

INSTRUCCIONS FOR USE AND MAINTENANCE







List of topics

1. GENERALITIES		4
1.1	GENERAL CONSIDERATIONS	4
1.2	CONSULTING THE MANUAL	4
1.3	LEGISLAZIONE E NORME DI RIFERIMENTO PRINCIPALI	4
1.4	SYMBOLS USED IN THE MANUAL	4
1.5	IDENTIFICATION PLATE	5
1.6	ORDERING SPARE PARTS	5
1.7	WARRANTY AND LIABILITY	5
2. SAF	ETY REGULATIONS FOR OPERATORS	6
2.1	REQUIREMENTS FOR THE SAFETY OF OPERATORS	6
2.2	DEFINITION OF THE TERMS OF SECURITY	6
2.3	Personal protective equipment	6
2.4	USE OF EQUIPMENT	7
2.5	AIRCRAFT NOISE AND VIBRATION	7
2.6	INFORMATION RELEVANT FOR SAFETY FOR PRESSURE EQUIPMENT	7
3. FEA	TURES	8
3.1	INTRODUCTION	
3.2	GENERAL DESCRIPTION OF THE MACHINE	
3.3	TECHNICAL FEATURES :	10
3.4	Principle of Functioning	10
4. STO	RAGE,TRANSPORT, ASSEMBLY	11
4.1	LIFTING AND TRANSPORT	11
4.2	STORAGE	11
5. FUN	ICTIONING AND USE	12
5.1	INTRODUCTION	12
5.2	CHARGING THE BATTERIES	12
5.3	FILLING THE TANK	14
5.4	ATTACHING THE WAIST BELT	15





5.5	INSTRUCTIONS FOR USE	16	
		=•	
	ED CAN BE INCREASED WHILE THE PUMP IS RUNNING, SPRAYING EITHER WITHTHE LEVER CLOSED, OR SIMPLY BY TURNING THE SPEED SELECTOR	16	
DURING	During the use avoid wetting the solenoid		
	e backpack spray is used for a long period, the solenoid valve may warm. This heating is not to be considered dangerous	16	
5.6	Turning	17	
5.8	SELECTING THE SPEED OF DELIVERY	17	
5.7	Selecting timer volume	18	
5.9	SECURITY SHUT-OFF	18	
5.10	CHANGING THE NOZZLE	19	
5.11	LED INDICATOR OF BATTERY CHARGE	19	
6. ROUT	INE MAINTENANCE:CLEANING	_ 20	
6.1	INTRODUCTION	20	
6.2	CLEANING	20	
6.3	RINSE THE TANK	21	
6.4	EMPTYING THE TANK	21	
7. EXTR	AORDINARY MAINTENANCE	_ 22	
7.1	GENERALITIES	22	
7.2	REPLACEMENT OF BELTS	22	
7.3	TROUBLESHOOTING	23	
8 DEMO	LITION AND DISPOSAL	_ 24	
8.1	DEMOLITION AND DISPOSAL	24	
8.2	DISPOSAL OF THE MACHINE	24	
8.3	DEMOLITION MATERIALS	24	
8.4	INDICATIONS FOR APPROPRIATE TREATMENT OF THE WASTE	24	
LIST O	F SPARE PARTS	_ 26	





1 GENERALITIES

1.1 GENERAL CONSIDERATIONS

The equipment has been designed and built to spray medicines such as vaccines and similar exclusively on animals. More specifically, it allows the treatment into chicks hatcheries with spray vaccines during the first hours of life.

It must not be used for any other purposes. This equipment has been designed to ensure the best results, remembering that all operating instructions and recommendations in this manual must be followed. For better results, perform regular maintenance in order to keep the machine in top condition.

1.2 CONSULTING THE MANUAL

This manual has been organized so that the user can find the information necessary for the operation and maintenance of the equipment quickly and easily. The user must read the manual entirety and carefully, and make sure that all the information is perfectly understood.

The secondary function of the manual is to be a reference document and consultation, to be used whenever it is necessary to perform a procedure or operation. Therefore it is important to keep this manual available to the personnel involved in the management and maintenance in order to be consulted at any time.

1.3 LEGISLAZIONE E NORME DI RIFERIMENTO PRINCIPALI

- MACHINERY DIRECTIVE 2006/42/CE
- UNI EN ISO 12100:2010 Safety of Machinery
- UNI EN ISO 4414:2012 Systems and automatic components.

1.4 SYMBOLS USED IN THE MANUAL

The following symbols are used in the manual to highlight important information and warnings:



This symbol indicates the prohibition to perform certain maneuvers and operations that can threaten the safety of the operator and the integrity of the machine. Read the note on the side carefully.

This symbol indicates important messages of danger essential for the safety of the operator and the machine. Please read the note on the side.

This indicator aims to show a note in the manual particularly important for the use of the machine.





IDENTIFICATION PLATE

On the machine there is an identification Plate (Fig.1.1) indicating the following information:

Manufacturer's data

Model of the machine

Code (Number)

Year of manufacturing

Technical Features

CE Marking which certifies that the machine complies with Directive 2006/42/EC.





1.6 ORDERING SPARE PARTS

Any request regarding spare parts must be sent specifying:

- model of the machine;
- serial number
- · code of the part to be ordered
- quantity required;
- means of shipping.
- contact

1.7 WARRANTY AND LIABILITY

The unit is sent to the customer, after having passed the tests by the manufacturer, in accordance with applicable laws. The manufacturer ensures that the equipment described in this manual, for a period of 12 months from the date of delivery and within this period will repair or replace defective parts causing malfunction provided that the machine has been used successfully in accordance with the instructions in the manual of use and maintenance.

The warranty is completely void if:

- The equipment is tampered with by unauthorized personnel
- Unoriginal parts are used
- For poor maintenance and abnormal operation of the machine.
- · Spare parts replaced under warranty must be returned to the Company
- The warranty does not cover equipment parts subject to wear and tear.

The Company is not responsible for malfunctions or general failures, caused by the use ,not allowed, of the equipment or due to intervention and / or modification by anyone other than not authorized for the company.





2 SAFETY REGULATIONS FOR OPERATORS

2.1 REQUIREMENTS FOR THE SAFETY OF OPERATORS

The rules listed below should be read carefully and become a fundamental part of daily practice in the management and maintenance of the equipment in order to prevent any kind of injury to persons and / or damage to property.



Do not switch on the equipment until the functioning has been clearly understood.



Ensure that all safety requirements are aware of the personnel involved in the use, cleaning and maintenance.



Before using the equipment, the operator must check the presence of visible defects in the machine. In this case, immediately notify the person responsible for the equipment defect.



Replace the parts considered faulty with others indicated by the company. NEVER try risky solutions.



The machine must be used exclusively for the administration of drugs to animals, as determined by the company: Apply and enforce safety regulations at all times, in case any doubt arise again refer to this manual before you act

2.2 DEFINITION OF THE TERMS OF SECURITY

In this manual, in relation to security, we make use of the following terms:

Danger Zone	each zone within and / or around the machine in which the presence of an exposed person constitutes a risk to the safety and health of that person.			
Exposed Person :	any person wholly or partially in a danger zone.			
Operator:	Person trained to use ordinary machine, for example: starting-up,			
-	stopping work order, maintenance tasks such as basic cleaning of			
	components.			
Safety Components: components designed by the manufacturer and marketed				
	separately from the machine in order to fulfill the safety functions .			
	Therefore it is possible to consider "security" when the failure of			

the component affects the safety of people exposed.

2.3 PERSONAL PROTECTIVE EQUIPMENT

The operator, before starting work, must know the characteristics of the equipment and must have fully read this manual.

IMPORTANT !

The employer must provide the Personal Protective Equipment and inform the staff on their proper use and maintenance.





THE PPE (Personal Protective Equipment) that must be used by the operator **during the** operations of maintenance and cleaning are work-clothing, gloves and goggles



Follow all safety and manipulation notes relating the containers of chemicals and their use. Wear sturdy shoes or boots with non-slip soles. Always use protective clothing, respiratory and eye protection when spraying or handling chemicals.

2.4 **USE OF EQUIPMENT**

The equipment has been designed and built to be used by a single operator that operates wearing the backpack on his shoulders and spraying the medicine through the manual lever (or similar) into the environment.

2.5 AIRCRAFT NOISE AND VIBRATION

The equipment has been designed and built to minimize the noise level. The measurement of sound pressure has been performed on a machine of the same model and founding an energy score of less than 70 dB (A).

The vibration measurement has not been carried out because it has been rated with significantly lower levels of risk.

2.6 INFORMATION RELEVANT FOR SAFETY FOR PRESSURE EQUIPMENT

the user must take care to ensure that all pressurized components (pump, hose, Before use, nozzle and dispensing nozzle), haven't undergone serious dents or corrosion. Both before and after the use, the equipment must be protected from atmospheric agents. You must take care when handling the storage and ensure appropriate packaging for transport (if necessary). It should not be used beyond the limits envisaged by the project, limitations identified on the nameplate. During the financial year ,avoid that the equipment is subject to vibration that can lead to fatigue failure. Any tampering or misuse are forbidden.

Do not approach to open flames or sources of heat. Do not use the equipment in areas where there are risks of explosion and fire. The equipment should be used at a temperature between 0 ° C and 50 ° C. Do not use in equipment other types of fluids if not air, (in particular corrosive, highly flammable and toxic products are prohibited).

IMPORTANT !

The manufacturer's liability ceases with modifications or tampering or operations which may compromise the safety and stability ,practiced after the final inspection and issue the declaration of conformity.





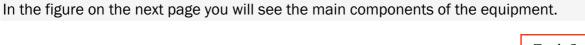
3 FEATURES

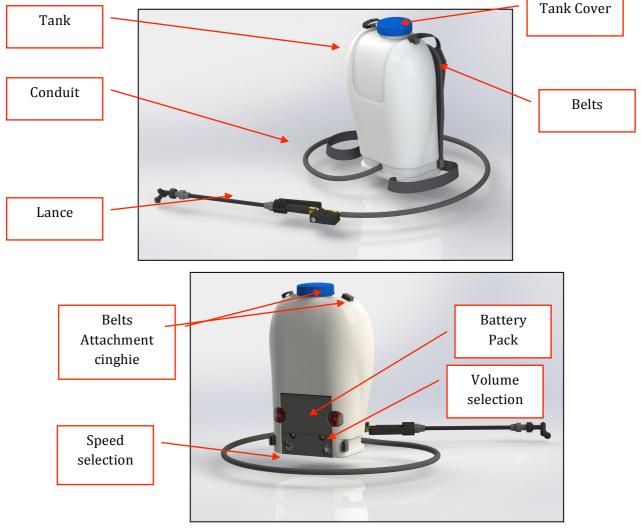
3.1 INTRODUCTION

The purpose of this chapter is to provide an overview of the characteristics of the equipment. Reading this chapter is recommended for all persons involved in its use and its maintenance : **OPERATORS AND QUALIFIED PROFESSIONALS**

3.2 GENERAL DESCRIPTION OF THE MACHINE

As shown in the following image, the apparatus consists essentially of a backpack made of a tank and appropriate straps which allow to wear it. The tank, equipped with electric heater and pump is connected to a delivery lance that allows spraying the contents of the tank itself.











Below are some details to help you use the backpack.







3.3 TECHNICAL FEATURES :

Empty weight	kg
Height	mm
Depth	mm
Width	mm
Pump Pressure (max)	3,1 bar
Battery	12 V
Tank Capacity	15,14

3.4 PRINCIPLE OF FUNCTIONING

The apparatus consists of a reservoir enclosed by a series of belts and straps, which allow to wear it. A manually operated dispenser with spray nozzle for spraying medical product into animals is connected to the tank, filled with vaccine (or other medical product),. The operation of the dispenser is guaranteed by the presence of an electric pump powered by a 12 V battery





4 STORAGE, TRANSPORT, ASSEMBLY

4.1 LIFTING AND TRANSPORT



To avoid that, in case of fall of the apparatus, some parts may affect people or break, make sure that during transport, there are no obstacles.

IMPORTANT!

The company is not liable for any damage caused to the equipment during transport.

4.2 STORAGE

In case of prolonged storage, keep the machine protected from rain and wind, and possibly in a dry place. Protect particularly well against dust and external agents. The device will be damaged if, during its storage, will be kept in environment at critical temperatures. Do not expose the machine at temperatures below 0 $^{\circ}$ C and above +50 $^{\circ}$ C.

IMPORTANT !

The nebulizer will turn off automatically if not used for 2 minutes. However, make sure that the unit is turned off, the pressure is emptied in the line and that the plug is removed from the power of the battery, making sure to unplug when the battery pack is not in use. To prevent damage, lock the nebulizer when transporting.





5 FUNCTIONING AND USE

5.1 INTRODUCTION

The purpose of this chapter is to provide all the information necessary for the use of the equipment for the injection of drugs in animals.

Reading this chapter is recommended for all persons involved in its use and its maintenance **OPERATORS AND QUALIFIED PROFESSIONALS**

Before starting the installation operations, verify that the equipment is clean.

5.2 CHARGING THE BATTERIES

Make sure that the battery is charged, the 12 V battery completely discharged takes about 14 hours to fully charge. The battery can be charged at distance in the following way:

1. Loosen the lower straps, move the padding for the back and access to the battery.

2. Unlock the latches of the battery pack by turning in the opposite direction to the battery pack.

- 3. Remove the battery pack from the battery compartment.
- 4. Remove the power plug from the power pack.
- 5. Plug the charger into the socket battery pack.
- 6. Plug the charger into a wall outlet of 220 V.
- 7. When fully charged, remove the plug from the battery pack.
- 8. Make sure that the latches of the battery pack are in open position.
- 9. Rotate the battery latches in the locked position.

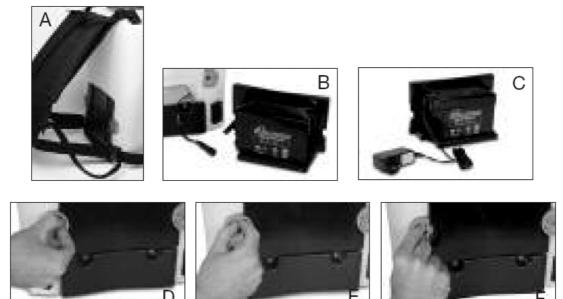


Fig. 5.1 : Operations for battery charging





• Insert the battery pack and locks the latch of the battery compartment (see Figure 5.2) The battery latches are of bright colors for safety reasons. Make sure they are locked in place before using the spray

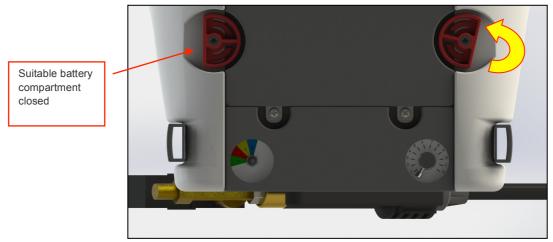


Fig. 5.2 : Locking the battery compartment

Note: The battery must be charged 24 hours before the first use.

The backpack WILMA uses a high capacity 12-volt battery, which guarantees many hours of intermittent use after being fully charged. For intermittent use we mean one minute on, one minute off. The battery requires an intensity of current charging at low amperage. A fully discharged battery takes about 14 hours to fully recharge. Always charge the battery for about 8 hours after each day of use even if the battery is not fully discharged in order to prevent reaching a low state.

The wall charger is a unit in two phases. It ensures the maximum amperage to fully charge the battery and automatically switch to a current maintenance, once the battery reaches its full charge.

The battery pack is a self-supporting group that can be removed from the nebulizer without tools, allowing the remote charge of the battery pack. A spare battery can be purchased for situations of prolonged use, allowing the user to change the battery and continue working charging the discharged battery.





5.3 FILLING THE TANK

Fill the tank with the product to be sprayed, placing it on a clear, flat, level surface. The use of the input filter is always required. The filter protects the pump from foreign objects that may cause malfunction and / or a total block.



Fig. 5.3 : Particular tank that highlights the locus of the internal filter

The materials used for the straps and the padded backrest are water-resistant and porous, but some liquids may enter between the joints. To protect them from chemicals, when filling ,the tank straps and the padded backrest should be removed.

- 1. Pull the lower straps through the blocks of tension, to free them. (A)
- 2. Remove the upper straps from the brackets. (B, C)
- 3. Remove the belt life.



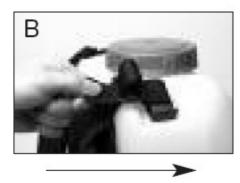




Fig. 5.4 : Removing belts



Do not use wettable powders as these are not suitable to form a solution. This nebulizer doesn't agitate the contents of the tank..



The maximum temperature of the liquid to be sprayed must not exceed 43 $^\circ$ C.



Fill the tank from the opposite side with respect to the area where the user will support the back, to avoid spills even from the side of the battery pack.







In case of accidental contact of the liquid with the battery pack, remove and wipe the battery pack terminals and mounting bracket with a dry cloth..



Wear suitable protective equipment (gloves, clothing, goggles, shoes).

Fill the tank from the opposite side with respect to the area where the user will support the back, to avoid spills even from the side of the battery pack.

The level indicator on the reservoir of the nebulizer must be considered as approximate because the volume of the reservoir may vary in the molding process.

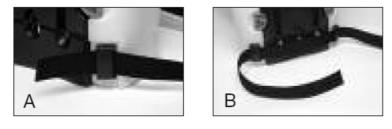
If the liquid gets in contact with the battery pack, remove and wipe the battery pack terminals and mounting bracket with a dry cloth.

Once the tank is full, place the lid and tighten by turning clockwise.

5.4 ATTACHING THE WAIST BELT

1. Pass one end of the waist belt through a bracket below the inferior belt. (A, B)

2. Attach the male end of the hook to the belt. (C, D)



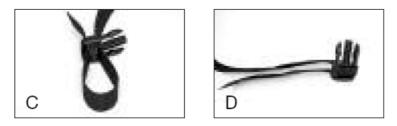


Fig. 5.5 : Attack of the waist belt





5.5 INSTRUCTIONS FOR USE

- 1. Place the unit on a table or other elevated and flat surface. Put both arms in the straps, firmly pull the loose ends to tighten the straps. Close the waist belt to tighten and pull firmly on the free end of the belt.
- 2. The turning of the pump takes place by pressing the lever of the lance for a few seconds.
 - A. Once the stream has been activated with a constant flow rate, the pump is primed and ready for use. Release the lever to stop the operation of the pump.
 - B. The locking mechanism on the manual lever, allows the operator during periods of continuous operation to avoid fatigue.

3. THE SPEED CAN BE INCREASED WHILE THE PUMP IS RUNNING, SPRAYING EITHER WITH THE MANUAL LEVER CLOSED, OR SIMPLY BY TURNING THE SPEED SELECTOR

IMPORTANT !

DURING THE USE AVOID WETTING THE SOLENOID

IMPORTANT !

TANT ! Between the tube and the lance there is a joint that allows it to rotate. Don't rotate the lever beyond 90 °. This could damage the electrical connection.

IMPORTANT !

WHEN THE BACKPACK SPRAY IS USED FOR A LONG PERIOD, THE SOLENOID VALVE MAY BECOME WARM. THIS HEATING IS NOT TO BE CONSIDERED

DANGEROUS.





5.6 TURNING

The turning of the pump is done by acting on the lever of the lance, after which the pressure is maintained for a few seconds. The switch off occurs with the release of the lever when the circuit has reached the set pressure. In case of lack of water, the pump continues to operate for two minutes until it turns off automatically. The operation is also indicated with a red LED with continuous lights.

To accelerate and optimize the filling of the circuit, it is advisable to temporarily remove the nozzle and the pump, unscrew the cap and pour the contents into the tank until the air inside the circuit has not been completely evacuated. Then screw the nozzle on the lance and start work ensuring that everything is perfectly efficient.

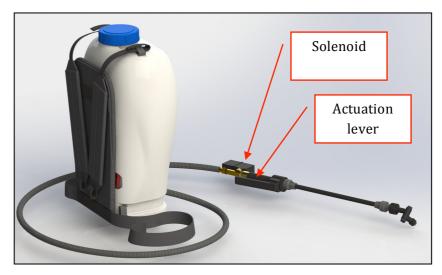


Fig. 5.6 : Operating lever

5.8 SELECTING THE SPEED OF DELIVERY

WILMA is one of the most versatile nebulizers vaccines available on the market, thanks to its four variable speeds. The selection is done using the switch with four positions indicated by colors (green, red, yellow and blue) on the bottom of the backrest.

The selected speed must match the type of nozzle used.

If the nozzle is too small, the pressure switch on the pump may intervene. In this case you need to get off at the lower speed until the stop of frequency.



Fig. 5.7 : Selecting the speed





5.7 SELECTING TIMER VOLUME

WILMA is equipped with a unique system of dosing the amount of vaccine to be dispensed in relation to specific conditions (eg. number of animals for each box). Through the regulator located on the rear of the backrest, opposite to the switch control of the speed, one can select and fix the quantities that are distributed repetitively in a precise manner each time that the control lever of the lance activates. While applying pressure, the volume set is delivered. This stops automatically and simultaneously the lever is released, and this is repeated each time.

If the lever is kept activated, after an interruption of two seconds , the supply resumes and never stop automatically but only after the release.

The amount of vaccine delivered should be tested with a graduated cylinder in order to fix the value on the dial (clearly the amount varies depending on the type of nozzle in use).

The set amount varies depending on the type of treatment.

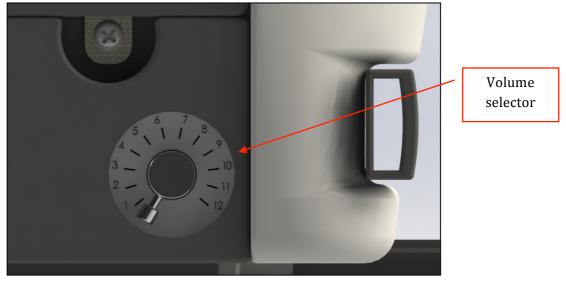


Fig. 5.7 : Selecting the volume

5.9 SECURITY SHUT-OFF

If WILMA is left unutilized for two minutes, the power will turn off automatically. A restart will take place by simply pressing the lever of the nozzle for a few seconds.



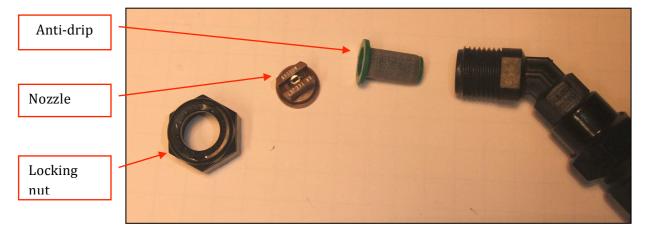


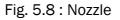
5.10 CHANGING THE NOZZLE

In the case in which the nozzle is to be replaced, it is sufficient to unscrew the data present on the head of the lance and remove the metal nozzle and the filter. Replace the filter, after checking the integrity and cleanliness.

In the case of deposits of materials, perform a cleaning of the filter by means of a jet of compressed air.

At this point you can enter the new nozzle and lock it by means of the nut.





Such operation of disassembly and cleaning by means of a jet of compressed air must be performed even in the case in which the nozzle is occluded.

5.11 LED INDICATOR OF BATTERY CHARGE

When the pump is in function the red / blue LED on the underside of the backrest remains lit continuously. In case of insufficient battery voltage light from continuous start to flash. This will block the operation of the pump until a new battery charging.

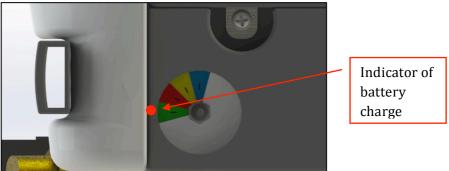


Fig. 5.9 : indicator of battery charge

IMPORTANT !

The nebulizer will turn off automatically if not used for 2 minutes. However, make sure that the unit is turned off, emptied from the

pressure in the line and that the plug is removed from the power of the battery.





6 ROUTINE MAINTENANCE:CLEANING

6.1 INTRODUCTION

This chapter is addressed both to the OPERATOR and the QUALIFIED TECHNICIAN.

IMPORTANT !

Cleaning the equipment must be carried out after each use.

6.2 CLEANING



Wear suitable protective equipment (gloves, clothing, goggles)

Take special care to perform this operation in order to avoid the risk of needlestick injury.

The elements which need an accurate cleaning are:

- The tank containing the medical product to be atomized;
- \checkmark The spray tip of the spear of delivery.

IMPORTANT !

For proper cleaning we recommend the use of products such as hot water and not-caustic solutions in order to avoid unnecessary and harmful attacks on individual components of the equipment.

IMPORTANT !

The equipment washing must be followed by a completely dry of all parts before its replacement.



Follow the rinse instructions carefully, supplied by the manufacturer of the chemical substance used. Failure to comply could result in damage to people and the environment.



In order to avoid damage to the environment the system must be rinsed, drained and free of pressure before storage in conditions of possible frost.

Once completed the use, in order to perform the disassembly of the equipment , you must act according to the following procedure:

1. Remove the input filter and remove the internal filter in the lower left angle of the tank. To access this filter you may need the help of a person with a smaller arm. Put the filter under running water to remove foreign bodies and reinstall making sure that the filter is securely in place.

2. Disconnect the power plug from the outlet of the battery pack. Remove the belts and pour the remaining contents into a suitable container for future use or dispose it according to local regulations.

Clean the tank with a damp cloth. Do not use abrasive cleaners or solvents to clean the outer surface of the tank as this may cause deterioration.





6.3 RINSE THE TANK

To make the rinse of the tank, follow the instructions below:

- 1. Use rinsing solutions recommended by the dealer of chemicals with the exception of fuels or flammable chemicals.
- 2. Rinse the tank adding several gallons of clean water: with the tank tightly closed, shake the tank to agitate the water and dissolve any chemical residue. Dispose the contents in accordance with local regulations.
- 3. Add 4 liters of clean water to the tank. Set the highest speed and with a spear, pointed in a safe direction or in a suitable container, pull the lever and allow the sprayer functions until the tank is empty
- 4. Unplug the power and overthrow the system pressure by squeezing the hand lever for several seconds directing the delivery lance to a safe area or container suitable for all hazardous chemicals.

6.4 EMPTYING THE TANK

Store in an upright position with the empty tank, eliminating the pressure from the discharge line and the lance and removing the power plug from the outlet of the battery pack. Keep the unit away from direct sunlight and out of reach of children.

In case of possible frost, follow the procedures described above, drain the fluid system as follows:

- Place the unit on a flat surface elevated ,so that the rod can be kept below the level of the tank, and activate the pump until the line is clearly without liquid.

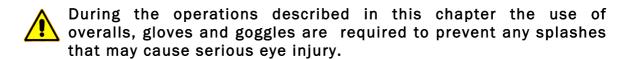
- To prevent damage , the system must be rinsed, drained and relieved of pressure prior to storage in conditions of possible frost.





7 EXTRAORDINARY MAINTENANCE

7.1 GENERALITIES

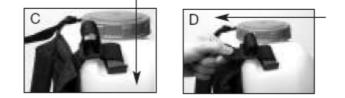


- 7.2 REPLACEMENT OF BELTS
- 1. Pass the free end of the strap through the upper bracket of the upper belt.

2. Bend the free end back toward the passer sliding (A) and pass it through the first opening of the loop itself. (B)



3. Slide the free end through the second opening of the through-sliding (C), then forcibly pull the free end to tension the belt perfectly. (D)



- 4. Repeat the procedure for the opposite upper belt.
- 5. Pass the free end of the strap through the lower bracket of the lower strap. (E)
- 6. Then pass the free end of the lower strap through the bottom opening of the voltage block. (F)
- 7. Bend the free end backwards, passing it through the remaining opening of the voltage block. (G)











7.3 TROUBLESHOOTING

Problem	Verification
The bulb in the power indicator does not turn on / the pump does not work.	Remove the battery pack and check the connections of the wires to the battery terminals, the black wire to the (-) battery terminal and the black and white wire to (+) terminal of the battery.
	Remove the power plug and check the battery socket to make sure it is free of rust and it's dry.
	Remove the battery and check the battery with a voltmeter, if the battery shows less than 12 volts, replace the battery.
The power indicator LED flashes / the pump does not work.	Remove the battery and check the battery with a voltmeter, if the battery shows less than 12 volts, replace the battery.
The power indicator lights up, the pump motor runs but does not increase the pressure.	Check the inlet hose of the pump to make sure it is not blocked or leaking.
	Check the drain hose, the filter of the spear and the nozzle to make sure they are not blocked.
The pump runs but stops or turns off the release lever of the spear.	Open the nebulizer nozzle until the pump stops. Turn off the pump, bleed the system pressure, disconnect the spray lance from the handle and check that there are no residues.
	Check all connections to the discharge hose, including the connection to the pump for leaks.
The pump runs but the flow rate is reduced	Check the input filter to ensure it is free of residues.





8 DEMOLITION AND DISPOSAL

8.1 DEMOLITION AND DISPOSAL

At the end of the real life cycle, the user firm has to proceed to the alienation of the machine in compliance with the regulations providing first emptying of lubricating fluids and general cleaning of the various elements and subsequently to the separation of the pieces that make up the machine.

After disassembling the machine it is necessary to separate the various materials in accordance with the law requirements of the country in which the machine must be eliminated. The machine does not contain dangerous substances or components that require special procedures for removal.

To dismantle the machine, proceed according to the following general procedure for removal:

-Disconnect the power supply.

-Disconnect the electrical parts.

-Disconnect the mechanical parts.



ATTENTION: When handling waste it is necessary the use of appropriate personal protective equipment.

8.2 DISPOSAL OF THE MACHINE

The disposal of waste arising from the demolition of the machine must be done with the respect of environment, avoiding pollution of soil, air and water.

In each case local laws in force must be respected.

It should be noted that waste means any substance or object which the holder discards or intends to discard or it is required to discard (Legislative Decree 152/2006).

The waste resulting from the demolition of the machine is classified as special waste.

8.3 DEMOLITION MATERIALS

Waste is considered non-hazardous if it that can be recovered pursuant to Legislative Decree 152/2006. As regards to the elimination, you must keep in mind that the materials of which the machine is made is not dangerous in nature.

WARNING

During the process of disposal you will have to follow the rules in force in the country. Store pollutants such as oils and solvents in metal drums only.

<u>Consumables</u>: Regarding to the disposal of consumer products, observe the following rules:

Batteries: The batteries must be replaced by an electrician.

Used batteries should not be disposed with household waste but they must be submitted at the appropriate disposal sites.

8.4 INDICATIONS FOR APPROPRIATE TREATMENT OF THE WASTE

The proper management of hazardous waste includes:

• Storage in suitable places avoiding the mixing of hazardous waste with non-hazardous waste.





• Ensure that the transportation and disposal / recovery of the waste is done by carriers and authorized recipients.

Transport of personal waste to authorized collection centers is only permitted if you are enrolled to the title of "Environmental Managers".



For the waste of vaccine bags and bottles , follow the instructions on the relative packaging.

8.5 Treatment of electrical / electronic equipment (EEEW) waste

With the Legislative Decree no.151 of 25 July 2005, the Italian Government has implemented the directives of the European Parliament concerning the disposal of electrical and electronic equipment waste (EEEW) (Directive 2002/95/EC and 2003/108/EC) .

The Measures: The decree specifically provides with measures and procedures to: a) prevent the production of EEEW;

b) to promote the re-use, recycling and other forms of recovery of EEEW, in order to reduce the quantity of disposal;

c) improve, from an environmental point of view, the intervention of the partners involved in the life cycle of these devices (manufacturers, distributors, consumers and operators directly involved in the treatment of WEEE);

d) reduce the use of hazardous substances in electrical and electronic equipment. The decree imposes the limitation and elimination of certain substances in EEEW: lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls and polybrominated diphenyl ethers are banned.

The machine has been designed and manufactured in compliance with this Directive. Follow the directions below.

This symbol, depicting a wheeled bin with a cross , indicates the separate collection of electrical and electronic equipment waste of the machine. The user of this machine can contact the collection centers set up by the municipalities or by the company directly, or require their withdrawal from the dealer, to make a proper disposal of the waste.







LIST OF SPARE PARTS

The following kit can be provided

cover

Input filter

Kit through sliding

belt Kit

Waist belt

battery pack

Wall charger

pump unit

Control Panel

The nebulizer chamber

Spear of nebulizer

Pump cover

Hose sprayer

Cone nozzles or fan:

- Orange

- Yellow,
- Blue

- Brown.

Locking ring nozzle

filter

Attack nozzle holde