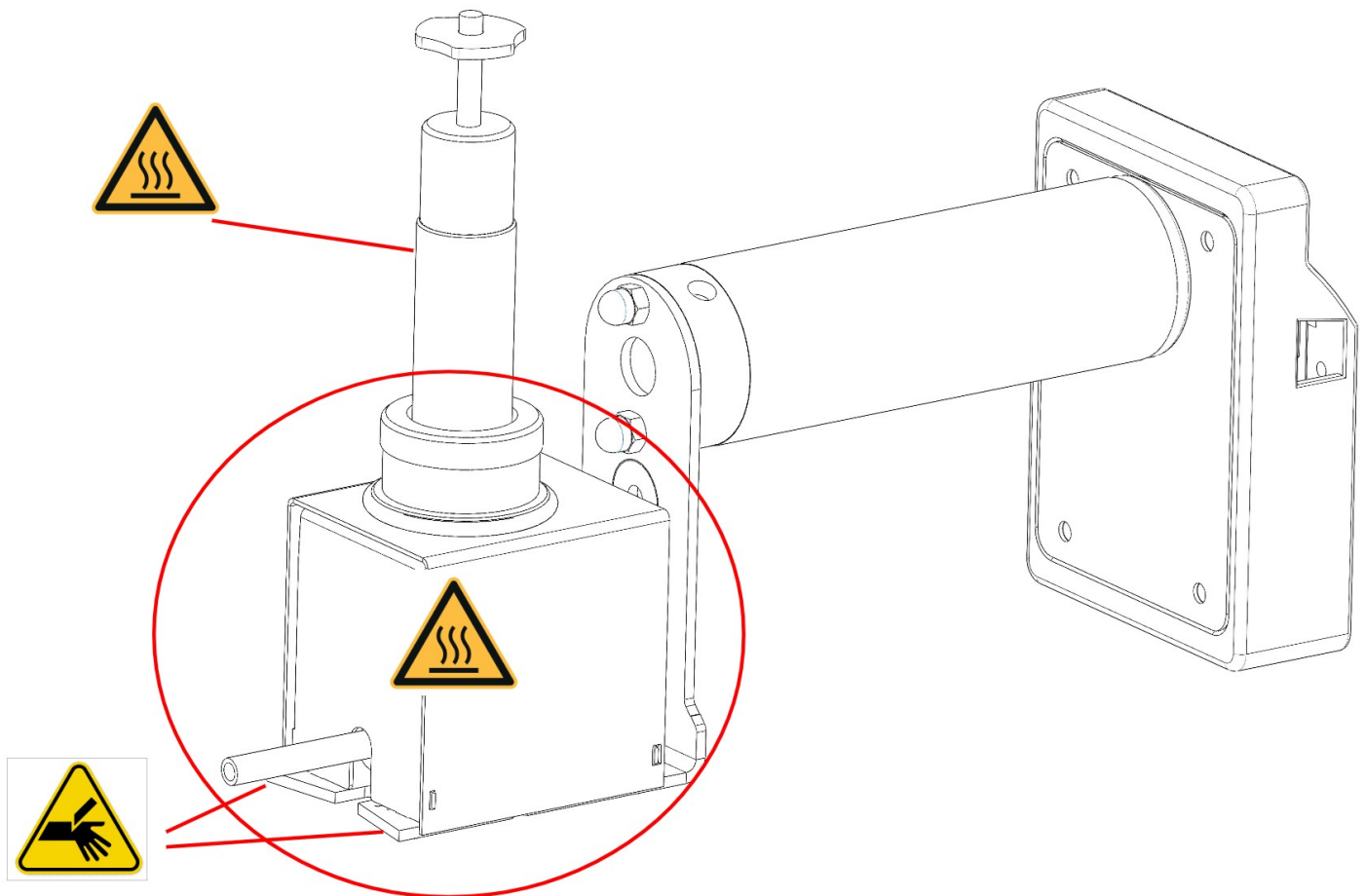


Instructions for Use of the OXALIKA MINI CORDLESS Professional Vaporizer

Read these instructions carefully before using the OXALIKA vaporizer and keep them in a safe place.

Main Hazards During Operation of the OXALIKA MINI CORDLESS



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I. Important Safety Instructions

All safety messages specify the potential hazard and indicate how to reduce the risk of injury, damage, and electric

shock resulting from improper use of the device.

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

The manufacturer declines any responsibility arising from improper use.

To reduce the risk of fire, electric shock, injury, burns, and damage from exposure to oxalic acid, follow the fundamental 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 on hives not populated by bees.
4. This device is not intended for use by persons (including children) with reduced physical, sensory, or mental abilities, or lack of experience and knowledge, unless they are supervised or instructed in the use of the appliance by a person responsible for their safety and understand the dangers 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.
- Maintenance must be carried out by a qualified technician, in accordance with the manufacturer's instructions and in compliance with local safety regulations.
- Disconnect the power and wait for the device to cool down before carrying out maintenance, repair, or cleaning.
- Do not touch the device with wet body parts and do not use it barefoot.
- Make sure that the electrical cables of other devices do not touch the hot parts of the appliance.
- Do not expose the device to atmospheric agents.
- If the device, especially the handle, overheats due to direct sunlight exposure, move it to the shade.
- During use, the power supply system and the OXALIKA vaporizer must be placed at a safe distance from any easily flammable material.
- Do not use the product if any of its components are broken or damaged.

7. To reduce the risk of burns:

- The diffuser tube and the boiler reach temperatures of about 200–220 °C and can cause burns. Do not touch the indicated parts and wear appropriate protective gloves to avoid accidental contact.
- Other parts of the vaporizer, except for the handle, knobs, and process caps, can reach temperatures of about 90–100 °C. Therefore, there is a risk of burns. Wear suitable protective gloves before touching hot parts.
- Ensure that no one touches the hot device. After switching off, the device remains hot for several minutes.
- Avoid contact with fabrics or other flammable materials until all parts of the device have completely cooled down.



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



- Do not use in enclosed spaces.
- Use only outdoors and in well-ventilated areas.
- Do not inhale vapors or dust.
- Wear a suit that protects the entire body from possible contact with vapors and oxalic acid dust.
- Handle oxalic acid with particular care.
- Avoid contact of oxalic acid with skin, eyes, and respiratory tract.
- Wear well-fitting goggles. Follow the instructions in the respective manuals.
- Wear gloves. Follow the instructions in the respective manuals.
- Wear a respiratory protection mask



with an ABE/P3 filter or higher. Follow the instructions in the respective manuals.



- Always consider the wind direction to ensure oxalic acid is not blown toward any person, including the operator.
- Colony treatments in an apiary must only be performed from the outside. During and after treatment, ventilate the apiary thoroughly. No one should be inside.
- After treatment, especially winter treatments when bees do not clean as they do in summer, oxalic acid crystals will remain inside the hive and on the diagnostic tray. Be careful and wear appropriate protective clothing.
- Store oxalic acid in its original packaging (with a legally compliant label) in a safe place.
- Wash hands thoroughly after use as a precaution.
- **IN CASE OF INGESTION:** Contact a POISON CENTER or doctor.
- **IN CASE OF EYE CONTACT:** Rinse carefully with plenty of water for several minutes. Remove contact lenses if easily possible. Continue rinsing.
- **IN CASE OF SKIN CONTACT:** Wash thoroughly with water and soap.

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

- Do not use the device without adequate lighting. If necessary, use artificial lighting systems.
- Clean the device only with water and avoid water entering the handle or wetting the thermal insulation.

- Professional operators using the product intensively must consider factors that may increase exposure to danger.
- Do not leave the device unattended while it is on.
- Do not leave either the device or oxalic acid in areas frequented or accessible by children.
- Handle the device only by the handle.
- For more information on the use of oxalic acid, refer to the technical and safety data sheet of the acid.
- Given the nature of the device and its intended use, the risks specifically related to the OXALIKA MINI CORDLESS vaporizer are combined with those associated with beekeeping activities. The professional user must address these risks after proper evaluation in accordance with current laws.

10. To reduce the risk of damage:

The diffuser tube reaches temperatures of about 200 °C and may damage hive parts that come into contact with it. Do not use on plastic hives or plastic mesh frames without applying a suitable adapter around the diffuser tube.

II. Specifications and operation

Oxalic acid is heated until it evaporates and is introduced into the hive. This creates a mist that coats the bees and all surfaces with a thin layer of oxalic acid crystals. These small crystals are well tolerated by bees but are lethal to varroa mites.

III. Treatment and usage

This device is intended exclusively for beekeeping use to vaporize oxalic acid suitable for this purpose. The OXALIKA MINI CORDLESS vaporizer has been designed and built to meet specific needs for varroa treatment of hives populated with bees. The

OXALIKA MINI CORDLESS vaporizer is used for treating mite infestations in colonies without brood in November or December. Given its high efficiency (>96%), the OXALIKA MINI CORDLESS vaporizer can significantly reduce varroa populations, ensuring bees are in optimal condition for the following season.

DOSAGE: For Dadant-type hives, the oxalic acid dose is 2 g for medium-sized colonies. If over 1000 mites are eliminated after treatment, or if there is uncertainty about the presence of brood, repeat the treatment after two weeks using a 1 g dose regardless of colony size. Swarms and artificial swarms can be treated throughout the year. Whenever possible, nuclei with the queen should be treated before brood capping. Warning: Orphan colonies react with frantic “back-and-forth” bee movement. For more details, refer to the instructions in the oxalic acid information leaflet suitable for beekeeping use. Use the device exclusively in hives occupied by bees; do not treat weak colonies or empty hives.

In case of malfunctions and/or damage to parts of the OXALIKA MINI CORDLESS vaporizer, immediately stop using it and send it to the manufacturer for maintenance.

Correct use of OXALIKA MINI CORDLESS
For correct use of OXALIKA MINI CORDLESS, refer to the summary videos available at this link:



https://www.youtube.com/playlist?list=PLB6rIVujLsq-SIBvh_fEEX2Ak5PxX3Be2

- Disconnect the battery after use.
- After use, remove the dosing system and pour small amounts of water into the boiler, letting it flow out through the diffuser tube.
- Avoid water entering the handle.
- Avoid wetting the insulating fabric.
- Wash the dosing system thoroughly using only water.

IV. Light signals

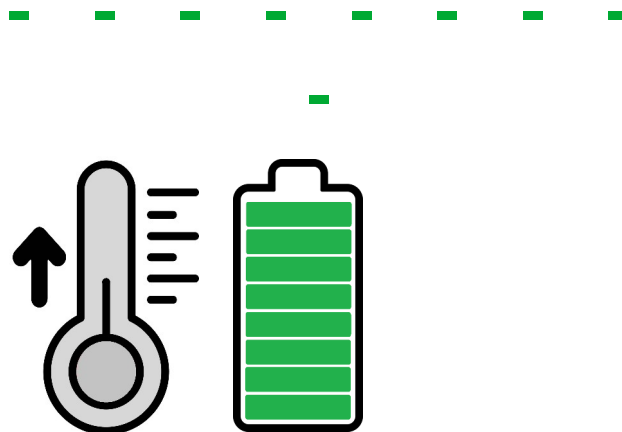
1. During normal operation

During normal operation of the vaporizer, the LED emits light signals depending on the current phase:

Note: Pay close attention to the flashing color to avoid confusing diagnostic error messages with normal operation signals.

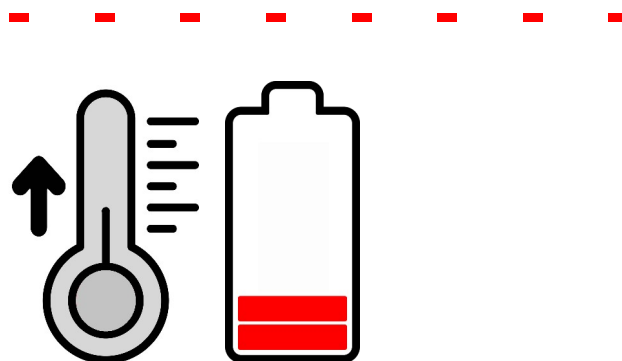
HEATING with charged battery:

Flashing green LED (one flash every 2 seconds)



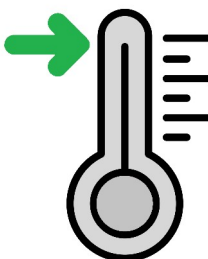
HEATING with low battery:

Flashing red LED (one flash every 2 seconds)



READY for sublimation – Setpoint temperature reached:

Solid green LED



Sublimating with charged battery:
Flashing green LED (one flash every 0.5 seconds)



Sublimating with low battery:
Flashing red LED (one flash every 0.5 seconds)



Completely discharged battery:
Flashing red LED (one flash every 4 seconds)



What to do: Charge the battery and reconnect it (ensure the battery is not damaged).

2. Malfunction light signals

If there are anomalies during vaporizer operation, the LED emits light signals depending on the detected anomaly:

Note: Pay close attention to the flashing color to avoid confusing diagnostic error messages with normal operation signals.

Temperature not detected:
Alternating flashing green and red LED (one green and one red flash)



What to do: Remove the battery and reconnect it after about 30 seconds. If the problem persists,

disconnect the battery and contact support.

Insufficient heating speed:
Alternating flashing green and red LED (two green flashes and two red flashes)

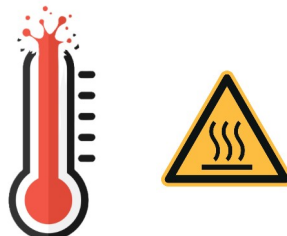


What to do: Remove the battery and reconnect it after about 30 seconds. If the problem persists, disconnect the battery and contact support.

Excessive boiler temperature:
Solid red LED



Warning: Sublimation area very hot



What to do: Remove the battery and reconnect it after a few minutes. If the problem persists, disconnect the battery and contact support.

Excessive circuit temperature:
Flashing red and green LED (2.5 seconds red, 0.5 seconds green)



What to do: Remove the battery and reconnect it after a few minutes. If the problem persists, disconnect the battery and contact support.

Battery polarity reversal:
This may occur as a result of tampering with the vaporizer.
In this case, the LED will remain off but the vaporizer will continue to heat.

Immediately disconnect the battery. The vaporizer may be hot—use caution.



V. Storage

After use, store the OXALIKA MINI CORDLESS vaporizer in a dry place, at temperatures below 60 °C, protected from direct sunlight, and ensure the battery is disconnected.

VI. Maintenance

Sequence of maintenance operations:

- Disconnect the power supply and wait for the device to cool down.
- Check the general condition of the machine.

VII. Packaging and product disposal



The packaging is made of recyclable material. At the end of its use, dispose of it in the appropriate containers. The OXALIKA MINI CORDLESS vaporizer, like all electrical and electronic equipment, must not be disposed of with household waste. Contact your local waste disposal service for information on your country's waste collection system.

VIII. Product liability limitation

Before any use, carefully and thoroughly read this user manual in its entirety. We disclaim any responsibility for insufficient effectiveness or malfunction resulting from non-compliance with the usage instructions and circumstances beyond TALITHA SRLS's control.

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/EU (ROHS)
- 89/336/EEC (Electromagnetic compatibility directive)

PIOMBINO, July 1, 2025

The legal representative:

Dott. Matteo Tonietti