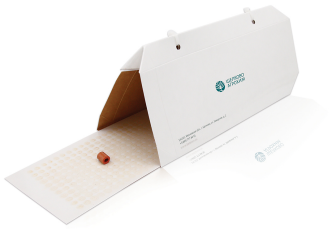
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Pheromone traps for forest and ornamental crop pests

Pheromone traps for monitoring and catching of forest and ornamental crop insect pests

Advantages:

— They are an integral part of integrated plant protection and an environmentally friendly pest control tool

— They make it possible to determine the trends in insect quantity during the season and regulate the quantity of subsequent generations of insects

— They notify user about the optimal time for protective measures

— They allow user to use insecticides in targeted and reasonable manner, reducing the pesticide load on the environment

— They are compatible with the environment due to their natural origin

— Completely non-toxic, easy to assemble and dispose of traps

— Can be used in resort and nature protection zones

Species of forest and ornamental crop pests, types and completeness of traps

Insect species	Trap type	Type of adhesive insert	Number of adhesive inserts	Dispenser type	Number of dispensers
Big pine beetle Tomicus piniperda	Large barrier	not required	0	Foil-film	1
Green oak leafhopper Tortrix viridana	Small "Delta"	Small	4	Rubber tube	1
Brown-marble bug Halyomorpha halys	Pyramidal barrier	not required	0	Capsule	1
Engraver beetle Ips typographus	Large barrier	not required	0	Foil-film	2
Small pine beetle Tomicus minor	Large barrier	not required	0	Foil-film	1
Gypsy moth Lymantria dispar	Big "Delta"	Big	4	Rubber tube	1
Common conifer sawflies Diprion pini	Small "Delta"	Small	4	Foil-film	1
Red conifer sawflies Neodiprion sertifer	Small "Delta"	Small	4	Foil-film	1
Box moth Cydalima perspectalis	Big "Delta"	Big	4	Rubber tube	2
Siberian silk moth Dendrolimus sibiricus	Big "Delta" Small barrier	Big Fixing plate	4 1	Foil-film	1
Pine noctuid Panolis flammea	Big "Delta"	Big	4	Rubber tube	1
Pine silk moth Dendrolimus pini	Big "Delta" Small barrier	Big Fixing plate	4 1	Foil-film	1

Sawyers Monochamus: M.galloprovincialis, M.sutor, M.urussovi	Large black barrier	Fixing plate	1	Foil-film	2
Black arches Lymantria monacha	Big "Delta"	Big	4	Rubber tube	1

Action

Pheromones are natural, biologically active substances that demonstrate a highly specific action on a particular insect species. They act in extremely low concentrations - microgram quantities comparable to the natural background of odors produced by insects.
The female sex pheromone used in traps mimics the natural process of attracting males of the same species, and as a consequence characterizes a high probability of capture.

Types of pheromone traps

Delta pheromone trap

The Delta trap has quite simple design, it is easy to assemble and consists of a trap body, an adhesive insert and a pheromone dispenser. It is used to capture both small and large insect pests.

Barrier-type pheromone trap

Barrier traps are used to catch the brown-marble bed bug.

Pheromone traps

- They are an integral part of integrated plant protection, an accurate and environmentally friendly pest control tool
- Applicable for both pheromonitoring and mass catching of insect pests

— They allow user to determine the trends in insect quantity during the season and to establish the optimal time for protective measures, as well as to regulate the quantity of subsequent insects generations