

# ULV Aerosol Generator

## UNIPRO 40-T

Made in Germany



- Time saving
- Cost reduction
- High user protection
- Uniform distribution of plant protection product
- Works with effective microorganisms
- Automatic use possible



**iGERBA®** 



## UNIPRO 40-T

### IGEBA Unipro 40-T – top-class performance for plant protection

The Unipro 40-T is the high-performance ULV fogging machines among cold foggers and versatile in its fields of application. The spray nozzles of the Unipro 40-T can be lifted to a height of up to 4,30m with its adjustable telescopic mast. That enables the advanced treatment possibilities, e.g. in large scale greenhouse horticulture. The free space above the plants can now be used much better allowing the fog to spread further without any hindrance.

The compact construction of the Unipro 40-T enables easy operation and the problem-free transport even through standard door frames. The suction hose of the Unipro 40-T allows it to feed the active solution directly from any appropriate container. The integrated hose pump with pulsation damper pumps the active solution continuously to the spray nozzles. The output can be adjusted easily whereas an output of 42 l/h guarantees the ideal droplet spectrum of < 20 microns. The Unipro 40-T is also perfectly fit for fungicides and systemic agents due to its maximum output of 60 l/h. Even effective microorganisms can be used without a problem. Fogging concentrated plant protection products with the Unipro 40-T can reduce the amount of water significantly in comparison to conventional spraying. That also avoids high drain-off losses.

The Unipro 40-T can be operated automatically with its flexible control options. Two build-in interfaces allow optional connection of time controller or to any external dry contact. That enables the user, i.e. to fog during night-time as well. This results in a reduction of costs for personnel and the user is not exposed to the chemical products during the application.

#### Device status:

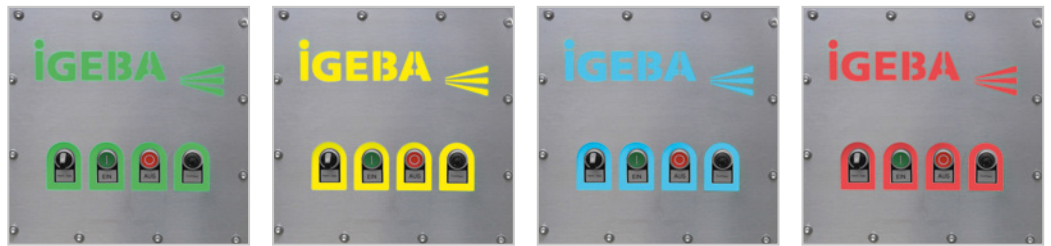
Colour visualisation of the control panel

Green: ready for use

Yellow: ready for automatic use

Blue: fogging

Red: malfunction of the blower



#### Solution system:

Hose pump with suction hose (3m)

#### Suction filter:

Feeding directly out of the external container – no transfer of active solution required



#### Control:

Manually or automatically

#### Ports:

Automatic use via optional accessories (timer, remote control) or external port



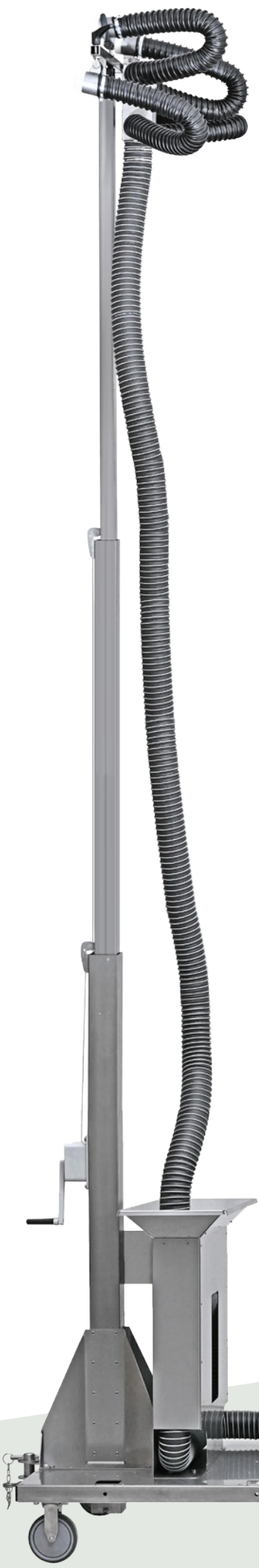
#### Wheels:

Soft floor castors (standard floor) for easy maneuvering on solid, even ground

Optionally with pneumatic tires for uneven ground

2 swivel castors (one with brake) and 2 fixed castors each





**Telescopic mast:**

Freely adjustable from a height of 1,79m to up to 4,3m above ground

**Hose magazine for stowage of the air hose**

**Spray nozzles:**

4 spray nozzles, 360° adjustable

Freely adjustable output, recommended 42 l/h for ULV usage (max. 60 l/h)



**Crank handle for telescopic mast**

**Frame:**

Stainless steel

Including removable drawing bar

**Double-sided drawbar eyes** for vehicles or optional trolleys

**Dimensions:**

145 x 76 x 179 cm

Device fits through a standard door frame

**Additional advantages:**

- No transfer of the active solution is required – fogging directly from the external container
- Operator protection
- High area efficiency \*
- Uniform distribution of the fog within the space
- High penetration depth of approx. 120m\*
- More even distribution of the plant protection product compared to conventional spraying
- Compact design, easy use and cleaning
- Ideal for insecticides, fungicides and effective microorganisms
- Perfect for disinfection

\*under optimal conditions and output quantity



## Why ULV-Application?

DIGEBA ULV Aerosol Generators keep the application rate (volume of chemical solution per area) as low as possible, thus reducing costs and treatment time.

The chemical preparation is directed to the spray nozzle where a powerful blast of compressed air from the blower breaks up the chemical solution into minute droplets. A stainless steel 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.

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 µm droplet size = 239 Mio. droplets

With 100 µm droplet size = 1,91 Mio. droplets

### Droplet Size: (enlarged view)



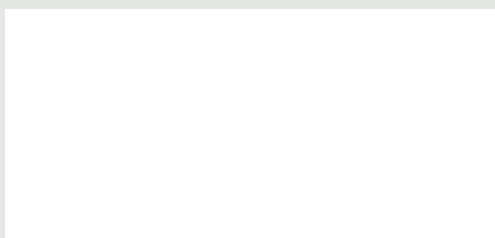
40 microns



20 microns

The droplet spectrum is decisive for different applications. We reach the highest standards regarding effectiveness and optimum coverage of the target area.

Your dealer:



## Technical Data

Electric motor:	
Power supply	Three-phase alternating current 5m connecting cable fixed to the device 16 A CEE plug
Power consumption (A)	12
Supply frequency (Hz)	50 / 60
Blower	Side channel blower with frequency converter
System for active solution:	
Working pressure (bar)	0,28
Output (l/h)	Freely adjustable Ideal: 42 l/h for ULV usage Max: 60 l/h
Droplet spectrum VMD, determined with water at an output of 42 l/h	< 20 microns
Solution system	Hose pump with suction hose (3m) Suction filter
Solution line	Teflon, Viton, stainless steel, PVC
Number of spray nozzles	4 spray nozzles 360° adjustable
Telescopic mast	Freely adjustable Minimum: 1,79m above ground Maximum: 4,3m above ground
Fogging range	Up to 120 m *
Control	Manually or automatically Automatic use via optional accessories (timer, remote control) or external port
Chassis:	
Frame	Stainless steel with removable drawbar Towing coupling for vehicles and optional trolleys
Wheels	4 soft floor castors / optionally pneumatic tires 2 swivel castors (one with brake) and 2 fixed castors each
Weight (kg)	157
Dimensions LxWxH (cm)	145 x 76 x 179
Optional:	
Timer	•

\* under optimal conditions and dependent of the output



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