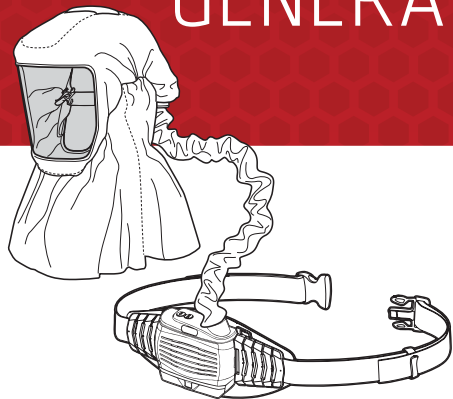


# CLEAR SHIELD HOOD PAPR UNIT

## GENERAL CLEANING GUIDELINES

K4886-1, K4886-3



### Maintenance and Storage

- Read and follow all steps set forth in the Clear Shield Hood PAPR Unit Operator's Manual.
- Replace damaged or dirty air filters. Filters cannot be washed or cleaned with compressed air. Never reuse a dirty air filter.
- Never use solvents or abrasive cleaning solutions to clean the respirator. Keep water and other fluids out of blower assembly.
- Maintain accurate records of filter replacement and respirator maintenance.
- Cleaning is recommended after each use.
- After the whole set of the product is completely dry, connect the hood with the blower unit, install the new filters or accessories, and store it in a disposable medical plastic bag.

### IMPORTANT NOTICE:

- Follow your facility's protocols for proper disposal of cleaning equipment and solutions.

### Recommended Disinfection Method

Sodium hypochlorite disinfection method (free chlorine concentration is 5000 ppm [0.5%]). This concentration standard is derived from the "Guidelines for Temporary Infection Control for Nursing Suspected or Diagnosed Filamentous Hemorrhagic Fever in Medical Institutions" issued by the WHO (World Health Organization) in August 2014. <http://www.who.int/csr/resources/who-ipc-guidance-ebolafinal-09082014.pdf?ua=1>

### Product Disinfection Handover

The Clear Shield Hood PAPR Hood can be handed over using the following steps:

1. Prepare a graduated spray bottle (1.0- 1.5L volume) with 1L clean water inside. Making the disinfecting solution of 5000mg/L by adding 10pcs of LIRCON effervescent tablets with an effective chlorine content of 500mg/ tablet and mix thoroughly. (For reference only, subject to actual conditions of each hospital).
2. When medical workers wearing the Clear Shield Hood PAPR leave isolation section, please make sure the blower unit is always working (**DO NOT** turn it off). Other medical workers spray the whole hood PAPR system (hood, hose, belt, and blower unit) with chlorine-containing disinfectant.
3. After spraying disinfectant, turn off the blower unit, take off the hood (from inside out), blower unit, and hose and pack them with the clean medical plastic bags. Put them in the designated area of the buffer zone, and take them to the disinfection area by a designated person for disinfection.

### Disinfection Process in Designated Area

Preparations:

1. Disinfectors must wear a full set of protective equipment including protective clothing, mask, and goggles.
2. Prepare two layers of nitrile gloves or vinyl gloves before cleaning.
3. Prepare 5000mg/L chlorine-containing disinfectant and medical gauze.

Initial Process:

1. Get the complete protective equipment out from the disposable medical bag.
2. Separate each part (hood, hose, blower unit) carefully.

Hood Disinfection:

The Clear Shield Hood PAPR Hood can be cleaned following the steps below:

1. Remove the sweatband from the headband inside the hood, put the sweatband into a disposable medical plastic bag and discard.
2. Clean the hood inside and outside surface three times by using the medical gauze soaked with chlorine disinfectant (0.5%). Dip the neutral (PH6-8) cleaner to wipe the hood and use the clean water to wash off the remaining liquid of the cleaner.
3. Put the disinfected hood into a disposable medical plastic bag and dry them in a pollution-free area. Please make sure to assemble the new sweatband correctly before next use.

### IMPORTANT NOTICE:

- If there is sufficient inventory for the hood, one-time use is recommended.
- The cleaned Hood should be carefully inspected per the Operator's Manual.
- Store Helmet when not in use in accordance with the Operator's Manual.

### Blower Unit Disinfection

The Clear Shield Hood PAPR Blower Unit can be cleaned by following the steps below:

1. Clean the surface of the blower unit (including the belt) and the hose connection area three times by using the medical gauze soaked with chlorine disinfectant (0.5%).
  - a. Note: When the complete hood PAPR system is running, the air is always clean after filtration, so only need to clean the hose connection area which is exposed to the air.
2. Please clean the white area inside the blower unit carefully.
  - a. **DO NOT** wash it with liquid, the liquid may penetrate into the equipment and cause damage.

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3. Set the blower unit vertically, and open the filter cover. Remove the pre-filter and particle filter in order and put them into medical plastic bags and discard. After removing the filters, install the blower cleaning covers over the white area inside the blower and the hose connection outlet.
4. Soak the filter cover in 1000mg/L chlorine disinfectant for 30 minutes.
  - a. Note: Please follow the disinfection instructions formulated by your organization and/or local regulatory authorities for the target microorganism or corona virus.
5. Clean the surface of the blower unit and the particle filter installation area three times by using the medical gauze soaked with chlorine disinfectant (0.5%).
6. Remove the battery, and clean the battery (including the connection area between the battery and the blower unit) three times by using the medical gauze soaked with chlorine disinfectant (0.5%).
  - a. Please clean the contacts on the bottom of the battery carefully. Make sure the area is completely dry before next use or storage.
7. Dip the neutral (PH6-8) cleaner to wipe all parts repeatedly and evenly, and use the clean water to wipe the remaining liquid of the cleaner.
8. Put the disinfected blower unit and battery into a disposable medical plastic bag, dry them in a pollution-free area, and remove both blower cleaning covers.

### IMPORTANT NOTICE:

- Soaking any parts of the blower unit is prohibited.
- Insure all components are dry prior to reuse or storage.
- Reassemble unit as described in the product Operator's Manual.
- After cleaning, the PAPR Blower Unit and headgear should be inspected following the inspection procedures in the Operator's Manual for that item.

### Air Hose Disinfection

The Clear Shield Hood PAPR Air Hose can be cleaned by following the steps below:

1. Remove the air hose cover, and put it into disposable medical plastic bag and discard.
2. Soak the air hose is 1000mg/L chlorine disinfectant for 30 minutes.
  - a. Note: Please follow the disinfection instructions formulated by your organization and/or local regulatory authorities for the target microorganism or corona virus.
3. Dip the neutral (PH6-8) cleaner to wipe the air hose and use clean water to wash off the remaining liquid of the cleaner.
4. Put the disinfected air hose into a disposable medical plastic bag and dry them in a pollution-free area. Or, connect the air hose with the blower unit, and turn on the blower unit to dry the air hose.

### IMPORTANT NOTICE:

- Inspection of blower assembly and breathing tube after each use is good practice.
- Replace breathing tube if damaged or if inside of tube is dirty.
- Replace damaged or dirty air filters. Filters cannot be washed or cleaned with compressed air. Never reuse a dirty air filter.
- **DO NOT** immerse the battery pack during cleaning.
- Use caution when cleaning around the battery pack connector pins on the bottom of the motor/blower. It is critical not to bend or break the pins.
- Ensure the battery pack and the connector pins are thoroughly dry before next use or storage. It is critical not to bend or break the pins.
- Ensure all components are dry prior to reuse or storage.
- Follow your facility's protocols for proper disposal of cleaning equipment and solutions.
- Read and follow all steps set forth in the Clear Shield Hood PAPR Unit Operator's Manual.

Lincoln's Clear Shield PAPR system is approved by NIOSH for protection against particulates at a high efficiency filtration level, and is currently authorized by an Emergency Use Authorization (EUA) issued by the U.S. Food and Drug Administration (FDA) for use in healthcare settings by healthcare personnel when used in accordance with Centers for Disease Control and Prevention (CDC) recommendations to prevent wearer exposure to pathogenic biological airborne particulates during respirator shortages resulting from the COVID-19 outbreak. However, Clear Shield is not intended to be used as a medical device in healthcare surgical settings or in the presence of a high intensity heat source or flammable gas, and has not been cleared by the FDA other than as stated in the EUA.

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