Use and Maintenance Manual
Trailed Sprayers
TRAILED SPRAYERS

USER MANUAL

WARNING!
Before using the sprayer, pay attention to the instructions for the right use.
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WARNINGS

The sprayer is an industrial machine to be used exclusively for the indicated purpose. The machine is operated exclusively by an expert, who is a person skilled in the use of similar equipment, who puts it into operation, supervises the spraying operations and, in case of danger, immediately stops the machine from working.

During operation the operator must always be present and ready to interrupt the spraying treatment in situations of imminent danger

Use prohibited by unauthorized persons

Improper use of the machine can compromise the functionality of the machine and the safety of any operators involved in the spraying treatment; for this reason, before using the machine it is obligatory to carefully read the instructions in the manual.

AgriPerrone declines all responsibility for damage resulting from improper use of the machine

The phases of connection and disconnection of the machine to the tractor and its PTO must be carried out with the tractor off and the key disengaged, positioning on a flat, compact and non-yielding ground, leaving the small galvanized wheel on the ground and blocking the 'Sprayer with wedges under the wheels to avoid unwanted movements. Only after this preparation the operator can proceed with the connection and disconnection phases.

Before connection or disconnection, stop the machine on firm ground, switch off the engine and remove the key

The cardan shaft used must have the CE mark, must be correctly fixed to the tractor and the chains must be hooked to the appropriate points, so as to avoid the rotation of the guards during operation.
Always check the liquid level until reaching the maximum filling indication.
INTRODUCTION

This manual is to be considered part of the machine until the resale and demolition of it.

This manual contains the description of the machine, its operation and the necessary instructions for its correct use and ordinary and extraordinary maintenance. It is essential to read it carefully and follow the instructions provided.

The instructions contained in this manual are intended for an experienced user who must have specific knowledge of how to use the machine, must be authorized and adequately trained.

For a proper use of the machine it is essential to use original accessories and spare parts. The non-original parts, in addition to voiding the warranty, could be dangerous, reducing the performance and efficiency of the machine.

Improper use of the machine can cause damage to people or things.

This manual must always be available and it is considered an integral part of the machine. In case of sale or sale of the machine must always be delivered. In case of loss or damage, a new copy must be requested from the machine manufacturer.

All the components used for the construction of the machine are of high quality, supplied by companies specialized in their own sector and provided with CE marking.

The main equipment includes:
• frame
• tank
• Pumping unit
• Command group

Regarding the main equipment, the data shown in the various sections of this manual are indicative, see the technical specifications of the various components for all the actual data.

Together with this manual, relative to the trailed sprayer, each purchaser will receive the User Instructions Manuals and / or the technical details of the main equipment, which provide specific information on the features, the correct use and maintenance.
All operations must be performed by an expert it is obligatory to use only certified components

Before starting to drive the vehicle, it must be checked that the machine is well hooked to the vehicle and that the servotimone is raised from the ground, that the optical devices are connected to the electrical system of the towing vehicle through the connector. The driver of the towing vehicle must proceed slowly and avoid any uneveness in the ground (hole, depression, difference in height, steep slope, soft ground) that can generate excessive inclinations and compromise the stability of the system formed by Tractor and Atomizer.

The machine must be handled on flat and non-yielding grounds

The operator must remove any extraneous persons from the spraying area, from the immediate vicinity of the machine and make sure that the lighting is sufficient to guarantee working safely. Only under these conditions can the conductor allow the machine to operate.

Before starting the machine, keep away the unauthorized personnel and check that there is good lighting

Although the machine is designed and built in such a way as to avoid any type of leakage, small leaks of liquid can occur, for example during the filling of tanks or for small inventories inside the connecting pipes. Since these are potentially dangerous liquids, to eliminate residual risks, the conductor and the operators must wear personal protective equipment suitable for chemical risks, such as accident-prevention gloves and footwear, overalls and masks, goggles or visors. Although the machine has been designed and built by paying close attention to the sound emission level, considering the noise level of the agricultural tractor engine by far the most preponderant, it is suggested to use hearing protection devices.

Use the indicated personal protective equipment
The personal protective equipment indicated may be inadequate for particular products. Before using any product it is necessary to always check the safety data sheet, so as to know the degree of danger of the products used and other additional measures to be observed.

Check always the safety data sheet of the chemicals used

Before carrying out any work on the machine, the engine of the towing vehicle must be turned off and wait for the transmission parts to stop.

During operation it is not possible to carry out inspections, maintenance or adjustments

Use of the machine outdoors is not permitted whenever adverse weather conditions occur (rain, hail, snow, ice, thunder, lightning, etc.).

Since it is a metal structure, we note the extreme danger of lightning
**WARNING SIGNS**

The following warning signs / labels, placed on the sprayer in a clearly visible position, are intended to remind the operator of the most important safety requirements, described in detail in this manual and which must be observed to avoid any inconvenience.

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
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<tbody>
<tr>
<td>![Icon]</td>
<td>Read the manual carefully before using the machine</td>
</tr>
<tr>
<td>![Icon]</td>
<td>Use the necessary personal protective equipment</td>
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<td>![Icon]</td>
<td>Dangerous substances</td>
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<td>General indication of danger</td>
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<td>Biological risk</td>
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<td>![Icon]</td>
<td>It is forbidden to carry out any work on the machine when it is in motion</td>
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<tr>
<td>![Icon]</td>
<td>Use the necessary personal protective equipment</td>
</tr>
<tr>
<td>![Icon]</td>
<td>It is forbidden to carry out any lubrication, repair or adjustment on the machine when it is in motion</td>
</tr>
<tr>
<td>![Icon]</td>
<td>No use or access to unauthorized persons</td>
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<td>![Icon]</td>
<td>No smoking or naked flames</td>
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<td>![Icon]</td>
<td>Conformity of the machine to the requirements of the D.P.R. 24 July 1996 No. 459</td>
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</table>

The warning signs, depending on the supplier, may have a slightly different graphic appearance than the one just reported, however, the meaning of the signal is always the same. Depending on the destination of the machine and the nature of the products used, there may be additional labels on the machine.

**It is obligatory to immediately replace lost or no longer legible signals**
### TECHNICAL FEATURES

**POLYETHYLENE**

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<th>Capacity (l)</th>
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**FIBERGLASS**

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Data and information are provided for information only and are not binding.
DESCRIPTION

The sprayer is a machine to be used for the treatment of arboreal plants; it is driven by a cardan shaft connected to the power take-off of the agricultural tractor.

The pump brings the liquid contained in the tank to the nozzles where it is hit by a high-speed air current produced by the fan allowing distribution on the plants.

The compressed air is generated by the pumping unit driven by the cardan shaft through a speed multiplier controlled by a black handle with two / three positions: activated or neutral in the case of two positions, idle or slow or fast in the case of three positions.

The power supply is supplied to the machine by the tractor through a 3-pole connector which supplies the optical devices for circulation on the road and the electric control unit (if present).

The tank must be filled with the chemical product for spraying treatments.

The filling of the tank must be carried out in safe conditions, removing the cap from the suction filter, turning the control lever to the discharge position and disengaging the rotation of the fan.

The machine is equipped with a mixer for the direct preparation of the chemical product to be used, with automatic filling of the tank.

The tank for cleaning the system (circuit washer) and the hand cleaner must be filled with water.

At the end of the treatment, rotate the 3-way ball valve to the "circuit washer" position (see label on the tank) to clean the circuit and eliminate any chemical residues.

Since these are potentially dangerous fluids, for the disposal of the same, it is necessary to comply with the provisions of current legislation.

The salient features are listed below and shown in the presentation images.
1. Trolley is composed of hot-galvanized steel profiles and consists of an axle adjustable both in height and in width, it is calculated to withstand the maximum stresses to which the atomizer can be subjected and the wheels are chosen according to the loads maximum according to the legislation.
2. Towing eye that connects the atomizer to the tractor.
3. Drain valve of the tank from which residual liquids flow during cleaning.
4. Tank that can be in polyethylene or fiberglass, contains the mixture of water and product.
5. Double hinged lid from which the products are poured and the correct filling of the tank can be checked, according to regulations for safety reasons.
6. Circuit wash tank must be filled with clean water to eliminate any product residues in the system.
7. Hand washing tank must be filled with clean water to allow the operator hygiene, comfort and safety.
8. Internal level indicator that allows to detect the filling of the tank.

9. Agitator tap to be used for internal mixing and it is advisable to keep it always open to prevent the chemical product from thickening.
10. Dissolve product tap and cans from which the mixer is operated for the direct preparation of the chemical or other connected external devices.
11. Cardan shaft coupling turns the pump into rotation taking the movement of the agricultural tractor.

12. Suction filter prevents impurities from entering the system and clogging the nozzles.

13. Pump sends the product to the nozzles.

14. Nozzles used to distribute the sprayed product.

15. Fan that directs the air towards the nozzles.

16. Protective net to avoid accidental contact with the fan.

17. 3-way ball valve that allows to direct the flow and activate the circuit washing system or the product present in the tank.

18. Multiplier increases the number of revolutions coming from the pump.

19. Optical devices for road circulation reclosable during work.
FUNCTIONING

The sprayer is mechanically operated by the PTO of the agricultural tractor through the cardan shaft attached to the pump. The pump brings the liquid to the nozzles where it is hit by a high-speed air current produced by the fan, driven by the cardan shaft via a speed multiplier controlled by a black handle, allowing distribution on the plants.

The electric power supply is provided by the tractor through a 3-pole connector which feeds the optical devices for circulation on the road and another connector that supplies the electric control unit (if present in the set-up).

The tank must be filled with the mixture of water and chemical product for spraying treatments. The tank for cleaning the system (circuit washer) and the hand cleaner must be filled with clean water.

At the end of the treatment, rotate the 3-way ball valve to the "circuit washer" position (see label on the tank) to clean the circuit and eliminate any chemical residues.

A correct use of the machine and a scrupulous observance of the rules described in this manual will avoid the risk of injuries or accidents and will make the machine function better and longer, reducing to a minimum the failures.
By performing the following operations there is a risk of accidents, therefore it is essential to use the appropriate protection devices and pay the utmost attention.

1. Slowly bring the agricultural tractor closer to the atomizer, secure it against any movement and make the connection with the towing eye.
2. Connect the cardan shaft by correctly fixing the shaft to the power take-offs, respecting the direction, and fix the chains.
3. Activate the power take-off.
4. Adjust the working pressure.

Cardan shaft connection to the agricultural tractor

Correct fixing of the chains
1. Slowly bring the agricultural tractor closer to the sprayer, secure it against any movement and make the connection with the towing eye.

2. **STEERING SHAFT**

   - Steering shaft NOVAK
   - Steering shaft AgriPerrone

**LIFTING STEERING SHAFT**

2. Connect to the lifting arms of the agricultural tractors.
It can only be adjusted in width by a maximum of 10 cm per side by unscrewing the bolts.

It can only be adjusted in width up to a maximum of 10 cm per side by unscrewing the bolts and turning it 180 degrees in height.
FILLING FROM EXTERNAL SOURCE WITH FILTER

As these are potentially dangerous fluids, check the product safety data sheet, use the appropriate protection devices and pay the utmost attention.

The pump must not suck up water or other liquids from a tank or well that is deeper than 6 meters (consequent rupture of the membranes or serious damage to the pump)

1. Turn the lever of the control unit to the unloading position. (see chapter "CONTROL UNIT - position 4")
2. Disengage the fan rotation. (see fig. 1)
3. Remove the plug from the suction filter. (see fig. 2)
4. Engage the power take-off.
5. Connect the suction hose to the filter. (see fig. 3)

After the filling:
- Stop the PTO.
- Remove the filling pipe.
- Replace the suction filter cap.
IN ACTION

Limit the work area in windy days

Make sure that the hand-washing and circuit-washing tanks are full

1. Enter the vegetative zone.
2. Move the fan knob to the moving position. (see chapter "MULTIPLIER")
3. Turn the control lever to the discharge position. (see chapter "COMMAND GROUP")
4. Activate the power take-off to fill the circuit.
5. Turn the control lever into position. (see chapter "COMMAND GROUP")
GEARBOX

2 SPEED

Depending on the type of work, the gearbox can take three different configurations. As shown in the figures below:
- Central position: neutral (see im. 1)
- Counter-clockwise movement: fast rotation. (see im. 2)
- Clockwise movement: slow rotation. (see im. 3)

1 SPEED

The multiplier can take two different configurations. As shown in the figures below:
- Central position: neutral. (see im. 4)
- Shift to the left: movement. (see im. 5)
MULTIPLIER MAINTENANCE

There are different ways to top up the oil, depending on the type of machine and its configuration.

Indicator

The oil level indicator is placed on the multiplier.

Configuration 1

If there is a cap above the fan assembly, unscrew it and top up.

Configuration 2

Remove the internal grill, unscrew the cap placed on the multiplier and top up.
Configuration 3

In some configurations it is not possible to disassemble the grille so you need to connect a tube to the multiplier cap and top up through a suitable syringe.
MANUAL CONTROL

The control unit consists of a lever that can rotate counter-clockwise by 360°, defining a type of operation for each position, and a knob that, turned clockwise, increases the pressure while decreasing if turned counter-clockwise.

The sprayer can be equipped with two different manual control models:

ANNOVI

COMET

Together with this document each purchaser will receive the manuals of the Instructions for Use of the relevant manual control.
The following are the positions that the Control Group can take based on the work to be performed.
**Position 1**
In this position of the lever both flows are in operation and the knob has been rotated to give a pressure of 50 bar.

**Position 2**
In this position of the lever only the flow of the left is in operation and the knob has been rotated to give a pressure of 50 bar.

**Position 3**
In this position of the lever only the flow of the right is in operation and the knob has been rotated to give a pressure of 50 bar.

**Position 4**
In this position of the lever there are no flows and the knob has been rotated to give a pressure of 0 bar so the pump is in stand by.

**Position 5**
In this position of the lever there are no flows and the knob has been rotated to give a pressure of 50 bar in order to have the possibility of using a manual dispenser.
The electric control unit replaces the manual control for the distribution of the product and it is installed together with the control box equipped with switches to allow different working modes.

Through the control box it is possible to set different configurations:

**Position 1**
With all switches down, the control unit is in Bypass position to allow the suction of liquids.

**Position 2**
By operating only the switch at the bottom, the spokes are activated.

**Position 3**
Operating the switch at the bottom and the switch 1 activates the left side.

**Position 4**
Operating the switch at the bottom and the switch 2 activates the right side.

**Position 5**
Operating all the switches, both the right and left parts are activated.
**HANDLING**

The loading and unloading operations of the machine must be carried out by expert operators, on a flat, compact and non-yielding terrain, and with adequate means for the weight and bulk of the machine.

During lifting, avoid sudden movements and oscillations to avoid damaging delicate parts of the machine. Move the machine carefully, making sure that there are no people within the range of the lifting device, and follow the safety rules regarding the handling of loads.

![Warning symbol]

All machine loading and unloading operations must be carried out in safe conditions, with adequate means and by expert personnel.

The net masses of the machines are as follows:

<table>
<thead>
<tr>
<th>POLYETHYLENE</th>
<th>Masse (kg)</th>
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<tbody>
<tr>
<td>Capacity (l)</td>
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<td>600</td>
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<td>3200</td>
<td>1200</td>
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<table>
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<tr>
<th>FIBERGLASS</th>
<th>Masse (kg)</th>
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<td>Capacity (l)</td>
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<td>2000</td>
<td>650</td>
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</table>
TRANSPORT

The sprayer has a heavy and bulky structure, so maximum care is required during the transport phases. Always very delicate hooking and unhooking operations on the towing vehicle must be carried out by expert personnel, who knows the procedures to be carried out and adopts all the prescribed safety provisions.

The machine can also be transported by hand. However, considering the dimensions, manual transport is recommended only for small movements.

If the machine has to be moved inside a means of transport, it must be secured with suitable slings, considering the mass of the machine itself and the accelerations that the means of transport can transmit. It is important to avoid means of luck because they are very dangerous.

The atomizer is approved for circulation on the road, however this does not exempt the driver from complying with the highway code proceeding with the maximum prudence and adopting a driving style that does not cause danger.

⚠️ All the loading and unloading operations must be carried out by specialized operators

⚠️ Proceed with caution if driving on public roads
**RESTARTED**

The sprayer trolley is not equipped with a brake, therefore the machine must be set aside in a flat area and secured with adequate braking systems. It is advisable to place the machine in a dry and ventilated place to avoid oxidation and deterioration.

If long periods of inactivity are expected, it is advisable to keep the machine away from atmospheric agents (rain, frost, sun, etc.) and proceed with a thorough cleaning of the interior and exterior using compressed air and/or a jet of water. Water. It is also advisable to completely empty the hydraulic circuit (to avoid damage caused by frost) and the tanks (it is advisable to use anti-freeze liquid), disassemble and clean filters and nozzles that must be kept in a protected place, carry out a general inspection of the machine to identify any structural injuries and that all safety signs are present and legible.

⚠️ The machine must be unhooked from the agricultural tractor by removing the cardan shaft from the PTO ⚠️

Before using the machine after a long period of inactivity, it is necessary to check that it is not damaged, that there are no rusted parts, the oil level is sufficient, the tires are not worn, the electrical system is working properly (if exists)

⚠️ Check the correct operation of the machine after a long period of activity in a free and clear area ⚠️

⚠️ Before starting the machine grease the transmissions and the metal joints and remove the anti-freeze liquid from the tanks ⚠️
MAINTENANCE

Maintenance is a delicate operation and must be carried out by expert personnel. A good and systematic maintenance will allow to maintain the efficiency of the machine over time. All maintenance and repair operations must not be carried out outdoors but in a suitably equipped workshop room.

Ordinary maintenance means a series of simple operations to be performed by the user, to be carried out with the machine in safety ie without mechanical and electrical power supply, with the little wheels on the ground and the wheels locked with appropriate wedges.

By extraordinary maintenance we mean a series of more complex operations, in order to verify the correct functionality of the entire machine and prevent breakages and accidents.

All maintenance operations must be carried out with the machine in safety

For maintenance operations the operator must wear gloves, goggles and safety shoes

Failure to comply with maintenance interventions relieves AgriPerrone of any responsibility for the effects of the warranty
## ORDINARY MAINTENANCE

<table>
<thead>
<tr>
<th>INTERVENTION</th>
<th>PERIOD</th>
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<tbody>
<tr>
<td>Nozzle check</td>
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<tr>
<td>Nozzle check and cleaning, anti-drip membranes</td>
<td>50 hours</td>
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<tr>
<td>Tire pressure control</td>
<td>100 hours</td>
</tr>
<tr>
<td>Accumulator pressure control</td>
<td>50 hours</td>
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<tr>
<td>Suction circuit check</td>
<td>End of the season</td>
</tr>
<tr>
<td>Suction / delivery valve control</td>
<td>End of the season</td>
</tr>
<tr>
<td>Check tightening of pump screws</td>
<td>End of the season</td>
</tr>
<tr>
<td>Cleaning of delivery filters and wear status</td>
<td>10 hours</td>
</tr>
<tr>
<td>Pins and screws fixing</td>
<td>50 hours</td>
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<tr>
<td>Oil check (level and status)</td>
<td>10 hours</td>
</tr>
<tr>
<td>Membrane control and oil replacement</td>
<td>250 hours</td>
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</table>
SPRAYER CHECK AND EXTRAORDINARY MAINTENANCE

The sprayer check consists in the accurate control of all the components of the machine; must be carried out after the first year of operation and subsequently after every year at "AgriPerrone" or other authorized workshop.

The control has to be made at "Agri Perrone"

"AgriPerrone", after having performed all the operations required for the coupon, certifies the good condition of the machine by affixing the date, stamp and signature in the space below

<table>
<thead>
<tr>
<th>DATE</th>
<th>STAMP AND SIGNATURE</th>
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Extraordinary maintenance requires the control of all the components of the machine, with particular attention to the bearing structures and the main equipment.
All damaged, broken, worn, corroded components must be replaced. The new components must be exactly the same as those to be replaced. If necessary, require the components from "AgriPerrone".

It is advisable to perform extraordinary maintenance at "AgriPerrone", or other authorized workshop, in order to maintain the functionality and safety of the machine unaltered.

It is advisable not to hesitate to replace parts and / or components that are not able to offer guarantees of functional safety and / or reliability.
FAULTS

The information provided is intended to help you understand possible remedies for possible failures that may occur during use of the machine. Some of these remedies can be carried out by expert personnel, others must be carried out at "AgriPerrone" or another authorized workshop as detailed knowledge on specific repairs and tools is required.

FAULT CAUSE REMEDY

Liquid does not prime. Suction circuit not watertight. Restore the perfect hydraulic seal of pipes and fittings.

Distributor switch lever in "Pressure" position. Move the distributor switch lever to the "By-pass" position.

The pump does not reach the desired pressure. Seat and plate worn in the suction and delivery valves. Replace the worn valves (*)

Worn nozzles or excessive diameter. Replace worn nozzles. Use nozzles with a suitable diameter

Choking in the suction circuit. Remove the restriction in the circuit.

Suction filter dirty. Clean the filter cartridge

The manometer needle oscillates. Pulsating pressure. Suction circuit not watertight. Clean or replace the suction valves at delivery (*)

Residual air inside the pump. Evacuate the residual air by opening a delivery in use with the working pump.

Valve plate glued on the seat. Restore the perfect hydraulic seal of pipes and fittings.

Deflated pressure accumulator. Restore the correct accumulator inflation

Irregular liquid flow to the nozzles. Deflated pressure accumulator. Restore the correct accumulator inflation.

Increased noise and simultaneous lowering of the oil level (cavitation pump). Choking in the suction circuit. Remove the choke in the circuit

Suction filter dirty. Clean the filter cartridge

Presence of oil on the pump body or on the base. Oil seal wear on the pump shaft. Replace the used oil seal (*)

Oil overpressure inside the pump. Restore the correct oil level in the tank

Excessive oil consumption (oil leaking from the delivery) or whitish oil / water emulsion in the tank. Breaking of one or more membranes. Stop the pump immediately. Replace membranes (*)

(*) Interventions to be carried out at an authorized workshop.
REPAIRS AND CHANGES

The sprayer is a machine and as such has been designed in accordance with the provisions of the D.P.R. n. 459 of 24 July 1996. For this reason, any intervention on the machine is risky, especially if the design criteria followed and the safety requirements required by current regulations are not known.

For any repairs, it is strongly recommended to contact "AgriPerrone", the Atomizer manufacturer, or to an authorized workshop, to ensure, at the end of the intervention, the full functionality and safety of the machine.

Each component must be replaced with the same or equivalent component, i.e. having the same geometric and functional characteristics and resistance.

Modifications to the machine without the manufacturer's approval are strictly prohibited. Furthermore, only "AgriPerrone" or an authorized workshop can physically make changes to the machine.

"AgriPerrone" carefully evaluates the "minor" changes (which have no impact on the functionality and safety of the machine) proposed by the customer, which are implemented only after written approval by "AgriPerrone". The approval document, which also provides the details for the introduction to the change, must be attached to this User Instructions manual.

If it is considered convenient to introduce "major" changes (which have an impact on the functionality and safety of the machine), "AgriPerrone" provides, if necessary, for a new Technical File and new Instructions for Use.

"AgriPerrone" declines all responsibility for inconveniences to people or things caused by unauthorized repairs or modifications to the machine or in any case carried out by unauthorized third parties.
WARRANTY

The atomizer is guaranteed for a period of 12 months starting from the date of delivery. The guarantee consists in the free replacement of all the components that show malfunctions or breakages due to an ascertained defect in the origin of the material or due to a defect generated during construction.

The assessment of the defects must be made at "AgriPerrone" and the judgment is final. Malfunctioning components are sent to "AgriPerrone" at the cost and risk of the customer. If "AgriPerrone" ascertains the defect, it replaces it with new components. The customer must collect the new components at his own expense. The malfunctioning components remain at "AgriPerrone".

The guarantee does not apply to those components which by their nature are subject to wear and deterioration.

The guarantee is granted to the purchaser of the machine to which the invoice is registered and cannot be transferred to third parties.

The warranty is void if:

• The service is not carried out within the first month of work of the machine or is not done at "AgriPerrone" or other authorized workshop;
• The machine is operated in conditions other than those specified in this document;
• Materials and components other than those recommended in this document are used;
• Ordinary and extraordinary maintenance is not carried out correctly;
• The machine continues to be used even though a fault, defect or anomaly has been detected that could affect the functionality of the machine;
• Repairs or modifications are made without the written authorization of "AgriPerrone".
SCRAPPING

In the event of scrapping, the machine must be disposed of in suitable landfills in accordance with current regulations.

Before proceeding with the scrapping it is necessary to separate the plastic parts, the rubber parts and the electrical material.

Furthermore, all the equipment must be carefully cleaned. The washing residues must not be dispersed in the environment since it is forbidden and can cause pollution.

Used oils should be disposed of in special collection centers.

⚠️ Used oil must be recovered and disposed of in special collection centers because, according to current regulations, it is classified as hazardous waste and must not be dispersed in the environment.