

## Sundstrom Masks- Maintenance of Respirators

The Sundstrom SR100 is a reusable half-face respirator recommended for use in this University (alternative to the 3M 7500 series). Your personal face-fit test card will confirm the size of respirator you have been provided with (S/M, M/L and L/XL available).

The Sundstrom SR200 is a full-face respirator recommended for use in this University (alternative to the 3M 6000S series); your personal face-fit test card will confirm the size of respirator you have been provided with.



SR100



SR200

### Before each use

Check the integrity of the straps and face seal. Check that the filters are in date (especially important for intermittent users) and that they are the correct filter type to protect against the hazardous substance you are about to be exposed to.

Wearer Seal Check (Negative Pressure Function Test):

[Note: this can only be performed when using the pre-filter].

Place palm of hand over the hole of the pre-filter (without altering the shape of the mask). Inhale gently and the respirator should pull inward on the face. Hold your breath; the respirator should remain collapsed on the face. If no air leaks are detected between the facepiece and the face, a proper fit has been achieved. If leakage is detected, check the inhalation and exhalation valves and adjust the straps of the head harness. If you cannot achieve a proper fit, do not enter the contaminated area.

### Cleaning after each short-term use

Filters should be removed and both the interior and exterior surfaces of the facepiece wiped carefully with disinfectant wipes. When dry the facepiece should be stored in a sealed polythene bag (or sealable box) in clean, dry conditions, away from direct sunlight, sources of high temperature, petroleum and solvent vapours.

### Cleaning after long-term use and at regular intervals

Disassemble the facepiece by first removing filters and cartridges. Remove the covers from the exhalation valves and remove both membranes. Remove the



exhalation flaps (pinch together and pull them off the pin). Detach the head harness and finally remove the inhalation valve from inside the facepiece. Full disassembly/assembly instructions are contained in the booklet supplied with your respirator.

Clean and sanitise the facepiece (excluding filters/cartridges) by immersing in warm soapy water (max 40 °C), scrub with a soft brush until clean. Do not use cleaners containing lanolin or other oils. [In the case of respirators that have been used in relation to biological agents, the respirator should be disinfected by soaking in a quaternary ammonia disinfectant or sodium hypochlorite (50ppm chlorine) solution.] Rinse in fresh, warm water and air dry (max. temp. 40 °C) in a non-contaminated atmosphere. The polycarbonate lens fitted to the SR200 series should not be subjected to abrasive cleaners or solvents.

## Maintenance

Inhalation and exhalation valves should be changed at least every 2 years after commencement of use, or 6 years after manufacture, whichever is earlier. All valves, membranes and valve covers of the SR100 and SR200 can be individually replaced. If any other part of the respirator fails, or is missing, the whole respirator must be replaced. **Only manufacturers proprietary replacement parts should be used.**

To stay compliant with the law, all reusable respirators must have regular maintenance and a log must be kept. This should be carried out at least once a month, however if the respirator is used only occasionally, an examination and test should be made before use and/or every three months. Below is a form that can be used as an aid to help you in your monthly examinations and act as a maintenance log of your personal respirator.

If your respirator is temporarily withdrawn from service due to fault and awaiting parts note this and carry out further examination upon fitting of new parts. If the respirator is to be permanently withdrawn from service note this, file the log, and complete a new log for the new replacement respirator.

Examination and maintenance logs must be kept for at least 5 years.

[Maintenance Log \(Excel\)](#)

## Face fit retesting:

The Occupational Hygiene Unit recommends retesting every **three** years to check that the mask still has an acceptable fit. If you have significant facial changes within that time (gain/loss of weight, broken nose, broken jaw) then you should come back for a retest before the three year period is up. You will not be called back for retesting, but are expected to follow [the process for booking a test](#) published on our website.



## THE UNIVERSITY *of* EDINBURGH Health & Safety Department

### Face fit reports:

Details of your face fit test will be uploaded to the University's COSHH Health Passport System (CHPS). This system manages an individual's health record and all staff are required to keep such a record if they may be exposed to a sensitising agent. We will no longer be emailing copies of test results following a test unless an individual is not using the CHPS system or the individual has [requested a copy of their results](#).

### Document version

Version number	Summary of change	Date and by whom
V1.0	New template	June 2023 HE

If you require this document in an alternative format, please contact The Health and Safety Department on [health.safety@ed.ac.uk](mailto:health.safety@ed.ac.uk) or call (0131) 651 4255