

ULV Aerosol Generator

Made in Germany



Number One in Europe

Benefits:

- Universal application, for pest control, disinfection/hygiene, plant protection and stored products control (suitable for acid based disinfectants also).
- Excellent distribution of the droplets according to ULV-method, through special IGEBA ULV-Spray head.
- Connectable to any available 230 V socket (standard 16 A - Fuse protection sufficient), thereby extremely flexible application possibilities.
- Encapsulated and maintenance free motor, (basically 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 reliable and excellent operating safety through high grade quality materials, especially in 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

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 ULV method (= Ultra Low Volume). ULV refers to the minimum application rate/area required to achieve effective and economic treatments. A powerful blower distributes the fine droplets evenly over the target area. The droplets remain airborne for a sufficient time, whereby even inaccessible cracks, crevices and equipment parts are penetrated, which otherwise have to be treated very labour-intensively by hand only.

DIN EN ISO 9001:2008

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, protecting from personal hazards.

Technical modification without prior notice.

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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-steps-system. Through the special aerosol nozzle without touching its inner surface. This principle allows even to apply 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

Optional execution:



45 l solution tank



socket timer

DIN EN ISO 9001:2008

Technical specifications:

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

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