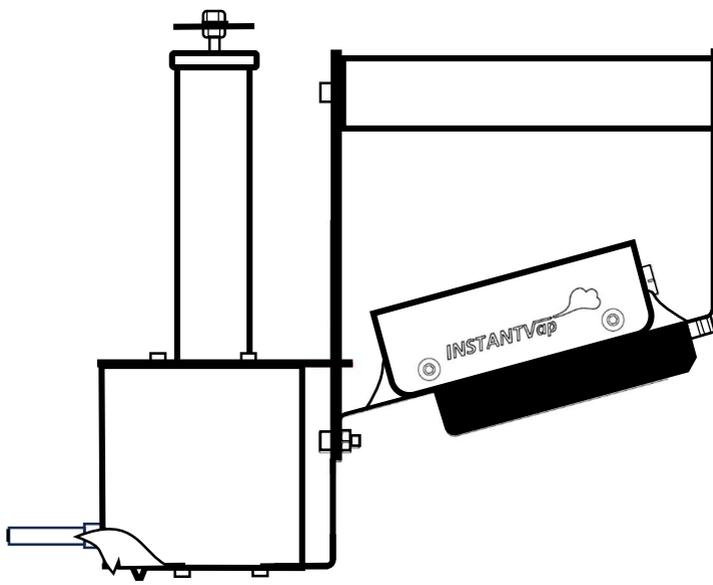


INSTRUCTIONS OF USE

for

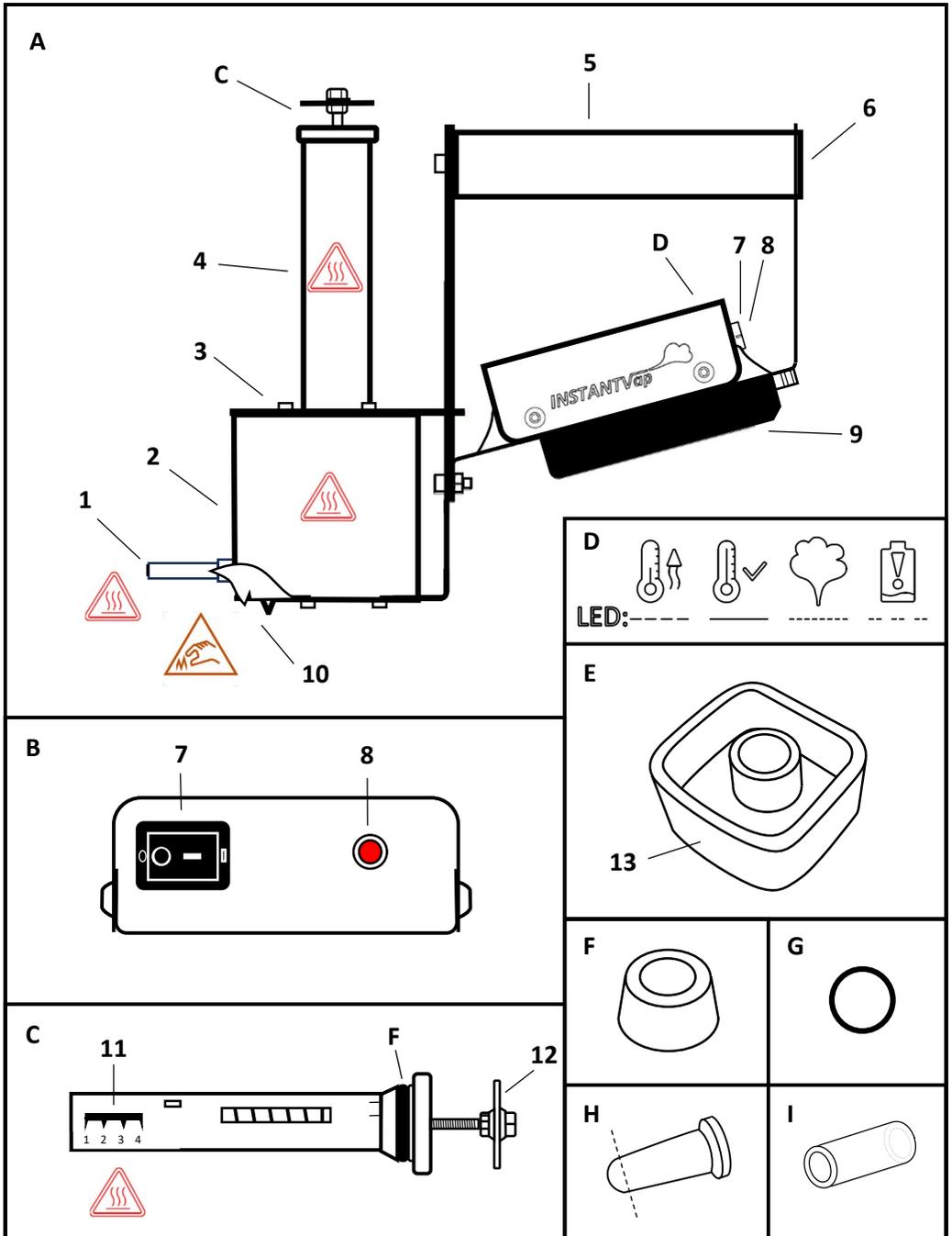
INSTANTVAP 18V COMPACT

battery powered oxalic acid vaporizer



For other languages, please go to
www.instantvap.eu/instructions





Congratulations on your new InstantVap oxalic acid vaporizer. This manual contains important information, please take the time to read this manual thoroughly.

The InstantVap 18V Compact unit is to be used for oxalic acid vaporization treatments against Varroa mites in apiaries. This manual does not contain information about oxalic acid treatments in general. Please educate yourself on oxalic acid vaporization before using this device.

Your InstantVap 18V Compact package includes:

- 1 piece of InstantVap 18V Compact unit with the chosen battery socket (A)
- 1 piece of dispenser (C)
- 1 piece of silicone cleaning cap (F)
- 2 pieces of spare O-rings (G)

Optional accessories available for purchase:

- silicone insulation cover (E)
- silicone insulation, tapered (H) – to be cut at the dotted line
- silicone insulation tube (I)

Safety Information

Warnings and Important Safety Instructions in this manual do not cover all possible conditions and situations that may occur. It is your responsibility to caution and care when installing, maintaining, or operating your InstantVap device.

This appliance is not to be used by children of any age and persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge.

Safety Symbols



WARNING
HOT SURFACE



WARNING
SHARP EDGES

Safety Gear

Proper safety gear must be worn during installing, operating and maintaining this device!

Proper safety gear includes: thick gloves, long sleeves, respirator (full face mask with ABE1P3 or ABE2P3 combined filter inserts), safety glasses.

For outdoor use only!

Unit retains heat for long after use! Risk of burns!

Do not rest device on flammable materials. Risk of fire!

Transport only when cooled and battery removed.

Before you start

Make sure you use the correct type of battery, and your battery is fully charged. The InstantVap 18V Compact model is to be used with batteries of 18-20V. It is recommended to use batteries with at least 4Ah capacity.

Get the oxalic acid ready. The InstantVap units are to be used with oxalic acid dihydrate of 97%-100% purity. Be aware that some oxalic acid products contain additives like glucose and silica that is unsuitable for use in this device.

Put on your safety gear. Keep your safety gear on at all times, even during cleaning and maintenance. The InstantVap devices are not to be used in rain.

Operation

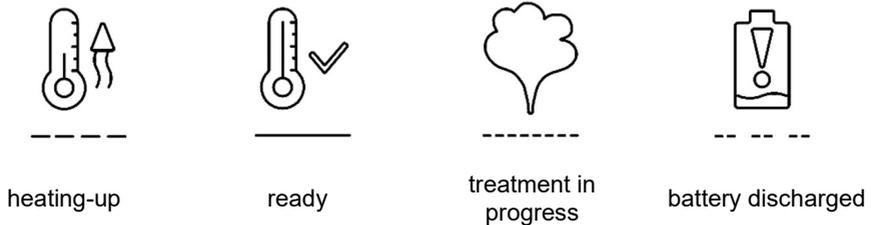
Remove dispenser (C) from device. Set your dispenser at the desired dosage. The dispenser can be adjusted by turning the handle (12) while checking the indicator (11). The numbers on the indicator correspond to the grams of oxalic acid the dispenser holds. It can be set from 1 to 4 grams. Do not twist past indicator. Place dispenser back in device.

Connect your battery to the battery socket (9). Turn on the switch (7). The LED light (8) starts blinking slowly. It means the unit is heating up. Wait until the LED turns to steady-on. At this point the unit is heated and ready.

Place the vaporizer in place for treatment. Remove the dispenser from device and press dispenser into oxalic acid to collect dose, then place it into device and depress. The LED light turns to blinking rapidly. Allow the treatment to be completed. The unit indicates the completion of the treatment by the LED light turning to blinking slowly or steady-on. At this point you can place the unit ready for the next treatment and re-load the dispenser. As soon as the LED turns to steady-on, you can apply the next dose. Keep repeating until all your treatments are finished or your battery is discharged.

The unit indicates the discharged battery by 'double blink – pause'. The unit does not heat while a discharged battery is connected.

The LED light patterns are engraved on the top of the unit (D) for your reference.



After finishing treatments, turn off the switch, remove battery from socket and charge battery. Clean the unit and allow it to cool down.

Maintenance

Clean the unit at least after every 100 treatments.

Put on your safety gear, including your gloves, mask and safety glasses. Make sure the unit is not clogged. Heat up the unit in case it is cooled. Turn the unit off and remove battery. Remove dispenser (C) from unit. Fill the silicone cleaning cap (F) with water to one third full. Turn the heated unit upside down and push the cap on the dispenser's tube (4). Push the cleaning cap very hard, point the outlet tube (1) away from you and turn the unit back. Repeat it until the unit does not generate any more steam. **WARNING!** High pressure and hot steam!

Rinse the cooled unit by adding a full cap of water through the dispenser's tube (4), shaking it and draining it through the dispenser's tube (4). Repeat until the drained water is clear.

Clean the outside of the unit by wiping it with a damp cloth. The dispenser is to be washed in water. Add a drop of mineral oil or grease to the O-ring (G) to increase lifespan and ease of use.

Optional accessories

The silicone insulation cover (E) is to protect the unit from falling oxalic acid. Remove dispenser from unit. Position the silicone cover with the curved side (13) in the front. Push the silicone cover on the top of the unit (3) through the dispenser's tube (4). Make sure to push it all the way down and not to leave any gap between the cover and the top of the unit.

The tapered silicone insulation (H) is to protect heat-sensitive materials from the hot outlet tube (1). Cut it off at the dotted line and push it onto the outlet tube.

The silicone insulation tube (I) is to protect heat-sensitive materials from the hot outlet tube (1). Push it onto the outlet tube.

Tips

The handle (6) of the unit can hold a spare dispenser (C).

The gripping edges (10) hold the device in place during treatment, no need to hold onto it. Do not waste time once the unit is heated. Treat in a timely manner to fully utilize battery capacity.

Troubleshooting

The unit does not light up (8) after connecting the battery:

- switch on the unit (7).

The unit does not light up (8) after turning it on:

- check your battery charge level.

The light (8) turns on, but the unit does not heat:

- if the light double blinks and pauses, your battery is discharged.
- if the light is steady-on, but the unit is not heating, the unit is faulty.

The start of the treatment is long delayed after applying oxalic acid:

- the heating chamber (2) may be covered with charred residues. Contact manufacturer for instructions.

The unit heats up very slowly:

- water residue may be in the heating chamber (2). Let it boil off.

The dispenser (C) pops out after dosing:

- the outlet tube (1) is clogged.

The outlet tube (1) is clogged:

- warm the outlet tube with a blowtorch or drill into the outlet tube with a max. 3mm drill.

The outlet tube (1) keeps clogging:

- the outlet tube is in contact with wet materials that keeps cooling it down.

The dispenser (C) fits very tight:

- add a drop of mineral oil or grease to the O-ring (G).

The dispenser (C) fits too loosely:

- change O-ring (G).

Warranty

2-year manufacturer warranty is provided for the InstantVap units (accessories are not included). In case of any failure: in Europe: go to **www.instantvap.eu/service** and follow the steps described there. UK and outside of Europe: please contact your dealer.

Technical data

InstantVap 18V Compact oxalic acid vaporizer

Power: 18V-20V DC; 250W; 14A

Operating temperature: 230°C (446°F)

Weight without battery: 1,25 kg

Equipped with deep discharge battery protection

Manufacturer: InstantVap Tech Kft. (CRN: 01-09-411646, Tax nr.: HU27783210)

Made in Hungary