

# Hy spray

HYMETEC



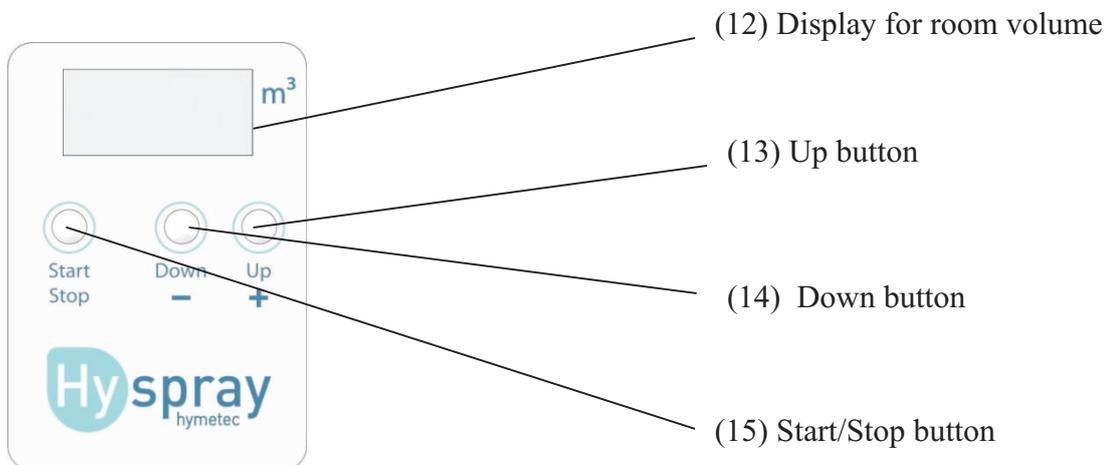
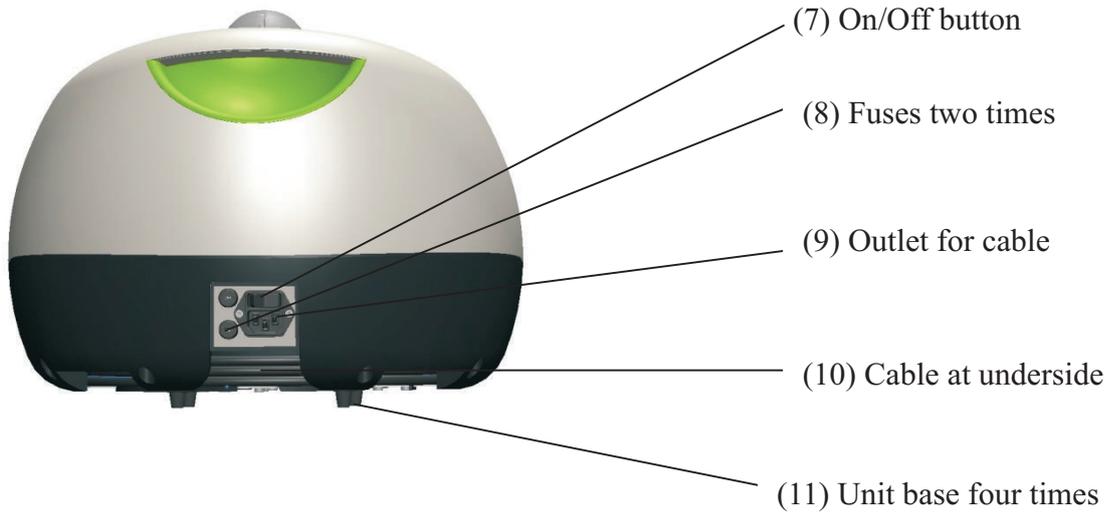
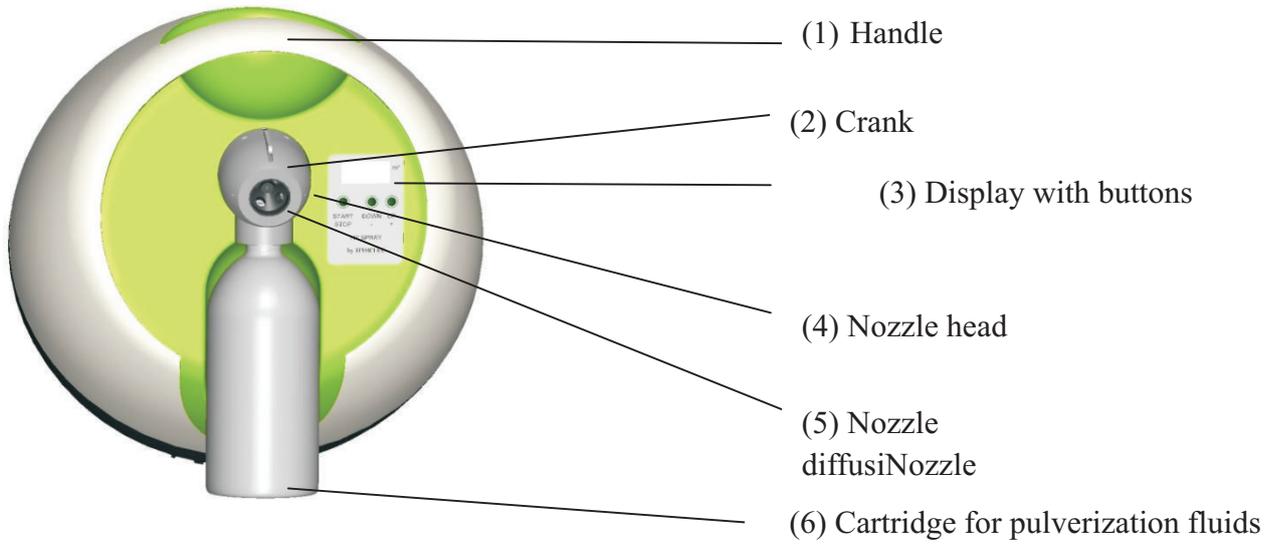
Hymetec commercializes and develops products as well as technologies which act effectively on any kind of infection with the aim of guaranteeing the best possible hygiene for everyone.

**Hyspray is a pulverizing appliance by air which disinfects rapidly rooms and surfaces**

## User's manual

**Read these instructions carefully before using the device**

# 1. Description



## 2. For your safety

Working safely with this machine is possible only when the operating and safety informations are read completely and the instructions contained herein are strictly followed.

### Universal safety instructions

Warning! Observe the following basic safety precautions when using electric devices in order to protect yourself against electric shock, danger of injury and fire.

Read and observe these rules before using the unit. Keep the safety instructions in a safe place.

- 1. Consider environmental influences**  
Do not expose electric tools to rain. Do not use electric tools in humid or wet environment. Provide good lighting. Do not use electric tools near flammable liquids or gases.
- 2. Keep work area clean**  
Cluttered areas invite injuries.
- 3. Guard against electric shock**  
Prevent body contact with grounded surfaces (e.g. pipes, radiators,..)
- 4. Keep children away!**  
Do not let visitors contact device or extension cord. All visitors should be kept away from work area.
- 5. Store idle devices**  
When not in use, tools should be stored in dry, high, or locked-up places, out of the reach of children.
- 6. Dress properly**  
Used properly dress (e.g. safety gloves, breathing mask and safety goggles in use with caustic fluids).
- 7. Don't abuse cord**  
Never carry tool by cord or pull it to disconnect it from receptacle. Keep cord from heat, oil and sharp edges.

8. **Inspect cord periodically**  
Inspect tool cords periodically and, if damaged, have it repaired by authorized service facility. Inspect extension cords periodically and replace if damaged. Keep handles dry, clean and free from oil and grease.
9. **Disconnect tools**  
When not in use, before servicing and when changing accessories.
10. **Avoid unintentional starting**  
Don't carry plugged-in device with finger on switch. Be sure switch is OFF when plugging in.
11. **Stay alert**  
Watch what you are doing. Use common sense. Do not operate tool when you are tired.
12. **Check damaged parts**  
Before further use of the device, a guard or a other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced by an authorized service center unless otherwise indicated elsewhere in this instruction manual. Have defective switches replaced by an authorized service center. Do not use tool if switch does not turn it on and off.
13. **Use attachment**  
The use of any other accessory or attachment other than recommended in this operating instruction may present a risk of personal injury.
14. **Have your tool repaired by an expert**  
This electric appliance is in accordance with the relevant safety rules repairing of electric appliances may be carried out only by experts otherwise it may cause considerable danger for the user.

## Special safety instructions for Hyspray device

15. Spraying material emerges from the nozzle under pressure.  
Warning:  
Do not aim the nozzle at human beings or animals.  
There is the danger of an acute cauterization of the eyes, the skin and unprotected parts of the body.  
Rinse during an eye or a skin injury parts of the body immediately concerned well with water and immediately a physician for fast, expert treatment visit.  
Inform the physician about the spraying material hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>)
16. With the disinfection equipment only a diluted, stabilized hydrogen peroxide solution (concentration 7%) can be used.
17. In business premises, which fall under the explosion protection regulation, the equipment cannot be used.
18. After the start of the equipment, humans and animals must leave the area immediately. The area is not to be entered during and a certain time after the spraying procedure.
19. When handling, filling, exchange of the cartridge with H<sub>2</sub>O<sub>2</sub> is to be carried suitable protective clothes (eye protector, if necessary protective mask, chemical gloves). The clothing should cover the whole body (for example: long pants and long shirts).
20. In handling with H<sub>2</sub>O<sub>2</sub>, the appropriate safety data sheets are to be considered!
21. The disinfection equipment can be only used with the accessories which are specified in the operating instruction.
22. The disinfection equipment may be operated only according to the algorithm described in the operating instructions, in order to avoid a danger for humans and animals. For example the respect of the space concentration of H<sub>2</sub>O<sub>2</sub>.
23. With damaged parts at the equipment it not be operated. There is otherwise a danger of a current impact. Pull power supply plugs out by work on the equipment.
24. The disinfection equipment may not be operated in wet and damp environments.
25. The equipment may not be used misused.
26. The disinfection equipment and its accessories, in particular the H<sub>2</sub>O<sub>2</sub> spraying material, are to be kept absolutely far away from children.

27. The equipment must not be opened.
28. Area between equipment feet must remain free, so that the cooling of the equipment can take place and can enough work.
29. Use only the included and provided power cord (10) for connecting with outlet.
30. By changing the fuses (8), use only the type advised under section 10 (Technical informations) from this user's manual.

### **3. Kit Contents**

- 1 Hyspray
- 1 power cord
- 1 user manual and warranty

### **4. Intended Use**

The Hyspray device is intended for use to disinfect rooms.

## 5. User guide

### **Warning! Sanitizing with Hyspray cannot be done in human and animal presence**

1. Place the Hyspray on a stable ground
2. Remove the nozzle head (4) by pressing on the crank (2) and screw on the cartridge (6) of the product (1 liter)
3. When handling products, always wear gloves and eye protector
4. Replace the nose (4) up to it engage in the device
5. Connect the equipment with the power cord (10) in the Outlet (9) and into an electrical outlet
6. Direct the nose (4) of the Hyspray towards the area to be treated
7. Press ON at the ON/OFF button (7)  
The display (3) shows a start value for a room volume of 50 m<sup>3</sup>
8. Select the volume of the room to be treated, with the U (13) or Down (14) key of the Hyspray. Brief touching of these keys increases the steps by 5 m<sup>3</sup> and long touching increases the steps higher. The value on the display (3) shows the adjusted room volume. (the adjusting range of room volume varies from 5 m<sup>3</sup> to 165 m<sup>3</sup>)
9. Press on the start button (15), an acoustic signal will be heard during 90 sec, giving you time to exit the room to be treated. The display (3) shows the count down from 90 seconds to 0 seconds.  
If needed, the countdown can be stopped with a touch on the Start button (15). A new countdown can be started with a repeated touch on the Start button (15). During the countdown, the acoustic signal increases in frequency after progressing time.
10. After the end of the countdown, the Hyspray starts the disinfection procedure (spraying). The display shows “Run” with a blinking signal and stops automatically after the time corresponding to the adjusted room volume. The display (3) shows “End”.
11. Wait for time of spraying (standard value is 12 minutes per 50 m<sup>3</sup>) and respect the recommended time until the H<sub>2</sub>O<sub>2</sub> concentration wears off, at least during 60 minutes.  
The H<sub>2</sub>O<sub>2</sub> concentration after disinfection depends from the ambient temperature, the room volume and the ventilation with fresh air. In case of doubt, it is advised to use a measuring instrument to plot the H<sub>2</sub>O<sub>2</sub> concentration.

12. A new start of Hyspray is possible after switch OFF and switch ON with the On/Off Button.
13. Press OFF the On/Off Button (7) to power off the appliance
14. Remove the cartridge (6) from the Hyspray for transportation. Look under point 2.

If a problem occurs, disconnect the Hyspray and contact your supplier.

## 6. Maintenance

- The device must be kept in a dry and clean place
- The device should not be exposed to temperatures below 10 °C or above 40 °C
- The appliance should be situated away from possible projections
- Control of the unit is advised after the 2 year warranty

## 7. Precaution for use

- **The manufacturer's responsibility could not be engaged in any case of material or physical incident due to a misuse of the appliance as indicated in the non restrictive list below.**
- **The warranty does not apply if the defect results from an operational intervention in the property without authorization, comes from normal wear and tear, negligence or lack of maintenance by the customer**
- Do not introduce any liquid or any object in the nose of the Hyspray whether the appliance is ON or OFF
- Do not immerse the appliance in liquid
- Check if the voltage indicated on the type plate corresponds to the local mains voltage before you connect the appliance
- Make sure that the voltage supply complies with the voltage of the Hyspray.
- The Hyspray disseminates H<sub>2</sub>O<sub>2</sub>, therefore it is necessary to pay attention to:
  - Not be present during the diffusion in the room
  - Not to smoke near the Hyspray
  - Not to turn it towards an incandescent zone
  - Not to use with a flammable and non-admitted product
  - Not to inhale the substance
  - Not spraying directly towards an object in the room, on which it could produce a wet area of H<sub>2</sub>O<sub>2</sub> (danger of material damages)

## 8. Emergency Stop

The Hyspray can be stopped at any time by pressing the On/Off button (7)

In case of failure in the power of the device, it stops and does not continue the disinfection and the display (3) shows “Error”

## 9. In case of breakdown

A) If the appliance does not start:

- Check if the device is connected

B) If the appliance does not use the product:

- Check if there is enough liquid in the bottle

- Check if the jet is not clogged

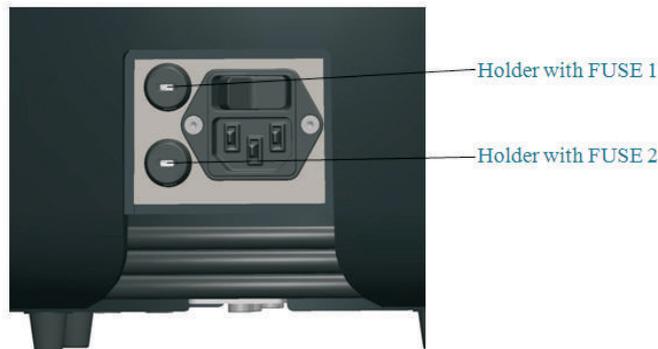
- Check if the bottle is well connected

If the problem is important, unplug the device and consult the dealer

## 10. Technical Data

Type	HySpray 115V	HySpray 230V
<b>Disinfect-method</b>	Pulverization	Pulverization
<b>Voltage</b>	115 V (AC), 50/60 Hz	230 V (AC) 50/60 Hz
<b>Power</b>	1300 W	1300 W
<b>Current</b>	11,5 A	6,0 A
<b>Mode of operation</b>	Continuous operation	Continuous operation
<b>Protection class</b>	I	I
<b>Degree of protection of enclosure</b>	IP20	IP20
<b>Fuses</b>	12,5 A slowly acting Type Schurter 0001.2515 IEC 60127-2; UL 248-14 Rated breaking capacity 500 A @ 125 V	8 A slowly-acting Type ESKA 522.700 Rated breaking capacity 1500 A@ AC 250V
<b>Room size for disinfection</b>	5m <sup>3</sup> up to 165 m <sup>3</sup>	5m <sup>3</sup> up to 165 m <sup>3</sup>
<b>Disinfection time</b>	Approximately 50 m <sup>3</sup> Per 11 minutes	Approximately 50 m <sup>3</sup> Per 11 minutes
<b>Ambient temperature</b>	10°C up to 40°C	10°C up to 40°C

## Changing the fuses:



1. Disconnect the Hyspray device from outlet resp. supply voltage!
2. Take a screwdriver and turn out the fuse holder.
3. Take out the damaged fuse.
4. Take in a functioning fuse in the holder. Type of fuse look under point (10)!
5. Turn in the fuse holder with a screwdriver up to mechanical stop.

## 11. Advantages

- Easy to use
- Rapid operational availability
- Quick and easy change of the product cartridge
- Well-shaped and user friendly design
- The product (H<sub>2</sub>O<sub>2</sub>) is ecologically friendly and 99.99% biodegradable
- Efficient disinfection method for a wide range of room volumes

## 12. Warranty and sale service

For any information about sale service and warranty, please contact the dealer

The warranty: 2 years (parts and labor) against manufacturing defect

The warranty cannot be applied if the defect results from an operational intervention in the property without authorization, comes from normal wear and tear, or negligence or lack of maintenance by the customer

The warranty cannot be applied if an abnormal corrosion is found on the unit because of use of other product not adapted to the device

## 13. CE Declaration of conformity

We declare under our sole responsibility that this product is in conformity with the following standards or standardization documents:

DIN EN 60601-1; IEC 601-1-2