

AU8000

A knapsack mistblower using rotary atomiser technology



The Micron AU8000 sprayer is a highly efficient knapsack mistblower which brings the advantages of rotary atomiser technology originally developed for agricultural aircraft to ground spraying applications.

The sprayer consists of a powerful mistblower fitted with a rotary atomiser to ensure efficient spray atomisation and good control over droplet size. This gives excellent coverage and penetration at Low Volume (LV) and Ultra Low Volume (ULV) application rates.

The strong air-blast combined with good control over droplet size make the Micron AU8000 knapsack mistblower ideal for situations where good throw, coverage and penetration are essential including:

- Public health treatments
- Migratory pest control
- Orchards and plantations
- Greenhouses and tunnels
- Warehouses and grain stores

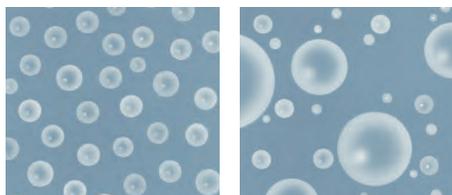
The Micron AU8000 benefits include:

- Adjustable droplet size
- Good penetration of dense foliage
- Elimination of run-off
- Compatible with wide range of formulations
- Suitable for both ULV and LV applications

Safe for the operator and the environment

For any spray application there is an ideal range of droplet sizes which gives the best coverage and penetration of the spray target while minimising potential losses to the environment. Conventional mistblowers produce droplets of widely varying sizes. Some droplets may be too small and liable to drift and evaporation. Other droplets will be too large and will waste a substantial amount of chemical by giving poor coverage.

The Micron AU8000 uses a rotating cylindrical woven wire mesh gauze atomiser to produce droplets of a controlled size range. The droplet size produced depends upon the rotational speed of the atomiser, which is controlled by the fan blade angle. This allows the atomiser to be set to produce the optimum droplet size range for the application and product being used, ensuring good coverage at low spray volumes.



Left: Evenly-sized spray droplets from an AU8000 sprayhead

Right: Widely varying sizes from a conventional mistblower

Good control over droplet size enables the minimum amount of carrier liquid and chemical to be used for spraying, whilst ensuring that the maximum amount is deposited where it is needed. This eliminates the problem of run-off in agricultural spraying and greatly assists in the control of chemical residues on fruit and vegetables. In public health and migratory pest spraying the elimination of large, wasteful droplets ensures good control with minimal spray volumes.

The powerful air-blast generated by the mistblower reduces the risk of human and environmental contamination by carrying spray away from the operator and depositing it at the target. The penetration and throw achieved means that spray can be deposited in the densest foliage and high and inaccessible areas can be reached with ease.

Specification

Knapsack Mistblower

Chemical capacity:	12 litres maximum
Weight (empty):	10.7 kg
Engine:	72.3 cc, 4.1 HP (3.0 kW)
Fuel:	2-stroke petrol (gasoline)
Fuel tank capacity:	1.4 litres
Fuel consumption:	1.8 litres/hr (approx)
Air output:	23 m ³ /min
Air velocity:	125 m/sec at outlet

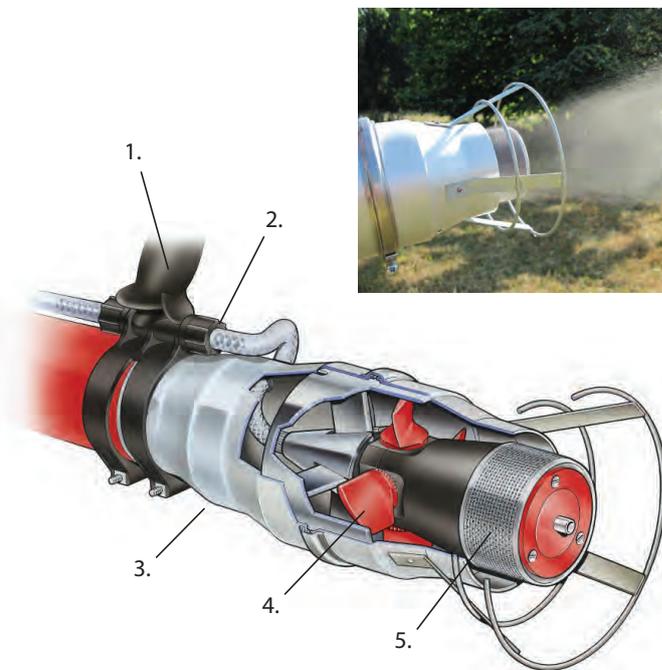
AU8000 Spray Head

Length:	30 cm
Diameter:	15 cm
Weight:	1.5 kg
Air inlet tube diameter:	6.3 cm
Liquid flow rate:	0.07 – 1.2 litres/min
Spray droplet size:	Adjustable (40 - 200 µm VMD)



As well as being supplied as part of a complete sprayer, the Micron AU8000 spray head is also available as a conversion kit for suitable mistblowers. The kit includes connecting tubes, handle/control valve, restrictors and all attachments needed to replace a standard mistblower outlet. This kit is suitable for most types of 5HP knapsack mistblowers meeting the air flow requirements given in the specification table.

NB: It is important that these airflow characteristics are met to ensure the optimal performance of the Micron AU8000 atomiser head.



1. Comfortable moulded handle with on/off control
2. Interchangeable flow restrictor
3. Strong aluminium outer casing
4. Adjustable fan blades determine atomiser rotational speed and droplet size
5. Wire mesh gauze atomiser produces spray droplets

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