



**IGEBA UNIPRO 5** is a high quality Universal ULV Cold Fog Generator for professional application, i.e. pest control, disinfection, plant protection or stored products control. The machine operates effectively according to the ULV method (= Ultra Low Volume). ULV refers to the minimum application rate/area required to achieve effective and economic treatments. A powerful blower evenly distributes the fine droplets over the target area. The droplets remain airborne for a sufficient time, whereby even inaccessible cracks, crevices and equipment parts are penetrated, which otherwise can only be treated very labour-intensively and by hand only.

DIN EN ISO 9001:2008

## Number One in Europe

### Benefits:

- Universal application for pest control, disinfection/hygiene, plant protection and stored products control (also suitable for acid based disinfectants)
- Special IGEBA ULV-Spray head ensures excellent distribution of the droplets according to ULV-method
- Connectable to any available 230 V socket (standard 16 A - Fuse protection sufficient), thereby extremely flexible application possibilities
- Encapsulated and maintenance free motor, (important with acid based disinfectants).
- Angle of rotation of the spray-head continuously adjustable (360° horizontally, 180° vertically).
- No operator hazards, through self-running operation.
- High capacity through powerful air stream and fogging capability
- Low noise level through electric operation
- High reliability and excellent operating safety through high grade quality materials, especially in the solution pipe system (stainless steel, Teflon, etc. and Poly V-driving belt for blower actuation)
- Various solution tank capacities, optional 45 l tank, easy backfitting
- Excellent cost-performance ratio, extremely economical biocide consumption.
- Time control available (optional).

### Fields of application:

- Disinfection in intensive livestock
- Disinfection in food industry (FV1 - execution)
- Public Hygiene
- Air disinfection
- Application of vaccines in livestock
- Disinfection in mushroom production and greenhouses
- Pest control against flying and crawling insects
- Plant protection in Greenhouses
- Stored products control
- Control of mildew and fungus
- Odour control

**UNIPRO 5** is equipped with a 230 V - A.C. - Asynchronous motor. The solution System is acid resistant and therefore also applicable for acid based solutions. The motor is encapsulated and maintenance-free, likewise the blower. This is particularly important when acid based solutions are applied, since absorbing loaded air does not damage the motor. The machine can be used nearly everywhere and through the self-running operation and possibilities of time control, no supervision is required which contributes to operator safety and protects from personal hazards.

## Why ULV - Application?

The aim is to keep the application rate as low as possible and thereby diminish both the cost of the total quantity applied as well as the actual treatment time.

The chemical preparation is conducted to the spray heads where a powerful blast of air from the blower breaks up the chemical substance into minute droplets. On its way to the spray head, the biocide passes through a dosage nozzle to ensure a constant application rate and produce droplets of uniform size. This shortens the treatment time and reduces the quantity of active agent applied, thereby achieving the highest standards of efficiency and optimum coverage of the target area.

That means that a certain application rate applied by the ULV method produces more droplets compared to the traditional spraying or LV method. The smaller the droplet size, the more droplets are produced, ensuring an effective coverage of the target area.

### Example:

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

**IGEBA ULV Aerosol Generators** operate in a special method, whereby the atomizer nozzles are designed in a 2-step-system. The jet of droplets is bundled through the special aerosol nozzle and leaves it without touching its inner surface. This principle allows to apply even wettable powders and prevent clogging of the nozzle

### Droplet Size: (enlarged views)



One 40 microns droplet will give 8 droplets of 20 micron which will increase their density, distribution and therefore, efficacy. Unipro5 produce a droplet spectrum of VMD < 20 µ with pure water only.



**Standard execution:**  
20 l solution tank



45 l solution tank

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## Technical specifications:

<b>Motor:</b>	
<b>Typ</b>	1- Phase - AC Motor with starting and operating capacitor
<b>Drive motor, (kW)</b>	1,5
<b>Mains voltage, (Volt)</b>	230
<b>Frequency, (Hz)</b>	50
<b>Rated current, (Ampère)</b>	9,25
<b>Speed, (rpm)</b>	2845
<b>Air compressor:</b>	
<b>Discharge rate, (m³/min)</b>	1,0
<b>Pressure, (bar)</b>	0.22
<b>Drive, (Multi-Rib-Belt)</b>	1
<b>Speed, (rpm)</b>	14000
<b>Air velocity at the nozzle, (approx. m/sec.)</b>	200
<b>Solution system:</b>	
<b>Solution tank, nominal volume (l)</b>	20 standard 45 optional
<b>Output quantity, in l/h (max.)</b>	approx. 10 l with dosage nozzle 0.8 approx. 14 l with dosage nozzle 1.0 approx. 18 l with dosage nozzle 1.2
<b>Dosage nozzle standard</b>	0.8 (1.0 / 1.2)
<b>Solution line, (Teflon)</b>	6/4 x 1 mm
<b>Droplet spectrum</b>	
VMD, pure water (10 l/h)	< 20 microns
<b>Aerosol Spray head</b>	horizontally adjustable 360° spray hose up to approx. 2m.
<b>Control:</b>	
<b>Motor</b>	ON / OFF - push button switch with motor protection and zero voltage switch
<b>Solution line control</b>	solution tap OPEN / CLOSED manually
<b>Chassis:</b>	
<b>Type, Standard UNIPRO 5</b>	solid rectangular frame, welded / zinc coated
<b>Type, FV1 - Version</b>	stainless steel
<b>Rollers</b>	2 pneumatic rollers
<b>Dimensions:</b>	
<b>L x B x H, (in cm)</b>	59 x 57 x 116
<b>Weight empty, (in kg)</b>	56 (standard)
<b>Options:</b>	
<b>Integrated UNIPRO 5 Timer</b>	
<b>Solution tank</b>	45 l
<b>Control System E/3</b>	Control system E/3: with Agitator in solution tank (available only for 20 l solution tank) for the application of wettable powders and with electric timer for pre-selection of fogging and agitating.

Technical modification without prior notice. 11-2013