

# Ulva+

A low-volume sprayer for crop protection



Specifically designed for the smallholder, Ulva+ is an efficient hand-held sprayer for low and ultra-low volume application of insecticides and fungicides.

- Economical use of spray liquid
- High work rate
- Versatile – can apply both oil and water-based sprays
- Battery powered design means no pumping is required
- Light to carry and easy to use
- Robust and simple to maintain

## A versatile low and ultra-low volume sprayer

Ulva+ is a spinning disc sprayer specifically designed for low volume (LV) and ultra-low volume (ULV) application of insecticides and fungicides. Aimed at the smallholder, Ulva+ is used worldwide for the treatment of row crops such as cotton, cowpea, groundnuts, tobacco and vegetables. The sprayer is also ideal for the control of locusts, grasshoppers, armyworm and other migrant pests.

### Advanced CDA technology

Incorporating Micron's proven CDA (Controlled Droplet Application) technology, Ulva+ design features a spinning disc atomiser which ensures an even and targeted distribution of spray.

It is suitable for use with both water-based mixtures applied at 10 – 20litres/hectare and oil-based sprays at only 1 – 3litres/hectare of total spray volume.

The low volume application significantly reduces labour requirements making the spraying operation much quicker and less arduous. One hectare of crop can be treated in around one hour, with both wind and gravity used to distribute and deposit the spray.

### Efficient and user-friendly design

Ulva+ is battery powered which means no pumping is required, making the spraying operation faster and less labour intensive. Specially designed Micron backpacks are available to reduce the number of refilling operations.

1. 1L Spray Bottle
2. Feed Nozzle
3. Atomiser Disc
4. Head Locking Sleeve
5. Extension Tube
6. Spare Nozzles
7. Aluminium Carrying Handle/Battery Case
8. On/Off Switch
9. Optional 5L Backpack



**The sprayer must ALWAYS be held downwind. Never spray without a crosswind.**

Specification	ULV (oil sprays)	LV (water-based sprays)
<b>Weight:</b>	<b>Empty:</b> 0.8 kg (with 1L bottle) <b>Ready to Spray:</b> 2.6 kg (with 1L bottle)	1.6 kg (with 5L backpack) 7.5 kg (with 5L backpack)
<b>Power supply:</b>	9 – 12V DC (6 – 8 D-cell / R20 batteries)	6 – 7.5V DC (4 – 5 D-cell / R20 batteries)
<b>Power consumption:</b>	1.5 – 2.0 watts (up to 20 hours spraying with good quality batteries)	1.0 – 1.5 watts (up to 20 hours spraying with good quality batteries)
<b>Disc speed:</b>	7,500 – 10,000 rpm	4,000 – 6,000 rpm
<b>Flow rate range:</b>	25 – 100 ml/min	50 – 200 ml/min
<b>Droplet size (VMD):</b>	50 – 100 $\mu$ m	100 – 150 $\mu$ m



Distributed by