

CleanSpace™ HALO respirators are a reusable powered air purifying respirator used in clinical settings where there is a risk of airborne pathogens. The system includes:

- 3 parts - Power unit, mask and head harness (reusable)
- HEPA filter (consumable); and
- Cleaning plug (accessory)

This protocol is intended to be a reference guide to the cleaning and disinfection of the reusable system worn by a single user/owner and assumes the device may be carried by the same user to be worn at one or more than one location.

DOFFING – This protocol and the user manual are to be read in conjunction with attending the CleanSpace Training. When doffing, follow the steps outlined by the facility where you are using the respirator. Principles for doffing include; Doff in the designated area. Use hand hygiene prior to doffing the mask; And remove the respirator last (after other PPE has been taken off and disposed).

Four steps to doff:

1. Remove the harness and position the left hand on the mask clip
2. Position the right hand on the ON button.
3. When ready, hold your breath and press the ON button to switch the device into Standby mode. The device will beep once and the motor/airflow will stop.
4. Release the mask clip and holding the mask and power unit in each hand to remove the system. When removing, hold the device away and down from the face.

Place the device in a designated doffing or cleaning area.

Infection Control measures should be adapted to the local facility infection control guidelines as well as the level of risk of exposure(pathogen and environment).

CleanSpace HALO should be cleaned immediately after use in a designated cleaning area. When not in use or when transporting, stored in a clean and protective container/bag.

Under Respiratory Protection Standards CleanSpace HALO is a tight fitting respirator and users are required to be fit tested before use and annually thereafter.

AFTER DOFFING – Follow the standard infection control measures set up by the hospital or clinic. The level of exposure risk, and if gross contamination has occurred, will determine the cleaning and reprocessing protocol used.

Local infection control protocols should be discussed with the facility to confirm what is recommended and available on site. On doffing, the respirator should be placed in a dedicated cleaning space in or close to the doffing area. Clean PPE should be worn to disassemble and clean the parts.

The respirator should be cleaned immediately after use. If this is not possible, the device can be placed in sealable bags and transported to a suitable area for cleaning. If this is the case, place the mask in a separate bag from the power unit and harness, to minimise cross contamination.

USER MANUAL - Read the User Manual provided with the CleanSpace HALO power unit. This protocol and the user manual are to be read in conjunction with attending the CleanSpace HALO Web Training.

TRAINING - Before you use the respirator contact our team for training or product support at trainingAP@cleanspacetechnology.com

PRODUCT RESOURCES - Found via the QRCode on the Power unit or at www.cleanspacetechnology.com/health.

FILTER REPLACEMENT: If the device is in regular use the filter should be changed according to the facility protocol or once a month. Note: If the filter has been exposed to water (such as in the cleaning process) the filter should be changed immediately as water can damage the filter on drying.

SOURCE CONTROL: CleanSpace masks have an exhalation valve. In a clinical setting where source control is required, a surgical mask or the CleanSpace exhalation filter (**Steri-Plus CS3038**) should be used.



WATCH THE DOFFING VIDEO
www.cleanspacetechnology.com/health/doffing

CLEANING AND REPROCESSING – Follow infection control measures when using and reprocessing the device. The level of cleaning will depend on the level of risk of exposure. Mask and harnesses are compatible with high level disinfection (i.e. auto-washer). All parts are compatible with gas sterilisation protocols (i.e. Sterrad® and Steris®). Do NOT autoclave the parts.

Disassemble the respirator to its 3 parts: power unit, mask and harness. The HEPA filter is reusable and remains in place when cleaning the CleanSpace Halo power unit.

POWER UNIT: The case surface can be cleaned with standard disinfectant wipes (ie Clinell®, Tuffi®). Starting at the back, wipe the entire surface, working towards the bellow arms. For the bellows, pull the adjustment strap out by pressing the silver adjust button, this allows the bellows to be fully extended during cleaning. There is low risk of contamination inside of the bellows, if desired the inside can be cleaned using a wipe or alcohol spray. Remove any residue left from the disinfectant before use. Note, the power unit is an electronic device and should not be submerged or soaked in water. If grossly contaminated follow the recommendations in the CleanSpace Cleaning Guide or contact our team.

HARNES: Wipe down with disinfectant or wash in hot (<90°C) soapy water prior to using a disinfectant wipe.

MASK: Discuss options with the facility where the device is being used. If possible, use the reprocessing (CSSD) for the mask. If this is not possible or impractical, the following steps can be used for individual cleaning. It is recommended the mask is cleaned with hot (<90°C) soapy water to remove facial oils. When washing the mask, first remove the exhalation valve cap. After washing, rinse and dry. When dry wipe down with a disinfectant wipe (ie Clinell®, Tuffi®) starting with the inside of the mask. Using a separate disinfectant wipe, clean the outside of the mask, including the exhalation valve cap. When completed check the exhalation valve is correctly placed (flat) and replace the cap.

When finished cleaning, inspect the parts for damage or missing components. Place the clean parts in a protective case/bag/container.