

# BEETLE-VAC Instructions

Thank you for purchasing the BEETLE-VAC. For best results please read these instructions before using. BEETLE-VAC is the most effective way to control small hive beetles in your hives. Unlike beetle traps which are hit and miss or chemicals which can be toxic to you, your bees and honey and wax consumers, BEETLE-VAC is a non-invasive way to control the small hive beetle in your hives. Using the BEETLE-VAC can be a bit of a challenge. It could be best described as playing the Whack-A-Mole game.



Your purchase should include:

1. BEETLE-VAC pistol grip vacuum
2. Clear tube canister with beetle nozzle
3. Canister cap
4. Nozzle cleaning brush
5. Extra filter screens
6. BEETLE-VAC instructions

Please open the battery compartment, and put a 9 volt battery (not included) into it. Be sure to use a new 9 volt battery, so that the suction will be at full power. Caution: please make sure the battery is of good quality. For best results, use a new Duracell Coppertop battery.

Use BEETLE-VAC on a sunny day. You want to hold the frame so that the sun will shine down in the cells. This will allow you to see into the cells but most of all, the beetles do not like the sun light. Remember they live in the dark. When the light hits them they try to move to get out of the light. This will make them move from cell to cell. This is when you suck the beetles into the vacuum. **NOTE: DO NOT TRY TO SUCK BEETLES OUT OF THE CELL. THIS WILL NOT WORK - YOU MUST GET BEETLES WHILE THEY ARE ON THE MOVE.**

Press the “LED” button to turn the light on. Press again to turn light off. (Light is of no use for vacuuming beetles)

Press and hold the “IN” button to turn on the vacuum. Release “IN” button to stop the vacuum. Hold BEETLE-VAC at a 45 degree angle to the comb when in use.

When you are ready to vacuum a beetle up, press and hold the “IN” button before going after the beetle so vacuum will be running full speed creating maximum suction.

Beside the hive that you're working in, place a spare super without frames. Remove one frame at a time from the hive, examining it in the sunlight. Hold the frame so that the sun shines down into the cells so you can see into the cells and vacuum the beetles as they run across the comb. Don't try to insert the vacuum nozzle into the cells but instead, with the BEETLE-VAC running, hover the BEETLE-VAC nozzle over the cell that you know contains a beetle and when the beetle comes out, bring the vacuum nozzle down upon the beetle vacuuming it up. Examine both sides of the frame thoroughly including across the bottom and all the little holes where the beetles can hide. Once you're sure there are no beetles left on this frame, put it in the spare super. Repeat on the rest of the frames in the hive. Now reverse the process examining them again one at a time and as you finish each frame put them back in the original super. This can be very time consuming but has very good results and by the end of the day you can be sure that you have captured the majority of the beetles. Repeat this process in a few days with all your hives and then again in a few weeks if you notice any beetles. Keep repeating as needed. Eventually you'll be beetle free. To remove the beetles from the BEETLE-VAC, tap the handle grip on a hard surface such as a table top a couple times making all the beetles fall to the bottom of the canister. Remove the top and pour the beetles into a jar that is half full of either cooking oil or rubbing alcohol (I prefer rubbing alcohol). Put the lid back on the jar and the beetles will all drown in a few minutes. This jar will fill with beetles in no time showing you how effective the BEETLE-VAC is.

Keep the BEETLE-VAC clean with a damp cloth. **DO NOT IMMERSE PISTIL GRIP IN ANY LIQUID.** Do not let wax or honey build up on the nozzle tube or the beetles will clog in the nozzle tube. If this happens, just clean vacuum nozzle with the nozzle brush and hot water. The filter screen, vacuum nozzle and the canister can be immersed in hot water with dish soap to clean. Filter screen is held in place with an “O” ring in the suction port of the BEETLE-VAC.

### **WARNING**

- **When not in use remove the battery**
- **Do not try to insert nozzle into cells**
- **Do not vacuum beetle or moth larva (worms will clog nozzle)**
- **DO NOT IMMERSE PISTIL GRIP IN ANY LIQUID**