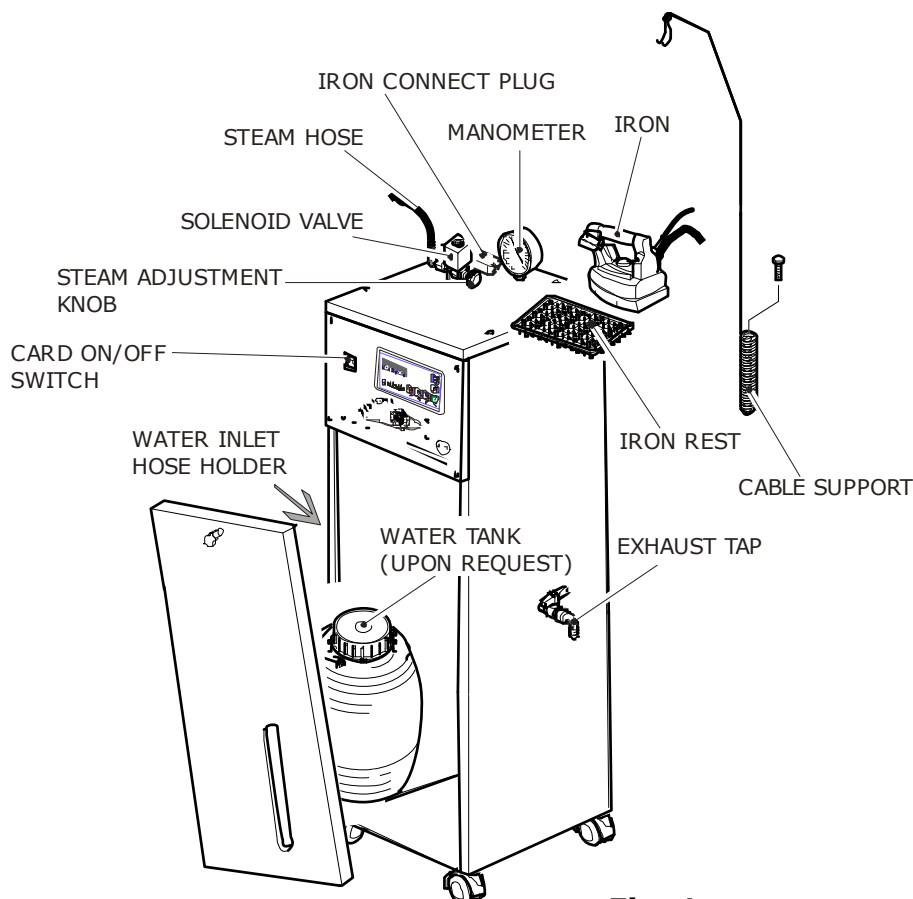
# INSTRUCTIONS AND MAINTENANCE

## MOD. PLUTONE 2009

**Read these directions carefully before operating.**  
**Don't use the machine differently from the following instructions.**

### 1. SPECIFICATIONS

MODEL:	<b>PLUTONE 2009</b>	<b>PLUTONE 2009 (Pedrollo pump)</b>
POWER SUPPLY:	V 400 ~ + NEUTRAL / 50 Hz	V 400 ~ + NEUTRAL / 50 Hz
TOTAL INSTALLED POWER:	W 5648	W 5970
POWER OF IRON 1:	W 800	W 800
POWER OF IRON 2:	W 800	W 800
BOILER POWER:	W 4000	W 4000
PUMP POWER:	W 48	Hp 0,5
BOILER CAPACITY:	5 L.	5 L.
IRONING ENDURANCE:	CONTINUOUS	CONTINUOUS
OPERATING PRESSURE:	4 BAR	4 BAR
WEIGHT:	Kg 22	Kg 24
OVERALL DIMENSIONS:	30x43x98h cm	30x43x98h cm
BRUSH (OPTIONAL):	W 500	W 500
<b>MADE IN ITALY</b>		




**Fig. 1**

## 2. IMPORTANT







Before installing PLUTONE, it is necessary to set up the following:

1. a water connection (tap with hose holder); PLUTONE will be connected to the tap with hose holder named "WATER INLET" (**fig. 1**) by means of a rubber hose which must have a pressure resistance of at least 10 ATM. (diameter of water inlet 8/13 mm) and which must be fixed tightly with 2 hose clamps. **N.B.:** before inserting the rubber hose into PLUTONE hose holder, exhaust a few litres of water in order to clean the conduit. **ATTENTION:** PLUTONE equipped with water tank does not need piping preparation;
2. a protected electrical outlet suitable to PLUTONE power.




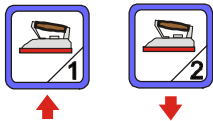
## 3. OPENING OF PACKAGE

1. Open the box containing PLUTONE from the upper side marked as ALTO , take out the instructions handbook and read it carefully.
2. Remove PLUTONE from the box, fix the cable support to the ironing board, connect the iron and steam hose plugs (**fig. 1**), fix the iron cables to the cable support hook and place the iron on the iron rest







## 4. STANDARD MODE

	Key to enter the menu and reset the various warnings.
	"Pistol/brush" on/off key (optional accessory)
 Esc	"Electronic card" on/off key. <u>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 turn the machine off by using the main switch (fig. 1).</u>
 ↓	"Iron 1" on/off key
 ↑	"Iron 2" on/off key
 Ok	"Boiler" on/off key

## 5. STAND-BY MODE


<b>SET/RESET</b>		Key which allows access to the menu. To exit the menu wait for 5 seconds or press ESC. This key is used also to reset warnings
<b>OK</b>	 Ok	Key to confirm the choice made within the menu
<b>ESC</b>	 Esc	Key to exit the current function or the menu
<b>UP/DOWN</b>		Key to scroll up or down within the menu

## 6. MEANING OF ICONS


	<b>FIXED LIGHT:</b> indicates that the boiler is on and its pressure is optimum <b>INTERMITTENT LIGHT:</b> indicates that the boiler is on and that the water is being heated to obtain steam
	Indicates that iron 1 is functioning
	Indicates that iron 2 is functioning
	Indicates that the pump is pumping water into the boiler
	Indicates that the pump is blocked due to the fact that it has worked without water for a long time. Check that water comes out of the pipe connected to the water supply. Turn off the main switch, wait for 5 seconds and turn the machine on again. If the problem reoccurs, contact Authorized Service Centre
	Indicates that the maximum number of hours set for the general maintenance of the machine has been exceeded

## 7. CONNECTION AND STARTING

1. Connect the rubber hose to the hose-holder indicated as WATER INLET placed on the Plutone (**fig. 1**) and turn the water tap on. For Plutone equipped with water tank, you just have to fill it and connect the machine to the mains supply. **N.B.:** make sure there is always water inside the water tank.
2. Connect the power supply cable to a protected outlet with earth protector switch , with observance of the law in force and a voltage suitable to PLUTONE.
3. Turn on the main switch (**fig. 1**) and select the functions which are to be activated. **N.B.:** 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). **WARNING:** 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 found, the "safety" device blocks the electronic card and does not allow normal functioning. "SOFTWARE ERROR" will be displayed. Contact the Authorized Service Centre to update the software.
4. Wait until the boiler light is fixed (not intermittent) and the manometer shows 4 Bar. Seize the iron by the cork handle and press the micro-switch 3 or 4 times (**fig. 3**), so that steam comes out: this operation must be carried out in order to heat up the hoses which take steam to the iron. This prevents also the falling of small drops of water on garments (iron must always be held in such a way as not to harm operator, that is with iron always pointed downwards).
5. To adjust the steam flux you must work on the steam adjustment tap (**fig. 1: solenoid valve**).
6. After this, PLUTONE is ready for use. During ironing the icon of the boiler may remain intermittent (card is raising steam) or fixed (optimum pressure), indicating that PLUTONE is working properly.

**N.B.:** during ironing the warning light  will switch on and "WATER PUMPING" will be displayed. This means that the card is automatically pumping water into the boiler.

**N.B.:** in the event the pump should remain without water for a long time, 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.

If this device is activated, check that there is enough pressure in the water system or that there is water inside the water tank. If one of the previous is the cause of the blockage, turn the card off and on by using the main switch. If the problem remains, do not insist and contact the manufacturer or Authorized Service Centre.

### **FOR PLUTONE CONNECTED TO THE WATER SYSTEM:**







For PLUTONE connected to the water system, verify that the water pressure is not more than 2,5 Bar. If so, the pump will be blocked and this will prevent the water from entering the boiler.

## 8. MENU









To gain access to the MENU, press the key shown on the left. To exit the MENU press ESC or wait for 5 seconds.

MENU:

HOURS OF WORK	 Ok	 ↑  ↓	TOTAL HOURS:	Cannot be zeroed	To exit  Esc
			PARTIAL HOURS:	Zeroing of hours  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. This data can be zeroed (see table). To zero the data, follow instructions as per table and press reset for 5 seconds.






RESET OF WARNINGS	 Ok	 ↑  ↓	FILTER	Zeroing of hours  Ok 	To exit  Esc
			COVER		
			PROBE		

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

Example: WARNING: PROBE CLEANING NEEDED is displayed.

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

Warnings are memorandums set by the manufacturer. According to the type of water and the use of the machine, maintenance may be required even earlier.

KEY TONE	 Ok	 ↑  ↓	KEY TONE ON	To confirm  Ok	To exit  Esc
			KEY TONE OFF		






Used to activate or deactivate the acoustic signal when keys are pressed.

If you wish the acoustic signal to be activated, press KEY TONE ON.

MAINTENANCE	Password needed. Service Centre authorized access only
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MANUFACTURER	Password needed. Manufacturer authorized access only.
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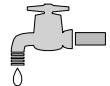
**WARNING:** AFTER 10 ATTEMPTS TO ACCESS THE "MAINTENANCE" OR "MANUFACTURER" MENU WITHOUT TYPING IN THE PASSWORD, OR EVERY TIME THE WRONG PASSWORD IS TYPED, THE MENU WILL BE BLOCKED. "PASSWORD BLOCKED" will be displayed. To unblock the menu, contact the Authorized Service Centre or the manufacturer.

LANGUAGE	 Ok	 ↑  ↓	ITALIAN	To confirm language  Ok	To exit  Esc
			ENGLISH		
			FRENCH		
			GERMAN		
			SPANISH		
			PORTUGUESE		

This menu allows the setting on the language (see table). Languages may be different according to the country of destination.

## 9. COMPULSORY

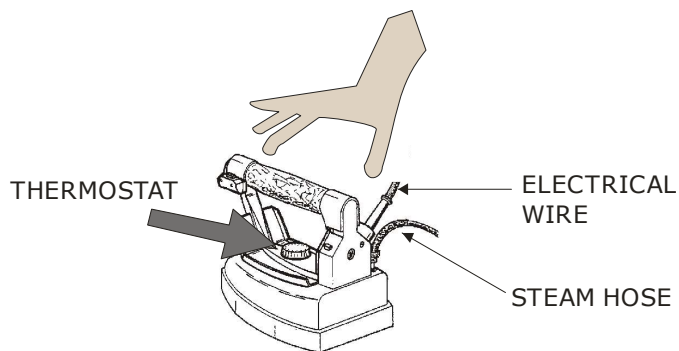
1. Use only tap water.
2. Empty the boiler once a week, making sure that boiler pressure is not over 0,5 BAR (**fig. 1: manometer**). To carry out this operation, turn the exhaust tap slowly (**fig. 1**): we advise you to wear gauntlets against possible burns. **N.B.** Carry out this operation only when the boiler is cold and the plug is disconnected from the mains.
3. Never leave hot iron on the ironing board.
4. Connect PLUTONE to a suitable and protected outlet.
5. After ironing is over, switch off PLUTONE and turn off the water tap; always remember to turn on the water tap before switching on the machine again (for PLUTONE connected to the aqueduct).
6. Always keep children away from PLUTONE, both when it is on and off.
7. Make sure that during cold season the tubes connecting PLUTONE to the water supply do not freeze.
8. Never add additives to water.



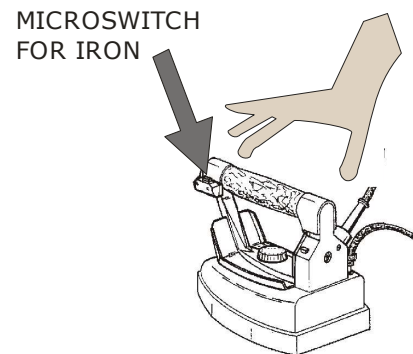
## 10. IRONING

1. Run the iron on garments, pressing the micro-switch (**fig. 3**) at regular intervals and at the same time pressing the pedal for vacuum (heated and vacuum ironing board is required). In order to dry the garments, we suggest to keep the foot on the pedal for suction a bit longer. For a better ironing we suggest to adjust the thermostat on "cotton" position (**fig. 2**).
2. For delicate garments we suggest to use an anti-sheen shoe.
3. During ironing operation, always pay attention to the position of the cables: if they twine or get in touch with the ironing board, they might cause short circuits (**fig. 2**).

4. For dry ironing it is possible to adjust the thermostat (**fig. 2**) on different positions according to the type of fabric (check garment label). For steam ironing you should adjust the thermostat on "cotton/flax" position.



**Fig. 2**



**Fig. 3**

## 11. ELECTRICAL RISKS

The following situations are considered dangerous for the operator:

1. damage of iron cables (**fig. 2**),
2. loss of water from iron (**fig. 3**),
3. loss of water from external of solenoid valve (**fig. 1**),
4. iron overheating,
5. earth protector switch is activated upon turning on the main switch,
6. using PLUTONE during thunderstorms,
7. using PLUTONE without proper protection for feet (without shoes) or with wet feet,
8. cleaning or washing the iron using water (**fig. 3**),
9. loss of water from PLUTONE base (**fig. 1**),
10. loss of steam from inner part of PLUTONE.

## 12. MECHANICAL RISKS

The following situations are considered dangerous for the operator:

1. using PLUTONE for different purposes other than ironing;
2. using PLUTONE without turning the water tap or when the aqueduct cannot supply water;
3. using PLUTONE while the pump is activated but no water enters the boiler because of limestone obstruction (**fig. 1**);
4. using PLUTONE when the boiler pressure is too high and the internal safety valve is activated. Pressure can be visibly controlled thanks to the manometer (**fig.1**) placed on the upper part of the PLUTONE.

## 13. THERMAL RISKS

The following situations are considered dangerous for the operator:

1. touching the iron base when it is functioning,
2. emptying the boiler when under pressure (**fig. 1**),



- ❖ **Do not iron garments directly on persons.**
- ❖ **Do not leave hot iron on garments.**
- ❖ **After use, always store away the iron on proper iron rest.**

#### **14. INTERVENTIONS AND SMALL REPAIRS**

The following procedures MUST be carried out ONLY when the boiler is cold and the plug is disconnected from the mains.

1. replacement of the iron;
2. replacement of the coil: to be done when boiler is turned off and is cold (**fig.1 : solenoid valve**);
3. replacement of the steam hose: to be done when iron and boiler are turned off and are cold (**fig. 2**),
4. cleaning of the water inlet filter (**fig. 4**) and cleaning of the foot valve filter (PLUTONE with water tank – **fig. 1**).

#### **15. CLEANING OF WATER FILTER**

The cleaning of the filter 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. unscrew the filter plug by using a wrench as shown in fig. 4;
3. take out the filter;
4. by using running water, clean the filter in order to eliminate all impurities;
5. 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.



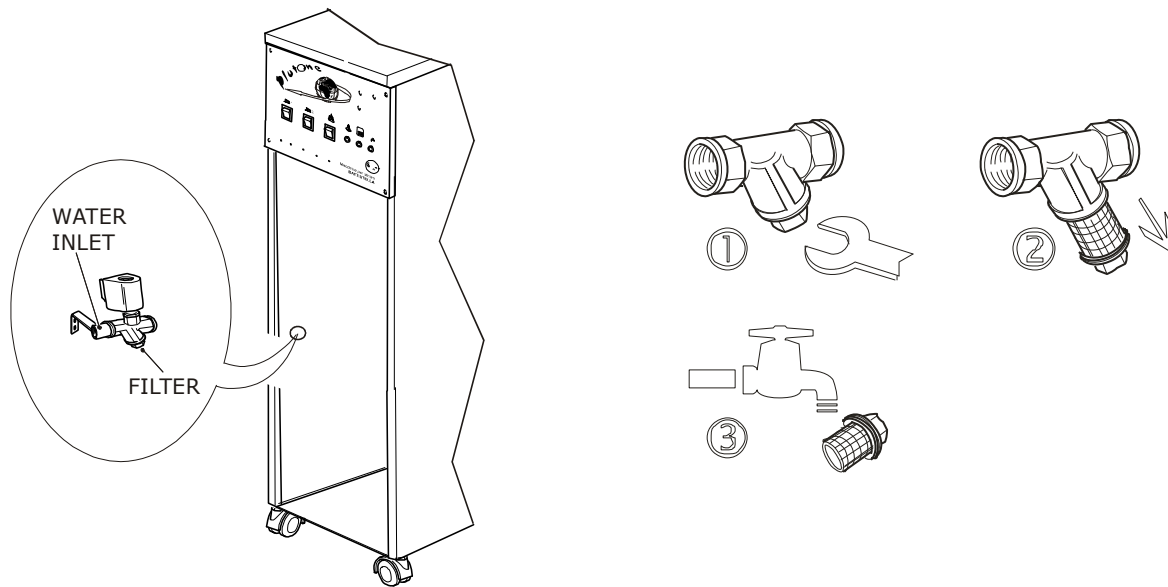
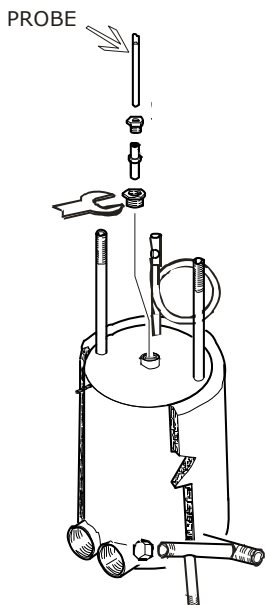


Fig. 4

**16. CLEANING OF THE BOILER PROBE**




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

1. open the rear panel of the machine;
2. find the boiler and the probe;
3. unscrew the probe by using a wrench and take it out;
4. clean the probe with fine grain scrubbing paper in order to eliminate all encrustation;
5. re-assemble the probe and check that there are no leakages when the boiler is under pressure.

**17. COMPULSORY PERIODICAL MAINTENANCE**

*(TO BE CARRIED OUT EXCLUSIVELY BY AUTHORIZED SERVICE CENTRES, QUALIFIED TECHNICIANS OR BY THE MANUFACTURER.)*

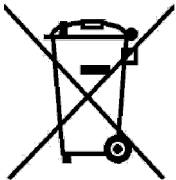
Compulsory maintenance is signalled by the icon  - GENERAL MAINTENANCE will be displayed. Contact **only** your reseller, Authorized Service Centres or the manufacturer in order to carry out the necessary maintenance. Once the check has been completed, the authorized personnel will reset the "general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

This machine was designed to work maximum 8 hrs. per day, 5 days a week. In these conditions the machine is expected to function for 7 years.

## 18. PACKING, STORAGE AND TRANSPORT

PLUTONE may be packed with cellophane, on a pallet or in a cardboard box which should never be turned upside down. As this is not a stiff package it is not shock-resistant and therefore the boxes should not be piled one on top of the other. We suggest you to handle the packed steam generator with utmost care and not to use it as a stool or support. (Handle with care).

## 19. DISPOSAL



PLUTONE is mainly made of iron material and must therefore be disposed of in proper warehouses for used iron recovery. The crossed rubbish bin symbol indicates that components of PLUTONE must be disposed of separately from other refuse.

The correct disposal and recycling of the machine's components assures protection of the natural environment.

*Every product manufactured by BATTISTELLA B.G. S.r.l. is subject to the following limitations:*

- ❖ **Battistella B.G. S.r.l.** guarantees that this machine, correctly installed and used, works according to what written in this instruction handbook. Each implicit warranty 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 handbook, please contact **Battistella B.G. S.r.l.** or the person who sold you the machine.