

CleanAccess Air

Mounting and operating instructions



Index

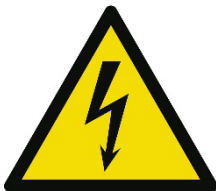
1. Revision summary	3
2. Hazard markings and safety signs	3
3. Equipment information	4
3.1 Purpose of the equipment	4
3.2. Function of the sluice:	4
3.4 About the documentation	4
4. Equipment overview	5
4.1 Environment for the equipment	5
4.2. Mounting instructions	5
4.2.1 Connecting and using the device (first start-up)	5
4.2.2 Operation	6
5. Environment:	6
5.4.1 Personnel	6
5.4.2 Disposal	6
6. Service and maintenance	7
7. Cleaning	7
7.1 Purpose	7
7.2. Precautions	8
7.3. Cleaning	8
7.3.1 Detergents	8
7.4. Cleaning procedure and inspection	9
8. Liability and Warranty	9

1. Revision summary

Revision	Date	Comment/ Changes
1.0	31-05-2021	Document created

2. Hazard markings and safety signs

The following hazard markings are used on the equipment and have the following meaning:



Danger
Electrical current
Attention:
Access only for authorized personnel

3. Equipment information

3.1 Purpose of the equipment

The sluice is intended to treat all surfaces with air.

3.2. Function of the sluice:

- The sluice is controlled by on/off switch
- Prerequisite for starting the unit is;
 - If door contact delivered:
 - Access doors are closed (door contact is closed)
- UVC-lamps are switched on for the agreed time
- UVC-lamps are switched off if:
 - The door contact is disconnected
 - The on / off contact is switched off
- Restarting of the system
 - Prerequisite for switching on must be present
 - The timer starts again

When observing faults: switch off main switch (switch off system) and consult service manual.

3.4 About the documentation

This manual has been made as a basis for the CE marking and is completed in accordance with Directive 2006/42 / EC of the European Parliament and of the Council of 17 May 2006.

The folder contains important information about the installation, including service manual and safety instructions.

It is recommended to keep the folder visible and close to, the machine and inform your staff about it.

4. Equipment overview

The UV-unit contains of:

Defined on the order confirmation.

4.1 Environment for the equipment

4.1.1 Surface

The installation must be placed on a flat surface without inclination and fastened according to the instructions.

4.1.2. Placement

The equipment may only be used in places where the surface is level and can be securely fastened.

4.1.3 Temperature and humidity

The equipment can be used in temperatures between 10-40°C and max. 60% humidity as standard.

4.1.4. Storage and environment

The equipment is not designed for outdoor use or storage.

If the equipment meet saline or acidic moisture or liquid, this should be removed from the system as soon as possible to prevent corrosion.

4.1.5. Requirement before use

The equipment should be used as a disinfection solution with the purchaser:

- The equipment must not be used until the system has been installed in accordance with the regulations.
- The equipment may only be operated by personnel who have been properly instructed in its use.
- Repairs, service, and maintenance may only be carried out by qualified persons with proper training.
- If constructive changes are made to the equipment, the CE marking will lapse.

4.1.6 Disposal of parts

Consumables must be disposed of in accordance with current legislation.

4.2. Mounting instructions

Installation of the unit must be done according to specifications or by agreement.

4.2.1 Connecting and using the device (first start-up)

1. Make sure the power is off when connecting CleanAccess
2. Connect the power according to the electrical drawing.
3. Set the main switch in CleanAccess to OFF position
4. Check the system voltage on the main switch for CleanAccess Air.
5. Set the main power switch on CleanAccess to the ON position.
6. PLC will automatically run a self-test when the power is turned on.
7. The touch screen shows the status.
8. Cabin lights illuminate during self-test.

9. The doors will remain closed after self-test
10. Cabin light go out.
11. CleanAccess is now in Standby and ready for use.

4.2.2 Operation

Normal operation (from A- (dirty) side to B- (clean) side)

CleanAccess works automatically. The automatic cycle begins when a person enters the air sluice. When the person is inside and closes the door, the quiet fans start and draw "dirty air" through the pre-filter located at the bottom of the sluice.

The pre-filter removes some of the particles before air flow to the high-efficiency filter (HEPA filter) located behind the air nozzles.

When the air is through the high efficiency filter (HEPA filter), the air is considered clean and is then blown out the air nozzles. The air circulates in this way throughout the cycle.

When the cycle is completed, the quiet fans stop and door B can be opened.

At this point, CleanAccess automatically returns to standby, ready for the next cycle.

Normal operation (from B- (clean) side to A- (dirty) side)

CleanAccess work automatically. The nozzles do not blow when a person moves in this direction. The person enters the sluice from the "clean" side. After a user specified time, door A can be opened.

When door A closes, CleanAccess will automatically return to standby, ready for next cycle.

During normal operation, door A and B cannot be opened at the same time.

Abnormal operation

If an emergency occurs, the person in CleanAccess can press the red emergency stop button to open the door before the end of the cycle. This causes the nozzles to stop blowing, both door A and B open, the light in CleanAccess remain on.

CleanAccess remains in this state as long as the emergency stop is triggered.

When the emergency stop is no longer triggered, CleanAccess returns to standby, ready for the next cycle.

5. Environment:

5.4.1 Personnel

The sluice is installed in a professional working environment, where instructions are part of everyday life and where unauthorized personnel do not have access to the sluice.

5.4.2 Disposal

- Before dismantling the installation, a plan for disassembly must be prepared.
- The plan must include a risk assessment for the work as well as for disposal of installation and the spare parts.
- Plan and risk assessment must be prepared in accordance with current rules at the time of dismantling.

Scrapping

- The system is dismantled and sorted into categories as required by applicable environmental requirements.
- The installation is subject to Directive 2008/98 / EC and Directive 2002/96 / EC on waste.
- When the system is obsolete, all existing components must be sorted and handed in at an approved recycling site, or at an approved recycling company.
- The system must not be disposed of with unsorted household waste. Use the local collection points for the disposal of electrical and electronic components and ensure that all relevant regulations are observed.

The system consists of the following parts and must be sorted accordingly:

- Iron.
 - Aluminum
 - Plastic. (hard and soft)
 - Rubber.
 - Electrical components.
 - Electronics
 - Copper
 - Other metals.
- If parts of the systems are resold for purposes other than disposal, it is the owner's responsibility to make the recipient aware of the disposal rules.



6. Service and maintenance

Gloves should comply with 2019-4121X.

All service and maintenance must be performed without danger.



7. Cleaning

7.1 Purpose

Systematic cleaning is part of the maintenance of the equipment and contributes to the optimal function of the equipment. At the same time, cleaning will ensure ongoing inspection of the condition of the equipment.

The following sections provide procedures that describe how routine cleaning is performed for equipment provided by NATDIS.

7.2. Precautions



Equipment supplied by NATDIS may only be cleaned when the system is switched off and in a safe condition.

Use clean gloves are required



Attention:

Protect your hands from heat, sharp edges, and glass splinters with gloves. Must comply with EN388: 2019-4121X

Always comply with local regulations when choosing a cleaning agent. Follow the warnings and safety descriptions on the individual containers and safety data sheets. Abrasives must not be used.

7.3. Cleaning

Cleaning includes a thorough vacuuming of the components. A vacuum cleaner equipped with a suitable filter for product and material residues must be used.

Never wipe product dust off dry, and never use compressed air for dry cleaning, as product dust will not be removed via these methods; and the product dust will simply be distributed around the area.

The cleaning frequency depends on the production facilities. The cleaning intervals may therefore vary from the above.

It is also recommended to minimize the general amount of dust around UVC systems, as this can result in coating on quartz glass and thereby impair UVC function and shorten the life of the lamps.

Vacuuming can be supplemented with wiping with a soft cloth and detergent. Here the local legal regulations in the area must be complied with.

Abrasives must not be used.

7.3.1 Detergents

Always observe the legal regulations when choosing detergent. Follow the warnings and safety descriptions on the individual containers and safety data sheets.

Information on suitable cleaning agents can be found in the following table:

Material	Suitable cleaning agent	Important instructions
Stainless steel	Isopropanol or other non-abrasive cleaner for metal and glass	Use a soft cloth

7.4. Cleaning procedure and inspection

The cleaning procedure must ensure efficient daily operation.

1. Clean gloves must be worn
2. Cleaning is performed at least once a month, or at the discretion of the customer

8. Liability and Warranty

We are only liable for warranty claims under national law. The following warranty is provided on bulbs as standard; 10,000 hours burning time with continuous operation or 3000 on / off or max. 2 years from time of delivery.

Avoid many short-term on and off switching of UV equipment. It has a strong degenerative effect on the life of the bulbs and is not covered by the warranty obligation.

Breakage and glass damage are not covered by the warranty.

Our general terms of sale and delivery are always valid.

We cannot be held responsible for damages caused by:

- Operating errors caused by non-compliance with these guidelines.

Warranty lapses upon:

- Operation with spare parts that are non-original.
- Defective or incorrect installation
- Installation of unsuitable accessories
- Incorrect operation
- Removal, manipulation, or removal of safety equipment
- Unproper performance of service and maintenance
- Wear and lack of maintenance
- Effects on vibrations from the installation site
- Impacts in the environment or installation, which we did not have the opportunity to anticipate at the time of dimensioning.