

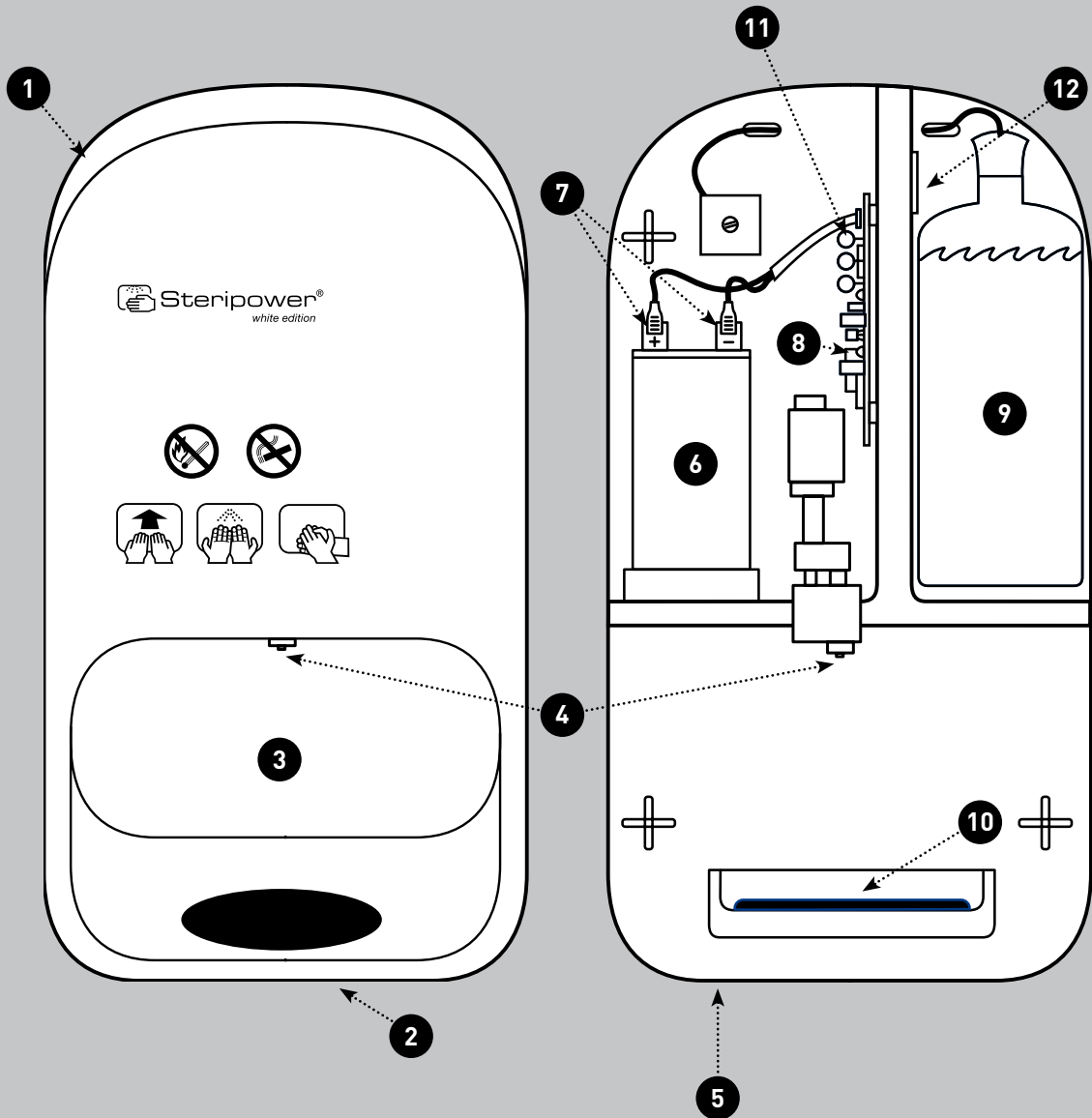
STERIPOWER

stainless steel edition /
white edition

BEDIENUNGSANLEITUNG
OPERATING INSTRUCTIONS
MANUAL DE INSTRUCCIONES
INDICAZIONE PER L'USO
MODE D'EMPLOI



Steripower®



OVERVIEW & DESCRIPTION

Description of components*:

- 1 External housing

- 2 Latch for housing opening

- 3 Disinfection area

- 4 Spray container

- 5 Connector socket for charger

- 6 Rechargeable battery / battery

- 7 Connector for rechargeable battery / battery (+/-)

- 8 PCB

- 9 Liquid container

- 10 Collecting dish

- 11 LED indicator

- 12 Service sticker

*The technical diagram displaying components is located inside the cover.

INTRODUCTION

This manual provides the owner and operator with a specific set of instructions for installing, using and maintaining the disinfection unit. Please read the following instructions carefully before unpacking the unit as they help improve

the unit's reliability and performance. The installation site should be chosen and setup and installation should be performed by qualified personnel.

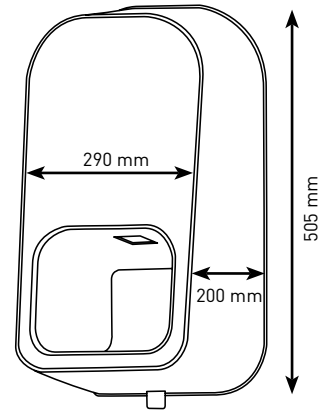
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TRANSPORT

Use the original packaging to transport the system, and observe the international information and safety symbols on the packaging during transport and storage.

- ⚠ Place box / unit this way up only!
- ⚠ Fragile, protect from damage!
- ⚠ Keep dry!
- ⚠ Do not stack packages higher than specified!



DIMENSIONS

Package size:

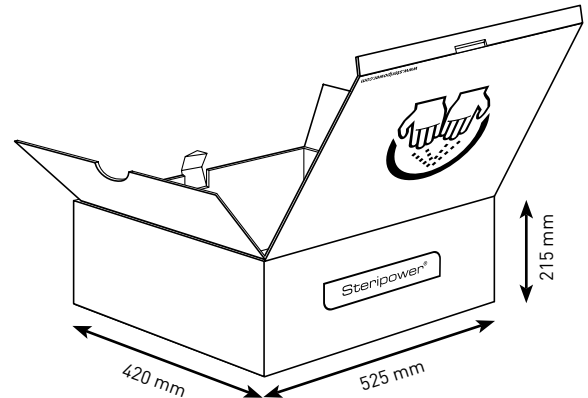
height 215 mm x width 420 mm x length 525 mm

Unit dimensions (approximately):

height 505 mm x width 290 mm x depth 200 mm

STORAGE

Temperature: -15°C to +40°C



SAFETY REGULATIONS

Steripower® is an easy-to-use unit that does not require any special safety regulations.

Before starting up the unit, note the following:

- Read the manual thoroughly before starting up the unit.
- The unit must be installed by in-house technicians, qualified personnel, or by a customer or operator with appropriate specialist skills.
- Personnel must be familiar with the performance and features of the unit.
- Only the specified, tested disinfectants may be used.
- General hygiene regulations must be observed.
- Any modifications performed on the unit render the guarantee void.
- Notices on the unit that have been rendered illegible should be reordered and replaced immediately.
- The unit may not be used while charging.

DESCRIPTION

Steripower®, the automatic, touchless, disinfection and hand cleaning unit consists of two main plastic components.

- **Front cover:**

With a window and collecting dish with medical pad

- **Backplane:**

With integrated technology and space for a liquid container

TECHNICAL DATA

• Operating voltage:	12 V
• Spray pump motor:	12 V
• Maximum output:	12 watt
• Average spray performance:	0,5 - 5,0 ml
• Liquid containers:	bis 1000 ml
• Dimensions:	505 x 290 x 200 mm
• Weight:	5 kg

SCOPE OF DELIVERY AND ACCESSORIES

1x	Charger	1 pack	Screws and wall plugs
1x	Collecting dish	1 pack	Medical pads
1x	Installation and operating instructions		
1x	Drilling template		
1 set	Protective caps for rechargeable battery / battery		

Optional accessories:

remote control counter (page 07)

UNPACKING

Before unpacking, check the packaging for any transport damage. Remove the unit, drilling template, screws, wall plugs and charger from the box.

INSTALLATION

- 1. Remove the front cover:**
Pull the latch on the underside of the unit. (see page 01 / item 2)
- 2. Remove the inner cover:** In the window, use your index finger to gently pull the cover while at the same time drawing it forward.
- 3. Install the backplane:** Use the drilling template to screw the backplane to the wall. Check that the installation surface is even.
- 4. Charging:** Connect the charger to the charging socket (underside of the unit on the left). (see page 01 / item 5) **Charging takes about 14 hours.**
- 5. Battery connection:** The battery can only be charged when the cables are correctly attached to the battery (see page 01 / item 7). Observe the insulated protective caps.

Important: The rechargeable battery is not completely loaded and must be fully charged before startup



- 6. Quantity setting:** The liquid spray is regulated by a button. The ex works setting is 1.5 ml. Every time you press the button the LED lights up red. **The button is located on the PCB (see page 13 / item C).**

Setting levels:

The red LED flashes:

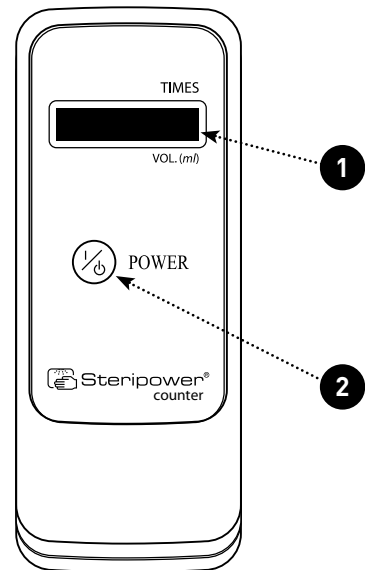
1x = 0.5 ml	6x = 3.0 ml
2x = 1.0 ml	7x = 3.5 ml
3x = 1.5 ml	8x = 4.0 ml
4x = 2.0 ml	9x = 4.5 ml
5x = 2.5 ml	10x = 5.0 ml

If the quantity of liquid is too great or too little, you can fine tune the amount using a watchmaker's screwdriver (turn to the right or left). (see page 13 / item L)

INSTALLATION

7. **Medical pad** (optional): Absorbs residual liquid and vapor from all types of disinfectants.
8. **Check the LED display:** (see page 01/item 11)
 - **LED flashes green at 2-second intervals:**
The unit is operational!
 - **LED flashes red rapidly:**
Rechargeable battery needs charging!
9. **Replace the rechargeable battery:** Contact qualified personnel to recharge or replace the battery, or follow the instructions. Note: The protective battery caps are intended to prevent short circuiting!
10. **Close the unit:** Insert the upper section of the front cover and press down on the lower section until it snaps into place. Check that the unit is working.
11. **Counter** (optional): The counter reads and displays the number of previous spray applications and the specified spray quantity (in **ml**) on a digital display **(1)**. To do this, point the remote control at the unit **(LEDs)**

and hold down the power button **(2)**. The display automatically switches between the indicator for ml and for the number of previous spray applications.



AREAS OF APPLICATION

The Steripower® automatic spray unit has been specifically designed for conventional hand hygiene and ensures that hands are disinfected as quickly and effectively as possible. It can be deployed in hospitals, operating theaters, doctor's surgeries, nursing homes, laboratories, the food and pharmaceuticals industries as well as in hotels and restaurants.

OPERATING THE UNIT

- Without touching the unit, insert your hands into the spray channel with your palms facing upwards.
- Bend your finger tips upwards.
- A sensor ensures that your hands are automatically sprayed with disinfectant.
- The quantity of spray can be adjusted as necessary (see page 6 / item 6)
- Remove your hands from the unit and rub them to ensure that pathogens are eliminated as effectively as possible.



SPRAYING AND APPLICATION TIMES

Recommended quantity of spray in ml and application times in minutes (min):

- Hygienic hand disinfection: At least: **3 ml** (quantity) / **0.5 min** (application time)
- Surgical hand disinfection: At least: **5 ml** (quantity) / **1 min** (application time)

Hands must be sprayed and kept moist for the application times specified for the relevant alcohol-based hand disinfectant. The manufacturer's specifications must be observed!

The quantity of spray can be adjusted from 0.5 ml to 5 ml in steps of 0.5 ml (see page 6 / item 6).

DISINFECTING HANDS WHEN DEALING WITH FOOD

Hands are disinfected to prevent germs of any kind contaminating foodstuffs.

Hands should be disinfected to prevent germ contamination after eating, using the toilet and switching between raw ingredients, such as chicken, vegetables or eggs.

Touching foodstuffs with disinfected hands does not adversely affect food. Conversely, hands that have not been disinfected may contaminate products with germs. Germs reproduce extremely quickly (cells division every 20 minutes)!

CHANGING THE LIQUID CONTAINER

- Pull the latch on the underside of the cover.
- Remove the front cover.
- Remove the suction line and stopper from the empty liquid container and replace with an appropriately sized container.
- Insert the suction line and stopper into the full container and gently press the stopper down.
- If the new container is a different size, push the stopper on the suction line up or down.
- Always cover the liquid container to prevent liquid from escaping.
- Insert the upper section of the front cover and press down the lower section until it snaps into place.
- Check that the unit is working.

SPECIFIC INFORMATION

If the unit has not been used for a longer period of time, rinse it several times with pure alcohol before use to remove any deposits.

GENERAL INFORMATION

- If the unit is frequently used, we recommend changing the medical pad in the collecting dish. This eliminates the risk of ignition as well as the need to remove residual liquid or ventilate the room after an excessive dose and frequent use.
- Smoking is not permitted during use!
- If used correctly with the approved compounds, the unit poses a minimum fire or explosion hazard.

DISINFECTANT

Optimum results are achieved with alcohols (ethanol, isopropanol, n-propanol) in a +/- 70% alcohol-based disinfectant. In other words, all standard, approved alcohol-based hand disinfectants, such as Ester / Sterillium / pure Sterillium / Amphisept / Desderman / Desderman - N / Desmunol / AHD 2000 / Descoderm / Spitacid / Manorapid ready for use.

MAINTENANCE & CARE

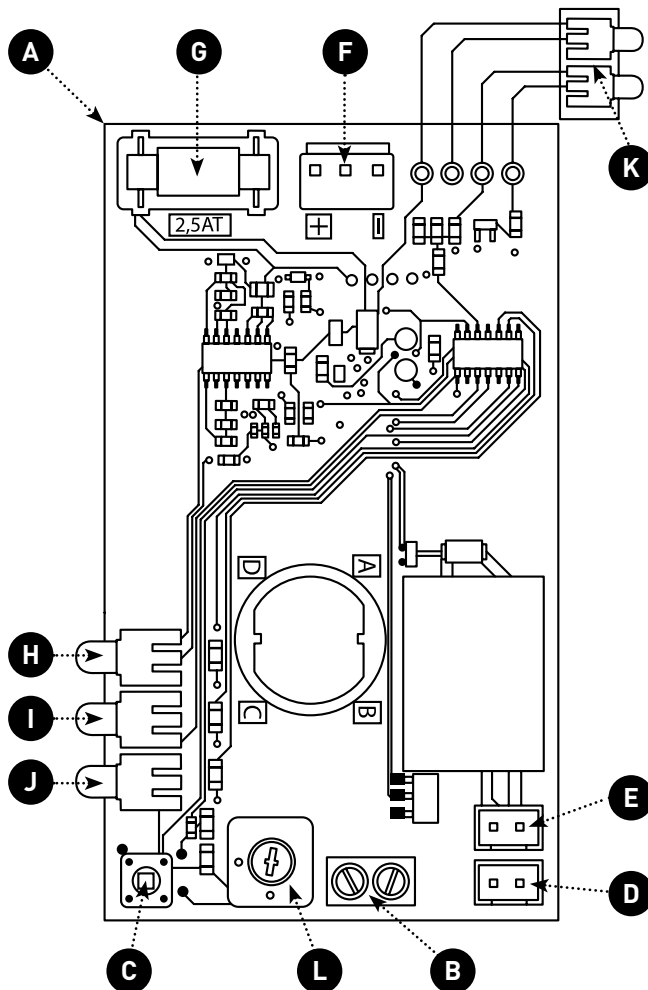
The technical or electronic part of the unit should only be serviced by qualified personnel or in-house technicians. Only use original spare parts. Do not modify the unit without consulting the manufacturer.

- Keep the unit clean. Use a soft cloth and non-aggressive detergent to clean the unit.
- Do not spray with water and do not use compressed air or solvents to remove dirt or residue.
- Only use the disinfectants and detergents specified by the manufacturer. The manufacturer/supplier of the unit accepts no liability if other products are used.
- If the unit has not been used for a longer period of time, rinse the system several times with pure alcohol before use to remove any deposits.

ELECTRONIC SYSTEM

List of components:

- A PCB (electronics)
- B Connections for door opener
- C Button for regulating the quantity of liquid (0.5 - 5 ml)
- D Connector for pump motor
- E Connector for non-return valve
- F Connector for rechargeable battery (12 V - 7 Ah)
- G 2.5 A fuse (slow-blow)
- H Green LED (for operation)
- I Red LED (signal)
- J Blue LED (counter)
- K Sensor
- L Fine tuning



QUESTIONS & ANSWERS

Red LED indicator flashes. Unit is no longer working!

- Recharge or replace the rechargeable battery / battery.
- No LED display: The rechargeable battery / battery is flat; replace or recharge as necessary.
- The fuse (see page 13 / item G) on the PCB is faulty; replace with a 2.5 ampere T (slow-blow) fuse, where necessary.

No spray or spray is irregular!

- Check the amount of liquid in the container and refill where necessary.
- Check that the motor is running (pump motor unit).
- Check for presence of bubbles in tubes that transport liquid and make sure that the tubes are attached correctly.
- If none of these measures are successful, notify Service (see the Service sticker on page 1 / item 12)
- The red nozzle on the pump is clogged. Push the pump up from below. Unscrew the red nozzle and use a fine needle to clean the small hole at the spray opening. Screw the red nozzle back on and reset the right spray jet by twisting the nozzle between the open or closed position. Place the pump back in the holder.

Too much or too little liquid (in ml) is dispensed!

- Use button C to regulate the spraying time and amount of spray. (see page 13 / item C)

QUESTIONS & ANSWERS

Ways of powering the unit!

- The unit is run on a rechargeable battery
- The unit can be run on a rechargeable battery with the charger plugged in to the mains. The rechargeable battery will continue to power the unit even in the event of a power failure.
- The unit can also be operated using an external power supply unit (available as an optional extra) without a rechargeable battery. **In this case the rechargeable battery must be removed otherwise it will overload and be destroyed.** Once this is done, attach the new power supply unit to the charger socket.
- The customer can purchase an addition replacement rechargeable battery including charging cable and can charge the battery in the office or a technician's room.

Recommendation: To avoid malfunctions, recharge the unit's rechargeable battery overnight once every 4 weeks!

The unit drips continuously!

- The valve needs to be replaced. Order a valve or notify Service (see the Service sticker on page 1 / item 12)

QUESTIONS & ANSWERS

Liquid running down the wall!

- The medical pad in the collecting tray is saturated and must be replaced.

Recommendation: Replace the pad after every 3 - 4 bottles.

Cannot charge the unit!

- The battery is fully charged if the indicator lamp on the charger continues to light up green after approximately 2 minutes.
- If none of the indicator lamps lights up, check the fuse on the PCB (see page 13 / item G)
- Check the contacts on the charger socket: If the contact pins bent, broken, oxidized or rusted, notify Service (see the Service sticker on page 1 / item 12)

NOTES

EG-Konformitätserklärung nach Artikel 10.1 der Richtlinie 89/336/EWG (EWG-Richtlinie)
EC-Declaration of Conformity acc. to Article 10.1 of the Directive 89/336/EEC (EMC-Directive)
Déclaration de conformité CEE selon l'article 10.1 de la directive 89/336/CEE (Directive EMC)

Steripower GmbH & Co. KG
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Name und Anschrift des Herstellers oder des in der EU niedergelassenen Inverkehrbringers
Name and address of the manufacturer or of the introducer of the product who is established in the EU
Nom et adresse du fabricant ou de la personne résidant dans la CEE qui introduit le sous-dit produit de la CEE



erklären in alleiniger Verantwortung, dass das Produkt
herewith take the sole responsibility to confirm that the product
soussignés déclarons de notre seule responsabilité que ce produit

Touchless Hand-Disinfection unit
Steripower® / white edition / stainless steel edition

Typenbezeichnung und ggf. Artikelnummer
Type designation and, if applicable, article no.
Type, nom et - si nécessaire - no d'article du produit

mit den folgenden Normen bzw. normativen Dokumenten übereinstimmt
is in accordance with the following standards or standardized documents
est conforme aux normes ou spécifications Européennes suivantes

1. EN 61 000-6-3:2001

EN 61 000-3-2:2000

EN 61 000-3-3:1995+A1:2001

2. EN 61 000-6-1:2001

Störaussendungen EMA (RF emission)

Oberschwingungen (harmonics)

Spannungsschwankungen (flicker)

Störfestigkeit (immunity)

Folgende Betriebsbedingungen und Einsatzvolumen sind vorauszusetzen
The following operating conditions and installation arrangements have to be presumed
Les conditions d'opération et d'installation suivantes sont à respecter

In normal operation mode, no battery charger is connected

Dieser Erklärung liegt zugrunde der Prüfbericht
This confirmation is based on testreport
Cette confirmation est basée sur report de test

21108246_001 TÜV Rheinland Product Safety GmbH, 51101 Köln, Allemagne

Name, Anschrift, Datum und Unterschrift des rechtsverbindlichen Verantwortlichen
name, address, date and legally binding signature of the person being responsible
Nom, adresse, date et signature de la personne responsable



Mr. Jan Rombach • 01.12.2003
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