

AU8500

ULV sprayer for pest control in tall trees



Micron AU8500 is a tractor-mounted airblast sprayer which has been specifically designed for ULV (Ultra Low Volume) pest control in tall trees including tropical fruit, date palms and forests.

- Designed for pesticide applications in forestry and tropical fruit plantations
- Rotary atomiser technology provides excellent droplet size control
- Variable flow rate
- Adjustable air duct angle allows vertical and directional spraying; horizontal position for transportation
- Two speed fan gearbox
- Built-in airflow sensor for improved operator safety

Specification

Dimensions:	Main frame: Length 1380 mm, width 1100 mm, height 1200 mm (excluding air duct and atomiser)
Air duct and atomiser:	Height 1500 mm above top of frame.
Atomiser height:	3.2 mm above vehicle ground level (on tractor with category 2 linkage at typical operating height)
Weight:	360 Kg (tanks empty)
Mounting:	ISO standard category 2 3-point linkage
Drive:	From tractor PTO shaft operating at 500 – 540 RPM
Power required	32 HP max at 540 RPM with low fan speed setting 75 HP max at 540 RPM with high fan speed setting
Fan output:	18,500 m ³ /hour at 540 RPM PTO speed with low fan speed setting 22,700 m ³ /hour at 540 RPM PTO speed with high fan speed setting
Air velocity:	57 m/sec (205 km/hr) at air outlet at 540 RPM PTO speed with low fan speed setting 80 m/sec (288 km/hr) at air outlet at 540 RPM PTO speed with high fan speed setting
Vertical coverage:	15 m max at 540 RPM PTO speed with low fan speed setting 20 m max at 540 RPM PTO speed with high fan speed setting
Spray droplet size:	Adjustable 50 – 150 µm VMD for typical ULV pesticide formulations
Output rate:	Adjustable 0 – 3.0 l/min
Output adjustment:	By adjustable valve or interchangeable fixed restrictor orifices
Pesticide tank:	100 litre capacity HDPE construction with 180 mm diameter filling aperture and basket filter
Flushing tank	10 litre capacity HDPE construction with 100 mm diameter filling aperture and basket filter
Electrical power:	12 VDC @ 7 A (spray pump operating)
Power source:	From 12 V tractor battery
Control box:	Mounted in cab of tractor Switch: Pump on/off Indicators: Power on Blower operating Pump on

Efficient pesticide sprayer for tall trees and migratory pest control

Capable of vertical projection of up to 20 metres, Micron AU8500 is a tractor-mounted airblast sprayer developed specifically for the control of pests in tall trees using products formulated for Ultra Low Volume (ULV) application. The machine is intended to be used as a ground-based alternative to aerial application in date palms, tropical fruit trees, forestry etc.

Excellent target coverage

Micron AU8500 features a rotary atomiser to give excellent control of spray droplet size over a wide range of flow rates. Spray droplets are carried upwards into the tree canopy by the air blast from a highly efficient tangential flow fan driven from the Power Take-Off (PTO) shaft of the tractor. The fan is provided with a two-speed gearbox to match the fan speed and air output to the tractor being used. This allows the sprayer to work both with small tractors (32 – 75 HP) and larger types (75 HP and above) for maximum vertical coverage.

The atomiser is mounted at the outlet of a flexible air duct. This is normally directed vertically for optimum coverage of tall trees. However, the angle of the duct can be adjusted for spray application onto smaller trees or bushes or for the control of migrant pests at ground level. The air duct can also be moved to the horizontal position for transport or when driving under obstructions.

Designed with durability and safety in mind

The pesticide tank and all pipework and components in contact with the spray liquid are manufactured from materials that are resistant to aggressive solvent-based ULV formulations. The tank has a wide aperture for ease of filling and a drain valve for easy and safe emptying after use. The sprayer incorporates an additional flushing tank to allow the pipework, pump and atomiser to be safely washed out with a nontoxic solvent after use.

The sprayer is operated from a control box inside the tractor cab (where available) for maximum operator safety. The machine incorporates many unique safety features, including an air flow sensor to stop the pesticide pump in the event of the PTO drive being disengaged during operation.

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