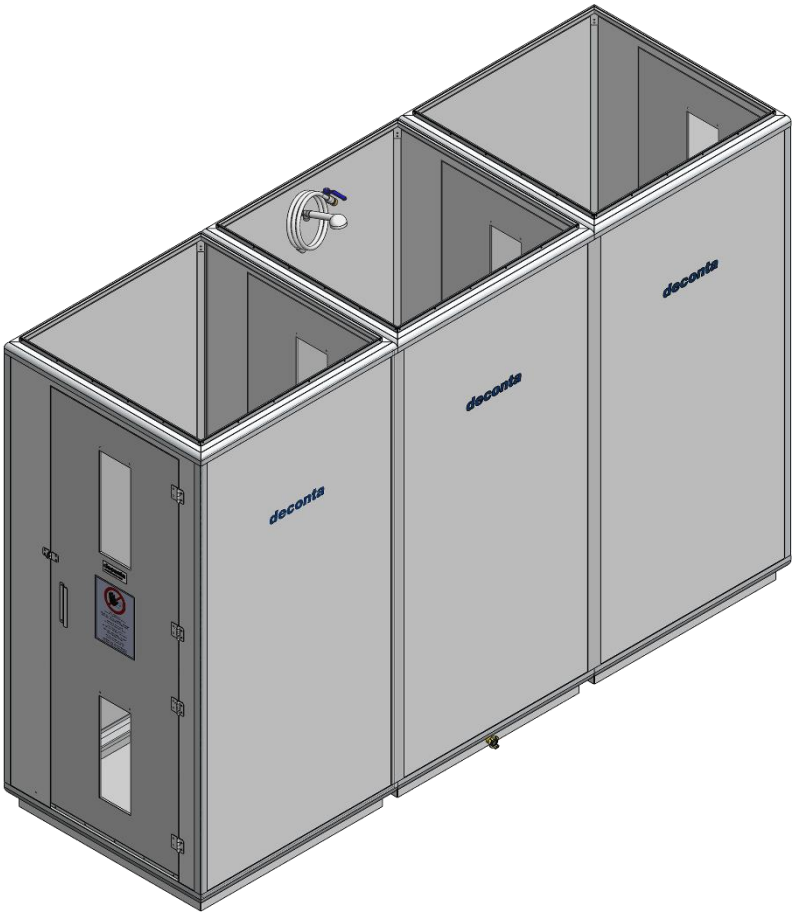
Operating instructions (original)
Personnel airlock ECO-NEXT



CE	deconta GmbH Im Geer 20 46419 Isselburg	Phone: 02874/9156-0 E-Mail: info@deconta.com Web: www.deconta.com	Language: EN Version: 1 Date of issue: 10.03.2026

1 Product and manufacturer

1.1 Product

These operating instructions describe the following product:

Personnel airlock ECO-NEXT.

1.2 Manufacturer

Name and address	deconta GmbH Im Geer 20 46419 Isselburg
Phone number	02874/9156-0
e-mail	info@deconta.com
Internet	www.deconta.com

1.3 Change index

date	Version	Modification	Responsible
19.02.2026	1	New creation	Thomas Boland

2 About these operating instructions

To ensure proper and safe use of the airlock, follow the descriptions and recommended actions in these operating instructions.

Keep these operating instructions for future reference until the airlock has been disposed of.

2.1 Purpose

These operating instructions contain information on the safe, trouble-free and economical use of the airlock.

This information is intended for persons who carry out tasks with or in connection with the airlock.

2.2 Availability

The operator shall make these operating instructions or extracts thereof available to persons who carry out tasks with or in connection with the airlock.

The operator shall keep these operating instructions or extracts thereof within easy reach in the immediate vicinity of the airlock.

If the airlock is handed over to another person, the operator shall pass these operating instructions on to that person.

2.3 Warnings

These operating instructions may contain warnings that warn of residual dangers.

The categorisation of the warnings depends on the severity of the damage that can occur if the warnings are ignored and the recommended actions are not followed.

2.3.1 Signal words and signal colours

Warnings are introduced with one of the following signal words and marked with a corresponding signal colour.

Signal word	Meaning	Signal colour
DANGER	Consequence of non-compliance: Death or serious injury.	⚠ GEFAHR
WARNING	Consequence of non-compliance: Death or serious injury possible.	⚠ WARNUNG
CAUTION	Consequence of non-compliance: Serious or minor injuries possible.	⚠ VORSICHT
NOTE	Consequence of non-compliance: Material damage or environmental damage possible.	HINWEIS
SAFE HANDLING	Implement the following instructions.	-

2.3.2 Structure

Warnings are structured according to the SAFE method:

S	Signal word (DANGER; WARNING, CAUTION or NOTICE)
A	Type and source of danger Description of the hazard and the cause of the hazard
F	Consequence Description of the possible consequences for humans, animals and the environment that may result from the hazard
E	Escape Recommendations on how hazards can be avoided

2.4 Symbols

The following symbols are used in these operating instructions.

2.4.1 Warning sign

The warning sign is a safety sign that warns of a risk or danger.

The following table provides an overview of the warning signs used and their meaning.

Symbol	Meaning	Symbol	Meaning
	General warning sign		

2.4.2 Instruction sign

The instruction sign is a safety sign that prescribes certain behaviour.

The following table provides an overview of the instruction signs used and their meaning.

Symbol	Meaning	Symbol	Meaning
	Wear safety shoes		Use protective clothing

3 Description

This section contains information on understanding the airlock.

3.1 General description of the product

General description of the product

The airlock was designed and built by deconta GmbH, Im Geer 20, 46419 Isselburg, Germany.

When carrying out remediation work in enclosed spaces, it is important to prevent pollutants from leaving the remediation area in an uncontrolled manner and thus posing a risk to people and the environment.
For this reason, remediation areas are separated from pollutant-free areas and kept under dynamic negative pressure by means of negative pressure units.
The ECO-NEXT personnel airlock system was developed and built to enable people to enter and exit these rooms. It allows people to enter, exit and be cleared without endangering the surrounding area.
The airlock is designed according to the modular system and can be adapted to almost any requirement. Connecting identical roof and floor elements also allow the existing system to be extended at a later date and existing parts to continue to be used. An extension with any number of chambers is possible at any time.

3.2 Scope of delivery

The delivery scope of the airlock includes the following items:

- Personnel airlock, number and size of chambers depending on the version
- Operating instructions

3.3 Return delivery at the end of a hire period

For the protection of our customers and in accordance with dangerous goods transport regulations, we must insist on the following return delivery conditions:

- As listed above
- Thoroughly cleaned (ready for use)
- Free of any adhesive residue
- Without residual fibre bonding
- Without damage

3.4 Operating modes

3.4.1 Available operating modes

Type of use

The airlock is intended exclusively for use in the following types of use.

Use for other types of utilisation is not intended.

User groups

- Commercial users

Utilisation environment

- outdoors
- on roofed areas
- in rooms enclosed on all sides

4 Technical data

4.1 Dimensions model 750

	Length x width x height (mm)
3-chamber	2250 x 750 x 2070
4-chamber	3000 x 750 x 2070

4.2 Dimensions model 1000

	Length x width x height (mm)
3-chamber	3000 x 1000 x 2070
4-chamber	4000 x 1000 x 2070

4.3 Model 750 weights

	Weight (kg) without transport device
3-chamber	138
4-chamber	179

4.4 Model 1000 weights

	Weight (kg) without transport device
3-chamber	179
4-chamber	233

4.5 Water connections

Fresh water connection	Geka ½"
Wastewater connection	Geka ¾"

5 Safety

This section contains information on the protection of people, pets, livestock and the environment.

5.1 Intended use

The airlock is intended exclusively for the following use:

Intended use

When carrying out remediation work in enclosed spaces, it is important to prevent pollutants from leaving the remediation area in an uncontrolled manner and thus posing a risk to people and the environment.
For this reason, remediation areas are separated from the pollutant-free areas and kept under dynamic negative pressure using negative pressure units.
The ECO-NEXT personnel airlock system was developed and built to allow people to enter and leave these areas. It allows people to enter and exit and to be cleaned without endangering the environment.

The user must comply with the operating parameters specified in the operating instructions. The airlock may only be used for its intended purpose. Any other use beyond this is not in accordance with the intended purpose. The user is liable for any resulting damage or injuries of any kind.

5.2 Misuse

Use of the airlock for the following purposes is not permitted:

Reasonably foreseeable misuse

- Any use other than that described in the operating instructions
- Any use of the airlock other than that described under "Intended use" without the written consent of the manufacturer
- Operation outside the technical limits of use
- Unauthorised modifications or conversions as well as manipulation
- Use, installation, operation, maintenance or repair in a manner other than described
- Work carried out by unqualified personnel
- Use of unsuitable or incompatible materials, operating or auxiliary materials or accessories
- Non-compliance with safety and operating instructions, occupational safety and accident prevention regulations or relevant statutory regulations
- Failure to promptly rectify faults that could impair safety
- Using non-original spare parts or accessories that are not equivalent in quality and function
- Operating the airlock in a technically unsatisfactory condition, not being aware of safety and hazards and not observing all instructions in the documentation
- Use of the airlock in potentially explosive atmospheres

5.3 Notes on occupational health and safety

The operator of the airlock is responsible for the fulfilment of occupational health and safety obligations. The health and safety regulations of the country in which the airlock is used apply.

The obligations include the following points:

- Provide these operating instructions or extracts to persons who carry out tasks with or in connection with the airrlock
- Provide the applicable documents to these persons
- Instruction of persons with regard to the intended use and misuse
- Instruction of persons with regard to protective devices and supplementary protective devices
- Instruction of persons with regard to residual risks

This list is not exhaustive and does not claim to be complete.

6 Transport

This section contains information on transporting the airlock.

Transport is the relocation of the airlock by manual or technical means.

6.1 Loss of warranty claims

The manufacturer's warranty is void in the following cases:

- In the event of modifications to the airlock that have not been agreed with the manufacturer
- If the transport is not carried out properly

6.2 Transport

6.2.1 Transport room

The airlock is transported from one place of use to another.

6.2.2 Legal regulations

The transport of the airlock is carried out in accordance with the legal regulations of the country in which the airlock is being transported.

6.2.3 Qualification of the personnel

Persons transporting the airlock must fulfil the following requirements:

Person	Required qualification
Freight forwarder	Completed training in transport and experience in transport
Logistician	Completed training and experience in transport

6.2.4 Warning of residual risks

Risk of crushing: Wear safety shoes to protect limbs from being run over.

6.2.5 Means of transport

A means of transport that fulfils the following requirements is needed for safe transport:

- The load capacity must be dimensioned so that the mass of the airlock can be safely picked up.
- The size of the transport surface must be dimensioned so that the airlock can be placed safely on the transport surface without falling down.

The airlock may fall down due to unintentional changes in position when loading and unloading onto/from a means of transport.

7 Assembly

This section contains information on the safe installation of the airlock.

Do not operate the airlock if it is visibly damaged. Contact deconta GmbH immediately.

7.1 Preparation

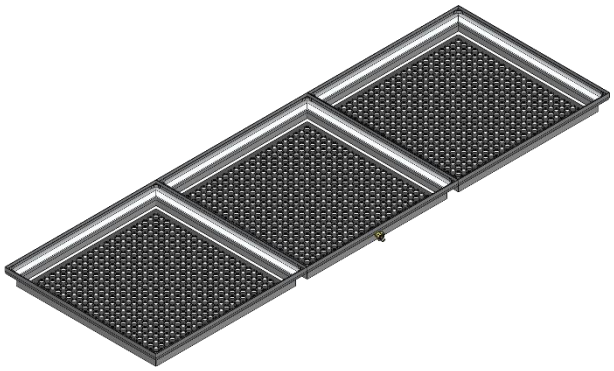
Before installing the airlock:

- Determine the exact position and floor plan
- The surface must be level and clean

7.2 Assembly using the example of a 3-chamber airlock

Place the floor elements flat in front of each other and insert the floor gratings.

If the installation surface is uneven, at least 2 squared timbers with a minimum cross-section of 10 x 10 cm should be placed underneath and aligned along the entire length.



HINWEIS

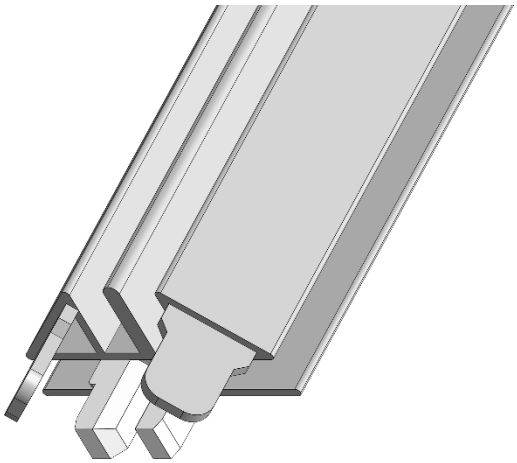
The Geka wastewater connection of the shower enclosure should have the shortest route to the water management system in order to avoid unnecessary hose and cable lengths.

The mounting brackets of the floor tray must be cleaned before inserting the door and side elements!

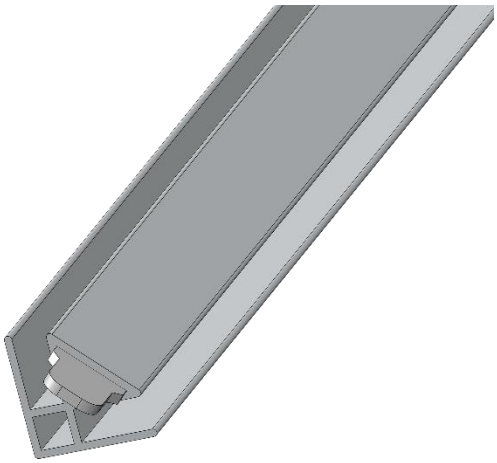
Load capacity of the individual floor elements: max. 150 kg

HINWEIS

Two different corner profiles are used for the ECO-NEXT airlock. As a double corner profile at the connection of two floor or roof elements and as a single corner profile at the 4 corners.



Double corner profile

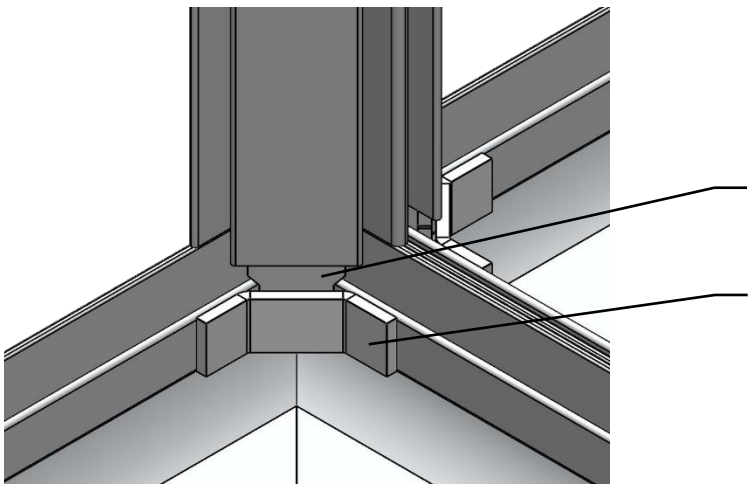


Single corner profile

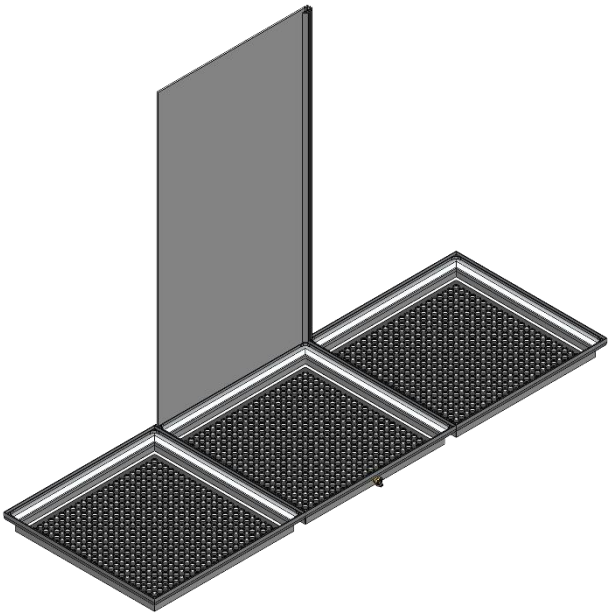
Insert a double corner profile into the mounting brackets at the connecting corner of two floor elements.

HINWEIS

The corner profiles have a lug at **one end** to prevent tilting. This lug must be inserted into the **mounting on the floor element**.

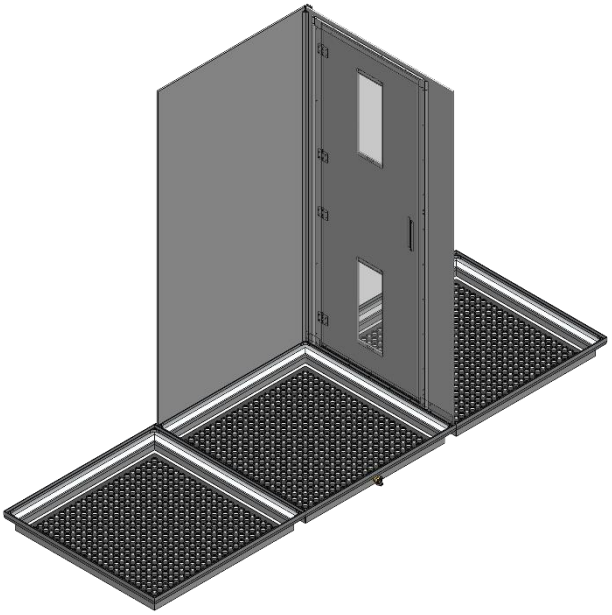


Insert the wall element into the mounting brackets of the floor element and the corner profile.

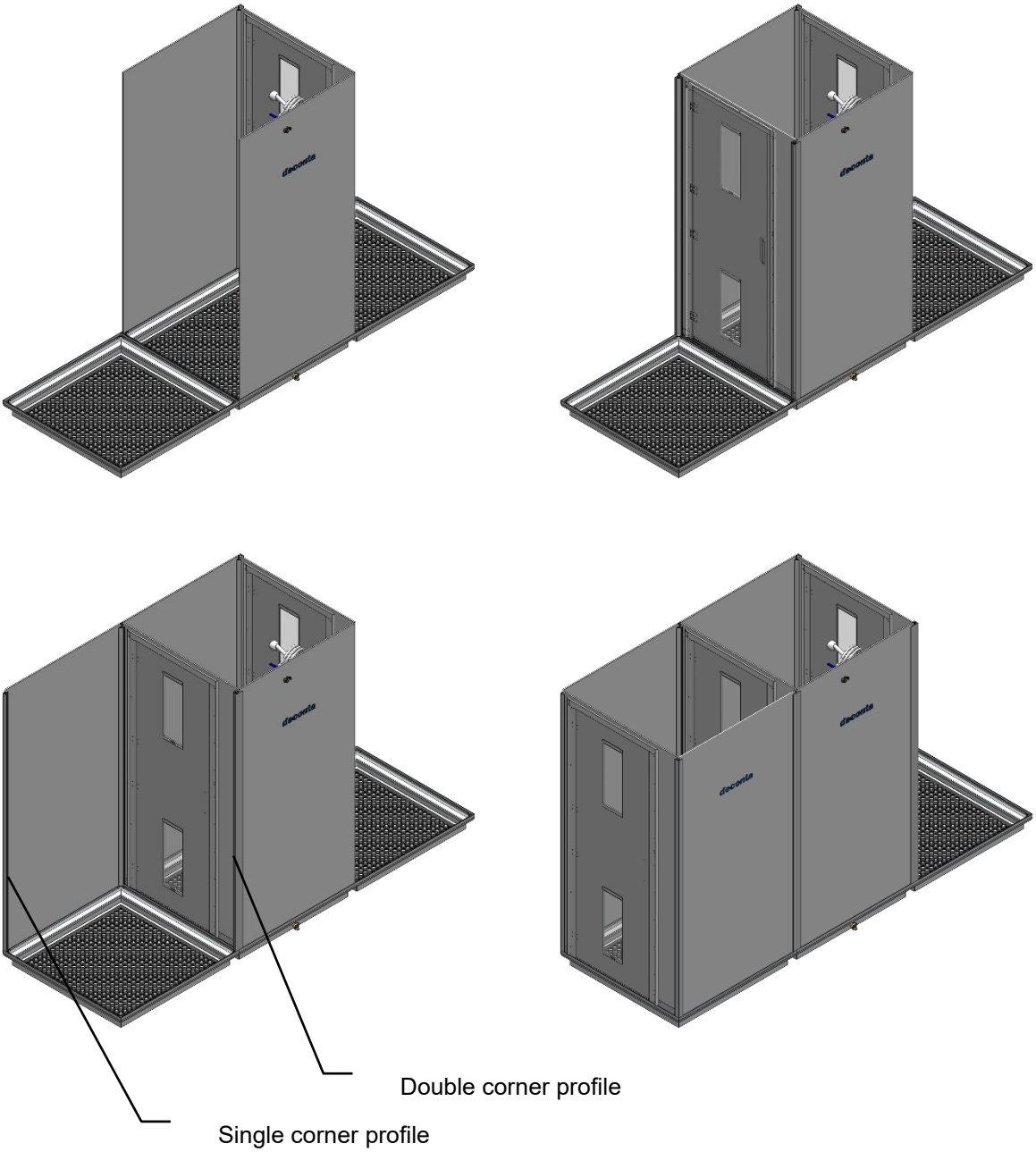


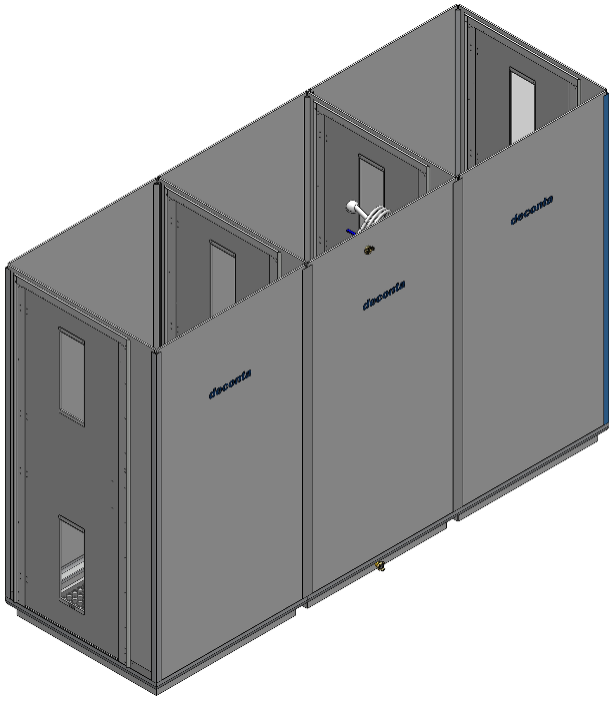
Insert the door element into the mounting brackets of the floor element and the corner profile.

HINWEIS	To prevent the shower water from leaking, make absolutely sure that the door elements to the shower are installed in the shower base support profile!

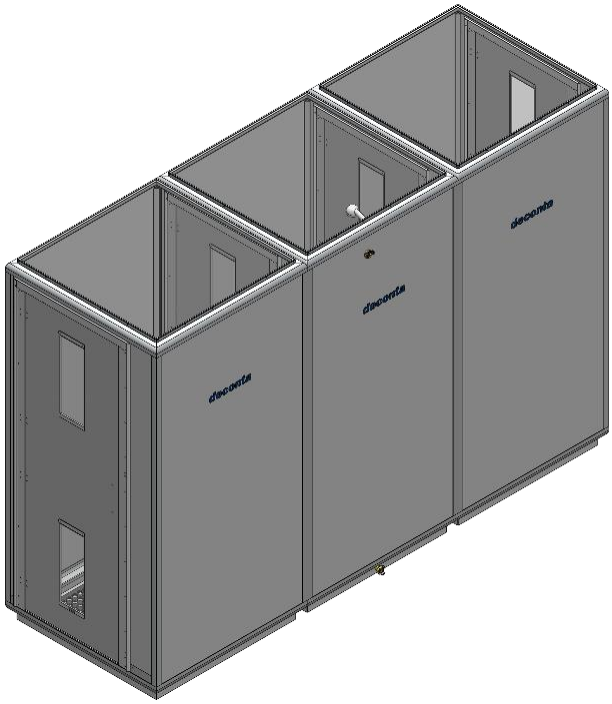


The following pictures show the further assembly.





Attach roof elements.



8 Commissioning

If available, switch on the water management system (see water management instructions)

The sanitation area can now be entered and exited through the airlock.

8.1 Option decoLINK: Radio control for automatic showering

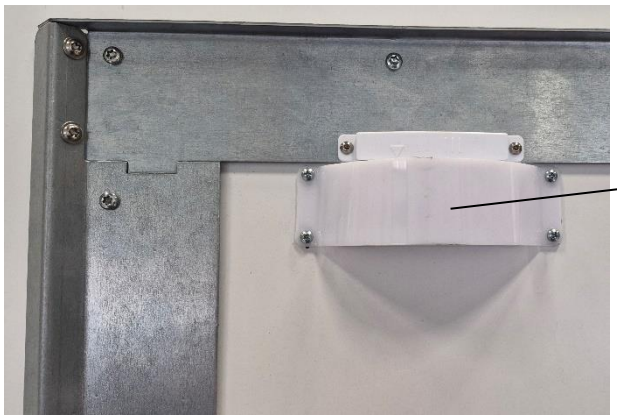
In this version, the shower process is automatically activated when leaving the work area through the airlock, triggered by radio reed contacts mounted above the shower doors.

This is only possible in conjunction with certain deconta water management systems, as the showering process is controlled by the water management system.

8.1.1 Airlock process

Entering the sanitation area through the airlock, the shower is not activated.

Leaving the work area through the airlock; the shower is activated by radio reed contacts mounted above the shower doors.



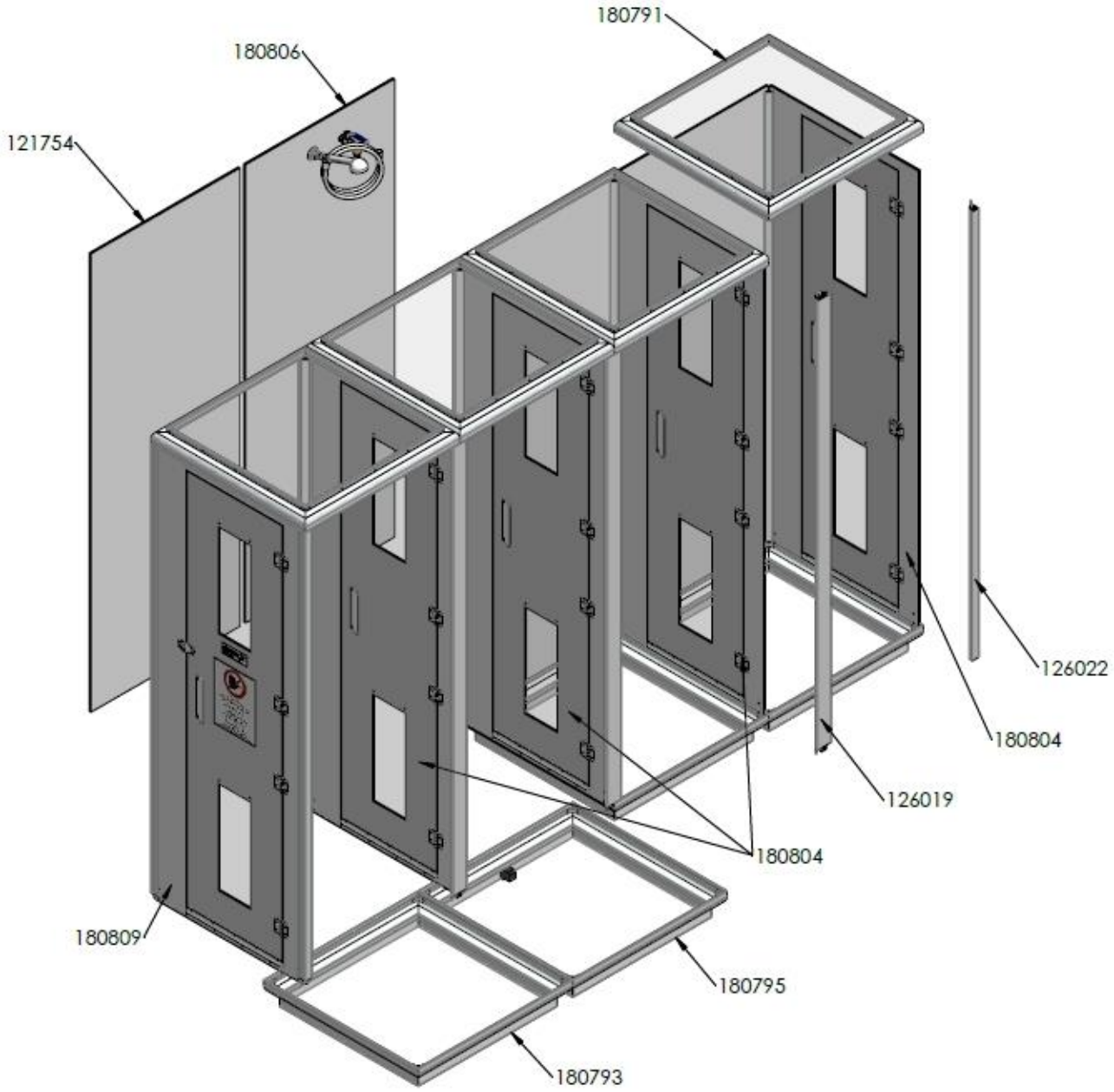
- Entering the shower chamber
- Close the door
- the shower is activated for a preset time of 90 seconds
- After the showering process is complete, leave the shower chamber and close the door, the wastewater pump of the water management system continues to run for a preset follow-up time of 30 seconds

If the shower is exited before the 90-second shower time has elapsed, this triggers an acoustic alarm via a signal horn built into the water management system. This alarm can only be cancelled by pressing the Reset button.

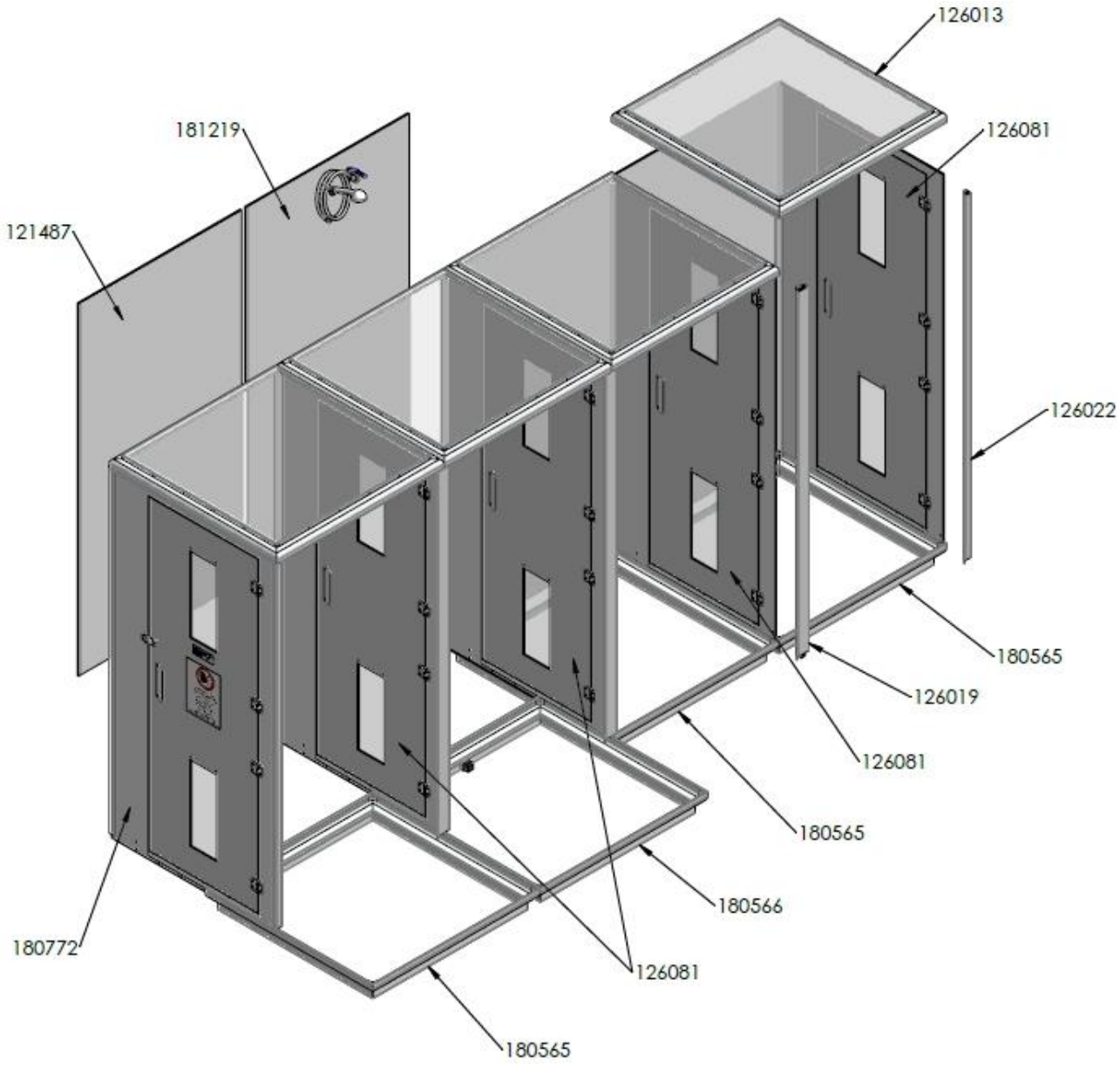
9 Spare parts

Original spare parts should be used to ensure safe, trouble-free and economical use of the airlocks.

9.1 Model 750



9.2 Model 1000



10 Maintenance

Daily maintenance

- Check the water pipes for free flow
- Clean the airlock area daily
- Thoroughly damp clean the airlocks at the end of each shift
- Check the floor elements for free flow

Commercially available household cleaners can be used for cleaning and maintenance.

11 Possible faults and how to rectify them

Fault	Possible cause	Remedy
Shower water in the next room	Shower door(s) installed in the wrong floor pan	Correct incorrect installation
Difficulties when installing wall and floor elements	Mounting brackets are dirty	Clean the mounting bracket
Difficulties installing wall and floor elements	Mounting brackets are bent	Straighten the mounting bracket

12 Storage

This section contains information on the safe storage of the airlock.

The airlock is stored in the following cases:

- After decommissioning for a longer period of non-use
- After decommissioning for relocation

12.1 Prerequisites

The following requirements must be met before the airlock can be stored:

- thoroughly cleaned (decontaminated)
- To avoid damage, the airlock may only be stored in dry rooms that are inaccessible to unauthorised persons

We expressly refer to possible additional regional and national regulations for the storage of the equipment.

13 Disposal

Disposal is the collection, collection, transformation, selection, processing, regeneration, destruction, utilisation and sale of the materials to be disposed of that are installed in the airlock.

This section contains information on the proper and professional disposal of the airlock.

13.1 Qualification of personnel

Persons who dispose of the airlock must fulfil the following requirements:

Person	Required qualification
Disposer	Qualified waste management company for the legally compliant, proper and professional disposal of the airlock

13.2 Legal regulations

The airlock is disposed of in accordance with the legal regulations of the country in which the airlock is disposed of.

The operator of the airlock or the person authorised to dispose of it is responsible for compliance with these legal regulations.

14 EC Declaration of Conformity

The manufacturer

deconta GmbH
Im Geer 20
46419 Isselburg

hereby declares that the following product

Product designation:	Personnel airlock ECO-NEXT model 750 / 1000
Trade name:	Personnel airlock ECO-NEXT

Description:

Personnel airlock in a modular system for separating contaminated and clean areas. Any number of chambers can be interconnected without special components and without tools.

complies with all relevant provisions of the applicable legislation (hereinafter), including any amendments thereto in force at the time of the declaration. The sole responsibility for issuing this declaration of conformity lies with the manufacturer.

The following legislation has been applied:

RoHS Directive 2011/65/EU

The following harmonised standards have been applied:

EN IEC 63000:2018	Technical documentation for the assessment of electrical and electronic equipment with respect to the restriction of hazardous substances (IEC 63000:2016)

Location: Isselburg

Date: 12.02.2026

Leiter Konstruktion / head of construction

Leiter Elektro / head of electro