

# Instructions and maintenance GEA

#### **BATTISTELLA B.G. S.r.l.**

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### **INDEX**

| 1.          | MACHINE FEATURES  | 2  |
|-------------|---|----|
| 2.          | IMPORTANT   | 3  |
| 3.          | PACKAGING OPENING   | 3  |
| 4.          | ELECTRICAL CONNECTION                                       | 3  |
| 5.          | GENERAL WARNINGS  | 4  |
| 6.          | PRODUCT DESCRIPTION   | 5  |
| 7.          | PROGRAM PHASES  | 5  |
| 8.          | STANDARD OPERATION  | 6  |
| 9.          | SELF OPERATION WITH CENTRALIZED COIN MECHANISM/BUILT-IN COI | N  |
| ME          | CHANISM   | 6  |
| 10.         | PROGRAM STOP AND DOOR OPENING                               | 8  |
| 11.         | DOOR OPENING/CLOSING  | 8  |
| 12.         | ADJUSTABLE SHELF  | 9  |
| 13.         | OZONE/BLASTER FAULT   | 9  |
| 14.         | ABNORMAL SHUTDOWN OF THE PROGRAM/NO ELECTRICITY             | 9  |
| 15.         | CHANGE LANGUAGE 1   | .0 |
| 16.         | PLUG CONNECTION (ONLY THE MACHINE CONNECTED TO A CENTRALIZE | D  |
| CO          | IN MECHANISM) 1   | .0 |
| <b>17</b> . | ELECTRICAL RISKS  | .1 |
| 18.         | MECHANICAL RISKS 1  | .1 |
| 19.         | INTERVENTIONS AND SMALL REPAIRS 1                           | .1 |
| 20.         | SOLUTIONS TO POSSIBLE PROBLEMS 1                            | .1 |
| 21.         | PACKAGING 1   | .3 |
| 22.         | TRANSPORT1  | .4 |
| 23.         | STORAGE   | .4 |
| 24.         | WARRANTY TERMS  | .4 |
| 25.         | DISPOSAL1   | .4 |
| 26.         | ELECTRICAL DIAGRAM1   | .6 |



# **USER MANUAL AND OPERATING INSTRUCTIONS**

## **GEA**

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

Do not use the product in a manner different than the one specified in this manual.

#### 1. MACHINE FEATURES

MODEL: GEA

ELECTRICAL POWER: 230 V - 50/60 Hz

TOTAL INSTALLED POWER: 143 W\* BLOWING MOTOR POWER: 73 W

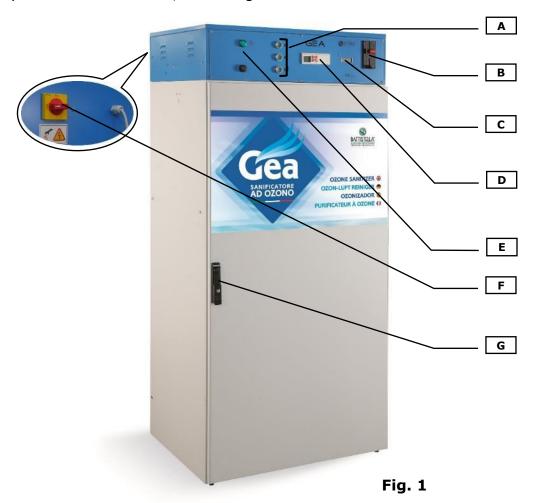
OZONE LAMP POWER: 70 W - 2.5 g/h production

UVC-BLASTER LAMP POWER: 70 W WEIGHT: 110 Kg

OVERALL DIMENSIONS: 80x60,5x184 h cm

#### **MADE IN ITALY**

<sup>\*</sup>The lamps work one at a time, never together



| KEY |                                     |   |                              |  |  |
|-----|-------------------------------------|---|------------------------------|--|--|
| Α   | Program selection buttons           | Е | Free/end cycle machine light |  |  |
| В   | Built-in coin mechanism (accessory) | F | Master switch                |  |  |
| С   | Coin mechanism credit display (only | G | Door closing knob            |  |  |
|     | for the version with built-in coin  |   |                              |  |  |
|     | mechanism)                          |   |                              |  |  |
| D   | Electronic board/display            |   |                              |  |  |

#### 2. IMPORTANT

The operator must carefully follow the recommendations provided and the warnings given below for a better use and preservation of the machine and to avoid injury to people or damage to property.

This device must not be used by individuals (including children) with reduced physical, sensory and mental capacities, or inexperienced, unless supervised by a person responsible for their safety and instructed with regard to the use of the equipment. Children must be supervised to make sure that they do not play with the device.

To make the hazards more obvious, adhesive symbols whose meaning is explained below are placed on the critical points of the machine:



Hot surfaces. Burns hazard. Pav attention.



Dangerous electrical voltages. Electric shock hazard. Be careful not to come into contact with live parts. Cut off the power supply of the machine before removing the protection panels.

#### 3. PACKAGING OPENING

- 1. When receiving the machine, make sure that the packaging has not been damaged or tampered with.
- 2. Proceed with unpacking: take off the box and remove the supports that fix the machine to the pallet; remove the machine from the pallet.
- 3. Read carefully the instructions given below (carefully preserve this manual for any further reference).

#### 4. ELECTRICAL CONNECTION

Connect the machine to a socket protected with a differential magnetothermal switch in compliance with current regulations and with a capacity corresponding to the characteristics of the sanitizing cabinet. Make sure that the line voltage and frequency correspond to what is indicated on the machine's label.

It is mandatory to connect the device to proper grounding and have the connection performed by qualified personnel.

The machine is equipped with a cable that has a yellow/green conductor for grounding the appliance. This conductor must be connected to the grounding of the electrical system of the machine.

#### **5. GENERAL WARNINGS**

- 1. Avoid connecting the machine to multiple extensions not suited to its power.
- 2. Keep children away from the machine, both when the device is on and off.
- 3. The appliance must be used and left to rest on an indoor flat and stable surface, at a temperature between  $+10^{\circ} \div +40^{\circ}$ . Do not place it outdoors or expose it to atmospheric agents.
- 4. The user must not leave the appliance unattended during operation.
- 5. Do not bring the appliance near thermolabile or inflammable parts when it is running.
- 6. Always switch off the machine using the master switch before disconnecting it from the mains.
- 7. Always disconnect the machine from the mains if not used and before any maintenance and cleaning operation.
- 8. Keep the power supply cord away from hot surfaces and make sure it is not crushed by doors or trampled.
- 9. The machine must be positioned so that there is a distance of no less than 50 cm between the back wall and the rear side of the machine so as to easily access the master switch.
- 10. Place the machine in a well-ventilated area.
- 11. The machine must rest perfectly on all 4 support feet.
- 12. Do not open or attempt to force the door to open when the green cycle end light is off. Opening the door is only possible when the green light is on.
- 13. Do not look or expose yourself directly to the light produced by UVC lamps as it may cause damage to your eyes and skin.
- 14. If a strong odor is detected in the environment when using the machine (a strong presence of ozone), switch off the power and have the machine checked by a specialized technician.
- 15. Contact specialized personnel for the replacement of lamps or ballasts. Lamps that are not installed correctly or non-genuine lamps can compromise the operation of the machine and can create hazardous situations.
- 16. We recommend the use of plastic racks instead of completely metal to avoid staining the fabrics due to possible oxidation that could form on the clothes rack (rust).
- 17. During long periods of inactivity switch off the machine using the master switch.

#### 6. PRODUCT DESCRIPTION

The machine allows the sanitizing and cleaning of garments such as jackets, trousers, sweaters, bathrobes, towels, work clothes, motorcycle suits, sports helmets, shoes, boots but also textiles such as blankets, cushions, curtains, sofa covers ... etc.

The ozone produced by the internal generator, allows cleaning and sanitizing thanks to its strongly oxidizing natural gas structure. The ozone is able to eliminate bacteria, molds, fungus, and insects, inactivate viruses and oxidize the chemical molecules responsible for the most annoying odors that can be eliminated.

The machine is available in three versions:

**STANDARD:** suitable to be installed in all environments where it is necessary to perform a sanitizing action on shoes, clothes, etc ...;

**SELF WITH CENTRALIZED COIN MECHANISM (CC):** suitable for installation in self-service laundries as it can be connected to a centralized coin mechanism.

The sanitizing program is enabled to reach the established credit;

**SELF WITH BUILT-IN COIN MECHANISM (G):** suitable for installation in self-service laundries, where an external centralized coin mechanism is not available. The machine has a built-in coin mechanism.

The sanitizing program is enabled to reach the established credit.

**N.B:** both in the "self with centralized coin mechanism" operation and in the "built-in coin mechanism" mode, at the end of the cycle all additional residual credits are reset. It is therefore recommended to insert only the credit needed to start the chosen program.

#### 7. PROGRAM PHASES

The "program" or "sanitizing and cleaning cycle" consists of three phases:

- **Phase 1^:** ozone is produced to saturate the air inside the cabinet;
- **Phase 2^:** the ozone-saturated air is circulated by a fan to allow a correct distribution and sanitizing action on the items to be sanitized, previously inserted;
- Phase 3^: the air, rich in ozone, is circulated through the blaster. Thanks to this system, the ozone decreases and ensures that the indoor air is not harmful to the person who opens the door and removes the clothes at the end of the cycle. At the same time the germicidal lamp inside, keeps the air "clean".
   When the machine door is opened, at the end of the sanitizing and cleaning program, the detection of a slight typical odor of ozone is to be considered normal.



Opening the door when the program has started is forbidden. During the sanitizing phase, inside the machine there is an ozone level higher than the safety level. Wait until the program has finished and the message "PROGRAM COMPLETED - OPEN THE DOOR" appears on the display or the green light is on.

THE MACHINE HAS A SAFETY DEVICE THAT PREVENTS OPENING THE DOOR WHEN THE PROGRAM IS RUNNING.

#### 8. STANDARD OPERATION

- 1. Make sure that the master switch **I/O** placed on the rear side of the machine is in position **I**.
- 2. The green indicator lights up on the control panel, indicating that the machine is ready for use. The message **"INSERT ITEMS AND CLOSE THE DOOR"** appears on the display.
- 3. Insert the items to be sanitized and cleaned inside the machine, making sure to place them as far apart as possible.
  - For a higher performance it is recommended not to store folded or overlapping items.
  - **N.B.:** the items to be sanitized must not be wet.
- 4. Close the cabinet door, making sure that the knob is safely closed.
- 5. When the door is closed, the message "SELECT PROGRAM" appears on the display. Then select one of the three available programs, the one you prefer, by pressing the corresponding button.
  - The three sanitizing programs are preset at the factory to obtain the optimal performance of the machine.
  - **Program 1 SHORT 30 minutes:** suitable when there are few items inside the cabinet or items that are not particularly malodorous.
  - **Program 2 MEDIUM 35 minutes:** suitable for a medium load of clothes inside the cabinet.
  - **Program 3 LONG 40 minutes:** suitable when you want to perform a strong hygienic action or when there are many particularly malodorous garments or items in the cabinet.
- 6. Once the program has been selected, the green light turns off and indicates that the cabinet is busy and is running the sanitizing program. The message "PROGRAM IN PROGRESS" appears on the display. The remaining time to finish the sanitizing process is also displayed.
  - The button for the selected program remains lit.
- 7. At the end of the program the machine will emit an intermittent sound for a few seconds to alert the operator that the cycle is finished and the door can be opened. The green light is on and signals that the machine is free for a new sanitizing cycle.
  - The message "PROGRAM COMPLETED- <OPEN THE DOOR>" appears on the display. The message will stay on the display until the cabinet door is opened.
- 8. Open the door and proceed to remove the items from the machine.

## 9. SELF OPERATION WITH CENTRALIZED COIN MECHANISM/BUILT-IN COIN MECHANISM

- 1. Make sure that the master switch **I/O** placed on the rear side of the machine is in position **I**.
- 2. The green indicator lights up on the control panel indicating that the machine is ready for use. The message **"INSERT CREDIT"** appears on the display.
- 3. Insert sufficient credit to start the program in the centralized coin mechanism or in the built-in coin mechanism. The 3 programs have a different cost so, every time the credit needed to start the program is reached, the corresponding button lights

up. The short program (1) is the least expensive, while the long program (3) is the most expensive one.

**N.B.:** if the necessary credit for the chosen program is not inserted, the machine does not enable the program.

In the version with built-in coin mechanism there is also a display that allows you to view the credit inserted.

- 4. Once the necessary credit is inserted, the message "INSERT ITEMS AND CLOSE THE DOOR" appears on the display.
- 5. Insert the items to be sanitized and cleaned inside the machine making sure to place them as far apart as possible.

For a higher performance it is recommended not to store folded or overlapping items.

**N.B.:** the items to be sanitized must not be wet.

- 6. Close the cabinet door, making sure that the knob is safely closed.
- 7. When the door is closed, the message **"SELECT PROGRAM"** appears on the display. Then select one of the three available programs, the one you prefer, by pressing the corresponding button.

The three sanitizing programs are preset at the factory to obtain an optimal performance of the machine.

**Program 1 - SHORT 30 minutes:** suitable when there are few items inside the cabinet or items that are not particularly malodorous.

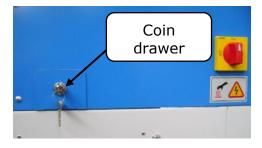
**Program 2 - MEDIUM 35 minutes:** suitable for a medium load of clothes inside the cabinet.

**Program 3 - LONG 40 minutes:** suitable when you want to perform a strong hygienic action or when there are many particularly malodorous garments or items in the cabinet.

- 8. Once the program has been selected, the green light turns off and indicates that the machine is busy and is running the sanitizing program. The message "PROGRAM IN PROGRESS" appears on the display. The remaining time to finish the sanitizing process is also displayed.
  - The button for the selected program remains lit.
- 9. At the end of the program the machine will emit an intermittent sound for a few seconds to alert the operator that the machine has finished the cycle and the door can be opened. The green light is on and signals that the machine is free for a new sanitizing cycle.

The message "PROGRAM COMPLETED – <OPEN THE DOOR>" appears on the display. The message will stay on the display until the cabinet door is opened.

10. Open the door and proceed to remove the items from the machine.



In the versions equipped with a built-in coin mechanism (accessory), on the rear side there is a removable drawer with lock to collect the coins inserted.

#### 10. PROGRAM STOP AND DOOR OPENING



You can stop the just started cycle and then allow the door to open, for whatever reason it is considered useful.

To stop the machine, press the two buttons together as shown in the picture; an intermittent acoustic signal will be emitted for a few seconds. The message "DOOR UNLOCKED" will be shown on the display, indicating that the program has

been stopped and the door can be opened.

You can stop the cycle only during the first 10 seconds after starting the program. 10 seconds after starting the program, the function is no longer available, in order to prevent the door from being opened when the ozone concentration inside the machine is higher than the safety limit.

#### 11. DOOR OPENING/CLOSING

#### To open the door of the cabinet:



- 1. Press the button indicated by the arrow. The door lever will be automatically released from the seat.
- 2. Pull the lever towards you to open.

<u>Do not force the opening of the machine door during the execution of a sanitizing program; always wait for the end of the running program.</u>

Only when the message "PROGRAM COMPLETED- < OPEN THE DOOR>" appears on the display it will be possible to open the cabinet door following the instructions provided above.

The device is designed to prevent opening the door during the execution of a sanitizing program. If the door can be opened, this means that the door has not been closed correctly before the program is started or there is a fault in the door safety lock. In any case, if the machine detects that the door is open it immediately stops the sanitizing cycle. Check the cause that allowed the door to open before starting the program again.

#### To CLOSE the door of the cabinet:



- 1. Push the door until closing, keeping the lever raised.
- 2. Push the lever until it is locked in place.

It is recommended to check that the door is always firmly closed with the lever locked in the closed position, before starting a cycle!

#### 12. ADJUSTABLE SHELF



The machine is equipped with both a pole for hanging clothes by means of hangers, and a shelf that allows you to place the objects.

It is possible to position the shelf at the desired height by moving the support hooks, as shown in the picture.

#### 13. OZONE/BLASTER FAULT

The machine is designed to signal, at the end of the cycle, if there has been a malfunction in the ozone generator or if the blast cycle has not been carried out correctly.

If a fault occurs, the machine is blocked and no other sanitizing cycle can be started. To highlight the problem, the buttons for programs selection remain lit and, according to the fault, one of the two underlying messages may appear on the display:

"OZONE FAULT!": the ozone blaster does not function properly. Check and replace the parts if necessary.

"BLASTER FAULT!": the blaster lamp or the ballast does not work properly. Check and replace the parts if necessary.

To reset the machine it is necessary to switch it off and on again using the master switch, only after having eliminated the cause of the warning.

#### 14. ABNORMAL SHUTDOWN OF THE PROGRAM/NO ELECTRICITY

The machine has a safety system that allows reducing the residual ozone if the program is not terminated correctly, for example in case of power failure.

Therefore, in the event of power failure, it is recommended to keep the door closed to allow the correct removal of the residual ozone when the electricity is restored.

As soon as the power is restored, the machine automatically starts an ozone-reducing cycle. The message "# RESET MACHINE – Close the door and wait... #" appears on the display.

The reset mode is also visible from the alternating lighting of the short + long and medium program buttons.

It is sufficient to wait about 10 minutes for the machine to be reset and return to normal operation.

The end of the reset is signaled by the intermittent acoustic signal and the message on the display: "PROGRAM COMPLETED- <OPEN THE DOOR>".

#### **15. CHANGE LANGUAGE**

From the "software 06" version, you can choose between two languages to display the notifications on the cabinet display.

To change the language:

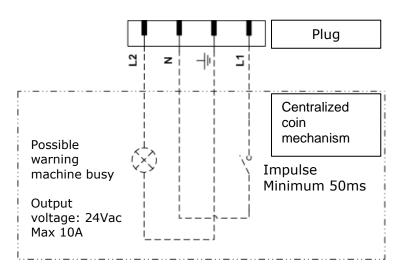
- 1. open and keep the door open;
- 2. press the "medium" program button to set the English language;
- 3. press the "long" program button to set the Italian language.

The language remains stored until the above procedure is repeated.

## 16. PLUG CONNECTION (ONLY THE MACHINE CONNECTED TO A CENTRALIZED COIN MECHANISM)

The machine is equipped with a 4-pole socket to allow interfacing the machine to a centralized coin mechanism. Follow the instructions below, for the correct connection. At the first "credit reached" impulse, the selection of the short program (1) is enabled. The second impulse enables the selection of the short (1) and medium (2) programs. The third impulse enables the selection of the short (1), medium (2) and long (3) programs.





It is recommended to use a centralized/external coin mechanism, able to manage 2 bonuses.

The operation will be as follows:

- You set a "basic" price, in the centralized coin mechanism, for example: 5 €. At the
  insertion of the basic price, the centralized coin mechanism will have to emit an
  impulse. The impulse is received by the sanitizing cabinet which will only allow the
  short program to start.
- 2. You set a bonus 1 in the centralized coin mechanism, for example: 6 €. If additional credit is inserted and bonus 1 is reached, the centralized coin mechanism will emit a second impulse. At the second impulse, the sanitizing cabinet enables the possibility to select also the medium program.
- 3. You set a bonus 2 in the centralized coin mechanism, for example: 7 €. If additional credit is inserted and bonus 2 is reached, the centralized coin mechanism will emit a third impulse. At the third impulse, the sanitizing cabinet enables the possibility to select also the long program.

The sanitizing cabinet is able to indicate to the centralized coin mechanism that a program is in progress (machine busy), by sending a 24 Vac voltage signal. When the machine is free, the signal is 0 Vac.

#### 17. ELECTRICAL RISKS

The operator must pay attention to the following situations defined as hazardous from the electrical point of view:

- 1. when the differential switch (circuit breaker) intervenes;
- 2. when using the machine during a thunderstorm;
- 3. when using the machine without proper feet protection (without shoes...) or with wet hands or feet;
- 4. when electric cables are damaged;
- 5. when the machine is not connected to proper grounding according to the regulations in force;
- 6. when replacing lamps and/or ballasts or any material with non-genuine parts.

#### **18. MECHANICAL RISKS**

The operator must pay attention to the following situations defined as hazardous from the mechanical point of view:

1. when using the machine for a purpose different than the intended one.

#### 19. INTERVENTIONS AND SMALL REPAIRS

- 1. Remove, when necessary, the dust from the lamps and the grille using a vacuum cleaner (fig. 2). Do not disconnect or reverse the electrical connection of the lamps in any way.
- 2. If the power cord is damaged, replace it immediately. The cable is available at the manufacturer or the technical assistance service. <u>Do not use the appliance with damaged cable.</u>

#### 20. SOLUTIONS TO POSSIBLE PROBLEMS

The most common problems that can occur and their possible solutions are shown in the table below. Before intervening on the live parts, it is recommended to disconnect the machine from the power supply.

| PROBLEM  | CAUSE  | SOLUTION  |
|--|--|---|
| The items inserted in the cabinet are not sanitized and cleaned (they still have a bad smell)                | An excessive number of items to be sanitized and cleaned has been inserted  The inserted load has an excessive bacterial load (e.g. particularly malodorous) that requires a particularly prolonged ozone exposure | The items inserted into the machine must be as far apart as possible, so that their whole surface is exposed to the hygienic action of the ozone  Perform an additional sanitizing program.  The effectiveness of the sanitizing and cleaning treatment depends on the type of garments and the bacterial load present  |
|  | There is an accumulation of dust on lamps and/or the vacuum grille.  | The accumulating dust progressively reduces the performance of the machine. Remove the dust from the lamps and the grille using a vacuum cleaner. Pay particular attention when cleaning the lamps as they are very fragile. Do not touch the glass of the lamps with your fingers so as not to leave fingerprints and/or fat residues which could compromise their durability (fig. 2) |
| When you open the door, at the end of the program, you will detect a very intense and pungent odor of garlic | The ozone blaster does not function properly   | Have the correct operation checked  |
| The door is not locked during the execution of a program   | The door has not been properly closed The safety locking of the door is faulty   | Make sure the door is properly closed before starting the program  Disconnect the machine and have it checked by a technician   |
| Programs do not<br>start and the display<br>shows the message<br>"CLOSE THE DOOR"                            | The door has not been properly closed  | Make sure that the door closes properly and that the safety device, located near the door, is well positioned and secured. If the message "CLOSE THE DOOR" is still displayed then the device is faulty and must be replaced  |
| The machine does not start or does not work  | The fuses are damaged  | Check the fuses located inside the machine (fig. 3). To access the fuse compartment, remove the top cover of the machine.  F1= 5x20 - 250V - F 1,25 A F2= 5x20 - 250V - F 4 A   |

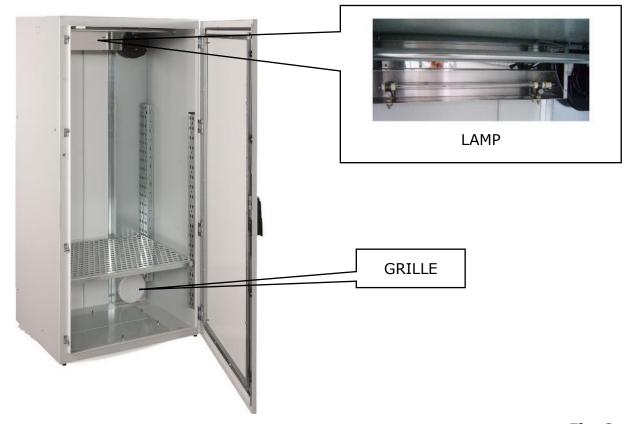


Fig. 2

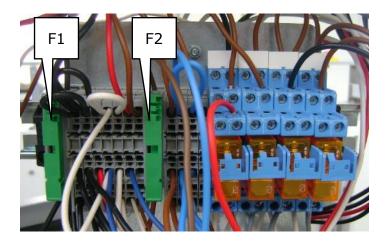


Fig. 3

#### 21. PACKAGING

The cabinet is wrapped in cellophane, loaded on a pallet and anchored by two brackets. The machine is covered with a cardboard box attached to the wooden floor by means of a support.

Not being a rigid package, it is not very resistant to shocks (fragile material), therefore pay the utmost attention when handling the packaged device; do not use it as a stool or as a support surface.

The packaging elements (plastic bags, boxes, polystyrene etc.) must not be left within reach of children as they are potential sources of hazard.

#### **22. TRANSPORT**

Transport the packed machine close to the installation point and proceed with unpacking. The appliance must not be transported manually by people, but by means of forklift trucks.

It is recommended not to place the machine too close to the walls and other machines; position it far from electric and electronic parts and cable tray in order to guarantee the operator an easy use and perfect maintenance.

#### 23. STORAGE

If necessary, store the machine still packed in a suitable place, protected and not subject to bad weather.

#### **24. WARRANTY TERMS**

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 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 regarding 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 must not be treated as urban waste. Instead it shall be handed over to a recycling center 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 preserve natural resources.

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

## Every purchase of BATTISTELLA products in Italy is subject to the following limitations:

- ❖ **Battistella B.G. S.r.I.** guarantees that the machine, correctly assembled and used, will operate in substantial compliance with the manual. Any implied warranty on the machine is limited to the legal terms from the date of purchase.
- ❖ Exclusion of liability for indirect damage: In no case Battistella B.G. S.r.l. will be held liable for damages (including without limitation, indirect damage due to loss or loss of earnings, business interruption, or other economic losses) arising from the use of Battistella machine, even if Battistella B.G. S.r.l. has been warned regarding the possibility of such damages.

For further questions and specific requests regarding this manual contact **Battistella B.G. S.r.l.** or address to the retailer responsible for selling our products.

#### **26. ELECTRICAL DIAGRAM**

