

## **PLUK Limited T/A Techtron UK**

24 Rowan Road  
Great Yarmouth, Norfolk  
NR29 4RY  
United Kingdom  
info@techtrongroup.co.uk  
www.techtrongroup.co.uk  
VAT Registration No.: 377041984  
Company Registration No. 12032674



# **TECHTRON**

Innovation and Technology

[www.techtrongroup.co.uk](http://www.techtrongroup.co.uk)

### **PROVAP Rapid 18 – Oxalic Acid Vaporiser**

**The battery-powered PROVAP Rapid 18 is a professional oxalic acid evaporator that is suitable for professional beekeepers as well as hobby beekeepers.**

**The ProVap Rapid 18 is very compact and fits well in the hand thanks to the optimised weight distribution.**

**Thanks to the extremely fast, innovative cauldron forming, it can blow out the two-gram-oxalic dose within eight seconds.**

**Power supply: 18 Volt**

**Power output: 250 Watt**

**Power consumption: 13,8 Amp**

**Accessories: Dispenser (1 piece)**

**Please note, the PROVAP Rapid 18, Oxalic Acid vaporiser is sold without a battery!**

### **Instructions for use of the ProVap Rapid 18 with quick dosing method:**

1. Connect the 18V battery to the ProVap Rapid 18.
2. Wait about 1-2 minutes for the device to reach the set temperature. Temperature can be individually adjusted up to 240°C, default temperature: 230°C, recommended temperature: 200-230°C
3. Insert the exhaust pipe of the ProVap Rapid 18 at the entrance hole or at a pre-drilled hole in the cleaning wedge.
4. Squeeze the oxalic acid dispenser/quick dispenser into the prepared oxalic acid powder.
5. Place the oxalic acid dispenser on the ProVap Rapid 18 and activate the dispenser function so that the oxalic acid powder falls into the evaporation chamber.
6. The temperature drops by about 10-15 degrees during evaporation.
7. When the temperature starts to rise, the oxalic acid is sublimated and the evaporation is complete.
8. Once all bee colonies have been treated, disconnect the ProVap Rapid 18 from the power source and allow it to cool.

### **Advantages:**

Thermostat for temperature control

No lugging around generators or handling current transformers with heavy car batteries

20-30 hives per 4.0 Ah/18V battery charge

The heating is optimised, so its energy using is economical, 100-110 bee families can be handled with an 8Ah battery.

Battery compatibility with existing battery

Very fast and effective vaporisation (about 25-30 seconds per colony).

Thanks to the extremely fast, innovative cauldron forming, it can blow out the 2 grams of oxalic acid dose within only 8 seconds.

No fire hazard from open fire or gas

Single dosage for up to 4 grams of oxalic acid dihydrate powder

No clogging of the outlet tube with crystallised oxalic acid

Practical and mobile use

Very good stability when the device is parked

Continuous operation as soon as the target temperature has been reached once

Certified according to European standards (CE certified)

PLUK Limited T/A Techtron UK, 24 Rowan Road, Martham, Great Yarmouth, NR29 4RY, VAT number GB 377041984

Emails: info@techtrongroup.co.uk or info@plukmetal.co.uk

Telephone Number: 01493 253 053 Mobile Number: 07990079667

Bank details: Bank Name: TSB, Account Name: PLUK LIMITED, Sort Code: 77 66 02, Account Number: 00024562

IBAN / BIC GB57TSBS77660200024562 / TSBSGB2AXXX

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**Provap Rapid 18V dispensers are unmarked**, but you can still get accurate dosing by calibrating it once. Here's the safest and most reliable way to do it.

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### How to Set Correct Oxalic Acid Dose with an Unmarked Dispenser

#### Best method: one-time calibration with a scale

You only need to do this once, then you'll know what "one full scoop" equals.

#### What you need:

- Digital scale (0.1 g accuracy is ideal)
- Oxalic acid dihydrate
- Paper or small container

#### Steps:

1. Zero the scale with the paper/container on it.
2. Fill the dispenser normally (dip it as you would for a hive).
3. Empty the contents onto the scale.
4. Note the weight.
5. Repeat 3–5 times and average the result.

Provap dispenser come out at ~2.0–2.3 g per full fill, but you must confirm by calibrating.

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### Typical Results (what many beekeepers find)

*(These are guidance only — calibrate to be sure)*

- Full dispenser fill: ~2 g
- $\frac{3}{4}$  fill: ~1.5 g
- $\frac{1}{2}$  fill: ~1 g

Once you know this, you can confidently dose without weighing each hive.

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### Recommended Practical Dosing (UK / EU norm)

- Nuc / small colony: ~1 g
- Standard single brood hive: ~2 g
- Large / double brood: ~2.5–3 g (rarely more)

If you're treating in winter when colonies are broodless, 2 g per hive is the most widely used and researched dose.

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### Important Tips (very relevant with unmarked dispensers)

- Always fill the dispenser the same way (same powder, same motion).
- Oxalic acid crystal size and humidity affect weight.
- Don't compress or tap the dispenser — let it fill naturally.
- If in doubt, slightly under-dose rather than over-dose.

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### Safety reminder

Oxalic acid vapour is hazardous:

- Use a proper respirator
- Gloves + eye protection
- Stay upwind and seal the hive entrance during treatment

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[www.techtrongroup.co.uk](http://www.techtrongroup.co.uk)**Important information:**

Before vaporising, all openings of the hive should be covered with a damp cloth or foam rubber.

After completing the work, add some water to the evaporation chamber until it exits at the front to clean the device of oxalic acid residues.

To avoid deep discharge of the batteries without integrated battery management, it is advisable to switch off the device before the battery is completely empty. When the appliance switches ON and OFF and the temperature does not rise, this is a sign that the battery charge is low. It should be disconnected and replaced with a fully charged one.

**Compatible batteries:**

Bosch  
Einhell  
Makita  
Metabo  
Dewalt  
Parkside  
Milwaukee

**User protection:**

Oxalic acid is extremely dangerous for the human body! Please never use the device without appropriate protective equipment! To work safely, we recommend eye protection (goggles or full-face mask), respiratory protection (half mask suitable for gaseous oxalic acid or full-face mask).

**Warranty:**

The device has a 2-year manufacturer's warranty. In addition, the manufacturer also offers a repair service outside the warranty period.

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