solo®

THE BETTER CHOICE. SINCE 1948.

German quality sprayers and cut-off machines

# Product Information

## ULV Nozzle 49480


The new ULV nozzle from SOLO allows the application of liquid pest control chemicals, using either the LV–method or ULV–method (low volume / ultra low volume) that produces fine or very fine droplets. The ULV nozzle generates an effective, fog-like mist with a defined droplet size spectrum between 40 and 51µm. The droplets are carried and precisely directed to the target by the air current from the mistblower. These fine aerosol type droplets are floating longer in the air than conventionally produced larger droplets and can provide a higher efficiency for many applications.

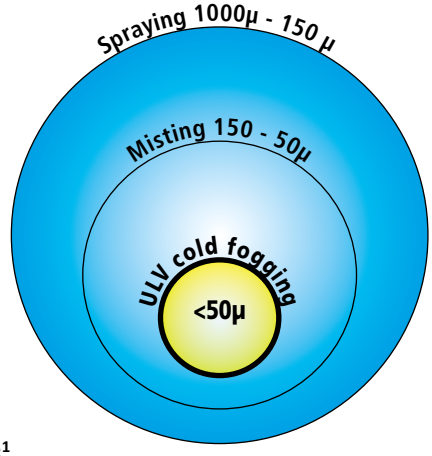
SOLO PRO

### Application

- The SOLO ULV Nozzle easily replaces the standard nozzle on the top of the spray tube. It is suitable for the current as well as the earlier model SOLO Mistblowers. The adjustment wheel for the liquid flow volume has 4 settings between 0.04 and 0.175 l/min.
- LV- and ULV plant protection chemicals can be applied in a cost effective and liquid saving way. The powerful air stream of SOLO Mistblowers produce minute droplet sizes to penetrate dense foliage and even, fine leaf coverage without run-off. This reduces costs and helps to protect the environment. Whenever and wherever long reach is required, SOLO Mistblowers and the SOLO ULV Nozzle must be the first choice. The ULV application method is also well suited for drier areas in the world.
- In addition to its use for plant protection applications, the ULV nozzle is particularly useful for the control of vectors that are disease carriers, such as mosquitoes, flies and other harmful insects. The SOLO ULV Nozzle can produce up to 40% of the generated droplets within the optimum range for vector control and is well suited for use in sub-tropic and tropic regions to assist in the fight against dangerous diseases for humans.
- Further applications are pest control in greenhouses, storage halls and grain silos. The SOLO ULV nozzle is particularly effective against fast travelling and destructive vermin in agriculture such as locusts.

| Part no. | 49480 |
|---|---|
| Output volume ml/min. adjustable (4 settings) | 40/95/135/175 |
| Weight | 230 g |

**Suitable for all SOLO Mistblowers**

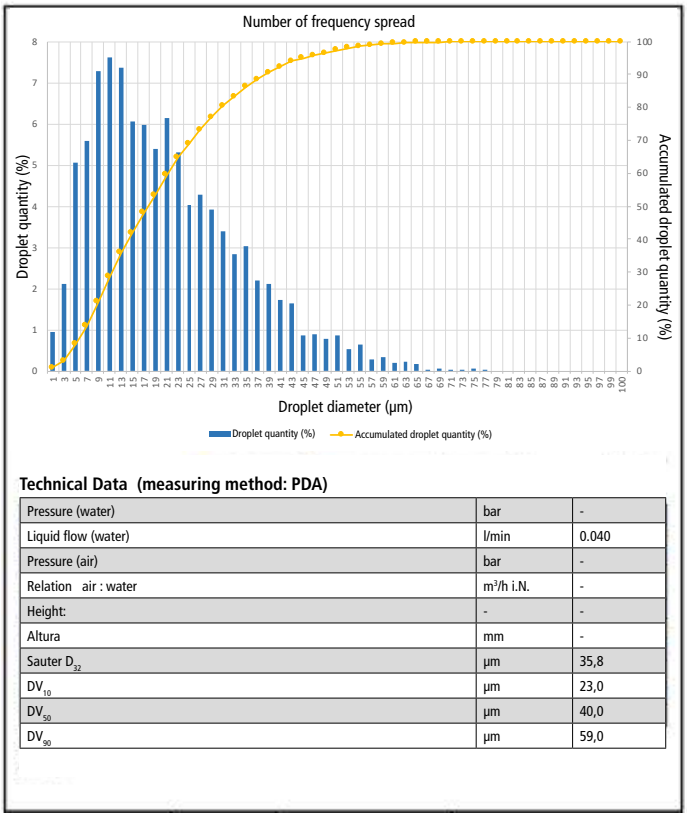



### Output volume and spread of droplet sizes[1]

| Setting of output adjuster | Output volume ml / Min | Medium volumetric diameter µ ($DV_{50}$) | 10 percent volumetric diameter µ ($DV_{10}$) | Median volumetric diameter µ (MND / NMD) |
|---|---|---|---|---|
| Setting 1 | 40 | 40 | 23 | 18 |
| Setting 2 | 95 | 42 | 25 | 19 |
| Setting 3 | 135 | 48 | 29 | 20 |
| Setting 4 | 175 | 51 | 31 | 21 |

[1]DV50: half of the delivered liquid volume consists of droplets larger or smaller than the stated value.
DV10: 10% of the delivered liquid volume consists of droplets that are smaller than the stated value.
MND: half of the quantity of the delivered droplets is larger, the other half is smaller than the stated value.

## Droplet spectrum

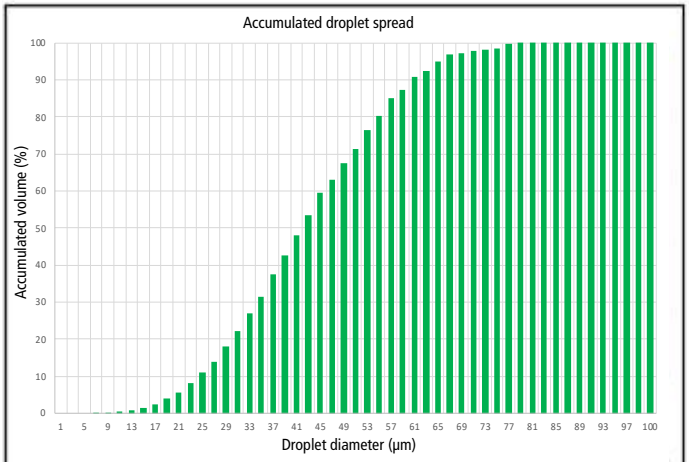



**Technical Data (measuring method: PDA)**

| | | |
|---|---|---|
| Pressure (water) | bar | - |
| Liquid flow (water) | l/min | 0.040 |
| Pressure (air) | bar | - |
| Relation air : water | $m^3/h$ i.N. | - |
| Height: | - | - |
| Altura | mm | - |
| Sauter $D_{32}$ | µm | 35,8 |
| $DV_{10}$ | µm | 23,0 |
| $DV_{50}$ | µm | 40,0 |
| $DV_{90}$ | µm | 59,0 |

*MND = NMD (number median diameter). Half of the droplet quantity is smaller , half is bigger than 19 µm.*

## Droplet spectrum

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| Pressure (water) | bar | - |
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| Relation air : water | $m^3/h$ i.N. | - |
| Height: | - | - |
| Altura | mm | - |
| Sauter $D_{32}$ | µm | 35,8 |
| $DV_{10}$ | µm | 23,0 |
| $DV_{50}$ | µm | 40,0 |
| $DV_{90}$ | µm | 59,0 |

*DV50 = MVD (Median volumetric diameter) = VMD (volume median diameter)*
*Half of the delivered liquid volume consists of droplets larger or smaller than 40µm.*

*DV10 = DV0,1 = 10% VD. Ten percent volumetric droplet diameter (volume median 10%). 10% of the delivered liquid volume consists of droplets with a diameter smaller than 23 µm.*

*DV90 = DV0,1 = 90% VD. Ninety percent volumetric droplet diameter (volume median 90%). 90% of the liquid volume consists of droplets with a diameter smaller than 59 µm.*