

## Why ULV - Application?

IGEBA ULV Aerosol Generators keep the application rate (volume of chemical preparation per area) as low as possible, thereby treatment time and costs are diminished.

The chemical preparation is directed to the spray nozzle where a powerful blast of compressed air from the blower breaks up the chemical preparation into minute droplets. A dosage nozzle ensures a constant application rate and largely droplets of uniform size.

Spray nozzles of IGEBA ULV Aerosol Generators work in a special way. The spray nozzles are designed in a two-step-system. The droplet stream is bundled through the special aerosol nozzle without touching its inner surface. This principle allows to apply even wettable powders and prevents clogging of the spray nozzle.

Compared to the traditional spraying or LV method, the ULV method produces smaller droplets. Therefore more droplets are produced out of the same volume of chemical preparation. Smaller droplets mean a greater density of fog, better distribution and therefore higher effectiveness.

### Example:

1 ml liquid applied  
with 20 microns droplet size = 239 Mio. droplets  
with 100 microns droplet size = 1,91 Mio. droplets

### Droplet Size: (enlarged views)



The droplet spectrum is decisive for different applications. We reach the highest standards regarding effectiveness and optimum coverage of the target area. U 5 M produces a droplet spectrum of VMD < 25 µm when fogging pure water.

## Technical specifications:

<b>Motor:</b>	
<b>Typ</b>	4-stroke engine, handstart system (Briggs & Stratton)
<b>Fuel tank capacity, in l</b> (Regular gasoline / E10)	2.0
<b>Fuel consumption, in l/h. approx.</b>	0.85
<b>Battery</b>	n/a
<b>Performance, (KW/HP)</b>	2.6 / 3.5
<b>Speed, (U/min)</b>	2860
<b>Air compressor:</b>	
<b>Discharge rate, (m³/min)</b>	1.0
<b>Pressure, (bar)</b>	0.2
<b>Drive, (belt drive)</b>	1
<b>Speed, (U/min.)</b>	14000
<b>Air filter,</b>	Foam filter
<b>Air velocity at the nozzle,</b> (approx. m/sec.)	
	200
<b>Noise emission, dB(A)</b>	
	85-90
<b>Solution system:</b>	
<b>Solution tank PE-HD,</b> nominal volume in (l)	
	20
<b>Output quantity, in l/h.</b>	approx. 10 l with dosage nozzle 0.8
<b>Dosage nozzle, (standard)</b>	0.8
<b>Solution line, (Teflon)</b>	Ø6 x 1 mm
<b>Droplet spectrum: (IPARC)</b>	
VMD, pure water (10 l/h.)	< 25 microns
VMD, oil (diesel) (10 l/h.)	< 15 microns
<b>Number of nozzles</b>	
	1
<b>Aerosol nozzle</b>	horizontally adjustable up to 135° and vertically up to 50°, continuously adjustable angle of radiation
<b>Control:</b>	
<b>Motor</b>	motor ON / OFF, hand start motor by hand, solution tap OPEN / CLOSED
<b>Solution line control</b>	
<b>Chassis:</b>	
<b>Type</b>	stainless steel
<b>Dimensions:</b>	
<b>L x B x H, (in cm)</b>	60 x 53,5 x 58 cm
<b>Empty weight, (in kg)</b>	38
<b>Optional:</b>	
<b>Remote control, (also retrofit-kit)</b> (optional)	5 m. cable, external 12 V DC supply necessary
<b>Hose extension with Aerosol nozzle</b> (optional)	5 m in horizontal direction, not over- head. Equipped with couplings for air and solution hose.
<b>Transport handle with wheels</b> (optional)	stainless steel construction with two pneumatic tyres
<b>Acid-proof solution line</b> (optional)	

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**NEW** U 5 M

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