

# AU6539

A versatile electric atomiser for use on helicopters



The Micronair AU6539 is a versatile electrically powered rotary atomiser designed for use on helicopters and for other specialised applications. The atomiser uses a woven wire gauze cylinder to produce spray droplets within a narrow size range. The AU6539 is ideal for the application of insecticides, fungicides and other products at Ultra Low Volume (ULV) and Low Volume (LV) rates in agriculture, migrant pest control, forestry and public health spraying. As the atomiser is driven by an electric motor, its rotational speed (and hence the spray droplet size) is independent of airspeed. The AU6539 should, therefore, be used instead of AU5000 or AU7000 wind-driven atomisers in applications where a helicopter is flown at a low or variable airspeed.

AU6539 atomisers are available with an optional electronic speed controller and cockpit control box to vary the rotational speed and droplet size. Up to six atomisers can be used with one speed controller. AU6539 atomisers are manufactured

from corrosion and chemical resistant materials and are compatible with a wide range of ULV and LV formulations.

Micronair AU6539 atomisers are supplied with diaphragm check valves and variable flow restrictor units for quick and easy adjustment of output rate, as well as a choice of boom clamps to suit different boom profiles and sizes.

An optional speed controller is also available.

- Specifically designed for helicopters and specialised applications
- Narrow droplet spectrum
- Wide flow range
- Ultra low volume (ULV) and low volume (LV) applications
- Electric operation for constant rotational speed
- Manufactured from corrosion and chemical resistant materials

## Precise flow control

The flow to each atomiser can be controlled by a variable restrictor unit (VRU). This provides finger-tip control of the flow by the adjustment of a 7-position control knob.

VRUs are supplied with fittings and adaptors for the standard nozzle outlets found on most spray booms. This eliminates the need for any special pipework or modifications of the boom.

Overall flow from the aircraft is regulated by the boom pressure in exactly the same way as a conventional nozzle spray system.

The optional Micronair application monitor gives the pilot an accurate display of the actual application rate.



## Optimal droplet size control

The Micronair AU6539 is designed to produce spray droplets within a narrow, controlled size range. This ensures accurate, efficient and cost-effective application of a wide range of products.

The droplet size can be varied by an optional electronic speed controller. This enables the pilot to adjust the rotational speed of the atomisers to produce the optimal droplet size for the product being applied and the operating conditions.

### Specification

<b>Weight:</b>	2.0 kg complete with mounting bracket
<b>Input voltage:</b>	24 – 28 V DC
<b>Input current:</b>	6 A maximum
<b>Mounting:</b>	By mounting clamp – specify boom size and profile when ordering
<b>Liquid throughput:</b>	0 – 3.0 l/min per atomiser
<b>Flow control:</b>	By variable restrictor unit (VRU)
<b>Liquid shut-off:</b>	By diaphragm check valve
<b>Rotational speed:</b>	2,000 – 11,000 rpm (max) (adjustable when used with speed controller)
<b>Operating airspeed:</b>	0 – 240 kph
<b>Droplet size:</b>	45 – 120 $\mu$ m VMD (when used with speed controller)

**Above figures are for guidance only. Performance will vary according to chemical formulation and conditions of use. See AU6539 handbook for full details.**

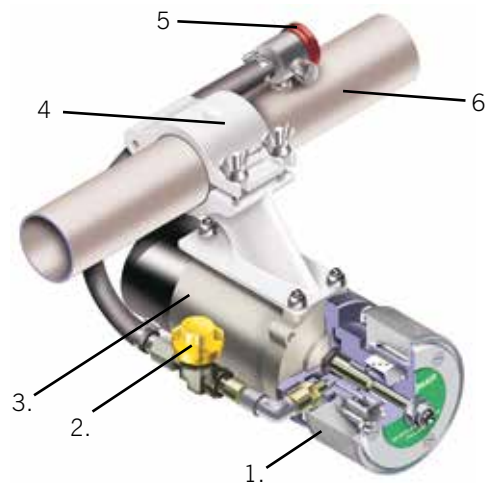


## Positive shut-off

Each atomiser is supplied with a diaphragm check valve. This ensures an immediate and precise shut-off at the end of each spray run and eliminates the risk of chemical leakage on the ground.

## Chemical resistance

The Micronair AU6539 is built from materials chosen for their resistance to corrosion and the highly aggressive solvents used in some ULV formulations. The atomiser is compatible with ULV and LV products and can be used with a wide range of specialist formulations, including Bt, biological products, IGRs etc.



1. Woven wire gauze
2. Diaphragm check valve
3. DC motor
4. Mounting clamp
5. Variable restrictor unit
6. Standard spray boom

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