


Operating instructions (original)

Negative pressure unit smart dec S 500 SE

Type 852



	deconta GmbH Im Geer 20 46419 Isselburg	Phone: 02874/9156-0 Fax: 02874/9156-11 E-Mail: info@deconta.com Web: www.deconta.com	Language: EN
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1	Product and manufacturer	4
1.1	Product.....	4
1.2	Manufacturer	4
1.3	Change index	4
2	About these operating instructions.....	5
2.1	Purpose.....	5
2.2	Availability	5
2.3	Warnings.....	6
2.3.1	Warning words and warning colours	6
2.3.2	Structure	6
2.4	Symbols	7
2.4.1	Warning signs.....	7
2.4.2	Instruction sign	7
3	Description of the machine.....	8
3.1	General description	8
3.2	Scope of delivery	8
3.3	Return delivery after termination of a rental	8
3.4	Operating modes.....	9
3.4.1	Available operating modes.....	9
3.5	Interfaces	9
3.6	Type plate	10
3.6.1	Contents	10
3.6.2	Execution.....	10
3.6.3	Position.....	10
4	Technical data.....	11
4.1	Dimensions	11
4.2	Weights, without filter	11
4.3	Performance data.....	11
4.4	Performance data with double filtration (SNAP).....	12
4.5	Ambient conditions	12
4.6	Noise emission	13
4.7	Filter description / classification	14
5	Security	16
5.1	Intended use	16
5.2	Misapplication	17
5.3	Tasks and qualifications of staff.....	18
5.4	Notes on occupational safety.....	19
6	Transport.....	20
6.1	Loss of warranty claims	20
6.2	External transport.....	20
6.2.1	Transport space.....	20
6.2.2	Legislation	20

6.2.3	Qualification of staff	20
6.2.4	Warning of residual risks.....	20
6.2.5	Means of transportation	21
6.3	Internal transport	21
6.3.1	Transport space.....	21
6.3.2	Legislation	21
6.3.3	Warning of residual risks.....	21
6.3.4	Means of transportation	21
7	Assembly.....	22
8	Operation.....	23
8.1	Qualification of staff	23
8.2	Warning of residual risks	23
8.3	Number of persons	23
8.4	Tools required	23
8.5	Equipment required	23
8.6	SE control unit.....	24
8.6.1	Room pressurisation	24
9	Maintenance.....	25
9.1	Loss of warranty claims	25
9.2	Maintenance.....	25
9.3	Warning of residual risks	25
9.3.1	Personal protective equipment required.....	26
9.4	Information on changing the filter	26
9.5	Filter change	27
9.5.1	Procedure	28
9.6	Troubleshooting and fault rectification	31
9.6.1	Possible faults and instructions for rectifying faults	31
10	Storage.....	32
10.1	Ambient conditions	32
10.2	Prerequisites	32
11	Waste disposal.....	33
11.1	Qualification of staff	33
11.2	Legislation	33
11.3	Waste.....	33
12	EC Declaration of Conformity	34

1 Product and manufacturer

1.1 Product

The following product is described in these operating instructions:

Negative pressure unit smart dec S 500 SE.

1.2 Manufacturer

Name and address	deconta GmbH Im Geer 20 46419 Isselburg
	
Telephone	02874/9156-0
Fax	02874/9156-11
e-mail	info@deconta.com
Internet	www.deconta.com

1.3 Change index

date	Version	Amendment	Responsible
08.02.2024	1	New creation	Thomas Boland

2 About these operating instructions

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

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

2.1 Purpose

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

This information is intended for persons who perform tasks with or in connection with the machine.

The following table provides an overview of people and tasks.

Person	Task
Operator	<< Machine-specific >>
Occupational safety specialist	<ul style="list-style-type: none"> • Carry out a risk assessment • Create operating instructions • Instruct persons
Maintenance technician	Maintenance of the mechanics
Qualified electrician (EFK)	Installation and maintenance of electrical equipment
Freight forwarder	External transport of the machine
Conveyor	Internal transport of the machine
Disposer	Dispose of the machine in a legally compliant, proper and professional manner

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 machine.

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

If the machine is handed over to another person, the operator passes these operating instructions on to this person.





2.3 Warnings

These operating instructions contain warnings of residual dangers.

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

2.3.1 Warning words and warning colours

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

Warning word	Meaning	Warning colour
DANGER	Consequence of non-compliance: Death or serious injury.	
WARNING	Consequence of non-compliance: Death or very serious injuries possible.	
CAUTION	Consequence of non-compliance: Serious or minor injuries possible.	
NOTE	Consequence of non-compliance: Material damage or environmental damage possible.	
SAFE HANDLING	Implement the following instructions.	-

2.3.2 Structure

Warnings are structured according to the SAFE method:

S	Warning 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 of the hazard for humans, animals and the environment
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 signs

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
	Warning of electrical voltage		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 symbols used and their meaning.

Symbol	Meaning	Symbol	Meaning
	Wear safety shoes		Use protective clothing

3 Description of the machine

This section contains information on understanding the machine.

3.1 General description

General description of the product

The machine (the Negative pressure unit) was designed and built by the company deconta GmbH, Im Geer 20, 46419 Isselburg.

Negative pressure unit for filtering asbestos-contaminated room air via a 2-stage filter unit. The built-in HEPA filter fulfils the requirements of EN 1822 class H 13 or H 14.

Procedure for carrying out the risk assessment for machinery

- Language of the risk assessment: German
- Risk assessment: EN ISO 12100 Safety of machinery - General principles for design - Risk assessment and risk reduction, three-stage iterative process for risk reduction in conjunction with Machinery Directive 2006/42/EC, Annex I, first general principle
- Risk assessment: DIN ISO/TR 14121-2 Safety of machinery - Risk assessment - Part 2: Practical guide and examples of procedures, 6.3 Risk graph; Determination of the required performance level (PLr): EN ISO 13849-1 Safety of machinery - Safety-related parts of control systems - Part 1: General principles for design; Determination of the SIL (Safety Integrity Level): EN 62061 Safety of machinery - Functional safety of safety-related electrical, electronic and programmable electronic control systems

3.2 Scope of delivery

The scope of delivery of the machine includes the following items:

- Negative pressure unit smart dec
- These operating instructions
- Suction adapter
- Sealing plugs

3.3 Return delivery after termination of a rental

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

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

3.4 Operating modes

3.4.1 Available operating modes

Type of utilisation

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

Use for other types of utilisation is not in accordance with the intended purpose.

User groups

- Commercial users

Utilisation environment

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

Operating modes

Operating modes for use:

- Manual operation

3.5 Interfaces

This section contains information about interfaces.

The following interfaces are available on the machine:

- Human - product: Control panel
- Product - power supply: Electrical power supply 230 V
- Product - waste products: Connection piece for clean air
- Product - material feed: connection nozzle for contaminated air
- Product - building: feet or castors

3.6 Type plate

The rating plate contains information for identifying the machine.

3.6.1 Contents

The following illustration shows an example nameplate.



3.6.2 Execution

Aluminium plate, riveted

3.6.3 Position

Near the control panel on the outlet side.

4 Technical data

4.1 Dimensions

Length x width x height 1080 x 750 x 1145 mm

4.2 Weights, without filter

Negative pressure unit 117 kg

SNAP double filtration 42 kg

4.3 Performance data

All data on air performance and volume flow rates taking into account a measurement tolerance of $\pm 15\%$ in relation to the full-scale value, determined in a multi-point measurement procedure with a calibrated vane anemometer.

Air flow free-blowing max.	13300 m ³ /h
Air flow rate with deconta H13 filter, max.	10850 m ³ /h
Air flow rate with deconta H13 filter, pre-filter, max.	10300 m ³ /h
Power connection	230 V
Power consumption	13 A
Engine power	2x 1.3 kW
Power cable type	H07RN-F 3G1.5
Protection class	I
Protection class	IP 54
Filter system	2-stage
Pre-filter	EU 4
HEPA filter	according to EN 1822 class H13

4.4 Performance data with double filtration (SNAP)

All data on air performance and volume flow rates taking into account a measurement tolerance of $\pm 15\%$ in relation to the full-scale value, determined in a multi-point measurement procedure with a calibrated vane anemometer.

The appliance can be equipped with double filtration (2x HEPA filters in series) using an optional "SNAP" add-on housing.

When using double filtration, the maximum volume flow and the device dimensions change.

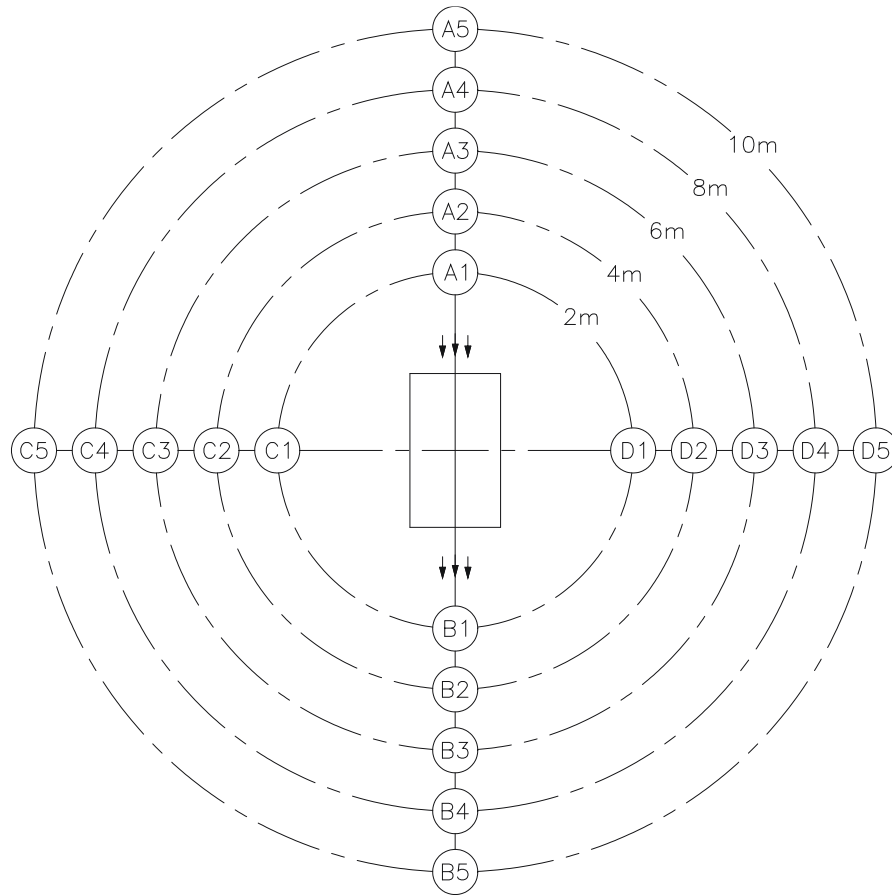
The modified technical data can be found in the following tables.

Air flow rate with deconta H13 filter (double filtration), max.	8350 m ³ /h
Air flow rate with deconta H13 filter (double filtration), pre-filter, max.	7800 m ³ /h
Length with "SNAP" add-on housing	1480 mm

4.5 Ambient conditions

Ambient temperature	0 °C to +45 °C
Relative humidity	70 % non-condensing

4.6 Noise emission



Status:

Engine power 100%, outdoor area, values in dB (A)

Device	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	C1 D1	C2 D2	C3 D3	C4 D4	C5 D5
S 500	73	67	65	63	60	75	69	66	65	64	69	66	63	62	61

The sound level can be reduced by fitting a silencer, taking power losses into account.

4.7 Filter description / classification

A 2-stage filter combination is integrated in the appliance

In detail:

	Pre-filter
Quality class according to DIN 24185 / EN 779	G4 / EU4
Frame	Cardboard frame, 47 mm wide
Filter medium	Synthetic
Degree of separation (Am)	90 %
Nominal volume flow:	5400m ³ /h/m ²
Nominal face velocity at nominal volume	1.5 m/s
Initial pressure difference	42 Pa
Recommended final pressure differential	250 Pa
Temperature / humidity	100°C/100% RH (relative humidity)
Filter dimensions (in mm):	610 x 910 x47

HEPA filter

Filter medium	Micro glass fibre paper
Potting compound	Polyurethane
Gasket	Polyurethane
Filter class	H13 or H14 according to EN 1822
Temperature / humidity	70°C/100% RF (relative humidity)
Filter dimensions (in mm):	610 x 910 x 400
Handle protection	on both sides

5 Security

This section contains information on the protection of humans, pets, farm animals and the environment.

5.1 Intended use

The machine is intended exclusively for the following use:

Intended use

The Negative pressure unit is used for filtering non-condensing room air contaminated with asbestos fibres, in the temperature range up to +45 °C, with exhaust air discharge to the outside.

When carrying out asbestos removal work in enclosed spaces, it is important to prevent asbestos fibres from leaving the removal area and thus posing a risk to people and the environment. For these reasons, removal areas (also known as contaminated areas) are separated from asbestos-free areas and kept under dynamic negative pressure using Negative pressure units.

An integrated filter system ensures that the concentration of asbestos fibres in the exhaust air is not exceeded. The exhaust air is channelled outside.

The appliance is not suitable for filtering flammable gases or dusts.

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

Authorised persons

The following persons are authorised to handle the product:

- Specialised personnel
 - Task: Maintenance and servicing
 - Qualification: trained specialist personnel (fitters, industrial mechanics, electricians) with knowledge and experience in handling the machine
- Operating personnel
 - Task: Operation
 - Qualification: Training activity, information through operating instructions

Any other use is not in accordance with the intended use.

Field of application

The machine is intended for use in the following areas of application:

Field of application

- Refurbishments

5.2 Misapplication

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

Reasonably foreseeable misuse

- Any application other than that described in the operating instructions
- Any use of the machine other than that described under "Intended use" without the written consent of the manufacturer
- Operation outside the technical application limits
- Unauthorised modifications or conversions and tampering
- 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 jeopardise safety
- Use of non-original replacement parts or accessories that are not equivalent in quality and function
- Operating the machine in a technically unsatisfactory condition, not being aware of safety and hazards and not observing all instructions in the documentation

5.3 Tasks and qualifications of staff

Person	Task	Required qualification
Operator	<< Machine-specific >>	Instruction, training
Occupational safety specialist	<ul style="list-style-type: none"> • Carry out a risk assessment • Create operating instructions • Instruct persons 	Completed training as an occupational safety specialist with recent experience with machines
Qualified electrician	Installation and maintenance of electrical equipment	A person with suitable training, appropriate education, timely experience and knowledge of the relevant regulations that enables them to recognise risks and avoid hazards that may arise from electricity.
Freight forwarder	External transport of the machine	A person with suitable training, appropriate education, up-to-date experience and knowledge of the relevant regulations, who is able to transport machines safely off-site.
Conveyor	Internal transport of the machine	A person with suitable training, appropriate education, up-to-date experience and knowledge of the relevant regulations, who is able to transport machines safely within the company.
Disposer	Dispose of the machine	Qualified waste disposal company for legally compliant, proper and professional disposal of the machine

5.4 Notes on occupational safety

The operator of the machine is responsible for implementing the obligations arising from occupational health and safety. The health and safety regulations of the country in which the machine is used apply.

The obligations include the following points:

- make these operating instructions or extracts available to persons who carry out tasks with or in connection with the machine
- 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 external and internal transport of the machine.

Transport is the movement of the machine 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 machine that have not been agreed with the manufacturer
- If the transport is not carried out properly

6.2 External transport

6.2.1 Transport space

Off-site transport takes place in public areas. The machine is transported from one location to another.

6.2.2 Legislation

The off-site transport of the machine is carried out in accordance with the legal regulations of the country in which the machine is transported off-site.

6.2.3 Qualification of staff

Persons transporting the machine outside the company must fulfil the following requirements:

Person	Required qualification
Freight forwarder	Completed training in transport and experience in the external transport of machines
Logistician	Completed training and experience in the internal transport of machines

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 transportation

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

- The load capacity must be dimensioned so that the mass of the machine can be safely supported.
- The size of the transport surface must be dimensioned so that the machine can be parked safely on the transport surface without falling.



Machine may fall down due to unintentional change of position when loading and unloading onto/from a means of transportation.

6.3 Internal transport

6.3.1 Transport space

During internal transport, the machine is transported from one installation location to another on the company premises.

6.3.2 Legislation

The internal transport of the machine is carried out in accordance with the legal regulations of the country in which the machine is transported outside the company.

6.3.3 Warning of residual risks



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

6.3.4 Means of transportation

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

- The load capacity must be dimensioned so that the mass of the machine can be safely supported.
- The size of the transport surface must be dimensioned so that the machine can be parked safely on the transport surface without falling.



Machine may fall down due to unintentional change of position when loading and unloading onto/from a means of transportation.

7 Assembly

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

The Negative pressure unit is delivered ready for operation ex works and is intended for immediate commissioning.

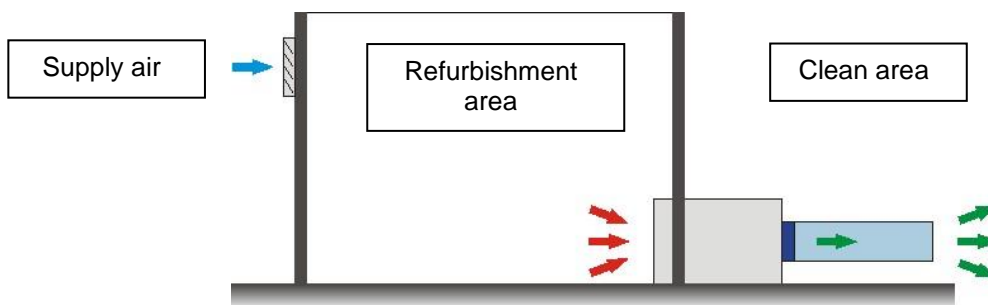
Do not operate the appliance if it is visibly damaged. Contact deconta GmbH immediately.

HINWEIS

Please note: In principle, the Negative pressure unit can also be operated directly in the contaminated area (pressurisation technology prevents contaminated ambient air from entering the housing).

However, as the appliances are contaminated from the outside and therefore have to be thoroughly cleaned after the refurbishment is complete, use in contaminated areas should be avoided at all costs.

- Integrate the appliance into the partition wall between the clean and refurbishment areas
- Insert approx. 100 mm into the renovation area
- Seal appliance with partition wall
- Route the exhaust air hose to the outside
- Ensure sufficient supply air in the refurbishment area



⚠ GEFÄHR

Never use the appliance without correctly installed filters that are approved for the respective requirement. Avoid blowing out unfiltered air.

8 Operation

This section contains information for the safe use of the machine.

8.1 Qualification of staff

Persons using the machine must fulfil the following requirements:

Person	Required qualification
Operator	Instruction, training by the manufacturer

8.2 Warning of residual risks



Contact with wires of a damaged mains connection cable.

Touching machine parts that have become live due to faulty conditions.

Damage due to unsuitable mains voltage.



The appliance may be damaged if it is connected to an unsuitable mains voltage.

Check whether the voltage specified on the rating plate corresponds to the local mains voltage.

The following materials must not be filtered:



- Hot materials (smouldering cigarettes, hot ashes, etc.)
- Flammable, explosive, aggressive materials and dusts

8.3 Number of persons

One person is required to use the machine.

8.4 Tools required

No tools are required to use the machine.

8.5 Equipment required

No equipment is required to use the machine.

8.6 SE control unit

The Negative pressure unit is supplied with a manual stepless control for power regulation.



- Establish power connection
- Actuate controller

8.6.1 Room pressurisation

- Set the desired negative pressure at the supply air opening or on the infinitely variable regulator
 - ⇒ Negative pressure too high: Open supply air opening or turn down appliance
 - ⇒ Negative pressure too low: Close the supply air opening or regulate the appliance upwards

9 Maintenance

This section contains information for the safe maintenance of the machine.

Maintenance comprises all technical and organisational measures during the life cycle of the machine that ensure the safe, economical and functional condition of the machine and prevent environmental damage.

9.1 Loss of warranty claims

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

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

9.2 Maintenance

Maintenance work, including changing/removing filters, may only be carried out by authorised persons wearing suitable protective clothing.

The appliance must be completely disconnected from the power supply for all repair and maintenance work.

We expressly refer to possible additional regional and national regulations for the maintenance of the appliance technology.

The ventilation systems (dust extractors, industrial hoovers and devices used for ventilation or negative pressure maintenance) must be serviced as required, but at least once a year, repaired if necessary and inspected by an expert. The test results must be presented on request.

Devices with SRE connect control should be checked and calibrated once a year by deconta service.

9.3 Warning of residual risks



Contaminated filters may only be changed in compliance with all relevant safety precautions.

Only change filters when the appliance is switched off. Only use approved filters.



Do not use any residual fibre binders on the appliance.



Pull out the mains plug before opening the housing

9.3.1 Personal protective equipment required



Maintenance work, including changing/removing filters, may only be carried out by authorised persons wearing suitable protective clothing.

9.4 Information on changing the filter

The frequency of the filter change depends on the degree of soiling of the filters. As the filter occupancy increases (filter soiling), the air performance decreases.

A pressure gauge is fitted to appliances with SE control to monitor the filter during operation.



The following table shows the display values for a recommended filter change. If the display reaches this value, please replace the pre-filter first. If the display value drops by 100 Pascal or more, the appliance can continue to be operated. If the value drops by less than 100 Pascal, the HEPA filter must be replaced.

Device	Recommended filter change for
S 500	approx. 850 Pascal

9.5 Filter change



Contaminated filters may only be changed in compliance with all relevant safety precautions. Only change filters when the appliance is switched off. Only use approved filters.



Do not use any residual fibre binders on the appliance.



Pull out the mains plug before opening the housing



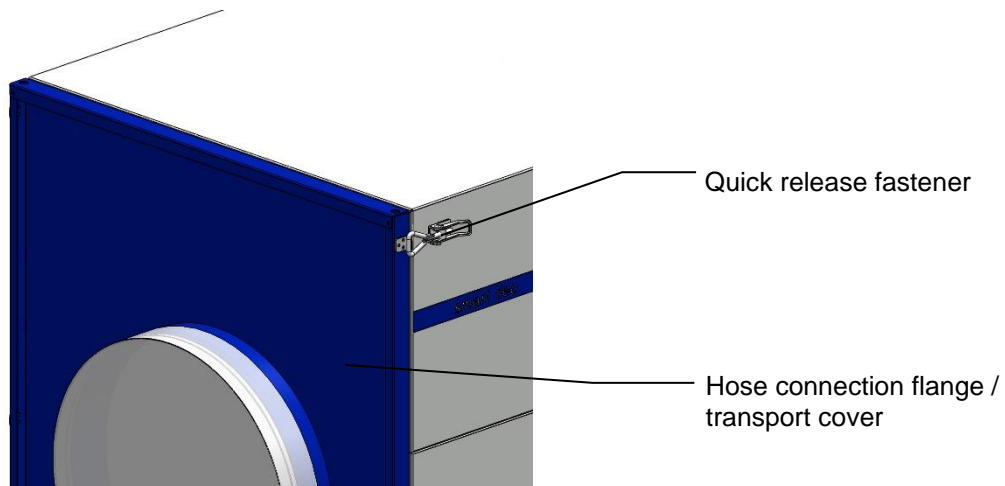
Maintenance work, including changing/removing filters, may only be carried out by authorised persons wearing suitable protective clothing.

9.5.1 Procedure

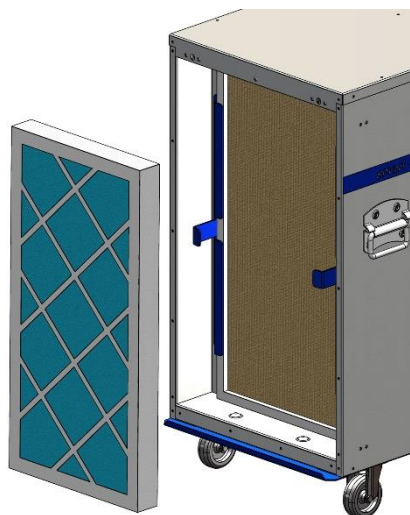
- Release the quick-release fastener and remove the hose connection flange / transport cover.

HINWEIS

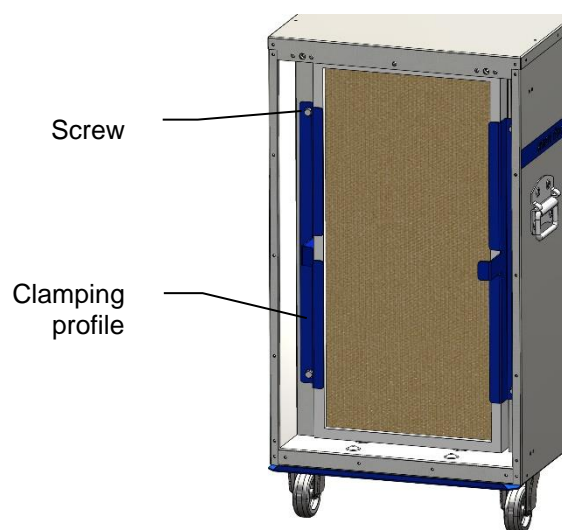
Risk of crushing fingers when fitting / removing connecting flanges



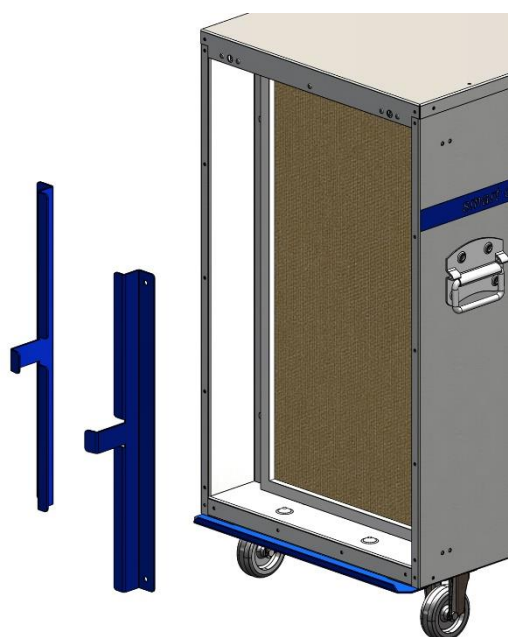
- Remove the pre-filter and dispose of it in accordance with regulations



- Unscrew the screws of the clamping profiles



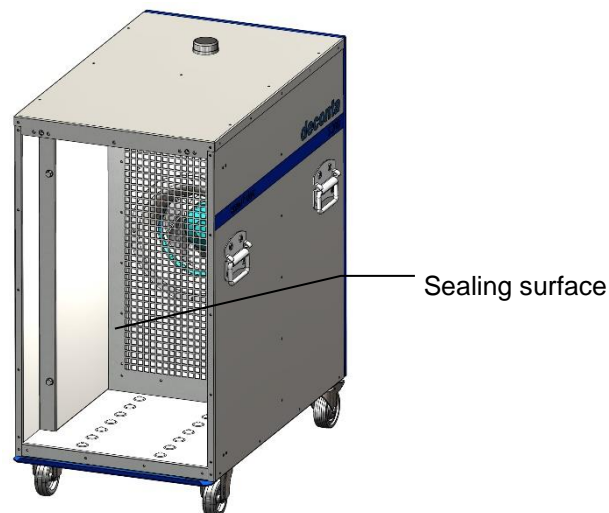
- Remove clamping profiles



- Remove the HEPA filter and dispose of it in accordance with regulations



- Check and clean the sealing surface on the appliance



- Clean the inside of the housing and insert a new main filter **in the centre**
- Insert clamping profiles and screws (tighten screws evenly)
- Insert pre-filter
- Fitting the hose connection flange

HINWEIS

The appliances have only been tested with original deconta HEPA filters. To ensure machine safety, only original deconta filters should be used. If this is not observed, machine safety cannot be guaranteed. This may result in the unintentional and uncontrolled release of hazardous substances into the environment due to filter overload (leakage, filter tear, etc.).

9.6 Troubleshooting and fault rectification

This section contains information on safe troubleshooting and fault rectification for the machine.

9.6.1 Possible faults and instructions for rectifying faults

The following table provides an overview of faults and troubleshooting measures.

Malfunction	Possible cause	Measure
Negative pressure too low	Pre-filter or main filter dirty	Change the filter as described under 9.5 described
Device does not work	Power source not in order	Power source to be inspected and repaired by a qualified electrician
Device does not work	Components on the vacuum holding device defective	Have the device repaired by deconta or a workshop authorised by deconta.

10 Storage

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

The machine is stored in the following cases:

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

10.1 Ambient conditions

The machine can be stored under the following ambient conditions:

Ambient temperature	0 °C to +45 °C
Relative humidity	70 % non-condensing

10.2 Prerequisites

The following requirements must be met for storing the machine:

- Thoroughly cleaned (decontaminated)
- with fitted transport/sealing lid

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

11 Waste disposal

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

This section contains information on the proper and correct disposal of the machine.

11.1 Qualification of staff

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

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

11.2 Legislation

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

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

11.3 Waste

The waste generated by the machine must be disposed of properly and professionally in accordance with the law.

12 EC Declaration of Conformity

The manufacturer / distributor

deconta GmbH
Im Geer 20
46419 Isselburg

hereby declares that the following product

Product designation: smart dec S 500 SE
Type designation: 852
Serial number: see type plate
Trade name: Negative pressure unit smart dec S 500 SE
Year of manufacture: see type plate
Description: Negative pressure unit smart dec S 500 SE

complies with all relevant provisions of the applicable legal regulations (hereinafter) - including their amendments valid at the time of the declaration. This declaration of conformity is issued under the sole responsibility of the manufacturer. This declaration relates only to the machine in the state in which it was placed on the market; parts and/or modifications subsequently fitted by the end user are not taken into account.

The following legal provisions were applied:

Machinery Directive 2006/42/EC
EMC Directive 2014/30/EU
RoHS Directive 2011/65/EU

The protection targets of the following other legal regulations were met:

Low Voltage Directive 2014/35/EU

The following harmonised standards were applied:

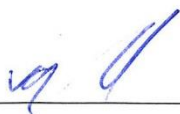
EN 60204-1:2018	Safety of machinery - Electrical equipment of machines - Part 1: General requirements (IEC 60204-1:2016 (Modified))
EN 61000-6-2:2005	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments (IEC 61000-6-2:2005)
EN ISO 12100:2010	Safety of machinery - General principles for design - Risk assessment and risk reduction (ISO 12100:2010)
EN ISO 13849-1:2015	Safety of machinery - Safety-related parts of control systems - Part 1: General principles for design (ISO 13849-1:2015)
EN ISO 13849-2:2012	Safety of machinery - Safety-related parts of control systems - Part 2: Validation (ISO 13849-2:2012)
EN ISO 13857:2019	Safety of machinery - Safety distances to prevent hazard zones being reached by the upper and lower limbs (ISO 13857:2019)

Name and address of the person authorised to compile the technical documentation:

Boland, Thomas - deconta GmbH - Im Geer 20 - 46419 Isselburg

Place: Isselburg

Date: 24.01.2024



Leiter Konstruktion / head of construction



Leiter Elektro / head of electro