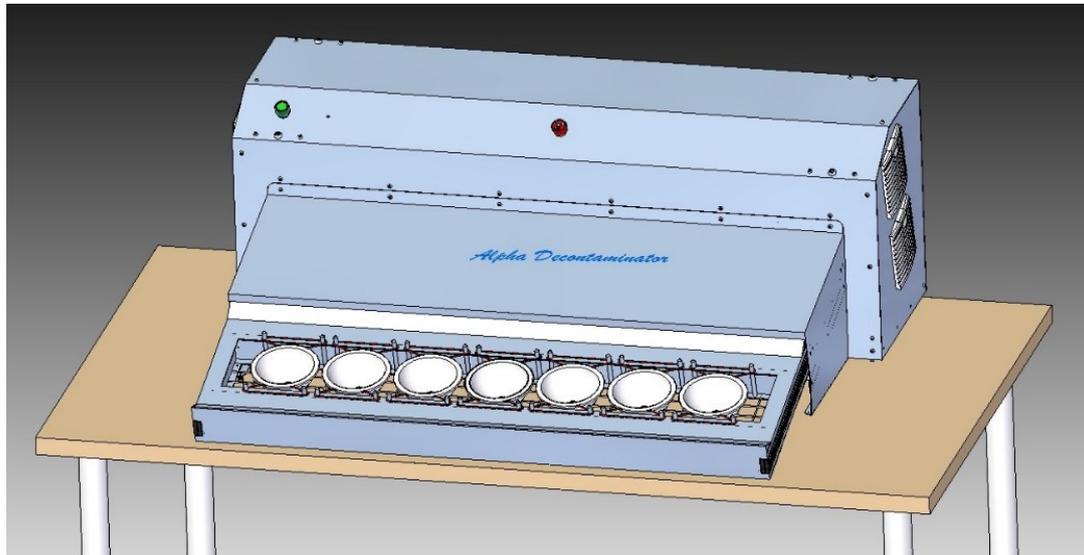


MASKS “ALPHA DECONTAMINATOR” BY INTENSE UV-C RADIATIONS



RAPID - EASY - SAFE

The Covid-19 “Alpha Decontaminator” is dedicated to the decontamination of protection masks on the workplace of medical staff and care givers, offering them a constant access to the machine they can easily and rapidly use by themselves.

RAPID

Each mask owner comes one by one to the machine and hangs in turn his/her own mask on one of the 7 places in the drawer of the decontaminator: this requests about 1 minute.

The last person presses the electric green button: the drawer closes automatically.

During the 1.5 minutes of the decontamination process, all 7 persons have time enough to remove their glosses, wash hands and return to the machine.

In the meantime, the decontamination is finished and the drawer opens automatically with the decontaminated masks.

Everyone recovers his/her own mask, with clean hands and maintaining the security distance. This requests about 1 minute.

Total handling and process request in total 3.5 minutes for the complete operation (= 2 masks/min). A new run can start with the following group of 7 persons. If a group is smaller than 7 users, the machine can run partially loaded.

TO NOTE:

- all parts of the drawer have also been decontaminated by the UV-C radiations
- the green button remains potentially contaminated but is only used once to start each decontamination process.
- Using the masks 5 times reduce drastically waste, it more ecological
- A decontaminated mask is a standard waste, no biological waste any more

EASY

Each mask owner has to hang his/her mask on 4 pins and stretch it to open it for an optimal irradiation. After hands washing, each mask owner recovers his/her own mask.

By rest houses, also visitors will get the chance to decontaminate their mask at the entrance to protect their parents and care givers.

SAFE

UV-C radiations are dangerous for eyes and skin: the double tunnel system prevents any radiation loss (patented system) at opening and closing of the machine drawer.

UV-C lamps are continuously switched on to guarantee an optimum radiation: lamps continuously switched on and off could not light on from time to time and could miss total decontamination.

VALIDATION

The biological validation of the decontamination is VDMA compliant (German Mechanical Engineering Industry Association). The tests are achieved by a registered lab, specialized in the control and qualification of controlled environments: validating the effectiveness of decontamination, disinfection and sterilization equipment (autoclaves, washer-disinfectors, waste sorting systems, DSV processes, sterilization and disinfection cycles, etc.). All points of the validation are recognized by European agreements.

A NICE PEOPLE STORY

Five weeks ago, two Belgian Engineers decided to fight their own way against the Covid-19: develop and produce on personal investment a mask decontaminator.

They contacted a metal factory to produce the machine and the owner proposed them to participate to the project by offering the work on the prototype.

Furthermore, the patent office offered to work at a compressed price.

A lot of friends involved themselves in market analysis, establishing contacts and developing communication supports.

This united and enthusiastic collaboration led to the machine we are presenting today.

MACHINE AVAILABILITY

The “Alpha decontaminator” is for sale starting 25th of May our line of production can deliver around 10 units weekly. Contact us for quotation and delivery time on lpm@bioneering.eu .

A bigger version for large hospitals is being developed. A productivity of 500 masks/hour is estimated.



Louis-Philippe Mascart +32 486 18 36 06

Innovatie en Incubatie Centrum van Gent Universiteit

Technologiepark 82 B-9052 Zwijnaarde +32 9 220 31 20

Siège d'exploitation : Centre d'Entreprise et d'Innovation Louvain

Chemin du Cyclotron 6 B-1348 Louvain-La-Neuve

lpm@bioneering.eu www.bioneering.eu