



## 10 Reasons to choose OrnaProtect

- 1) Protects ornamental plants against aphids
- 2) No identification of aphids needed
- 3) No development of resistance possible
- 4) Less labour and time needed for crop protection
- 5) Saves on aphicides
- 6) Easy integration with chemical crop protection
- 7) Long lasting effect at broad temperature range
- 8) Reliable and consistent quality
- 9) Quick and easy application
- 10) Safe for humans, plants, and the environment

## OrnaProtect controls all common aphids on ornamental plants

Aphids/ parasitoids	<i>Aphidius colemani</i>	<i>Aphidius ervi</i>	<i>Aphidius matricariae</i>	<i>Aphelinus abdominalis</i>	<i>Ephedrus cerasicola</i>	<i>Praon volucre</i>
<i>Aphis fabae</i>	x		+	x		+
<b><i>Aphis gossypii</i></b>	+++		++	x	x	+
<i>Aulacorthum circumflexum</i>		+++	x	++	++	++
<b><i>Aulacorthum solani</i></b>	x	++	x	++	+++	++
<i>Brachycaudus helichrysi</i>	x	x	x	x	x	x
<b><i>Macrosiphum euphorbiae</i></b>	x	+++		+++		+++
<i>Macrosiphum rosae</i>	x	++		++		+++
<i>Myzus ascalonicus</i>			x	x	x	x
<i>Myzus ornatus</i>	++	x	++		x	+
<b><i>Myzus persicae</i></b>	+++	+	++	++	++	++
<i>Rhodobium porosum</i>		++		+++	x	x

Ornamental plants can be attacked by far more than ten different aphid species. The table lists the most important species (left column; in bold are the most common species or those which are economically important). The parasitoids present in OrnaProtect are listed in the first line. Their efficacy in the control of the different aphids is indicated by '+' for proven control under field conditions (+++ : very high efficacy, ++ : high efficacy, + : good efficacy) or 'X' for control under laboratory and semi field conditions.



# OrnaProtect



## About OrnaProtect

### Mode of Action

- ⇒ Adult parasitoids hatch from mummies.
- ⇒ Parasitoids search aphids and lay an egg inside.
- ⇒ Development of larvae inside the aphid.
- ⇒ Aphid dies and next generation of parasitoids emerges.
- ⇒ Parasitoid population keeps aphids below economic damage threshold.



### Research

- ⇒ Trials: In different European countries, in potted plants and cut flowers, many species of flowers including begonia, chrysanthemum, cyclamen, gerbera and hydrangea.
- ⇒ Results: Excellent control of aphid populations by OrnaProtect. Savings in labor and time due to easy and fast application.



### Application

- ⇒ Easy installation
- ⇒ To be used in a preventive strategy : BEFORE detection of aphids in the crop
- ⇒ Integrated feeding point for a longer life span of the parasitoids
- ⇒ Releases every 2 weeks
- ⇒ One dose covers 200 m<sup>2</sup>

### Storage

Can be stored for one to two days after receipt at 10°C.

## OrnaProtect, a strategic choice of the grower

In ornamental plants, where aphid tolerance is very low, OrnaProtect used in a preventive strategy offers a natural way to control this pest throughout the crop season. Moreover, due to increasing insecticide multiresistance, the chemical control of aphids becomes always more complicated. By replacing aphicide application, OrnaProtect is the solution to all these emerging problems. It is able to control all commonly appearing aphids in ornamental plants. Its application in the ready-to-use units is much easier and faster than even any chemical treatment.

