

STERØMASK

DISINFECTION DEVICE BY UV-C FOR FACE PROTECTION AND SURGICAL MASKS



- ✓ **Germicidal efficiency proven in laboratory**
 - **99,99%** inactivation of **viruses** ^{(1) (2)}
(including **Sars-CoV-2 of COVID-19**)
 - **99,99%** inactivation of **bacteria** ⁽³⁾
- ✓ **Guarantees a complete** in-depth disinfection
 - Disinfect the mask's surface **AND** internal layers
- ✓ **Ultra fast** disinfection
 - Surgical masks : 1 minute *
 - FFP2 masks : 3 minutes *
- ✓ **Easy to use in complete autonomy**
 - Automated processing and continuous control of UV-C dose

Process & performances

- ▶ Masks are exposed to UV-C radiation generated by low pressure lamps.
- ▶ In-depth disinfection against all common viruses (including **Sars-CoV-2 of COVID-19**), bacterial spores and microorganisms.
- ▶ Performances according to the principles of the NF EN ISO 14937-2009 standard.
- ▶ Disinfection repeated as much as needed. The number of re-use is determined by the filtration and breathability performances of the mask, and not by the number of disinfection cycles.
- ▶ Disinfection by the user herself/himself without collection circuit.

Short processing time

- ▶ Viral and bacteriological disinfection in **1 minute** for a surgical mask *.
- ▶ Viral and bacteriological disinfection in **3 minutes** for a FFP2 mask *.

Easy to use

- ▶ Fitted with a patented support specifically designed for an optimal positioning of the mask.
- ▶ Suitable for the geometry of each type of masks.
- ▶ Ensures a homogeneous illumination of the entire surface of the masks (interior and exterior) for maximal efficiency.
- ▶ Ensures precise and reproducible positioning in height, width and depth.
- ▶ Ensures adequate tension of the mask surface.
- ▶ Minimizes the size of contact points with elastics.
- ▶ Eliminates any creases for the FFP2 mask and minimizes creases for the surgical mask.

Performances qualification by an independent accredited laboratory ⁽⁴⁾ :

- ▶ Disinfecting efficiency on FFP2 and surgical masks validated by an independent accredited laboratory following the principles of the standard NF EN ISO 14937-2009 ⁽³⁾⁽⁵⁾.
- ▶ Breathability and filtration performances of the FFP2 and surgical masks after 4 cycles of 4 hours of mask's use followed each by a disinfection in accordance with NF EN 14683+AC-2019 and NF EN 149+A1-2009 standards ⁽³⁾⁽⁶⁾⁽⁷⁾⁽⁸⁾⁽⁹⁾.

* Estimated times

Benefits



Safe

Disinfection done in complete safety
(without exposure to the UV)

Process without chemicals
(no risk related to hazardous material transport, storage and handling)

Residues and wastes free



Practical

Disinfection done by the user
The masks stays tightly fit
(no leaks on the sides)

No need for masks collection



Economical

Quick and simple installation
without cost

Limited operating costs
(low electrical consumption and lamps replacement)

Technical specifications

- Material : stainless steel – interior covered in polished aluminium
- Dimensions : L=510mm x D=425mm x H=375mm
- Power of disinfection : 33 W
(generated by 6 x 18 W UV-C low pressure lamps)
- UV wavelength range : 254 nm
- Nominal voltage : 220 V / 50 Hz
- Weight : about 15 kg
- Viral and bacteriological disinfection cycle : 1 mn for a surgical mask and 3 mn for a FFP2 type mask (estimated times depending on the model)



User must perform a fit test after each disinfection cycle to check the correct tightness of her/his mask. Steromask is not a medical device within the meaning of the UE/2017/745 regulation.

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- (1) Tests on coronavirus PEDV and IBV : Dr Blanchard Yannick, Dr Grasland Béatrice, Dr Eterradosi Nicolas. Inactivation de coronavirus porcin et aviaire sur masques chirurgicaux et FFP2, Unité GVB et VIPAC, 20 April 2020, ANSES Ploufragan, 10 p.
- (2) Tests on SARS-COV2 : Françoise Raynaud, Cécile Bouvattier, Laurent Taysse. Report RP/20-2822 DGA MNRBC/1801930/version 1, 30 April 2020, DGA Maîtrise NRBC Vert Le Petit, 7 p.
- (3) Tests on the bacillus subtilis/atrophaeus : Christian Poinot. Report 03851Y- 13N, 14N, 15N, 16N, 17N, 18N du 01/05/2020, laboratoire ICARE Saint-Beauzire, 47 p.
- (4) Accredited Independent Pharmaceutical Laboratory ICARE, Saint-Beauzire, France.
- (5) Annex A of the standard NF EN ISO 14937_12-2009 : « Stérilisation des produits de santé – Exigences générales pour la caractérisation d'un agent stérilisant et pour la mise au point, la validation et la vérification de routine d'un processus de stérilisation pour dispositifs médicaux »
- (6) Standard NF EN 14683+AC_08-2019 : « Masques à usage médical, exigences et méthodes d'essais »
- (7) Standard NF EN 149+A1_09-2009 : « Appareils de protection respiratoire – Demi-masques filtrants contre les particules – Exigences, essais, marquage »
- (8) Certificate of performance qualification for surgical masks for a reuse of 4 cycles of 4h of wear (one working day) issued by the accredited independent laboratory ICARE, Saint-Beauzire, France
- (9) Certificate of performance qualification for surgical masks for a reuse of 4 cycles of 4h of wear (one working day) délivrée par le laboratoire pharmaceutique agréé ICARE, Saint-Beauzire, France

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Creative engineering