

# Manual

## Vap-Pro Diffusor 12V



**LYSON** 

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## D12V

### Manual device

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## GENERAL PRINCIPLES OF DEVICE SAFETY

Prior to device usage initiation, refer to the following manual and act according the guidelines contained therein. The manufacturer shall not be held accountable for any damages caused by improper usage of the device or its improper handling

### 1.1 .OPERATING PRINCIPLES

1. The sublimator is a device for the evaporation of oxalic acid. It is powered by 12V DC.
2. Before starting the treatments, you must absolutely put on the protective clothes (protective glasses, rubber gloves, gas mask)



### 1.2. ELECTRICAL SAFETY

1. If the power cord is damaged and needs to be replaced, this operation should be performed at the guarantor's or by a specialized repair facility or by a qualified person. Do not use the device if the connecting cable is damaged!
2. It is forbidden to pull the connection cable. The cable should be kept away from heat sources, sharp edges and its good condition.



### 1.3.OPERATING SAFETY

The following equipment is not intended to be used by persons with limited physical, sensory or mental capabilities (including children) or persons inexperienced or unfamiliar with that type of equipment unless the usage occurs under supervision or in line with the equipment operating manual provided by safety supervising persons. Make sure that children do not play with the device

2. If the device cable gets damaged, the repairs must be performed solely by a specialized repair centre or by a qualified person in order to avoid any threat
3. It is forbidden to perform any maintenance works when the device is in

#### 4.WARNING:

- the device heats up to high temperatures!
- oxalic acid is corrosive
- acid vapors are irritating to the skin, eyes and respiratory system
- wear protective clothing against burns (gloves, protective suit)
- use a mask protecting the respiratory tract and goggles
- oxalic acid should be stored in a sealed, labeled container



## 2. Characteristics of the device

Oxalic acid sublimator is used to control varroa destructor in bee colonies. For optimal treatment, the temperature outside the hive should be around 10 ° C.

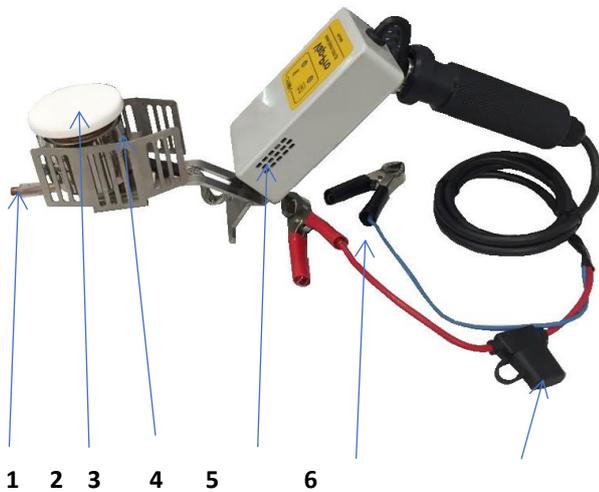
The sublimator is ready to use right after taking it out of the suitcase, just connect the device to a 12V power source. The device has a profiled inside cover (2) of the heating head, into which we pour about 2g. oxalic acid. The set includes two lids (2) and a measuring cup.

### USING THE DEVICE

- remove the cover (2) from the heating head (3)
- connect the sublimator to the battery and wait for the green and red diodes on the controller to light up permanently
- we close the sublimator with a lid with oxalic acid

- put the nozzle (1) to the inlet hole in the bottom for about 2 minutes.

### 2.1 Description of the device



- 1-acid outlet nozzle
- 2-cover of the heating head
- 3-heating head
- 4-SPK-1 control
- 5-clamps battery
- 6-fuse 20A

### 2.2 Description of the controller



### 2.3 Technical parameters

- heater power: 160W
- supply voltage: 12V / 20A
- stabilized temperature: 220 ° C (± 10 ° C)
- automatic shutdown: after 45 min.
- power cord: 1.5 m
- Dimensions: L 430 x W 160 x H 80 mm.
- weight:

### 3. Device storage

After finishing work, the device should be thoroughly cleaned. Store in dry rooms. Before each season, an additional technical inspection should be made and in the event of a defect being found, the service should be contacted.

## REGULATOR TEMPERATURY SPK-1

 Światło czerwone	 Światło zielone	STATUS
Włączone na stałe	Włączone na stałe	Napięcie zasilania: właściwe Temperatura: ustabilizowana
Wolne migotanie	Włączone na stałe	Napięcie zasilania: właściwe Temperatura: trwa stabilizacja
Wyłączone	Pojedyncze mignięcie co 5 sekund	Aktywny tryb oszczędzania energii. Włączenie urządzenia po ponownym podaniu napięcia zasilającego.
Wyłączone	Szybkie migotanie	Niewłaściwe parametry zasilania.
Szybkie migotanie	Wyłączone	Przekroczenie dopuszczalnego zakresu temperatury pracy urządzenia lub uszkodzenie czujnika temperatury
Szybkie migotanie	Szybkie migotanie	Usterka wewnętrzna urządzenia

### 4. Maintenance and cleaning



After finishing work, the device should be thoroughly cleaned. Store in dry rooms. Before each season, an additional technical inspection should be made and in the event of a defect being found, the service should be contacted.

### 5.RECYCLING

Worn-out product must be removed as waste only within selective waste collection organised by the Network of Communal Electric and Electronic Waste Collecting Points. A customer is entitled to return the used equipment to the electrical equipment distributor network, at least free of charge and directly, if the device to be returned is of proper type and serves the same purpose as the newly purchased device

### 6.GUARANTEEE

The products purchased in "Łysoń" company are encompassed by the manufacturer's guarantee. The guarantee period equals 2 years. A receipt or a VAT invoice is issued for each product purchased.

**Guarantee terms details, see [www.lyson.com.pl](http://www.lyson.com.pl)**