

SPRAY EQUIPMENT & Technology



Rotary Atomiser



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Flowmeter Turbine



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Diaphragm Check Valve

- Prevents leakage of chemical when atomiser is not operating
- Opens when control valve is opened and pressure in boom increases
- Installed on atomiser



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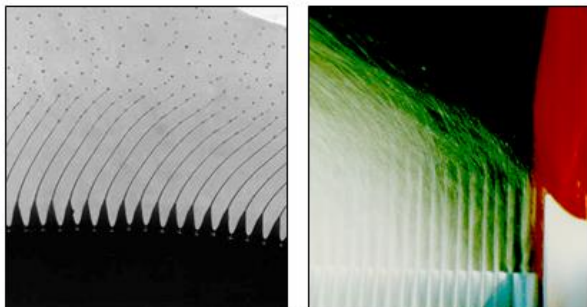
Atomiser RPM Indicator

- Measures speed of each atomiser (max 10 units)
- Allows all atomisers to be adjusted to rotate at same speed
- Magnetic transducer installed on each atomiser



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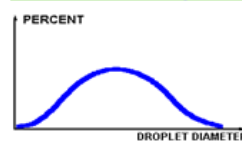
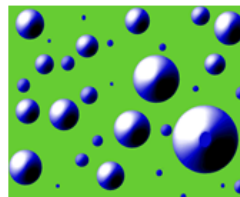
Rotary Atomiser (CDA) Droplet Formation



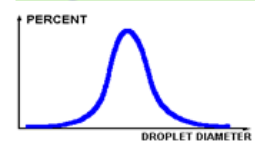
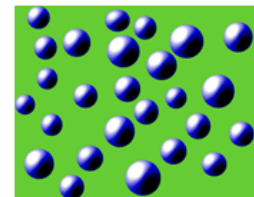
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Comparison of Spray Droplets

From standard nozzle



From Micronair Atomiser



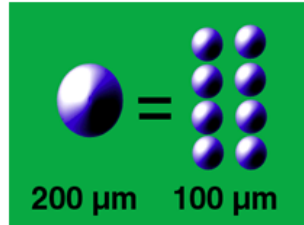
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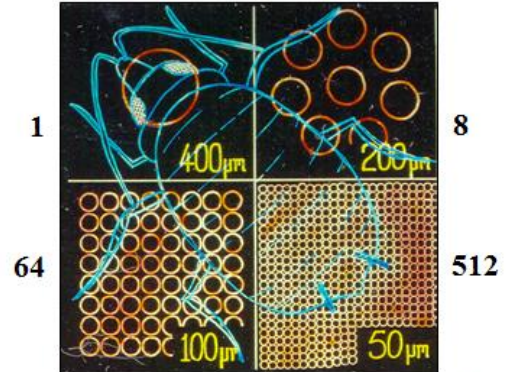
Droplet Size & Coverage

- Reducing droplet size increases the number of droplets
- Smaller droplets give more droplets/cm² than larger droplets
- Smaller droplets penetrate dense foliage better



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Number of Droplets on Target



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Choice of Droplet Size

Droplets must be small enough to:

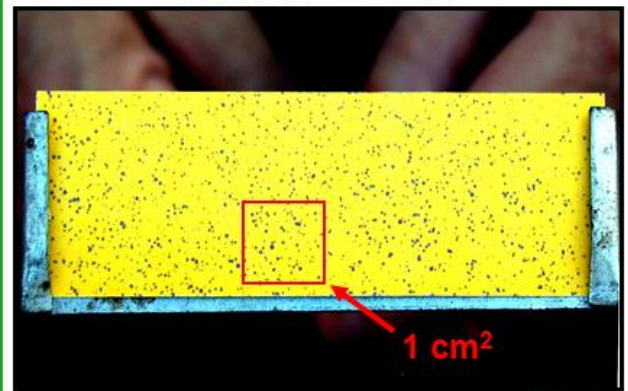
- Give good coverage
- Give effective penetration of foliage

But must be large enough to:

- Not evaporate significantly before reaching their target
- Not drift out of the target area

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Sensitive Card



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Application Printer

- Prints data from application monitor
- Provides permanent record of each spray job
- Installed in cockpit of aircraft



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Application Monitor

- Measures chemical flow rate with turbine in pipe to booms
- Displays flow and application data
- Measures atomiser RPM
- Installed in cockpit



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