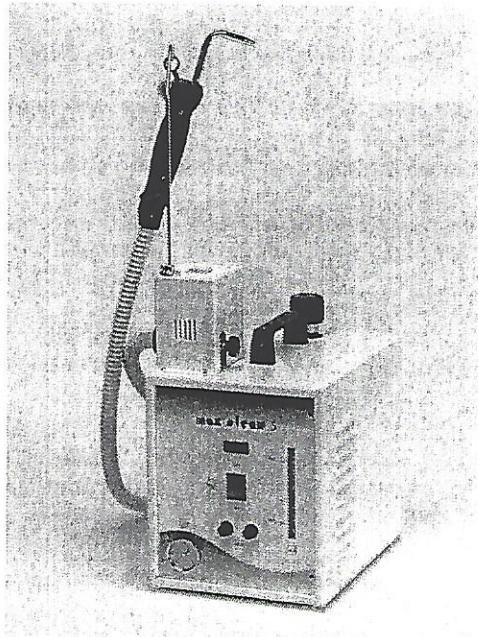


# **max steam**

by max stir since 1966

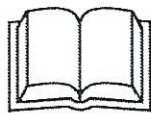


## **MAX STEAM 5**

### **STEAM CLEANER GENERATOR**

### **INSTRUCTION AND SPARE PARTS MANUAL**

**CE**



Read this manual through carefully before commissioning the machine, that is, the system.

The purpose of this manual is to provide the user with all the information he needs to be able to use the machine properly and in the safest and most autonomous way possible.

It includes information about the technical aspect, operation, machine stops, maintenance, spare parts and safety.

Before anything is done on the machine both the operators and qualified technicians must read all the instructions given in this manual carefully.

If there are any doubts about the correct interpretation of the instructions please contact our office for the necessary clarifications.

This manual is an integral part of the machine and as such must be treated with care by the purchaser; it must be kept near the machine in a special place and, above all, protected from liquids and anything else that could ruin its legibility.

The manual must accompany the machine if it is sold to a new user.

It is forbidden for anyone to disclose, modify or use this manual for their own purposes.

We opted to use only a few but evident attention pictograms in this manual to render consultation easier and quick

When using the MS steamer MS 5 basic safety precautions should always be followed. Please read the following instructions carefully as they provide important information concerning how to install, use and care for this product.

1. To protect against the risk of electric shock, do not immerse the appliance in water.
2. Do not allow the cord to touch hot surfaces.
3. Always allow the appliance to cool for at least thirty minutes before storing.
4. Always put the appliance in a secure place on a table or counter when using.
5. Do not move the appliance without unplugging it first.
6. Always disconnect the appliance from the outlet before filling with or removing water.
7. Use normal water. Be careful to avoid spilling water on the appliance when filling. Do not use perfumed or products containing alcohol in the appliance.
8. When steamer is on it is no possible open it. Inside there is pressure so for safety reason never open it and to remove it ,it is necessary way the time that steamer go down pressure.
9. Always disconnect the appliance when not in use.
10. Do not use the appliance if the cord is damaged. Return the appliance or have the cord repaired by the manufacturer, or their service agent.
11. Do not operate the appliance if it has been dropped or damaged. Do not disassemble the appliance. Incorrect reassembly can cause a risk of electric shock. Send it to an authorized service center for repair.
12. Do not operate another high wattage appliance on the same circuit.
13. The device must not be filled if the heater is hot and tank is empty
14. This appliance must be grounded. Do not alter the plug or attempt to remove this feature.
15. Be careful. Burns can occur from touching hot metal parts or steam.
16. This appliance is not intended for use by young children.
17. Leave at least a space of 30 cm between safety valve and other things or living beings.
18. Many area is hot ,be careful and don t touch the hot surface , steam erogator nozzle and
19. Leave at least a space of 30 cm between safety valve and other things or living beings. Please make sure that everybody leaves at least 1 m distance to the side at which the outlet of the safety valve is situated. The minimum distance to heat-resistant things is 4 - 5 cm, to non heat resistant things 30 cm.
20. Never expose the unit to frost.
21. The steam jet is only to be aimed at objects to be cleaned
22. While using the appliance, never unscrew or remove the cap while the boiler is under pressure.

23. Before removing the cap, make sure there's no more steam in the steam chamber by shutting the boiler switch to the off position, and pressing the steam button to release all of the remaining steam.

24. To ensure your safety, the safety cap and all other components must be replaced with original parts only.

**EXTREME CAUTION! HOT STEAM! EXTREME CAUTION! VERY HOT PRESSURISED STEAM**

**! HOT SURFACE!**



Dangerous- Attention



Disconnect power supply



Prohibition



Technical and skilled workers

**2**

## **MANUFACTURER IDENTIFICATION**






MAX STIR  
Via del Canale 11 – 42025 Cavriago (RE)  
Tel +39 0522 371903  
Fax +39 0522 577436  
[www.maxsteam.it](http://www.maxsteam.it)  
e-mail: [info@maxsteam.it](mailto:info@maxsteam.it)

**3**

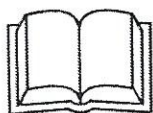
## **MARKING**

- The machine is made in compliance with the relevant Community Directives, applicable at the time it was placed on the market.
- Since this machine is not included in Enclosure 4 of the 2006/42/EC directive a self-declaration of EC conformity is issued (and enclosed with this manual). Conformity model "schedule A"
- The plate on the machine must be similar to the one shown below and duly filled in.



<b>maxsteam</b> MAX STIR s.r.l. since 1966 Via del Canale 11 - 42025 CAVRIGLIO (R.E.) Tel. +39 0522 371803 - Fax +39 0522 577436 e-mail info@maxsteam.it www.maxsteam.it		 	
MODEL			
SERIAL NUMBER			
YEAR			
ALIMENTATION			V-Hz
POWER			W
PRESSURE	bar		

## 4 SECURITY



Please read all the instruction carefully before to starting with machine.



Do not fill in the boiler any other substance than normal water demineralised or distilled water.



Point the gun and so the steam jet only in the direction of the job you are performing. Do not point it in any other direction

Turn off the machine when you have finished using it.



do not exceed maximum water level. Never open the safety cap during the use.  
**NEVER OPEN THE SAFETY CAP WHEN STEAMER IS ON (there is pressure inside)**

The safety devices in this machine are:

- cap ( safety valve)
- Pressure switch - manostat
- Thermostat on heating element.

Without water the thermostat interrupts power to the heater (on request it is possible put a buzzer as acoustic allarm)

The machine is fitted fuses for safeguarding use at 24 V (steam gun, steam outlet) and 220 V (other functions)

In case of faulty operation check the fuses and if necessary replace with identical ones.

## 5

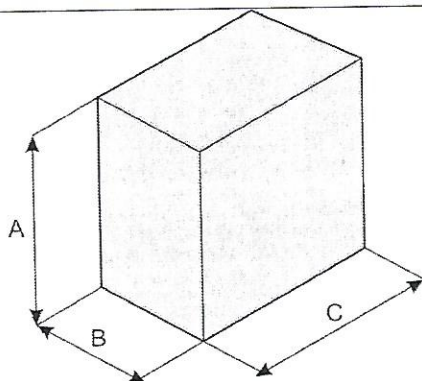
## DESTINATION - TARGET



The steam generator has been designed and built for use by only dentists, dental technicians and goldsmiths. No other application are envisaged by Manufacturer who disclaims any responsibility for damage of whatever kind caused by improper use of the machine. Modifications, change spare, improving and the use of non original replacement spares automatically release the manufacturer from any liability and shall cause the warranty to lapse. Only use by professionally qualified technician.

## 6 PACKING

The machine is packing with cardboard and polystyrene. On receipt. Of machine please check all is aligned with the order and have not damage. For any problem call the dealer or manufacturer soon. It s heavy , please carry on in two people



mmA: 480 B:350 , C 420; KG 15,7



Plastic funnel included



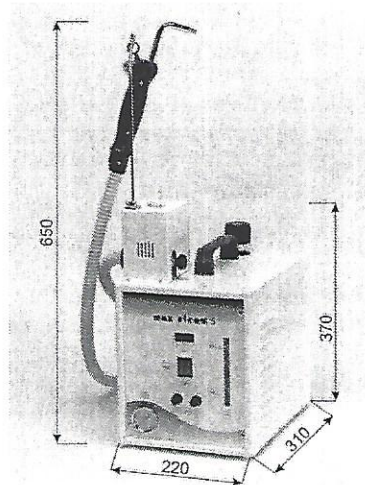
Remove the packing material in accordance with prevailing environmental protection regulations.

## 7 TECHNICAL DATA

All components are built with high-quality materials to ensure maximum safety and reliability over time.

Heating time ( average with normal water) 15min.

Boiler capacity				4,9 lt
weight				14 Kg
Pressure				4,5 bar
Absorbed Power				1500 w
Supply power				230V-50Hz (*)



## 8 INSTALLATION

Before connection, check to see that the identification plate indicates the correct voltage for the electrical supply system. Installation must be carried out in compliance with all applicable safety standards and in accordance with the manufacturer's instructions.

The unit is safe only connected correctly to ground via an appropriate device in accordance with safety CEE standards. This fundamental requirement must be satisfied. For any doubt request a inspection by a professional qualified technician.

The manufacturer will not be held responsible for

- ☐ damage caused by an improperly grounded system.
- ☐ Damage to objects and/or harm to people caused by improper installation.

Before proceeding with installation make sure that all relevant safety conditions prevail and follow the instructions below carefully.

Choosing a good workplace with an appropriate amount of space available for equipment installation is an essential factor in personnel safety, the quality of the work and proper maintenance.

This zone must not only be spacious enough to allow for optimum equipment operation but must also be well illuminated, aired, not dusty and not exposed to direct sunlight.

Please make sure the device is only put up in a heatable room with a decent ventilation.

Unless stated otherwise at the time of order the equipment will be configured to operate properly under the following ambient conditions:

Min ambient temperature 0°C    Max ambient temperature 40°C    Max humidity 90%

Ambient conditions other than those listed above may cause malfunctions or sudden breakdowns. Lighting in the installation area must be sufficient to provide good visibility at every single point on the equipment.

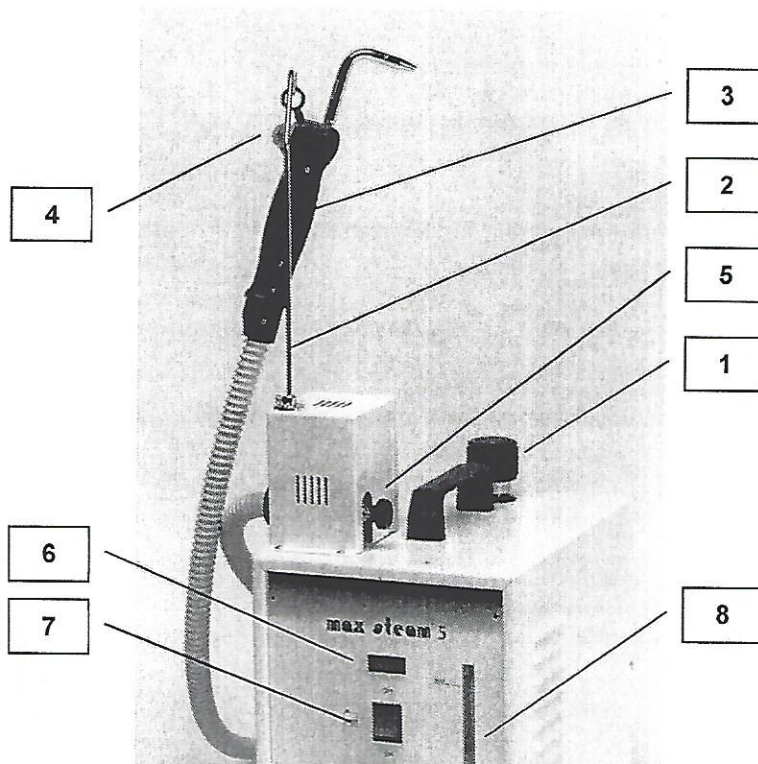
More specifically, luminosity must not be less than 200 lux, lighting must be as uniform as possible and there must be no reflected light as this could dazzle the operator.

Work area lighting is an important factor in both personnel safety and the ultimate quality of the work being done

Do not allow untrained personnel to use this equipment.

Ensure that the work area is properly prepared: it must be free from obstacles, clean and properly illuminated.

Take measures to ensure that you are not distracted when using the equipment





## 9 USE



### FILLING WATER

- ☐ Loosen the cap (safety valve) (1)
- ☐ Fill the water by plastic funnel and do not exceed maximum water level
- ☐ Clench the cap .(1)



Do not fill in the boiler any other substance than normal water. If water has a particularly high lime percentage, use distilled water or special filter.

### FIRST USE

- ✓ Place the rod supporting (2) the steam gun in its seatings
- ✓ Set the switch to on (7)
- ✓ Wait for the start light to go on (6)
- ✓ Push the button (4) to activate the steam supply
- ✓ Adjust the steam quantity by the electric valve (5)

During the use:

- **Point the steam gun only the job direction area.**
- **Check the water level on the visual indicator (8)**

If reach a minimum level of water and need work again, it is necessary:

- Switch off and wait several minutes
- Loosen the cap (1) little bit and wait the outside of pressure. Let the remaining pressure escape
- Remove the cap carefully (1)
- Fill the boiler with hot water

**NEVER OPEN THE SAFETY CAP WHEN STEAMER IS ON (there is pressure inside)**

**Turn off the machine when you have finished using it**

Before using machine, push a button for several seconds and let out the air. (the light (6) off as decrease the pressure) Wait that light on and start to job.

### NORMAL USE

- ☐ Check the water quantity (8) and if necessary fill it.
- ☐ Never decrease under the minimum water level.
- ☐ Active the machine and use all day in power supply.

### CLEANING MACHINE-DECALCIFICATION



Sometimes it is necessary :

- Loosen the cap (1)
- Fill the boiler with normal water, shake and remove
- Empty the machine and leave it upside down for a while
- Try again this operation
- Fill the boiler again with water

### PRECAUTIONS



During operation the electric valve, the cover and the gun steam outlet,, can reach temperatures above 80°.



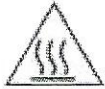
**USE THE STEAMER IN RIGHT CONDITION. KEEP ATTENTION THAT CABLE BE IN RIGHT CONDITION**

**Caution: very important :Before next use, please let the boiler cool down, therefore you won't cause a temperature shock or break.**

**Turn off the machine when you have finished using it  
NEVER OPEN and TOUCH THE SAFETY CAP WHEN STEAMER WORKS**

**ATTENTION: boiling noise may be eliminated by push the steam erogator button**

Before using machine push a button for several seconds and let out the air. The light off (6) as decrease the pressure Wait that light on and start to job.



**HOT SURFACE: many areas are and became hot so do not touch exposed external and internal exposed parts of unit.**

The unit should be switched off at the main switch if it is not used for a longer period of time.

Periodically check the water level by sight.

**THE STEAM EROGATOR**

The MSgun is IXPO degree protection. It s make by our company with special and functional design ,easy to use and handle.

Please take care to manage the handpiece

The hand piece nozzle becomes very hot during operation. There is a therefore a danger of burn injuries!

Do not point the steam jet at persons or animals

Never touch the nozzle , scalding and hot area!!

**10 MAINTENANCE**



To do this operation it is necessary disconnect power supply

**ORDINARY MAINTENANCE**

We suggest every months:

- Disconnect power supply.
- Loosen a cap and wait the outside of pressure. Let the remaining pressure escape
- Put 1/2 lt water with plastic funnel
- Wait several minute
- Empty the machine and leave it upside down for a while
- If necessary try again it

**ATTENTION**



If broken or damage something it is necessary contact a professional people or dealer service and provide to supply the spares with original parts.



Manufacturer is not responsible for any damage caused by inobservance of manual instruction



Disconnect the plug and switch off the steamer.

We suggest this activity in case of cleaning act or when you fill over the maximum track the water level.

In case of use of steamer, wait that the unit became cold, otherwise there is a danger of heat and scalding.

Remove the antenna, put in a safety condition the steam erogator and reverse with extremely care and attention the unit.

The unit is heavy so we suggest to do this activity in 2 people.



During operation the electric valve, the cover and the gun steam outlet,, can reach temperatures above 80°.

### **RESIDUAL RISKS**

Residual risks are:

- a danger that cannot be totally eliminated through design and the application of safety devices;
- a potential danger that cannot be highlighted. The steam generator produces steam or hot water and therefore works at temperatures of over 100°C; the residual risks are thus associated with the following situations:

- Steam jets exiting an accidentally triggered gun that has not been properly connected to its support could cause burns.
  - Allowing work to be carried out on the interior of the machine by unauthorised personnel or carrying out such work with the plug inserted in the mains socket.
- To prevent accidents always observe the instructions in this Manual. Should you have any doubts at all please contact the Manufacturer or your Authorised Servicing Centre.

The steam unit is safe when used correctly, there is, however, a danger of injury when operated or handled improperly. Never point the hand piece at other persons, as the jet stream emerging from the nozzle can have a temperature of up to 160 °C.

## **11 PROBLEM SOLVING**

### **NO STEAM ESCAPES FROM CAP**

- I. Check that cap (safety valve) must be close
- II. Check the inner seal is defective
- III. The pressure switch is defective

### **NO STEAM**

- I. The solenoid valve is jammed , replace it.
- II. The knob is closed ,.open it
- III. Check the fuse

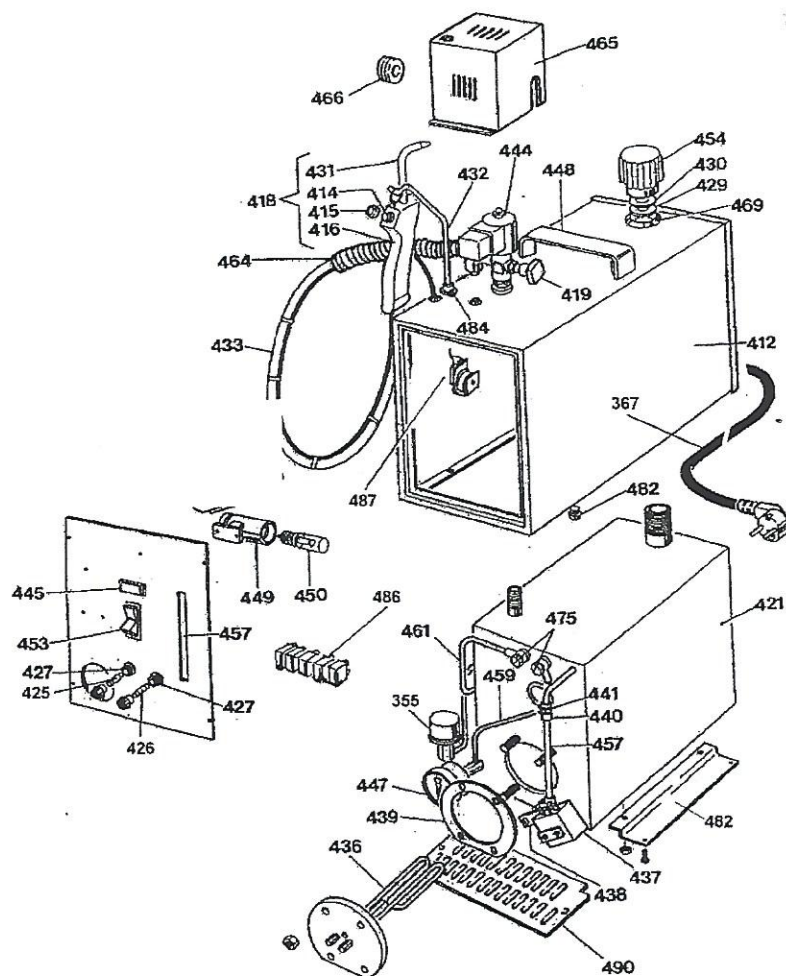
### **HEATING PROBELMS**

- I. The heating elements is detective. Replace with the original parts.
- II. The boiler tank is full off calcium deposit . And so read the decalcification instruction

## 13 SPARES

To order it is necessary:

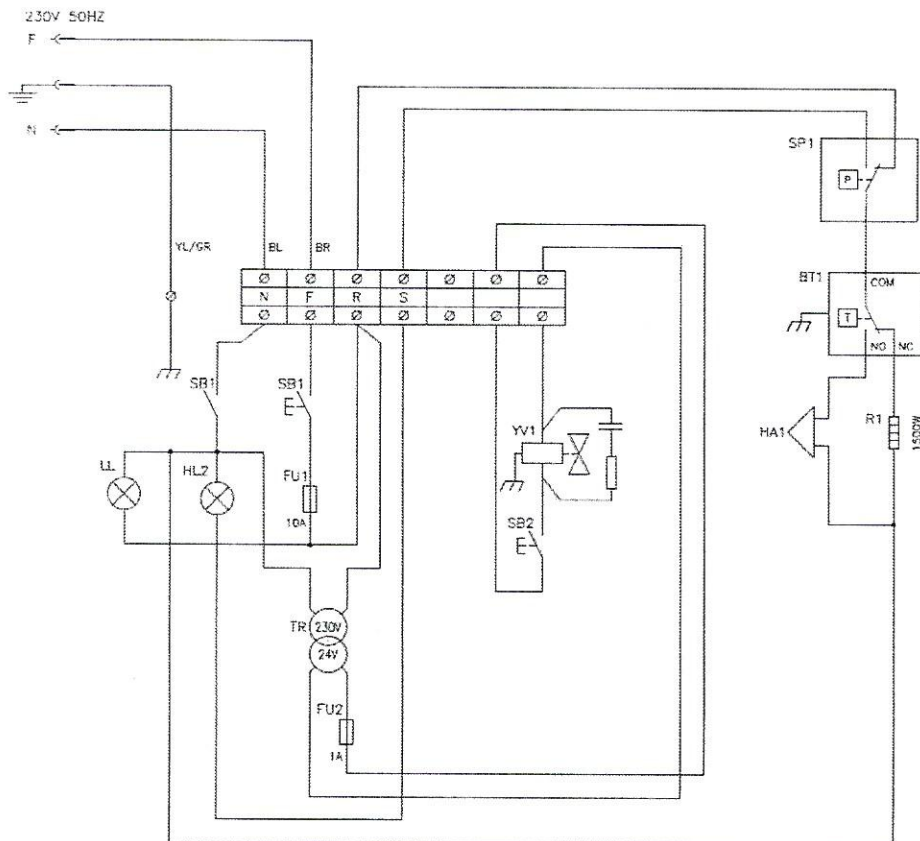
- Model machine
- Year of manufacture
- Serial number
- Description of part
- Quantity





DESCRIZIONE		
Cover		
Push button switch		
Rubber cap for push button		
Bakelite handgrip		
Complete steam gun		
Outlet regulation Solenoid valve		
Tank		
Transformer	Optional	
Fuse holder		
Plug teflon gasket		
Plug silikon gasket		
Steam gun nozzle		
Gun holder rod		
Steam hose		
Heating elements 1500W		
Thermostat		
Fitting thermostat		
Haeting element seal		
Level pipe fitting		
Level clamp		
Pressure switch – manostat		
Eletric valve		
Pilot light		
Manometer		
Unit handle		
Level indicator socket		
Level indicator bulb		
Boiler swtch		
Boiler cap – safety valve		
Level pipe		
Manometer fitting		
Pressure switch fitting		
Buzzer		
White sheating flex		
Solenoid valve cover		
Hose flex basket		
Filler seal		
Fuse 1 A 24V		
Fuse 10A 220 V		
Screw		
Rod Holder		
Boiler grill		
Buzzer		
Eletric cable		
Terminal board		

## 14 WIRING DIAGRAM



### COMPONENTS DESCRIPTION

SB1	MAIN PUSH BUTTON
FU1	LINE 230V FUSE
FU2	LINE 24V FUSE
SB2	PUSH BUTTON ON STEAM GUN
YV1	STEAM ELECTRO-VALVE
SP1	PRESSURE SWITCH
BT1	THERMOSTAT
R1	HEATER RESISTOR
HA1	BUZZER
LL	LEVEL LAMP
HL2	LAMP
TR	TRANSFORMER



This appliance complies with the European Directive 2012/19 / EU on the reduction of the use of hazardous

substances in electrical and electronic equipment (WEEE) as well as on the disposal of waste. The symbol of the barrel placed on the equipment or on the packaging indicates that the product at the end of its useful life must be collected separately from other waste. Separate collection of this equipment at end of life is organized and managed by the manufacturer. The user who wants to discard this equipment must then contact the manufacturer and follow the system that he has adopted to allow separate collection from the end-of-life equipment. The proper differentiated collection for the subsequent start of the decommissioned equipment for recycling, treatment and environmentally compatible disposal helps to avoid possible adverse effects on the environment and health and favors the reuse and / or recycling of the materials it contains the equipment. The abusive disposal of the product by the holder implies the application of the administrative sanctions provided for by the applicable law.

**15 CE DECLARATION OF CONFORMITY**

The company:



MAX-STIR SRL  
Via del Canale 11  
42025 Cavriago (RE)  
Tel +39 0522 371903  
Fax +390522 577436  
e-mail: info@maxsteam.it  
www.maxsteam.it

Declares on its own responsibility that the products

MODEL	MATRICOLA	YEAR
MS 5	62	

is conform to the requisites established by the Directives below:

	2014/35/UE	2014/30/UE
--	------------	------------

We also declare that it corresponds to the following standards

2014/68/UE
------------

Cavriago

Legal Representative

  
**max-stir S.R.L.**

- 1- The guarantee has effect from the date of purchase of the machine, date certified by a sale document released by the seller (such as bill of lading, receipt of sale or fiscal slip) from which they are clearly stated the model and the serial number.
- 2- The guarantee includes substitution or repair of defective parts of the machine.
- 3 - The guarantee doesn't cover any defective parts due to negligence; improper use; improper maintenance; maintenance performed by non-qualified personnel or transportation damages; that is damages that cannot be considered manufacture defects for which the manufacturer cannot be hold responsible.
- 4 - The guarantee doesn't cover any case of improper use of the machine.
- 5 - Transportation cost of the machine and relative risks are at user's expense