



Cleaning Guidelines (Exposure to COVID-19)

PureFlo ESM+ PF33 and ESM+ PF23 PAPR units with
PureFlo P3, P3 Odour and ABE1P3 Combination Filters



After every exposure or suspected exposure, the user should, whilst wearing gloves:

1. Remove the unit after exposure and arrange for disinfection/cleaning
2. Remove the PureFlo P3 (HEPA for US Market) particle filter which can be wiped on the outside with a damp cloth using cleaning fluid or other disinfectant.
3. Ensure that the cleaning fluid does not enter into the filter, as this may harm the filter media. The filter material is “splash resistant” but must not be immersed in the decontamination fluid.
4. Clean the **exterior only** of the filter thoroughly in warm (maximum 40°C) soapy water or other disinfectant (for example a bleach solution with water – maximum 10%), using a damp cloth – do not fully immerse the unit in any liquid. Remove any excess liquid with a clean, low linting cloth and leave to fully dry in a clean area.
5. Inspect the filter before next use and check that it is dry and undamaged.

Suggested Filter Change Policy

1. The particulate filters, in a health care environment, can be used multiple times.
2. The filter will continue to give protection provided that:
 - a) It is not damaged.
 - b) It does not become clogged with particulate material, which would make it more difficult to breathe through.

3. In a health care setting it is likely to be a very clean environment. Therefore, “clogging” due to the presence of particulate contamination, will generally become much less likely.
4. The filter will need to be replaced under the following circumstances:
 - a) There is visible damage to the filter.
 - b) Notification from alarm function in the unit.
 - c) It has passed a date limit set by a responsible person following undertaking an agreed risk assessment. For example, a Health & Safety Officer, Infection Control Manager.
5. If a droplet contaminated with coronavirus comes into contact with the filter media, it is no longer sterile, but it continues to prevent the virus reaching the breathing zone.
6. The PureFlo P3 filter has a particle efficiency of >99.98% for particles of 0,3um at 170 litres per minute, and will continue to provide this level of protection provided that the filtration material inside the filter does not become damaged and the filter is not “clogged”. Do not insert anything through the inlet grill of the filter housing as this will damage the filter media.
7. A filter rotation system to ensure that only sterile filters are used at the start of a shift could be implemented as below:
 - a) The first pair of filters would be used on day 1, the second pair on day 2 and the third pair on day 3.
 - b) On day 4 the first pair would be used again. Any coronavirus will have died, and the virus load is likely to be minimal by day 4 and so the first filter pair can be considered sterile on day 4.
 - c) This cycle then repeats.

General Cleaning for the ESM+ Series Respirator

WARNING: Never use a blow gun or compressed air on any part of the respirator.

1. For units with gross contamination ensure visor is down and unit is upright. If fitted, ensure neck cape drawstring is closed. Clean using a clean cloth with a mild solution of a household liquid soap and water. For ingrained dirt on the outside of the unit (excluding visor), a nail brush, ultrasonic brush or scouring pad may be used. Dry the unit with a clean lint free cloth - do not use heat source.
2. Wipe the inside & outside of the unit including motor plenum - PUREWIPE (PR01110SP) cleaning wipes are recommended for this purpose.
3. Do not immerse the helmet in water or any fluid.
4. Do not use organic solvents or abrasive cleaning agents on any part of the equipment.
5. Launder the neck cape or face seal, concussion strap and comfort pads as required using a mild solution of a household detergent and water (Max - 30°C).
6. Disposal and cleaning of parts should be undertaken in accordance with local health, safety and environmental regulations.
7. If a respirator has been used in an area that has caused it to become contaminated with a substance requiring special decontamination procedures, observe the precautions described in the manufacturer’s health and safety information.

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