

TACKLE AND BOOKS

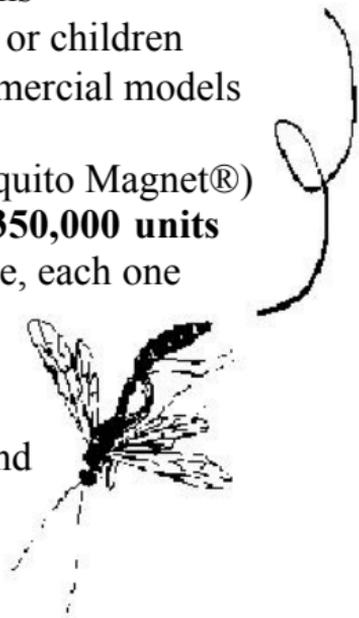
Midge Magnet Machines

**A revolutionary system
that continuously controls
midges and other biting insects**

Midge Magnet Machines

- Effectively eradicate midges
- Do not harm bees, butterflies, etc
- Are environmentally safe
- Do not use a naked flame
- Have powered or self powered models
- Require low maintenance
- Are of quality construction
- Are designed to run continuously
- Use standard propane gas tanks
- Produce no poisons
- Do not harm pets or children
- Domestic & commercial models

The Midge Magnet (Mosquito Magnet®) is a proven technology! **350,000 units** have been sold world wide, each one trapping up to a million midges in a 24 hr period. These machines are now imported by Midgetech and available for sale at Tackle and Books.



MIDGE MAGNET - fatal attraction for midges

Tackle and Books
Main Street, Tobermory,
Isle of Mull, Argyll PA75 6NU
Tel: 01688 302336
Fax: 01688 302140

MIDGE MAGNET

Which Midge Magnet® is right for me?
We recommend the following machines for these levels of infestation:

Defender

Powered by a 12 volt cable.

Ideal for gardens and areas of some midges



Defender

£399

Half acre

Liberty Plus

Self powered, stand alone. Big gardens and estate houses.



Liberty Plus

£775

One acre

New Pro

Self powered, stand alone. Clear out time.



New Pro

£1292

One and half acre

WHAT'S IT ALL ABOUT?

What is Midgetech?

Midgetech are the **SOLE** and **EXCLUSIVE** importers to the UK of the Mosquito Magnet®. Mosquito Magnet® (Midge Magnet) machines are hugely effective at catching midges.

Who makes the Mosquito Magnet®?

American Biophysics Corporation in consultation for a decade with the US Dept. of Agriculture and the Centre for Disease Control and Prevention developed the Mosquito Magnet® as an effective, consumer-friendly, biting insect trap.

What attracts biting insects to us?

Our breath. Humans exhale carbon dioxide, which has been scientifically proven to be the compound that midges and other blood seeking insects use to navigate to people. Carbon dioxide, moisture, and heat that result from exhaling lets the female midge know that there is a blood meal in the area. She will navigate to you by following this plume.

How does the Mosquito Magnet® work?

The Mosquito Magnet® mimics a person's breath by catalytically converting propane to carbon dioxide. By mimicking human breath, a warm, moist carbon dioxide plume is produced from propane gas to attract the blood-seeking insects.

The midges are attracted to the unit and NOT you!

As the biting insects approach the Midge Master they are vacuumed into a net where they dehydrate and die. The Mosquito Magnet® can also use octenol, which when combined with carbon dioxide, enhances the catch of midges.

What is the octenol cartridge?

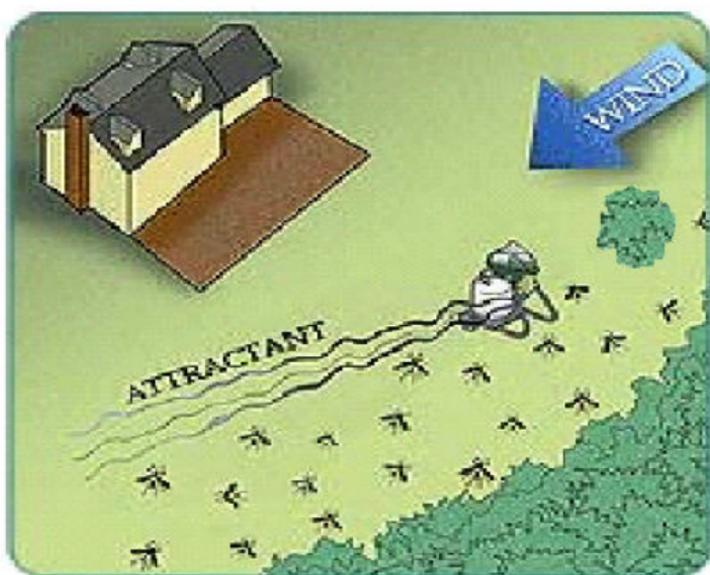
Octenol (1-octen-3-ol) is a naturally occurring by-product that comes from plants and some animals, such as cows, that ingest large amounts of vegetable matter. It is irresistible to midges who can detect minute fluctuations of CO₂ and Octenol in their environment from 100 yards away.

Which insects will a Mosquito Magnet capture?

Female blood seeking insects such as midges, mosquitoes etc. It will not capture bees, moths, butterflies or other beneficial insects?

Where should I place the Mosquito Magnet®?

We recommend that you place the Mosquito Magnet® where the midges rest (foliage) and breed (moisture), not near people. It is best to place the trap 30 feet from the area you want cleared. If placed properly the Mosquito Magnet® will draw the midges to it and away from you. The positioning of the machine is very important. You do not want to obstruct the flow of the plume! Buildings, thick hedges and similar objects, act as a barrier. Downwind from a tree can be good.



A Mosquito Magnet® placed near the midges' resting and breeding spots traps the midges at their source. The female biting midges are drawn away from you and to The Mosquito Magnet®

Is it possible to dramatically reduce the biting insect population in an area?

Yes. The Mosquito Magnet® will begin trapping female midges immediately if placed properly in your garden. You may see a big difference in only a few days or it could take a bit longer.

90% of the midges biting you live within 100 metres of where you are. The other 10% are brought in passively by the wind. It becomes increasingly difficult for midges to detect your carbon dioxide beyond 100 metres. As the females are trapped, the generations are eliminated, thereby interrupting the breeding cycle in that area. Within 4-6 weeks the population of midges on your land will be drastically reduced. No eggs. No insects. This effectively eradicates the midges.

How many midges can I expect to capture?

The quantity of midges caught varies greatly, depending on your region's infestation level and how it is placed on your property. In tests in Scotland as many as 2.5 million were captured in one night with one machine. In more urban areas, catch results may be much less. A good yardstick is "Am I being bitten?"

How much gas does the Mosquito Magnet® use?

An 11 Kg propane tank should last about a month.

What about octenol?

The octenol should be replaced every 21 days.

Is the Mosquito Magnet cost-effective?

Yes. Estimated propane costs are relatively small but of course this depends on the cost of propane gas in your area. The systems all use just under 0.5 kg of gas per day. This equates to around £20 per month operational cost. Mosquito Magnets with a cable (The Defender) consume no more electricity than an electric clock. The stand alone Mosquito Magnets® (Plus and Pro) are self powered.

Is the Mosquito Magnet® quiet?

Yes. The only moving part is the internal fan, which has the same sound level as a standard desktop computer fan.

What maintenance is necessary to keep the Mosquito Magnet® running effectively?

We recommend always having a full tank on-hand to swap over. The net should be emptied before it is half full. A good trick is to empty frequently using two nets in rotation.

What problems may I encounter?

As midges are so small the Mosquito Magnet® must be emptied regularly. If it is not emptied it can get bunged-up. This can normally be cured by flushing out the machine using a small cylinder of gas. These can be purchased from your supplier. In stand alone models if the propane runs out unnoticed the power pack will run down. If this happens the battery has to be recharged and the start-up procedures re followed.

**Mosquito Magnets must be managed
to work at their best.**

REPORTS

We have been experimenting with the Mosquito Magnet in Scotland for several years, as part of our biting midge research programme. The Highlands of Scotland and their associated climate make ideal breeding grounds for midges, resulting in a huge biomass. For example at the peak of the season, half a million midges have been caught emerging from one 2 x 2 m area of ground. The midge season itself lasts from about the end of May through to September most years, although the level of activity depends on the weather, with midges preferring humid, still and overcast conditions. Working with the Mosquito Magnet®, we have managed to catch huge numbers of biting midges - in some cases more than one million per day! Although the traps will not get rid of midges in Scotland completely (and since they are part of the food chain, we would not want to do this), they can certainly go some way to reducing the nuisance factor associated with these insects.

Dr Alison Blackwell

Senior Research Fellow

Biting Midge Research Group

Centre for Tropical Veterinary Medicine

University of Edinburgh

IMPORTANT NOTICE

In midge infested areas Midge Magnet Machines can make a significant difference to your life or your business. However these machines are working outdoors in a hostile environment. They are also capturing huge quantities of very small insects. Problems will arise from time to time. To minimise potential problems we recommend a pre-season maintenance check-over each year. March is a great time.

Mosquito Magnet® machines are supplied to Tackle and Books by:

Midgetech Ltd, 99 Baillieston Road,
Baillieston, Glasgow G32 0TF

Tel: 0141 764 1963 Fax: 0141 764 3781

Email: info@midgetech.co.uk

Midgetech run a complete support, repair, maintenance and refurbishment service.

Contact: Ewan Todd

Tel. 07766 774458

Tackle and Books thanks Mosquito Magnet for the information and drawings in this brochure.