

Now, even more efficient integrated protection for your crop

Integrated pest management is becoming increasingly popular, both due to the continually expanding range of natural enemies for pest control and due to technological improvements. Blowers are used in a new method offering a simpler and more efficient means of applying natural enemies: the natural enemies are blown over the plants and cover the crop with a “protective blanket” of natural enemies. Blowers such as the Airobug and (Mini-)Airbug enable you to distribute natural enemies evenly over your crop.



Integrated pest management based on natural enemies offers the following benefits:

- Integrated pest management is more effective than using just chemicals.
- The quality of the crop is improved: natural enemies do not retard growth and the use of chemical sprays can be reduced.
- Resistance management:
 - Pest infestations cannot develop a resistance to natural enemies.
 - Reducing the use of pesticides reduces the risk of the development of resistance.
- Natural enemies penetrate the entire crop and clear infestations more thoroughly than chemicals.
- Safe and simple to use:
 - Your employees do not need a spray certificate to apply natural enemies. In principle, everyone can apply the natural enemies.
 - You can get to work straight away. The only personal protection recommended is a dust mask.
 - Natural enemies can be applied during the day and without interruption to the other work on the crop. The times at which pesticide sprays can be used are more limited, and you need to take account of your employees' safety.
- Sustainable, reduced environmental impact.

No reason for doubt

The many benefits

The **Airobug** and **Airbug** are unique in that they are based on ventilation technology – with all the resultant benefits: they bring predatory mites to the infested area faster and more precisely than any other application method. Predatory mites that need to travel a great distance to the infestation will probably arrive at their prey too late: for example, thrips larvae can have grown too large to be consumed by predatory mites. So every day counts. However, you can act with sufficient speed when you use the **Airobug** or **Airbug**. In addition, the units offer you much more flexibility: you can apply many combinations of different types of predatory mites in one operation. Moreover, using the **Airobug** and **Airbug** avoids the problems with mouse infestations that can occur with predatory mite cultures. The predatory mites simply get on with their work. Are you a pot-plant grower? If so, you can also benefit from the blowers: their efficiency is still high, even though the plants do not touch each other – in fact, no other system can even come close to their efficiency with pot plants!

See also on our website:

<http://www.koppert.com/products/blowers-for-natural-enemies>

Koppert continues to innovate

Koppert was the first company to introduce biological crop control – an edge that we have not just retained, but also increased. The development of the blowers is a good example of our innovative capacity: in fact, Koppert has been granted a patent on the technology, which was developed from A to Z in-house.

Koppert also regularly introduces new inventions in the natural enemy field, such as *Amblyseius swirskii* (Swirski-Mite). In addition, with its products such as *Trianum* Koppert makes an active contribution to the prevention of (soil) diseases. Koppert, as the market leader in biological crop protection, is in a position to make continual investments in product innovation – investments that result in an efficient, customised product range for every crop and every grower!

Uniform distribution achieves effective control



PR25439/100712

Natural progression with Koppert

Would you like to receive more information about our innovative blowers? Or about the opportunities Koppert offers you for the integrated pest management in your crop? If so, you are welcome to contact Koppert, without obligation. Koppert products are available all over the world. Visit www.koppert.com for the address of a Koppert subsidiary or distributor near you.

KOPPERT
BIOLOGICAL SYSTEMS

KOPPERT
BIOLOGICAL SYSTEMS

The more evenly distributed the natural enemies, the faster they reach the pest.

The faster the natural enemies reach the pest, the better the result.

The Airobug, Airbug and Mini-Airbug: Koppert's blowers

Why use blowers?

Blowers offer several benefits.

- The uniform distribution of natural enemies is guaranteed, thereby increasing the efficiency of integrated pest management.
- Using blowers saves your employees a great deal of time in comparison with traditional methods: depending on the crop, you can achieve time savings of as much as 80%!
- You can use blowers to apply a number of types of natural enemies in one operation: combinations of natural enemies to control, for example, thrips, spider mites and whitefly can be applied with great ease.
- Blowers are safe for the natural enemies: predatory mites suffer no harm from blowers.

Which system is ideal for you?

A variety of blowers are available for the application of natural enemies. The ideal system for you is largely determined by the nature of your operations. The choice is primarily determined by the surface area, although the layout of your greenhouse also plays a role: do you cultivate your crop on concrete floors, or on cultivation tables? Is your greenhouse equipped with a pipe rail or monorail system? Where are the gutters and fastening cables located? Koppert offers you a choice from two systems: the **Airobug** and **Airbug**, which is also available in a Mini version.

The Airobug, for the big jobs

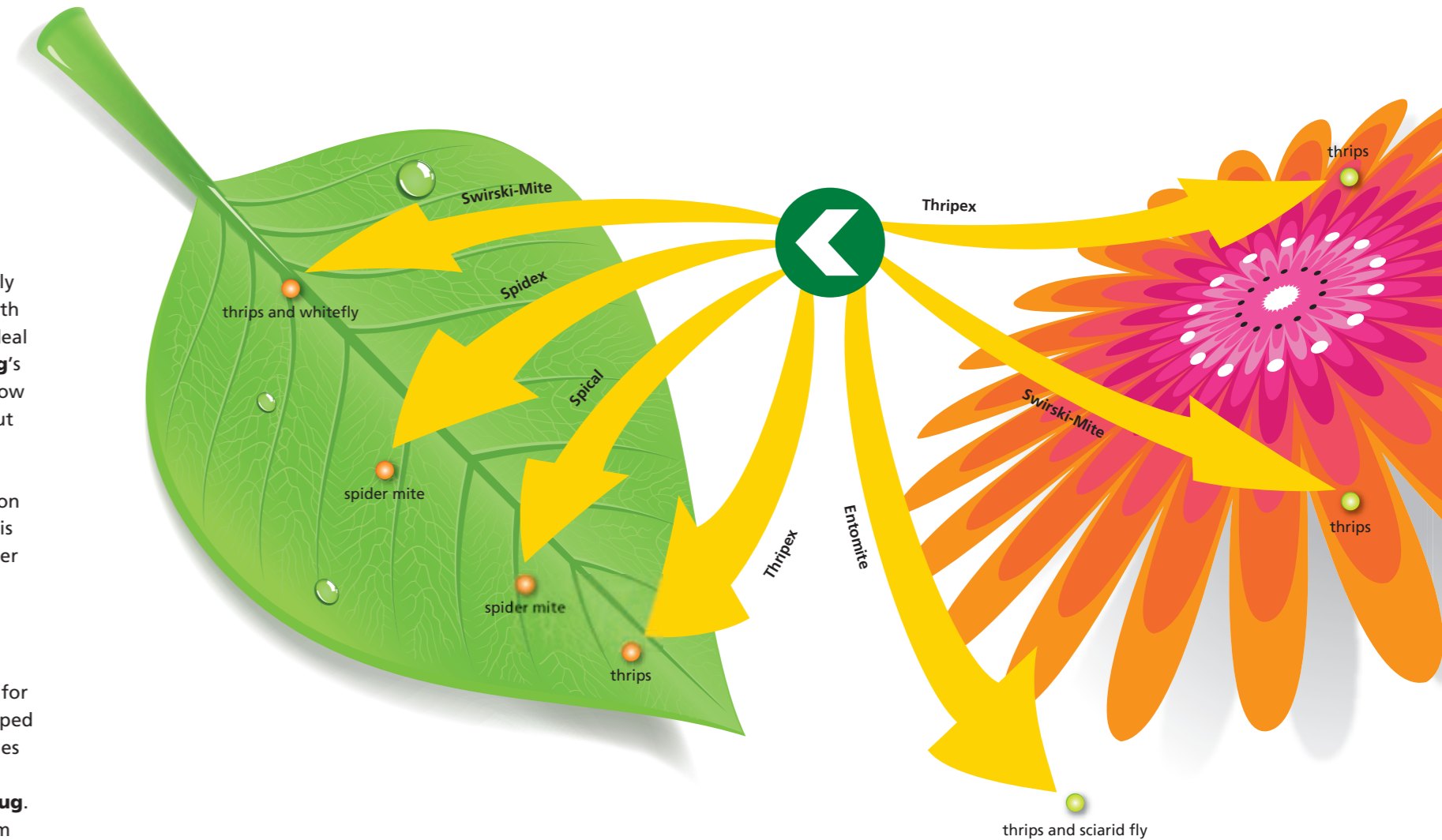
The **Airobug**, Koppert's "jack of all trades", is suitable for larger horticultural holdings.

The **Airobug** applies the natural enemies evenly and rapidly: your crop is covered, as it were, with a "protective blanket" of predatory mites. This ideal distribution is achieved by virtue of the **Airobug's** technology: the fans guarantee a constant air flow rate that carries the predatory mites throughout the greenhouse. Practical trials with various application systems have demonstrated that Koppert's **Airobug** achieves the best distribution of predatory mites. Moreover, the distribution is also excellent with plants that are spaced further apart, for example with pot plants!

The Airbug and Mini-Airbug, for flexible deployment

Is an Airobug less suitable for your operations, for example because your greenhouse is not equipped with a pipe rail or monorail, or because obstacles block the route?

If so, you can opt for the **Airbug** or **Mini-Airbug**. These units also use fans to achieve an optimum distribution. However, they offer you increased flexibility: their compact dimensions and light weight enable you to use them at every location.



Natural enemies suitable for blowers:



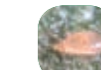
Spidex Phytoseiulus persimilis controls spider mites



Spical Amblyseius californicus controls spider mites



Thripex Amblyseius cucumeris controls thrips



Swirski-Mite Amblyseius swirskii controls thrips and whitefly



Entomite Hypoaspis spp. control thrips and sciarid fly



	Mini-Airbug	Airbug	Airobug
Application	hot-spots and entire crop	entire crop	entire crop
Operation	manual (by walking between the plants)	manual (by walking between the plants)	fully-automatic, on monorail or pipe rail
Working width	2 metres	6 metres	10 to 12.80 metres (depending on model)
Other features	lightweight / easy to use / flexible	fixed carrier belt, height of blower is adjustable	optional parent trolley/lift, travel speed adjustable

