

ULV Aerosol Generator UNIPRO 40

Made in Germany



IGEBA UNIPRO 40

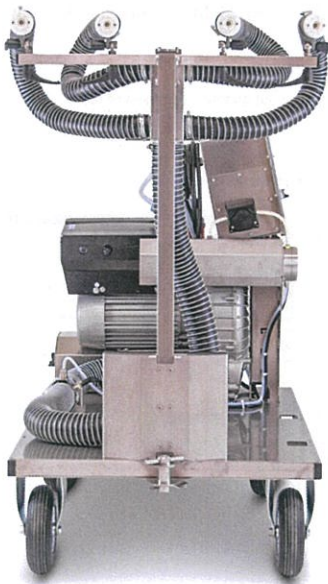
the most flexible ULV Aerosol Generator for versatile applications in plant protection, pest control and hygiene management.

High-performance (cold) fog generator covering both the **ULV** and **LV** droplet spectrum. Individually adjustable output quantity between 1 - 73 l/h. Powerful solution pump to feed from any container.

- High area efficacy
- ULV and LV fogging and misting
- Adjustable aerosol nozzles
- 100% compatible for microorganisms
- Ideal for insecticides, fungicides
- Perfect for disinfection
- High penetration depth of up to 120 m*
- Time saving and cost reduction
- High user protection

Applies all liquid formulations including solutions from wettable powders and wettable granules. UNIPRO 40 is perfectly fit for fungicides and systemic agents due to maximal output quantity, it creates efficient LV droplet properties. Applies also effective microorganisms (EMs). Easy operation, including interface for optional automatic operation mode, either by our original timer system or from any external source. Compact design in its class. It fits through a standard door and is easy to manoeuvre.

Stainless steel chassies for value preservation combined with low or maintenance-free main components such as powerful direct driven blower and energy-efficient 3-phase frequency regulated motor at 16 Ampere (A) rated current only. Covers 360 to 500 V at 50/60Hz. Low current consumption of only 12 A (at 400 V) in operation .



Illuminated Control Panel

Coloured visualisation of status

- Green: ready for use
- Yellow: ready for automatic mode
- Blue: fogging



Solution system with hose pump feeding directly from any external container

Available upgrade options:

- 100 l HD-PE solution tank sufficient for up to 2 ha (20.000 m²)
- Oscillating and timer controlled agitator for the Igeba 100 l solution tank for a perfect mixture
- Telescopic mast retrofitting to transform the unit into a UNIPRO 40-T lifting up the aerosol spray heads up to 4,3 m height.

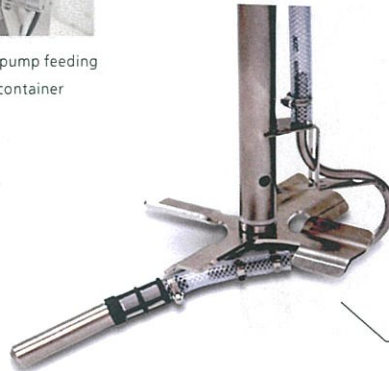
Wheel Options:



Pneumatic tires for uneven grounds



Solid casters for even grounds



Optional oscillating agitator including solution feeding line

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Electric motor:	
Drive motor	8,3 kW
Power supply	3-phase 360 - 500 V AC
Power consumption	12 A at 400 V
Supply frequency	50 / 60 Hz
Fuse protection, (delay action)	16 A
Blower	Side channel blower with frequency converter
System for active solution:	
Working pressure	0,28 bar
Output	Freely adjustable 0 - 73 l/h up to 42 l/h in ULV mode Max. 73 l/h for LV mode
Droplet spectrum VMD determined with water only at 42 l/h output rate	< 20 microns
Solution system	Hose pump with suction hose (3 m) Suction filter
Solution line	Teflon, Viton, stainless steel, PVC
Number of spray nozzles	4 spray nozzles individually 360° adjustable
Fogging range	up to 120 m *
Control	Manually or automatically Automatic operation with optional accessories (timer, remote control) or external port
Chassis:	
Frame	Stainless steel with removable drawbar Towing coupling for vehicles and trolley
Wheels	4 pneumatic tires optionally solid castors 2 swivel wheels (one with brake) and 2 fixed
Dimensions L x W x H in cm	145 x 76 x 125 with solid casters 145 x 76 x 131 with pneumatic tires
Weight (empty in kg.)	130
Optional:	
Solution tank	100 l HD-PE Solution tank Trolley for 100 l solution tank
Agitator and Timer Set	Agitator for solution programmable timers for preselection of fogging and mixing time Timer module includes smart phone app for easy time set and control



Nozzle output	Liquid	'D (v, 0,5) VMD	'D (v, 0,9)
10 l/h through one nozzle	water	11,8 µm	27,9 µm

Droplet size data for IGEBA aerosol generators:

Ambient temperature: 21,4 °C
Formulation temperature: 22,0 °C

Droplet Size: (enlarged views)



One 40 microns droplet will give 8 droplets of 20 micron which will increase fog density, distribution and therefore, efficiency.

Example:

1 ml liquid applied
with 20 microns droplet size = approx. 239 Mio. droplets produced
with 40 microns droplet size = approx. 30 Mio. droplets produced
with 100 microns droplet size = approx. 2 Mio. droplets produced

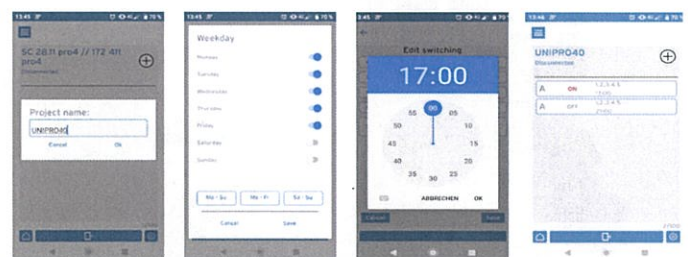
IGEBA ULV Aerosol Generator operate in a special method, whereby the atomizer nozzles are designed in a 2-step-system. Through the special aerosol nozzle the concentrated droplet stream is leaving the nozzle without touching its inner surface. This principle allows even to apply wettable powders and prevents clogging of the nozzle.

UNIPRO 40 Solution System:

An integrated hose pump with special pulsation damper feeds the active solution continuously to the spray nozzles. The output can be easily adjusted. UNIPRO 40 performs ULV mode with up to 42 l/h (recommended) and LV mode with up to 73 l/h.

* under optimal conditions and dependent of the output quantity, tightness of room space

Time Control APP for your smartphone



Easy switch time programming with your smartphone. Connects with bluetooth to the unit. Included with optional time control set for UNIPRO 40 Series. (For IOS and Android)

Example configuration:

UNIPRO 40 basic unit:

- with optionals:
- 100 L HD-PE Solution tank
 - Agitator for mixable solutions
 - Timer controller for mixing and fogging incl. free smartphone programming app
 - Pneumatic wheels



IGEBA Geraetebau GmbH
Boschensaege 2
87480 Weitnau | Germany

T +49 (0) 8375 9200-0
F +49 (0) 8375 9200-22

info@igeba.de
www.igeba.de