



**G.B.C. funghi**

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Montescudo, 09/09/2017

Subject: report on the use of Met's Ozone Generator

Hereby I describe my experience with the use of Met's Ozone Generator, used in my agricultural holding engaged in cultivation of mushrooms.

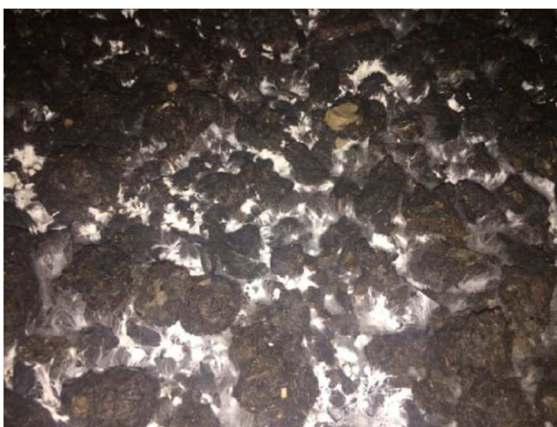
The technicians installed it on 03/07/2017 and on the same day I started using it. The equipment is small so there are no problems with space.

After adjusting the equipment according to our needs, we setted the ozone percentage on 40% so in particularity we obtained 4.50/4.80ppm.

To start, we choose to use only one sprinkler bar of the twelve present. We made that choice because we could not know how mushrooms could react to ozonized water, so in a 12 floors room we treated only one floor. Later we integrated the other sprinkler bars.



Initially we watered mushrooms already born (third growth cycle), and we seen that they were growing up brown in color in the section not watered.



Given that we decided to change the watering, we used ozonized water only at the beginning of room's cycle, so before the birth of mushrooms. For comparison of the results we watered the rooms on the right side with ozonized water with percentage of 3,80 ppm, and the other side continuing with our usual method, the active substance prochloraz.

Following a daily control we didn't see great differences between room's parts, as you can see in the photo the growth of mushroom mycelia was regular.



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We found difference in mushrooms birth timing, because in the right side (treated with ozonized water) the mushrooms cycle was half-day anticipated, compared to the other side treated with proclorax.



Mushrooms growth in the right side of the photo is more advanced than the left side.

This advance growth, I think was happened because we didn't use proclorax. In the next few days the part treated with ozone has produced an higher small percentage of mushrooms than the other one. After test I noticed that ozone treatment not interfere with natural growth of mushroom mycelia.

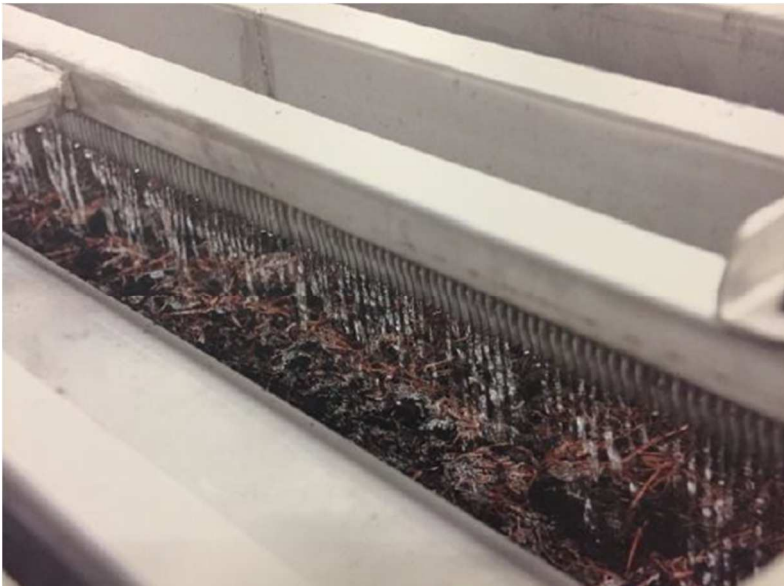
Since the satisfaction, from the successive cycle I decided to fully exploit the equipment with a maximum output of ozonized water at 2.24ppm. In this specific case I used ozonized water only in the last 3 liters/m<sup>2</sup> anticipating the first growth cycle. In the successive rooms I gradually increased up to the last 6 liters.

In order to complete the testing I tried to use ozonized water at 4.2ppm at the time of loading with the first liters. In this case I used a watering method different from the previous.



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As you can see in the photo the watering happened directly on the loading machine. By doing so, peat goes to room's bed already disinfected.

At the end of my experiment lasted 6 months, from March to August, I have found that the Ozone Generator is an excellent alternative to other chemicals treatments. During these months without using active substance procloraz, I didn't found relevant diseases in my production. Following my experience, I bought an equipment with 4 generators (instead of the

equipment tested which have 2 generators) because is more powerful and allows to use an ozone percentage exceed 2.24ppm which is guaranteed by the equipment with 2 generators when all the 12 sprinkler bars are in operation.

The most good thing that I noticed is in the general sanitization of the mushroom growing rooms.

In fact, I advise the use of ozonized water not only on the cultivation bed, but also in all the internal and external company rooms and on all the machines at the time of washing.

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