

K-KIT

Beneficial insects distribution kit

The sustainable, eco-friendly alternative to traditional chemical products. The K-KIT releases beneficial insects easily and precisely, automatically managed by the BLY5D app.

3 L

CAPACITY

6 ha

PER FLIGHT

800 g

EMPTY WEIGHT



Key features

01

3-litre capacity

Up to 3 litres on small drones with a 1–2 kg payload. Customisable for larger capacities.

02

6 hectares per flight

Up to 6 ha per flight thanks to the optimised automatic flight plans of the BLY5D app.

03

Live beneficial insects

Release that preserves the vitality of the auxiliaries, with full respect for the environment.

04

Flexible integration

Customisable integration on different drone platforms according to customer requirements.

05

Integrated software

Flight planning, real-time remote control and automatic distribution reporting.

06

Easy calibration

Flight parameters and product quantities are calibrated from the BLY5D app.

Key innovation points

- Correct and safe release of different beneficial insects on various drone platforms.
- Automatic flight plan modes differentiated by insect species and crop requirements.
- Two-degree-of-freedom actuation with variable, controlled intensity.
- Software-managed mixing for the optimal blend of insects and carrier medium.
- Non-linear control of the released quantity, compensating the airflow generated in flight.
- Distribution-rate sensors for accurate variable-rate application.
- Distribution status monitored in real time by the pilot via the BLY5D tablet app.



Technical specifications

K-KIT

Total weight (empty)	800 g
Dimensions	20 × 20 × 30 cm
Tank capacity	up to 3 litres (customisable)
Required drone payload	≥ 1 kg
Operational coverage	up to 6 ha per flight
Released products	beneficial insects (e.g. predatory mites)
Control	BLY5D tablet app, real time
Reporting	automatically generated

COMPATIBILITY

Native integration on DJI drones with SDK

DJI Matrice 300 RTK / 350 RTK / 400 · Matrice 100 / 600 / 210 / 210 RTK · drones with DJI A3 / N3 flight controllers.

Compatible with non-DJI drones

Stand-alone configuration controlled by radio · integration on drones with Mavlink-compatible Pixhawk controllers.

OPERATIONAL PERFORMANCE

Max operating speed	14 m/s
Max wind resistance	10 m/s
Operating temperature	-10 °C / +40 °C
Operating endurance	> 20 min

K-KIT + drone: the complete solution



The K-KIT can be purchased separately or integrated on the DJI Matrice 300 RTK, Matrice 350 RTK and the new DJI Matrice 400, the flagship DJI Enterprise drones. On request the kit can also be integrated on a custom drone, according to customer specifications.

Tablet and BLY5D app: mission planning and control, automatic flights, constant height above ground, distribution kit management, report generation.

EIMA 2022 Technical Innovation Award

In cooperation with Koppert Italia

Made in Italy

IN COOPERATION WITH



BIOLOGICAL CONTROL FROM THE SKY

Integrable on Matrice 300/350, 400 or custom drone

Contact Aermatica3D to evaluate the integration of the K-KIT on your fleet.

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