



Quick guide - please observe the following instructions:

Application in medicine and laboratory

Respiratory protection systems - the leading protection standard during times of Covid-19.

Optrel Respiratory protection systems are certified according to TH3 (EN 12941) and correspond to the highest respiratory protection class. They are adept to filter air and remove 99.8% of harmful solid and fluid particles providing for clean and purified inhalation. Infectious viruses and bacteria that are transmitted through the air, e.g. Droplet infections are effectually evaded. With the e3000X PAPR system, you choose your optrel PAPR mask with an integrated respiratory protection system that does not compromise your safety, health and comfort.

In comparison to the protection class' best, the half mask (FFP3), safety of the user's airways is increased by a factor of 10 or even by a factor of 40 (when using FFP2 masks). Additionally, both eyes are protected.

Thanks to the comprehensive face protection, viruses and bacteria can no longer be spread through smear infections. The possibility of contamination of hands and objects on the mucous membranes of nose and/or eyes is therefore removed.

Unrestricted and clear view of your workplace and the environment. The filtered and clear air with individually adjustable, three-stage air supply make the clearmaxx a unique face and breathing protection system. Even in hectic times, you always keep

a cool head with the blower breathing protection system from optrel. More air and oxygen for intense work and concentration.

Safety instructions

This brief summary does not replace the manual. The manual must be read by the end user and all safety officers in advance. The use of the supplied parking buddy is mandatory. The helmet must remain completely on the wearer's body. This prevents it from being used by a third party. The helmet must not be placed on surfaces and must be cleaned at the disinfection station. This is the only way to prevent contamination of the helmet, third parties and surfaces.

Please note: Do not use as a surgical mask!

The user manual refers to use in an industrial environment in which there is a high level of dust and smoke. Therefore, please note the information in this quick guide for use in medical purpose.

When using for the first time, remove the spark protector and the pre-filter from out of the filter cover (operating instructions pos. 4 and 5, page IV). These components are only necessary in industrial applications, but make cleaning and disinfection in medical applications more difficult.

Commissioning

1. Is the work equipment intact?
General visual inspection (filter gasket/air hose/ face seal/battery/housing etc.)
Replace damaged components before use.
2. Masterfilter inserted correctly? Spark protector and pre-filter removed?
3. Is the filter cover placed correctly? (Audible click when closing)
4. Is the air hose connected with the blower and the helmet?
5. Is the face seal mounted correctly?
6. Is the battery charged and installed properly?

No manual air flow control needed! The optrel e3000x performs the control automatically whenever the device is turned on.

Donning

1. Wash and disinfect hands with soap
 2. Put on a protective gown.
 3. Switch on the device with the on/off switch. Optional before switching on: When using the shoulder strap (as Accessories available), attach the belt to the e3000X according to the enclosed manual.
 4. Strap on the breathing protection system with the waist belt. Fasten the parking buddy to the belt.
 5. Connect the hose to the helmet.
 6. Secure the hose to the helmet using the hose guide.
 7. Adjust the air distribution in the helmet as required.
 8. Put on the helmet
 9. Pull the face seal over the disinfected chin.
- Please continue to put on the gloves according to internal instructions.

Breaks

1. Take off gloves
 2. Wash and disinfect hands with soap.
 3. Put the helmet off in a sterile (plastic) sack and park it in the parkpark buddy
 4. Switch off the e3000X with the on/off switch.
 5. Wash and disinfect hands with soap.
- Put on again after the break according to the instructions.

Doffing

1. Take off gloves
 2. Wash and disinfect hands with soap
 3. Remove the helmet, disconnect it from the hose and clean it
 4. Wash and disinfect hands with soap
 5. Turn off and clean the blower breathing protection system with the on / off switch (hose included).
 6. Store the cleaned set in a sterile and locked place.
- Please continue to remove protective clothing according to internal instructions.

- Alert**
1. Filter alarm
Replace TH3 P master filter.
 2. Battery alarm:
Charge or replace the battery.

- Cleaning and disinfection**
- First wipe the entire system with a clean, soft cloth and neutral cleaning solution.
Then wipe with clean water.
Warning: do not soak clearmaxx or e3000X during cleaning.
Disinfection:
With a clean, soft cloth and disinfectant solution (e.g. a 1.0% chlorine solution with 10,000 ppm available chlorine).
Alternatively, a combined detergent/disinfectant can be used.
Warning: Nitrile or vinyl gloves must be worn during cleaning. Make sure, that suitable personal protective equipment (PPE) is used for cleaning.
Warning: do not soak clearmaxx or e3000X during cleaning.
Final cleaning:
Wipe all components with a clean, soft cloth and clean, warm water.
Note: It is important to clean the chlorine-based products.
Allow all components to air dry completely before reuse or storage.
Warning: do not soak the clearmaxx or e3000X during cleaning.

- Filter change**
- Follow the guidelines and PAPR filter change plans for biological aerosols in the air that apply in your facility. The filter alarm will only appear showing a filter change caused by particles.
Optrel recommends changing the filter every month when used in healthcare facilities. Please check whether there are national or institutional rules that may require a shorter change interval.
A reasonably higher exchange rate must be used when hazardous exposure is expected or when there is a high risk from patient to patient or patient to worker. If in doubt, please contact the infection control representative at your local facility or an optrel representative.

Do not try to clean the filter medium in the filter body.

- Storage**
- While working:
Park the helmet on the parking buddy according to the instructions during breaks and short breaks (do not place on contaminated or sterile surfaces).
After work:
Store cleaned equipment in the sterile protective bag.

- Safety test**
- Regular checks of the equipment:
- Visual inspection
- Function test
- Examination of the user on correct usage
- Intervals of the tests:
Every twelve months after recommendation of optrel AG.
(Observe local and country-specific regulations)
- Document your results according to country-specific regulation.