



# OXALVAP

(Oxalic acid vaporizer)

## INSTRUCTION MANUAL



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# What you need

- Acid vaporizer OXALVAP
- Power source (car battery 12 volts )
- Oxalic Acid crystals
- Measuring cup for crystals
- Electronic timer or stopwatch
- Eye protection – protection glasses
- Mask approved for Oxalic Acid fumes (for example this one from 3M OV/N95)
- Acid resistant gloves
- Cloths to block entrances

# Safety instructions

- Always wear your mask, eye protection and gloves
- Avoid skin contact with crystals, as this may cause burns
- More information on oxalic acid safety data sheet

# Operating instructions

1. Add 1 gram per full sized box of Oxalic Acid crystals to the head of your Oxalic Acid Vaporizer. We use a 1/4 of a teaspoon, check your crystals with scales to ensure this is correct for you.
2. For example colony with two full sized boxes requires 2 grams for treatment.
3. Insert vaporizer into hive, either from the underneath the meshboard (if you can seal it) or from the front entrance.
4. Seal any ventilation with cloths.
5. Connect your vaporizer to the power source (12 volts) for two and a half minutes (maximum three minutes - depends on battery capacity).
6. Disconnect power source.
7. Wait 3 to 5 minutes.
8. Removed all cloths and remove vaporizer.
9. Check that the vaporizer is cool before reuse or storage.

# Conditions of use

- Carry out the treatment in still air at ambient temperatures above 5 °C.
- For better contact of bees with the substance, apply it in the evening.
- It can be applied only in the inter-bed period or in the case of compartments and swarms from which no honeycombs will be taken.
- The application does not work under the capped fetus.
- After 7 - 10 days, repeat the whole process at least 3 times.
- Repeat the procedure for three weeks, as acid fumes do not affect the mites in the fetal cells..
- The next day after treatment, count the number of mites on the hive pad. Mites fall down after application for another 2-3 weeks.
- Spring healing can be done only after the first flight of bees.

- Another application is recommended in the period from May to June.
- Autumn retreatment can only be performed during the period without bee brood in the months of November to December.
- The treatment should be combined with the evaporation of formic acid using equipment designed for this purpose.

NOTE: At lower ambient temperatures, for example in autumn, the fumes are more visible.

# Technical parameters

- DIMENSIONS (LxHxW) : 45cm x 1,2cm x 6cm
- WEIGHT: 250 g
- POWER SOURCE : car battery 12V
- MATERIAL : stainless steel, plastic

# Package contents

- 1x vaporizer – OXALVAP
- 1x handle
- 1x measuring cup for crystals
- 1x instruction manual

# Notes

