Varroa Hyperthermer

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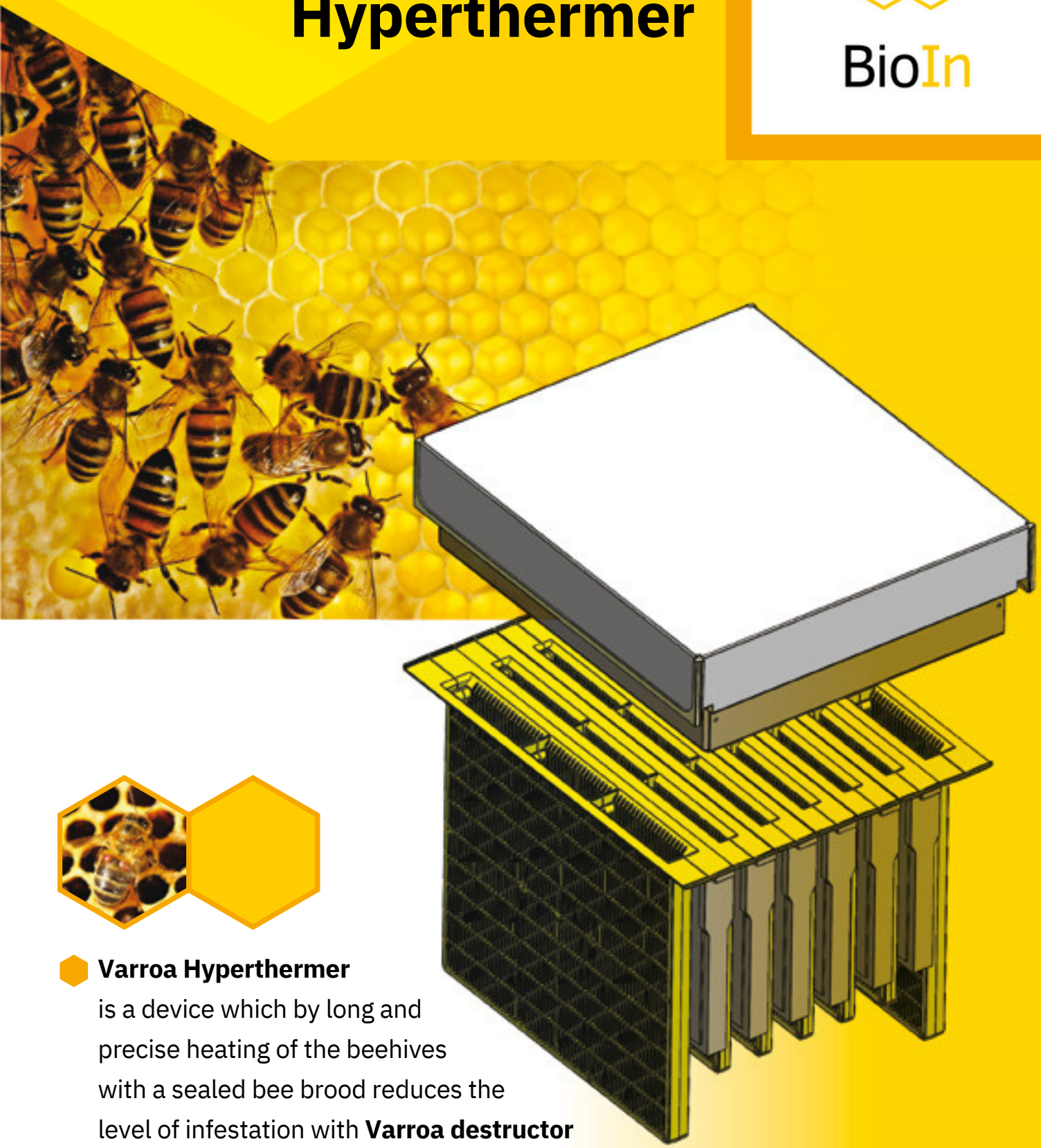

Varroa Hyperthermer is a device which by long and precise heating of the beehives with a sealed bee brood reduces the level of infestation with **Varroa destructor** mites by more than 98% in the hive, while simultaneously is safe for bees.

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What is hyperthermia

Hyperthermia is a thermal process in which the sealed bee brood is precisely heated, thus destroying the developing (preimaginal) forms of mites in it. Hyperthermia is not a new process, it has been studied for over 40 years. VARROA HYPERTHERMER is the first device which allows sealed beehives to be processed directly in the hive without the need to remove the bees and the queen bee.

Advantages of the hypertherm

1. No chemicals are used to contaminate honey and other bee products
2. There is no resistance
3. It is an economically very profitable method
4. It significantly reduces the degree of infestation with Varroa destructor and prevents empty hive syndrome (CCD)
5. It increases the yields of bee honey.

Disadvantages of VARROA HYPERTHERMER

1. Apiary power supply (230 V) is required
2. The processing cycle is long - 210 minutes, two beehives per day are processed with one device.

Period and capacity for use

1. VARROA HYPERTHERMER is used in the spring in March-April, when the ambient temperature is over 16 degrees, and the sealed bee brood is up to 6 beehives in the Dadan Blatt and Ruth systems and in the summer - July, after checking the degree of infestation with *Varroa tester 3 in 1.* In this event, it is advisable to use an additional hive and two devices in order to simultaneously process all the beehives with a sealed bee brood in the family.

2. In autumn (September-October) in case of reinvasion and high degree of infestation, the next treatment can be performed.

3. One device has the capacity to process 25 hives. More devices are needed with a larger apiary according to the number of the hives.

Technical characteristics

- Power - 450W/230V
- Ventilator – 4 x150m³

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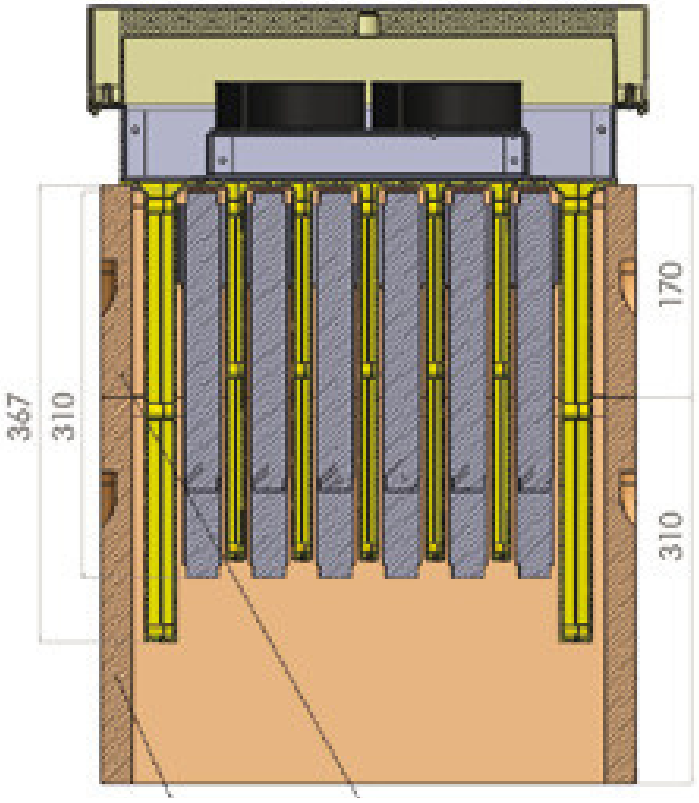
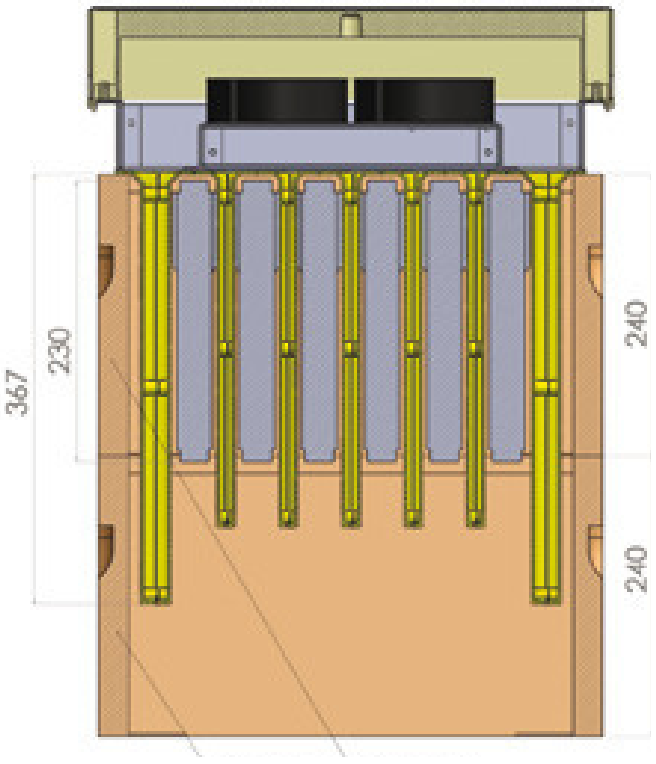
Manner of use

1. In the Dadan Blatt system, all the beehives from the hive are removed in advance in two portable boxes.
2. An empty store is placed on the pistil. A large divider is placed on one side. The 6 beehives with a sealed bee brood are placed together with the bees and the queen. If the bottom is mesh, it is closed (covered) with cardboard. The entrance to the hive is left open. Then the device is placed on the store with the pistil beehives and the dividers. It is plugged into the power supply and is left running until the system switches off (210 min.)

Scheme 1



Scheme 2



Art. № 1099

3. In the Ruth system, the arrangement is the same, but instead of pistil and a store, two bodies are used one below the other (Scheme 2).

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4. About an hour after the start-up of the process, some of the bees begin to emerge from the hive and form a beard at and around the entrance to the hive. After the completion of the treatment, the bees return to the hive.

5. After finishing work, the hive is returned to its original state, and the unprocessed beehives from the auxiliary box are returned to the hive.

Attention: Solely beehives with sealed bee brood are processed

VARROA HYPERTHERMER is intended for the treatment of bee colonies and may be used only for this purpose. Any change in the configuration of the dividers in the beehives or the processing time will ruin the efficiency of the device.