



BTS Resonator atomiser



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Besteman Techno Support

BTS Resonator atomiser



- ✓ The finest spray at maximum capacity
- ✓ Minimum compressed air

The droplet size depends on the volume of liquid per hour. At 4.5 bar, resonator atomisers produce a maximum volume of water droplets of 1 to 8 microns. When atomising other liquids, the spray may be much finer when using this atomiser. The number of active ingredient particles per square metre will then be higher, allowing the spray to be more easily/quickly absorbed by the product. Research has shown that a high intensity fine spray ensures much greater effect of the ingredients atomised.

Data:

Atomiser air use:	60a 70 L/min at 5 Bar
Working pressure:	Between 4 and 5 Bar
Suctioning hose:	3.5 m 6x4 mm PE hose with internal restriction
Suctioning hose with:	INOX nut M12 (counterweight) with silicon hose
Atomiser material:	INOX 316
Liquid connector:	INOX 316
Mounting:	Mounting bracket
Air connector:	Coated nickel-plated brass air connector 8x6 mm
Atomiser mounting:	0.6 to 2.5 m.
Art no:	2221071
Flow rate:	+/-2 L/hour at atomiser height 2.5 m
Flow rate:	+/-3 L/hour at atomiser height 1.5 m
Droplet size max. vol:	0- ≤ 8 microns

Warning:

For a better disinfection, make sure that the ventilation must always be switched on while atomising disinfectant in the disinfectant/hatch cell.

Important:

- Fit the atomiser as shown in the photo, with the Resonator pointing upward. (FIG 1.3)
Droplets may otherwise come only from the Resonator arch or from the atomiser.
- 1/8" Liquid connector is on the side of the atomiser.
- 1/8" Air connector is on the rear of the atomiser.
- Working pressure flow and atomiser height are given on the sticker on the atomiser.
- Check the resonator before use and regularly during use.
- Adjust the compressed air/liquid flow accurately.
- The air mixer ventilator must always be switched on during atomisation in the hatch cell.
- De-clogging or cleaning is carried out by holding a plastic card (bank card) between the atomiser and resonator for 1 second and pressing it lightly against the atomiser. Repeat this a number of times if necessary.

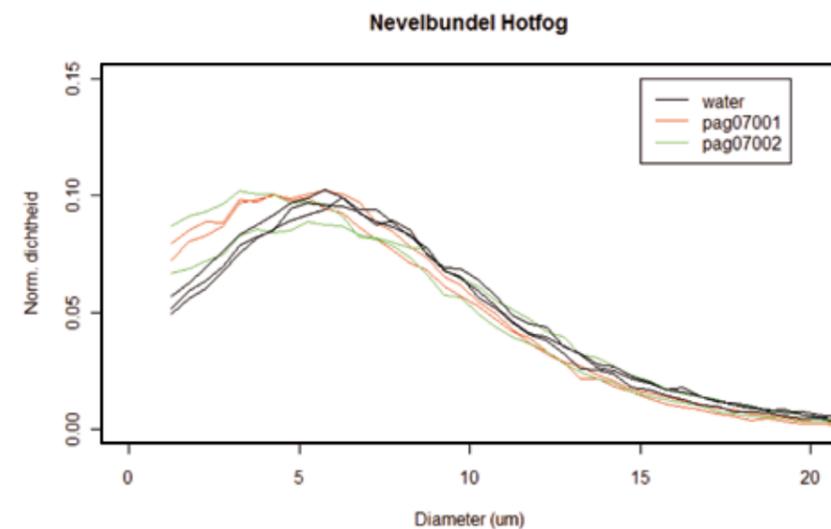
The flow can be controlled by adjusting:

- The atomiser reaction at a pressure of 4 to 5 bar.
- The speed of an air bubble in the liquid suctioning hose (7 seconds for 20 cm = 1.5 litres per hour).
- The height of the atomiser in relation to the liquid tank (2.5 m maximum)
- The length of the internal and external liquid suctioning hoses.

The air pressure is set using a pressure-reducing valve.

Air use per atomiser is approx. 60 L. per minute at 4.5 bar.

When supported by a ventilator, the spray is distributed more effectively over the surface area.



Conclusion based on above droplet spectrum measurement with water:

The Resonator atomiser with a spray capacity of 3 litres per hour still produces a very fine spray.

Safety Instructions

- Follow the application guidelines of the producer or supplier of the active ingredients and atomising liquids.
- Always wear protective clothing on location when the atomising is in process.
- Follow the directions of the supplier of the disinfectant.
- Do not inhale the mist.
- Beware of absorption of the product through the mucous membranes of the airways.
The risk of absorption through skin is also present. This may cause very serious poisoning!

