

TRAPS FOR MOSQUITOES, MIDGES etc.



Mosquitoes and other biting insects cause thousands of deaths and debilitation to human beings and domestic animals world wide through their role in disease transmission. The need to catch adult mosquitoes is well documented in order to assess their populations, see if they are carrying disease organisms and time other control measures directed at them in a timely fashion. Traps are also now beginning to be used for direct population reduction although most such traps require CO₂ as a core attractant to which is added several other substances for greater effect.

BG Sentinel Trap

The BG Sentinel is the result of many years of research at Regensburg University into the host-finding behaviour of mosquitoes. The trap is essentially a cylindrical container with white gauze covering its opening. The trap is large enough to incorporate attractants such as the BG- Mesh Lure, a lure that mimics human skin odours, octenol, other chemical compounds, small living animals, worn clothing, animal hairs, light and heat sources, dry ice or other CO₂ generating devices, etc. This makes the trap a very versatile tool for both monitoring and research.



In the center of the trap is a fan, which creates a down-flow through a black opening in the middle of the gauze cover, thus drawing approaching mosquitoes into a catch bag. The catch bag is located above the suction fan, which avoids damage to specimens.

The air sucked into the trap then exits through the white gauze, generating ascending currents. These are similar to convection currents produced by a human host in both its direction and its geometrical structure.

Major Features:

- Unique pop-up design. Collapsible and light-weight for easy transport and fast assembly.
- Collapsed dimensions: diameter 35 cm, height: 10 cm
- Dimensions in working order: diameter 35 cm, height: ca. 40 cm
- Weight: 1.2 kg
- Attracted mosquitoes are sucked into a catch bag by the fan without damage to specimens.
- The fan needs a power source of 9 -12 V DC (280 mA).



Replacement parts that can be ordered individually: funnel net (1), catch bag (2), white gauze cover (3), and 12 V DC fan (4).



Parts of the replacement set: one funnel net (1), four catch bags (2), and one white gauze cover (3).



Accessories that can be ordered individually: CO₂ nozzle and tubing (1), plug connection set (2), power supply unit (two units are available in US and EU formats) (3), battery mounting support (4), and 5m extension cable (5).

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Attractants BG-Mesh Lure:



The BG Mesh lure is easily added to the trap

Addition of CO₂ to the trap using dry ice

For some mosquito species the addition of CO₂ is required to catch them most efficiently. For best results the CO₂ should be released using the tube mechanism shown in the picture below, with the CO₂ emitting at about 20 cm above the opening to the trap. Flow rates of between 200 and 500 ml per minute of CO₂ are recommended.



Propane or Butane burning CO₂ Based Traps

Although AgriSense does not supply these traps directly, we are closely collaborating with several companies that do and we would be very pleased to direct clients to such suppliers. AgriSense can supply attractant dispensers for such traps. Please contact us directly or see the details in our separate attractants leaflet.

Traps for Egg-Laying Mosquitoes

The Mosqui Trap was developed at the University of Minas Gerais at Belo Horizonte in Brazil. It was designed to catch ovipositing *Aedes aegypti* and *Aedes albopictus* females. It uses the Atrapedes lure plus water as an attractant but the females entering the trap do not make contact with the water since it is covered with a mesh. Once inside the trap the mosquitoes are caught on a sticky board (130 x 303 x 0.33 mm) that lines the inside of the upper half of the trap. The glue used on the board is not wet to the touch and is therefore easily manipulated and mosquitoes once caught on it are easily removed with a little solvent. The glue is covered with a siliconised paper sheet and is easily removed before the board is placed inside the trap.



AgriSense supplies the trap, the sticky boards and the Atrapedes attractant lure as a complete kit or as individual components

Sticky Inserts for Mosquito and other traps.

AgriSense is one of the leaders in the production of sticky boards for electrical fly traps. The product range includes some of the most advanced adhesive technologies currently used for capturing flying insects.

These sticky boards are also used in traps designed to catch mosquitoes and other biting insects. If you manufacture such traps then we would be pleased to offer you a sticky board and attractant lure for use with other traps.