



# OXALIKA MINI CORDLESS

## Instructions for use of the Vaporizer



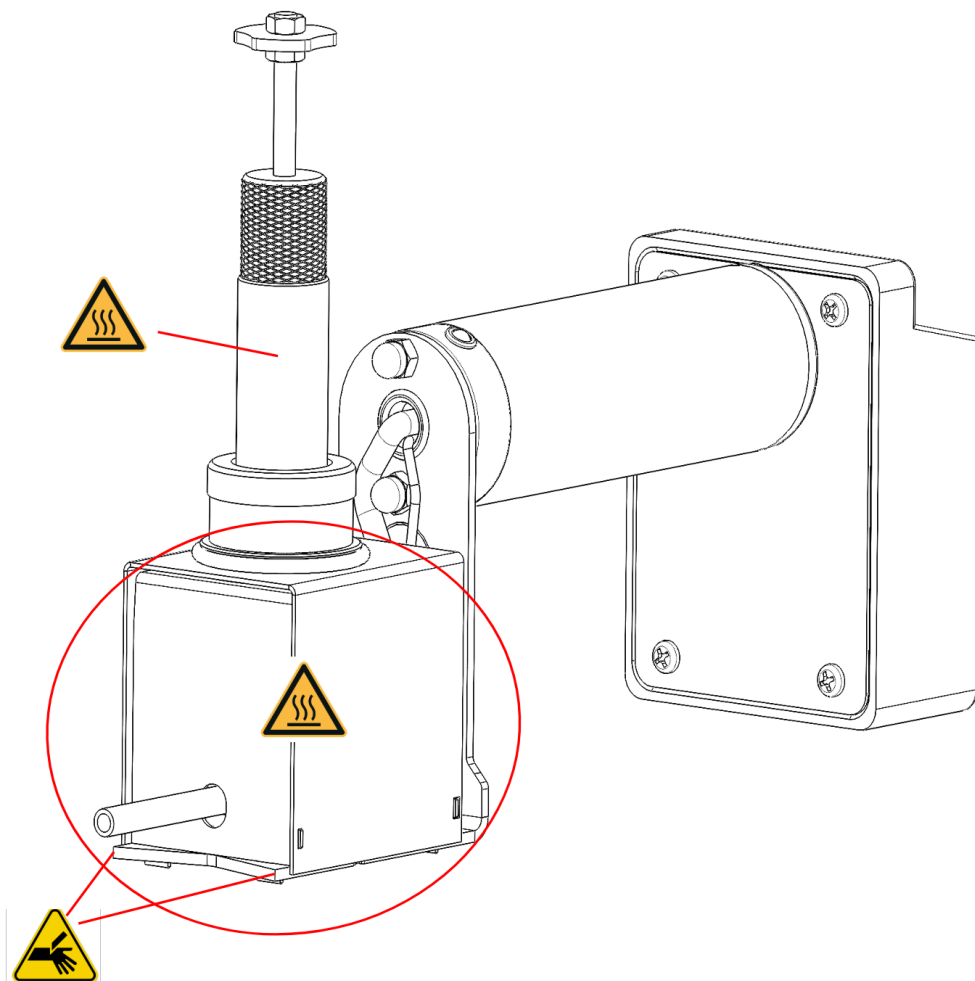
**Note:** *the image is for illustrative purposes only. This manual refers to the **OXALIKA MINI CORDLESS** vaporizer regardless of the configuration of the installed accessories.*

Read the instructions carefully before using the **OXALIKA MINI CORDLESS** vaporizer and keep them carefully. Use of the device implies acceptance of the conditions and limitations of liability stated in this manual.

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# I. Important safety instructions

All safety messages specify the existing potential hazard and indicate how to reduce the risk of injury, damage and electric shock resulting from incorrect use of the device.

## **WARNING**

Failure to follow these instructions may cause death, fire or electric shock.

The manufacturer is not responsible for damage resulting from improper use of the product.

To reduce the risk of fire, electric shock, injuries, burns and damage from exposure to oxalic acid, observe the basic precautions listed below.

1. Read all instructions before using the device.
2. Use the device only for the intended use described in the manual.
3. Do not use the device for treatments in hives not populated by bees.
4. This device is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or without experience and knowledge, unless they are supervised or instructed on the use of the device by a person responsible for their safety and understand the hazards of improper use.
5. Do not allow children to play with the device.
6. To reduce the risk of fire and electric shock:



- Follow the instructions provided by the manufacturers of the individual batteries.
- Technical maintenance and repair work must be carried out by qualified personnel, in accordance with the manufacturer's instructions and in compliance with the local safety regulations in force.
- Disconnect the power supply and wait for the device to cool down before carrying out maintenance, repair and cleaning work.
- Do not touch the device with wet body parts and do not use it barefoot.
- Make sure that the electric cables of other appliances do not touch the hot parts of the device.
- Do not expose the device to weather conditions.

- If the device, in particular the handle, overheats due to direct exposure to sunlight, move it into the shade.
- During use, the power supply system and the **OXALIKA MINI CORDLESS** vaporizer must be positioned at an adequate distance from any easily flammable material.
- Do not use the product in the event of breakage or damage to the parts of the product.

#### 7. To reduce the risk of burns



- The diffuser tube, the support base and the inlet of the vaporizer boiler reach high temperatures (about 200 °C) and therefore there is a risk of burns. Do not touch the indicated parts and wear suitable protective gloves to protect yourself from accidental contact.
- The other parts of the vaporizer, with the exception of the handle and knobs, may reach temperatures of about 90–100 °C. There is therefore a risk of burns. Wear suitable protective gloves before touching hot parts.
- Make sure that no one touches the hot device. After the device is switched off, it remains hot for several minutes.
- Avoid contact with fabrics or other flammable materials until all components of the device have completely cooled down.

#### 8. To reduce the risk of damage caused by exposure to oxalic acid:



- Do not use the device in closed rooms or confined spaces. The device is intended exclusively for outdoor use.
- Ventilation of the room alone does not make indoor use safe or compliant, even if open, aired or partially ventilated.
- Do not breathe oxalic acid vapours and dust.
- Wear a suit suitable for protecting the entire body from possible contact with oxalic acid vapours or dust.
- Pay particular attention when handling oxalic acid.
- Avoid contact of oxalic acid with skin, eyes and respiratory tract.

- Wear close-fitting goggles.  
Follow the instructions given in the respective user manuals.



- Wear gloves.  
Follow the instructions given in the respective user manuals.



- Wear a respiratory protection mask fitted with filters suitable for acid vapours, organic vapours and particulates, compliant with the regulations applicable in the country of use (for example ABE/P3 or equivalents).

Follow the instructions given in the respective user manuals.



- Always take the wind direction into account so that oxalic acid is not blown towards other people, including the person carrying out the treatment.
- After treatment, especially after winter treatment when bees do not clean as they do in summer, oxalic acid crystals may be present inside the hive and on the diagnostic tray. Be careful and wear suitable protective clothing.
- Store oxalic acid in its original packaging (with the legally compliant label) and keep it in a safe place.
- As a precaution, wash your hands thoroughly after use.

- **IF SWALLOWED:**

contact a **POISON CENTRE** or a doctor.

- **IF IN EYES:**

rinse carefully for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

- **IF ON SKIN:**

wash with plenty of water and soap.

**9.** To reduce the risk of injuries and occupational diseases, in addition to the instructions given in the previous points:

- Do not use the device without adequate lighting. If necessary, use artificial lighting systems.
- Clean the device exclusively with water, preventing it from entering the handle or wetting the thermal insulation.
- Use of the product by professional operators who make intensive use of it must take into account any aspects that could increase the operators' exposure to danger.
- Do not leave the device unattended while it is switched on.
- Do not leave either the device or oxalic acid in places frequented by children or to which children have access.
- Handle the device exclusively by the handle and the dosing or dose introduction accessories.
- For any further information on the use of oxalic acid, refer to the technical and safety data sheet of the acid itself.
- Given the nature of the device and its intended use, the hazards deriving specifically from the use of the **OXALIKA MINI CORDLESS** vaporizer are combined with the hazards connected with beekeeping activity. The professional user must address these risks after appropriate assessment of them, as required by applicable laws.

**10.** To reduce the risk of damage:

The diffuser tube, the support base and the inlet of the vaporizer boiler can reach high temperatures (about 200 °C) and therefore there is a risk of damaging the parts of the hive that come into contact with them.

Pay particular attention in the presence of plastic components, plastic-coated mesh or heat-sensitive materials. For specific cases of use on polystyrene or polyurethane hives, follow the operating methods described in Chapter III.

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## II. Operating principle and characteristics

Oxalic acid is heated until it becomes vapour and is introduced into the hive.

This forms a mist that coats the bees and the internal surfaces with a thin layer of oxalic acid crystals.

These crystals, at the indicated doses, are well tolerated by bees and are effective in controlling varroa.

The device uses electrical energy to heat oxalic acid to the sublimation temperature.

### Power supply system

The **OXALIKA MINI CORDLESS** vaporizer is supplied with an installed adapter, selected at the time of purchase, and is designed to operate with rechargeable batteries with a nominal voltage of **18 V** compatible with it (for further details, consult the dedicated section in the FAQ).

Do not use modified, incompatible or improperly installed batteries or adapters.

The use of batteries with adequate capacity, not less than **2 Ah**, is recommended; for optimal use, batteries with a capacity of **3 Ah** or higher are preferable, as they allow longer operating time. In general, greater battery capacity results in longer operating time.

To ensure correct operation of the device, the use of original batteries in good condition is recommended. The use of non-original, non-compliant or deteriorated batteries may result in:

- reduced operating time
- inadequate performance
- activation of the battery protection systems
- damage to the battery and adapter contacts due to overheating

For further information on autonomy anomalies, consult the FAQ section (FAQ 495).

### LED signals of operating status

The device is equipped with an LED signalling system, which provides indications on the operating status and on the possible presence of anomalies.

The LED is positioned on the handle of the device.

The different LED signals and their meaning are described in Chapter III

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# III. Use and operating instructions

This device is intended exclusively for **beekeeping use** for the vaporization of oxalic acid suitable for treating colonies.

The manufacturer is not responsible for uses that do not comply with the regulations in force, the instructions contained in this manual or the intended use of the device. Methods of use, dosages and authorized substances may vary significantly from one country to another.

The vaporizer is a technical device intended for the vaporization of oxalic acid and does not in itself constitute a treatment. The treatment is determined by the use of oxalic acid according to the methods and doses provided for by the product used and by the regulations in force.

The **OXALIKA MINI CORDLESS** vaporizer has been designed and built to meet specific needs for the treatment against **Varroa** of hives populated by bees.

The **OXALIKA MINI CORDLESS** vaporizer can be used in treatments against mites according to the methods provided for by the product used and by the regulations in force in the country of use. The treatment is particularly effective in the absence of brood, as mites are not protected inside capped cells.

If used correctly and in compliance with the instructions of the product used, treatment with oxalic acid by sublimation can allow effective control of varroa. The effectiveness of the treatment depends on correct application and on the conditions of the colony.

In the event of any malfunctions or damage to the **OXALIKA MINI CORDLESS** vaporizer, stop use immediately and contact the manufacturer or an authorized service centre, according to the methods indicated in the "Assistance" section.

## Oxalic acid requirements

The use of oxalic acid must take place exclusively according to local regulations, using products authorized for beekeeping use and following the instructions given on the label and in the related technical and safety documentation.

The formation of residues inside the boiler and the diffuser tube is generally attributable to the characteristics of the oxalic acid used. Oxalic acid with a high degree of purity sublimates completely, while the presence of impurities (components that are not completely sublimable) determines the formation of solid residues. These residues, accumulating over time, may reduce the performance of the device and promote clogging of the sublimated product passage ducts, increasing maintenance requirements.

The presence of residues is not to be considered an indication of malfunction of the vaporizer, but is linked to the quality of the product (acid) used.

If, due to local regulatory constraints, only products with a higher impurity content are permitted, more frequent maintenance and cleaning of the device must be planned.

For more details, refer to FAQ 170.

## Treatment methods and conditions of use

Before proceeding with use, carefully read the sections of this manual dedicated to safety, intended use and compliance with the applicable regulations.

The instructions given below are operational in nature and refer to specific conditions of use depending on the type of hive, the installed accessories and the chosen configuration.

### Diffuser tubes

The vaporizer is supplied with three diffuser tubes, which allow the use of the device to be adapted to different hive configurations.

- **Straight diffuser tube:** suitable for use from the back or through a hole on the heat-resistant hive wall (for example wood).
- **S-shaped diffuser tube:** suitable for use through the flight entrance.
- **L-shaped diffuser tube:** suitable for treatment from above, for example through the feeder hole or a dedicated hole in the crown board.

For correct assembly and insertion of the diffuser tube into the vaporizer, refer to the section “**Correct use of OXALIKA MINI CORDLESS**”.

For warnings relating to hot surfaces, the risk of damage to the hive and operating methods, refer to the sections dedicated to safety and correct use of the device.

#### Use through a dedicated hole on the hive wall

In case of use through a dedicated hole on the hive wall, observe the following instructions:

- The diameter of the hole must be **6,5–7 mm**; holes with a larger diameter may compromise the stability of the device, causing it to tilt.
- Before inserting the diffuser tube, check that the hole is not obstructed, for example by propolis. Any obstructions may hinder the correct outlet of the sublimated product, promote clogging of the diffuser tube and cause the dosing accessory to be expelled.

### Use according to the type of hive

#### Hives made of plastic material/polystyrene:

The vaporizer can be used on hives made of polystyrene or polyurethane, provided that the correct operating methods are adopted.

For this type of hive, use of the L-shaped diffuser tube is recommended, as it allows application from above, for example through the feeder hole or a dedicated hole in the crown board.

During use, it is necessary to place a thin wooden board between the surface of the hive and the base of the vaporizer. The board acts as a thermal barrier and prevents direct contact between the hot surfaces of the device and the material of the hive.

The vaporizer must be kept correctly aligned with the access hole, avoiding contact between the diffuser tube and the surfaces of the hive.

The protective silicone tubes supplied can be applied to the diffuser tube. In the event of accidental contact, they reduce damage to the hive material. In the event of brief contact, no damage occurs; in the event of prolonged contact, slight localized deformation of the polystyrene may occur.

#### Hives in covered apiaries:

The following instructions **do not constitute in any way a procedure for use** nor an authorization for use in closed rooms. They are provided exclusively to describe the risk conditions in the case of hives installed in covered structures.

In the case of covered apiaries or “apiary houses” (structures in which the hives are installed in the walls or inside the room), it is necessary to consider that, during treatment, the oxalic acid cloud may also disperse inside the room.

It is therefore necessary to distinguish between:

- **Hives completely external to the structure**  
The hives are installed outside the house and accessible only from the outside. In this case, the vapours generated by the device do not disperse inside the room.
- **Hives integrated into the structure with access from inside**  
The hives are installed inside the house or inserted in the walls, with operational access from inside and flight entrance towards the outside. In this case, during use of the device, oxalic acid also disperses inside the room.

Oxalic acid does not behave like a gas, but like a **fine mist** that tends to **settle on surfaces** (walls, furnishings, fabrics, etc.). Consequently, during use and after treatment, oxalic acid residues may be present inside the room.

#### **Simple ventilation of the room is not sufficient to completely eliminate these residues.**

For this reason, the rooms affected by the treatment must not be considered suitable for people to remain in without adequate personal protective equipment and must not be used as living or occupancy spaces.

Complete removal of residues requires thorough cleaning operations and it is not easily possible to obtain an adequate level of cleanliness.

Access must be limited only to technical operations, always adopting suitable personal protective equipment.

### Wooden hives:

The vaporizer can be used on wooden hives without particular limitations, without prejudice to compliance with the indicated operating methods and the instructions of the hive manufacturer.

Pay attention to the presence of elements made of plastic material (bottom boards, grids or internal components), which could be damaged if directly exposed to the hot surfaces of the device.

Avoid direct contact between the hot surfaces of the vaporizer and such components.

## **Dosing and dose introduction**

The operating methods, dosages and frequency of treatments may vary significantly depending on:

- the local regulatory framework
- the conditions of the colony

It is the user's responsibility to comply with the official instructions of the product used (label and technical data sheet) and with the regulatory provisions in force in the country of use.

Any guidelines and recommendations provided by recognized technical bodies and beekeeping associations may be considered as supplementary information.

Swarms and artificial swarms may be treated according to the methods provided for by the instructions of the product used.

In some conditions (for example in the presence of brood or in case of high infestation), it may be necessary to repeat the treatment according to the instructions of the product used.

The device is intended for use in hives occupied by bees. Do not treat weak colonies or empty hives.

For further details, always refer to the official documentation of the oxalic acid used.

Compatible accessories intended for the device may be used for the introduction and dosing of oxalic acid. In addition to the accessories supplied in the standard configuration (Sprint doser), compatible accessories that can be purchased separately, such as the dosing cap, may also be used.

## Sprint doser

The Sprint doser (supplied) allows the quantity of oxalic acid to be used for the treatment to be taken and dosed quickly and repeatably.

### Dose setting

To set the dose correctly, unscrew the tubular part, turn the knob and check the value in grams shown on the graduated bushing (the visible number corresponds to the set quantity in grams, as in the photo below). Once the dose has been set, reassemble the Sprint doser.

The set quantity is to be considered indicative, as it may vary depending on the degree of compaction of the powder and the particle size of the product.

If high precision is required, the use of a scale is recommended to check the value.

Take care not to accidentally turn the knob during use of the doser in order to avoid variations in the set dose. For greater safety, it is possible to mark the knob to highlight any rotations of it (for example with a marker).

### Use of the doser

Once the vaporizer has been positioned in operating configuration and the desired dose has been set on the Sprint doser:

- Make sure it is mounted correctly, with the tubular part fully screwed on.
- Insert it into the oxalic acid container from the conical side of the doser and apply moderate pressure, sufficient to compact the powder inside the doser.
- Remove the doser, checking that the cavity is completely filled and levelled.
- Insert it into the tapered coupling bushing of the vaporizer.
  - In the presence of small leaks between the Sprint doser and the tapered PTFE coupling bushing, these are generally caused by oxalic acid grains adhering to the surface of the hot doser.  
To improve the seal, wait about one second and slightly turn the doser clockwise while applying pressure.  
For further details, consult the FAQ section (FAQ 400).
- Press on the upper part of the doser (above the knob) until the dose is completely released into the boiler.
- At the end of sublimation, remove the doser from the vaporizer. The doser can then be used to prepare the next dose.

### Cleaning and storage

At the end of operations, before storing it, follow the procedure:

- Remove the doser from the vaporizer
- Unscrew the tubular part from the knurled knob, to avoid locking of the thread

- Clean the doser using water, to avoid accumulations of residues that could compromise its correct operation
- Keep the thread lubricated with the supplied copper paste



*Sprint doser ready for use*



*Doser storage configuration*

### Warnings for use

- Do not force the mechanism during use, to avoid damage
- Do not adjust the dose outside the intended scale, the doser may not function correctly
- Do not tamper with the Sprint doser

For further operating details, consult the dedicated videos:

<https://www.oxalika.com/video/#sprint-doser>



### **Smart valve**

The Smart valve **is not suitable for use** with the **OXALIKA MINI CORDLESS** vaporizer.

Use of the Smart valve on **OXALIKA MINI CORDLESS** entails the risk of **damage to the valve itself** during use.

For this reason, the Smart valve **must not be used** with **OXALIKA MINI CORDLESS**.

The vaporizer must be used exclusively with the dosing systems provided for and indicated in this manual (for example Sprint doser and dedicated compatible accessories).

Use of unsuitable systems may compromise the correct operation of the device and involve risks for the user.

## Correct use of OXALIKA MINI CORDLESS

To ensure correct and safe use of the device, it is necessary to follow the operating sequence described below.

Compliance with the described operating sequence helps maintain the performance of the device over time and reduce the risk of operating anomalies.

### Preparation of the device (with battery disconnected):

- Check the cleanliness of the vaporizer, verifying that there are no residues in the boiler or in the diffuser tube that may compromise correct sublimation or cause clogging (For further information, refer to the dedicated section in the FAQ).
- Check the cleanliness of the battery contacts and the vaporizer contacts, making sure that they are clean, dry and free from oxidation or residues. If necessary, remove any impurities using only dry and non-aggressive cleaning methods, avoiding the use of liquids or products not specific for electrical contacts.
- Configure the device with the chosen diffuser tube. Make sure that it is fully inserted into the boiler hole and from the correct side (insert the curved tubes from the longer straight side). Use the supplied grease to prevent the parts from locking and to improve heat transmission (for further information, refer to the videos available at the link at the end of the chapter).
- In case of use through a hole on the hive, check that the hole is free from obstructions (for example propolis) and complies with the specifications indicated in the “Diffuser tubes” section.

### Use phase:

- Connect the battery.
- The LED on the handle starts flashing. Wait until the LED becomes steady green: the device has reached the operating temperature and is ready for sublimation (see the signals at the end of this chapter). If a different signal appears, refer to the relevant description before proceeding.
- Introduce the dose of oxalic acid using one of the installed compatible systems (Sprint doser, dosing cap or other compatible accessories).
- During sublimation the temperature of the boiler decreases, due to the thermal absorption of the oxalic acid, and the LED starts flashing again.
- Wait for completion of sublimation and the subsequent recovery of the operating temperature (the LED returns steady green).
- Do not introduce a new dose into the boiler before complete recovery of the operating temperature, to avoid a further drop in temperature with consequent risk of residue formation and clogging of the diffuser tube.

## Operations after use:

- Disconnect the battery.
- Remove the accessory used for dosing or dose introduction (Sprint doser or other compatible accessories installed).
- When the device is still hot (but not in an active heating phase), pour small amounts of water into the boiler, until completely cooled and letting it flow out through the diffuser tube. Contact with hot surfaces may generate steam, facilitating cleaning. Pay attention to the outgoing steam and avoid direct contact, as it may cause burns.
- Prevent water from entering inside the handle or wetting the insulating fabric present under the boiler covers.
- Wash the accessory used for dosing or dose introduction thoroughly with water only.

For the complete operating procedures for using **OXALIKA MINI CORDLESS**, consult the explanatory videos available at the following link:

<https://www.oxalika.com/video/#mini-cordless-sprint>



## Interpretation of LED signals

The following signals allow the operating status of the device and any anomalies to be interpreted in detail.

### LED signals during normal operation

During normal operation, the LED emits different signals according to the operating phase. Pay particular attention to the colour of the flash, to avoid confusing normal operation signals with malfunction signals.

### **Heating with a fully charged or nearly fully charged battery**

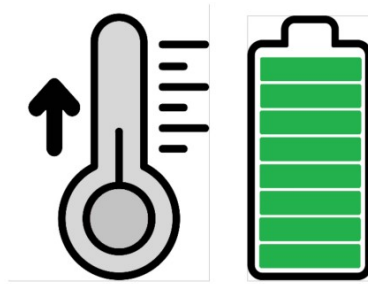
*LED signal:*

Green flashing LED (one flash every 2 seconds)



*Description:*

The device is in the heating phase with a fully charged or nearly fully charged battery.



### Heating with low remaining battery charge

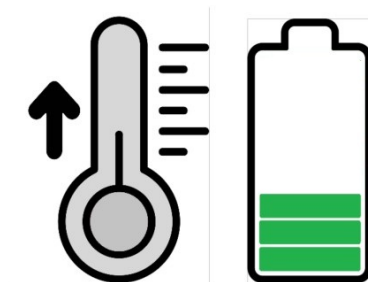
*LED signal:*

Red flashing LED (one flash every 2 seconds)



*Description:*

The device is in the heating phase with low remaining battery charge (approximately less than half).



### Ready for sublimation – Operating temperature reached

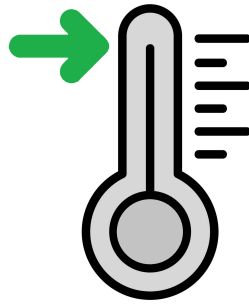
*LED signal:*

Steady green LED



*Description:*

The device has reached the operating temperature and is ready for sublimation.



**In sublimation with battery charged or close to full charge**

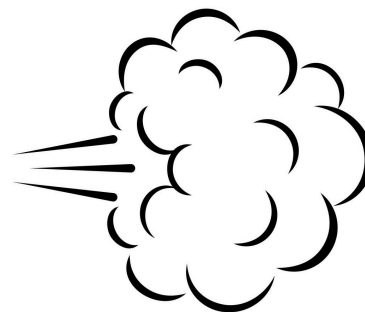
*LED signal:*

Green flashing LED (one flash every 0,5 seconds)



*Description:*

Sublimation in progress with battery charged.



**In sublimation with low remaining battery charge**

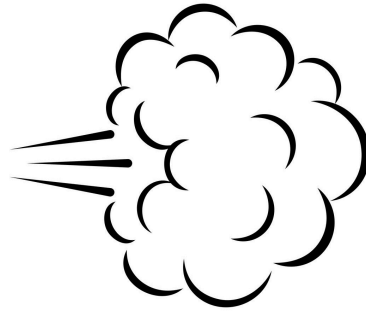
*LED signal:*

Red flashing LED (one flash every 0,5 seconds)



*Description:*

Sublimation in progress with low remaining battery charge (approximately less than half).



### **Battery totally discharged**

*LED signal:*

Red flashing LED (one flash every 4 seconds)

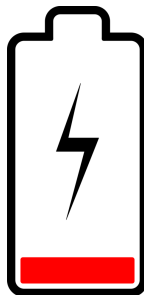


*Description:*

The battery is totally discharged.

*What to do:*

Charge the battery and reconnect it (make sure that the battery is not damaged).



### **Malfunction LED signals**

The signals listed below indicate the presence of operating anomalies or conditions that require attention.

#### **Does not detect the temperature**

*LED signal:*

Alternating green and red flashing LED (one green flash and one red)



*Description:*

The system does not correctly detect the temperature.

*What to do:*

Remove the battery and reconnect it after about 30 seconds.

If the problem persists, disconnect the battery and contact assistance.

### Insufficient heating speed

*LED signal:*

Intermittent green and red LED (two green flashes and two red)



*Description:*

The heating speed is not sufficient.

*What to do:*

Remove the battery and reconnect it after about 30 seconds.

If the problem persists, disconnect the battery and contact assistance.

### Excessive boiler temperature

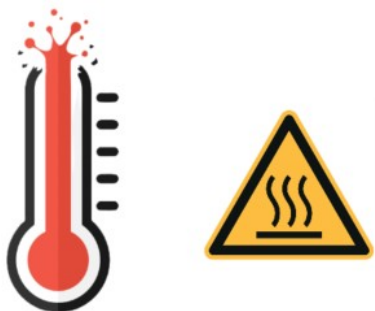
*LED signal:*

Steady red LED



*Description:*

**ATTENTION:** very hot sublimation zone.



*What to do:*

Remove the battery and reconnect it after a few minutes.

If the problem persists, disconnect the battery and contact assistance.

### **Excessive circuit temperature**

*LED signal:*

Intermittent red and green LED (2,5 seconds red and 0,5 seconds green)



*Description:*

Excessive circuit temperature.



*What to do:*

Remove the battery and reconnect it after a few minutes.

If the problem persists, disconnect the battery and contact assistance.

### **Reversal of battery polarity**

*Description:*

This condition may occur following tampering with the vaporizer.

In this case the LED will remain off but the vaporizer will continue to heat.



*What to do:*

Disconnect the battery immediately.

**ATTENTION:** the vaporizer may be hot.



## IV. Storage

Remove from the vaporizer the accessory used for dosing or dose introduction (Sprint doser or other compatible accessories installed).

Clean and prepare for storage the accessory used for dosing or dose introduction, as well as any other accessories used, according to the procedure indicated in Chapter III.

Clean and prepare the vaporizer for storage, following the procedure indicated in Chapter III.

After cleaning operations, store the **OXALIKA MINI CORDLESS** vaporizer in a dry environment, at temperatures below 60 °C, and protected from direct sunlight, making sure that the battery is disconnected.

Avoid unsuitable environmental conditions (humidity, condensation, weather exposure or impacts) that could compromise the correct operation of the device.

It is emphasized that correct storage helps maintain the performance and reliability of the device over time.

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## V. Maintenance

The operations described below concern periodic maintenance of the device and are in addition to the immediate cleaning operations reported in Chapter III (section "Correct use of OXALIKA MINI CORDLESS").

Periodic maintenance is intended to remove any residues or deposits that are not eliminated with ordinary cleaning and to check the general condition of the device.

## Ordinary maintenance

- Disconnect the power supply and wait for the device to cool down.
- Check the general condition of the device.
- Check for residues in the boiler and in the diffuser tube and for the possible presence of deposits on the surfaces of the device.
- Check the correct coupling of the components, making sure that there are no loosening, abnormal play or visible damage.
- Proceed with cleaning the device.

Pay particular attention to the sublimation zone (boiler and diffuser tube), where encrusted residues may form during use. If not removed, these residues may reduce the performance of the device, hinder the correct outflow of vapour and promote clogging of the diffuser tube.

**Keeping the device clean is essential to ensure its correct operation over time.**

In the presence of anomalies, damage or doubts about the correct condition of the device, do not use it and refer to the "Assistance" section.

## Warranty

The device is covered by legal warranty according to the applicable regulations.

The warranty does not cover normal wear of parts subject to consumption or deterioration resulting from ordinary use of the device (for example O-rings). Any replacement of such components falls within the normal maintenance of the product, without prejudice to the rights provided for by the applicable regulations in the presence of original defects of conformity.

Any unauthorized interventions, modifications or uses not compliant with the instructions contained in this manual may compromise the correct operation of the device and prejudice the application of the warranty, within the limits provided for by the applicable regulations.

In case of need for intervention under warranty, contact the manufacturer or an authorized service centre, according to the methods indicated in the "Assistance" section.

## Assistance

Technical interventions must be carried out exclusively by qualified personnel.

For interventions not provided for in this manual or in case of real need for technical assistance, contact the manufacturer or an authorized service centre.

Before requesting assistance, it is recommended to check the instructions given in this manual and, for further information, in the FAQ available on the website, which allow the most common anomalies to be identified and resolved quickly.

The assistance service is available both under warranty and outside warranty.

For assistance requests, consult the following link:

<https://www.oxalika.com/assistenza/>



## VI. Troubleshooting and frequently asked questions (FAQ)

In case of operating anomalies, before contacting assistance, check the following points, which allow the most common anomalies to be identified and resolved quickly:

### The battery discharges early

#### Possible cause:

Non-original battery, not compliant with the declared specifications, or deteriorated original battery

*Technical note: The vaporizer is a purely resistive load and has a defined energy consumption. Battery life significantly lower than expected is always attributable to the battery itself. For a detailed analysis, refer to FAQ 495.*

#### Solution:

Replace the battery

The use of original batteries compliant with the manufacturer's specifications is recommended.

## **The dosing accessory or oxalic acid introduction accessory is expelled during use**

### Possible cause:

Clogging of the passage ducts (including the diffuser tube), which prevents the correct outlet of the sublimated product or water vapour during cleaning.

### Solution:

Follow the instructions for cleaning and clearing the ducts (FAQ 695)

## **The diffuser tube tends to clog frequently**

### Possible cause:

The temperature of the diffuser tube falls below about 150–160 °C, or impurities are present that do not sublime properly, or it is mounted incorrectly

### Solution:

Follow the assembly and cleaning instructions (FAQ 695)

For further information, insights or specific cases, **consult the frequently asked questions (FAQ)** available on the website in the dedicated section:

<https://www.oxalika.com/faq-2/>



The online FAQ constitute additional in-depth and operational support material and do not replace the instructions contained in this manual.

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## VII. Packaging and disposal



The packaging is made of recyclable material.

At the end of its use, the **OXALIKA MINI CORDLESS** vaporizer, like all electrical and electronic equipment, must not be disposed of together with household waste, but must be taken to the appropriate containers. Contact the local disposal service to obtain information on the waste collection system in your country.

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## VIII. Limitations of liability

Before any use, read this user manual carefully and scrupulously in all its parts.

The manufacturer is not responsible for damage, malfunctions or ineffectiveness resulting from improper use of the product, failure to comply with the instructions contained in this manual, use of non-compliant substances or accessories, unauthorized modifications or circumstances beyond the manufacturer's control.

In any case, the mandatory rights provided for by the applicable regulations remain unaffected.

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## IX. Declaration of conformity

**Manufacturer:**

TALITHA SRLS  
Via Ugo Foscolo 21/A  
57025 Piombino (LI)

**Declares that:**

the oxalic acid vaporizer **MODEL: OXALIKA MINI CORDLESS**

complies with the provisions of the directives:

- 2011/65/UE (RoHS)
- 2014/30/UE (Electromagnetic Compatibility Directive)

**Piombino, 1 July 2023**

The legal representative:

**Dr. Matteo Tonietti**



The product is designed and manufactured in Italy, in compliance with the applicable quality and regulatory standards. Production and assembly are carried out under the direct control of the manufacturer.

**Manual version: 05/2026**