

Besteman Techno Support

'technique solution for hatching egg disinfection (entry)

Choosing the right droplet size, is choosing the right fogger!

Small enough to leave the eggs dry but big enough to make enough contact to disinfect!

BTS Resonator atomiser

- **Droplet size** : 0-8 μm
- **Fogger** : venturi + compressed air (4,5-5bar)
- **Hygienic** : NO MOBILE UNITS! No electrical wires on the floor!
- **Practical** : small RVS nozzles, easily fixed on ceiling or wall of the disinfection room.
- **Flexible** : Multiple nozzles depending on the room size (m^3)
- **Automatization** : Safe and userfriendly, START – STOP – VENTILATE – ENTER

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- o Droplet size : 0-8 μm
- o Fogger : venturi + compressed air (3-5bar)
- o Hygienic : NO MOBILE UNITS! No electrical wires on the floor!
- o Practical : small RVS nozzles, easily fixed on ceiling or wall of the disinfection room.
- o Flexible : Multiple nozzles depending on the room size (m^3)
- o Automatization : Safe and userfriendly, START – STOP – VENTILATE – ENTER

- o Material : 100% RVS
- o Air consumption : 60L / min (5bar)
- o Capacity : $\pm 2,5\text{L}$ / hour
- o Droplet size : 1-8 μm



- o SELF-ASPIRATING
- o Air pressure : 4,5 bar

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- 1 fumigating nozzle (volume room ~ 30m³)



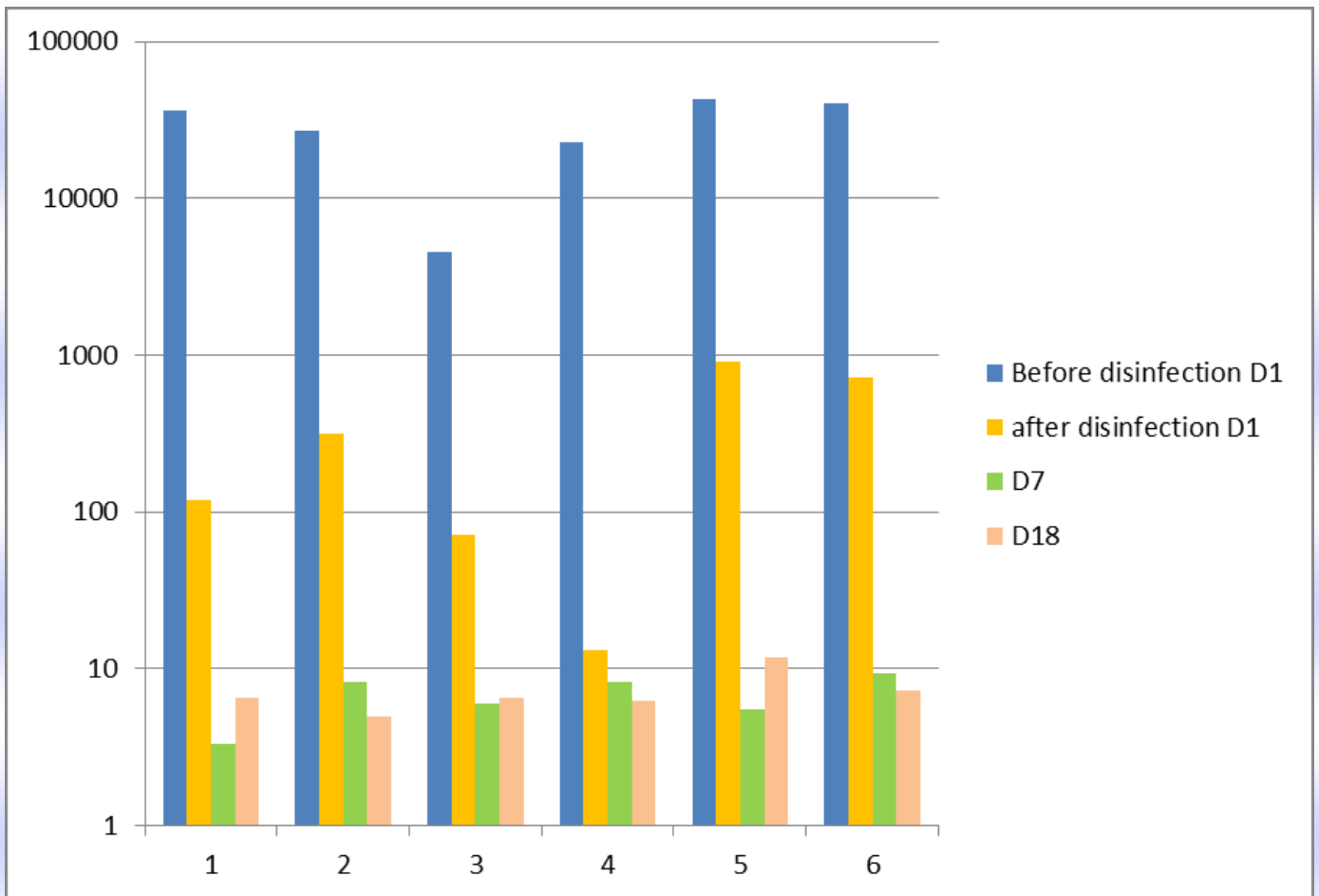
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- Multi-set installation ; 3 fumigating nozzles



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•Swabbing on D1_D7 & D18



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' spray solution for hatching egg disinfection (entry)

Data sprayer no:

Air use is approx.	: 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 or 6x4mm
Atomizer mounting	: 0.6 to 2.5 m.
Art no	: 2221071
Flow rate	: +/-2 L/hour at atomizer height 2.5 m
Flow rate	: +/-3 L/hour at atomizer height 1.5 m
Droplet size max. vol.	: 0 - ≤ 8 microns

Important:

Ventilation must always be switched on while atomising disinfectant in the disinfectant/hatch cell.

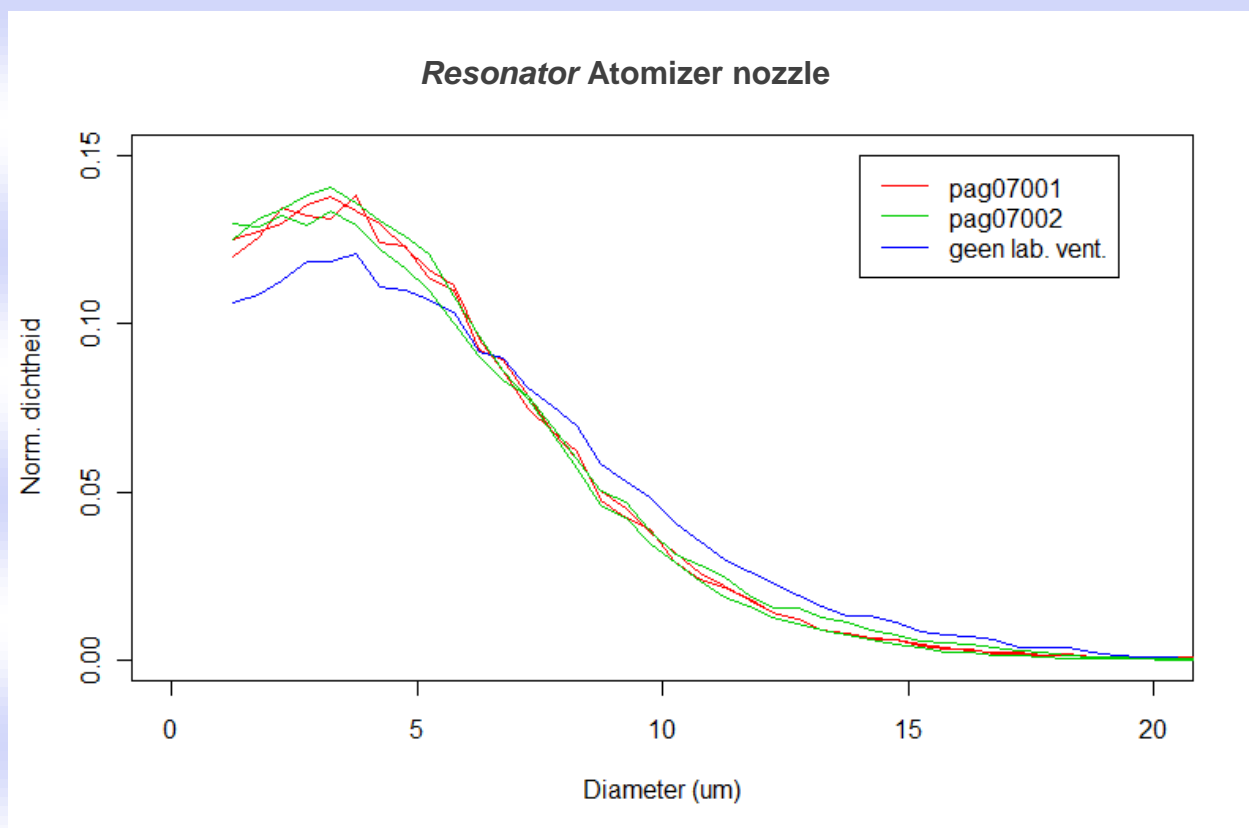
Points of attention for Resonator atomizer:

- 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.

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The flow can be controlled with:

- 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 level (2.5 mtr maximum)
- the length of the internal and external liquid suctioning hoses.



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

Conclusion based on above droplet spectrum measurement with water and liquid:

The Resonator atomiser with a spray capacity of 2 litres per hour still produces a very fine spray.

Protection of the building and user

Follow the application guidelines of the producer or supplier of the used active ingredients and atomising liquids.

Wear protective clothing in the location where atomising will take place when atomising as recommended by the supplier. In addition to absorption of the crop protection product through the mucous membranes of the airways, the risk of absorption through skin is also present. This may cause very serious cases of poisoning!

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