

# Operating instructions (original)

## Dedusting system ME 8000 SE

Type 634



	deconta GmbH Im Geer 20 46419 Isselburg	Telephone: 02874/9156-0 Fax: 02874/9156-11 E-mail: info@deconta.com Web: www.deconta.com	Language: EN
			Version: 1
			Date of issue:
			10.03.2026

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## 1 Product and manufacturer

### 1.1 Product

The following product is described in these operating instructions:

Dedusting system ME 8000 SE.

Types: 634

### 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
24.07.2023	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"> <li>• Carry out a risk assessment</li> <li>• Create operating instructions</li> <li>• Instruct persons</li> </ul>
Maintenance engineer	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 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.	
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:

<b>S</b>	Signal word (DANGER; WARNING, CAUTION or NOTICE)
<b>A</b>	Type and source of danger Description of the hazard and the cause of the hazard
<b>F</b>	Consequence Description of the possible consequences of the hazard for humans, animals and the environment
<b>E</b>	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
	Crushing hazard		

### 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
	Use hearing protection		Use protective clothing
	Wear safety shoes		Use head protection
	Use hand protection		

### **3 Description of the machine**

This section contains information on understanding the machine.

#### **3.1 General description**

##### **General description of the product**

The dedusting system was designed and built by deconta GmbH, Im Geer 20, 46419 Isselburg.

The mobile deconta dust extraction system with regenerable filter system (automatic cleaning) and HEPA filters is designed for universal use in dust disposal applications such as façade cleaning, boiler cleaning, concrete renovation, demolition and sandblasting work.

Dust sources are extracted by the mobile dust extractor via flexible hose lines. The dust separated by the filter system is collected in the dust bunker. The contents of the bunker can be emptied into a big bag via a flap.

##### **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:

- Dedusting system ME 8000 SE
- These operating instructions

#### **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 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:

- Automatic mode
- 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 400 V
- Product - Material supply: Connecting piece for contaminated air
- Product - Waste products: Dust bunker, Big-Bag

**3.6 Type plate**

The rating plate contains information for identifying the machine.

**3.6.1 Execution**

Aluminium plate, riveted

**3.6.2 Position**

Near the control panel on the outlet side.

## 4 Technical data

### 4.1 Dimensions and weights

Length	2200 mm
Width	1735 mm
Height	2440 - 3440 mm
Weight	approx. 1300kg (empty)
Bunker volume	approx. 0.25 m <sup>3</sup>

### 4.2 Performance data

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

If an RCD is used, only all-current sensitive RCDs (type B or B+) are permitted.

#### **HINWEIS**

When the power supply to the device is switched on, pulsed charging currents of the capacitors in the integrated EMC filter can lead to the tripping of RCDs with instantaneous tripping.

We recommend residual current circuit-breakers with delayed tripping (super-resistant).

Power connection 400 V / 32 A, 5-pin CEE appliance plug

Compressed air connection 4 - 6 bar

Hose connection 2 x NW 300 mm

Earthing connection M8 stud bolt for eyelet

### Fan performance data Dedusting operation

Motor power 15 kW

Power consumption 28 kW (at full load)

Total pressure increase 4443 Pa

Air flow rate with filters 8,000 m<sup>3</sup>/h (in dedusting mode)



Wear hearing protection in the immediate vicinity of the dust extraction system

**4.3 Filter description / classification**

A 2-stage filter combination is integrated in the appliance

**In detail:**

**4.3.1 Regenerative filter stage**

Filter medium	Polyester fleece with PTFE membrane
Gasket	lathered
Filter area	3,5m <sup>2</sup>
Filter class	BIA- according to ZH 1/487 para. 2
Dimensions	Nominal diameter 160mm Length 983 mm

**4.3.2 HEPA filter**

Filter medium	Micro glass fibre paper
Potting compound	Polyurethane
Gasket	Polyurethane
Filter class	H13 or H 14 according to EN 1822
Temperature / humidity	70°C/100% RF (relative humidity)
Filter dimensions (in mm)	610 x 910 x 292
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:

Dust extraction system for collecting mineral, metallic and other dry fine and coarse dust in the air.

Any other use is not an intended use.

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.

## 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 limits of use
- 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**

<b>Person</b>	<b>Task</b>	<b>Required qualification</b>
Operator	<< Machine-specific >>	Instruction, training
Occupational safety specialist	<ul style="list-style-type: none"> <li>• Carry out a risk assessment</li> <li>• Create operating instructions</li> <li>• Instruct persons</li> </ul>	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



Wear safety shoes. Loads may fall or be set down inaccurately. Serious injuries to feet and toes are possible.



Use head protection. Suspended loads can swing. It is possible to bump your head due to carelessness.



Use gloves. For transport, the system must be attached to lifting gear or transported by a forklift truck. Hands can be crushed or abraded during these operations.

### 6.2.5 Means of transport

A means of transport 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 transport.

## 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



Wear safety shoes. Loads may fall or be set down inaccurately. Serious injuries to feet and toes are possible.



Use head protection. Suspended loads can swing. It is possible to bump your head due to carelessness.



Use gloves. For transport, the system must be attached to lifting gear or transported by a forklift truck. Hands can be crushed or grazed during these operations.



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

#### 6.3.4 Means of transport

A means of transport 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 due to unintentional change of position when loading and unloading onto/from a means of transport.

## 7 Assembly

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

The dedusting system 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.



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

### 7.1 Set up / dismantle

The location of the dust extraction system must be firm, level and designed for the weight of the system.

The location must be selected in such a way that impact loads, e.g. from other mobile construction equipment, are excluded.

The location must be selected in such a way that access by unauthorised persons is impossible.

A crane with suitable lifting capacity or a forklift truck (for which the forklift rail recesses provided on the long sides are to be used) is required to set up the system.

Proceed in the same way when dismantling.

- Hook the system into the crane at the four upper corner points and lift it slightly



Suspension eye for crane chain

- Alternative: Troughs for forklift trucks



Forklift troughs

- Pull the 2 bolts of the height lock on each of the 4 supports



Bolt

Bolt

- Slowly raise the system to the desired height



Before lifting the system, the height locking bolts on all four supports must be tightened. Make absolutely sure that all supports extend evenly!

If the telescopic supports are also lifted, interrupt the lifting process immediately and lower the system again!

There is a high risk of accidents if the telescopic supports fall down!

- When the desired height is reached, insert all bolts and secure with split pins.

## 7.2 Making connections



Compressed air connection

Main switch



2x hose connection  
NW 300

## 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 Personal protective equipment required

The following personal protective equipment is required to use the machine:

- In the immediate vicinity of the machine, hearing protection

## 8.4 Commissioning



- Establish power connection
- Switch on the main switch
- Switch on motor (fan)
- Set the desired power with the power control

The regenerative filters are cleaned automatically when the motor is switched on. In addition, these filters can be cleaned when the extraction system is switched off by pressing the "manual cleaning" switch.

## 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.

### 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 filter change, regenerative filter stage**

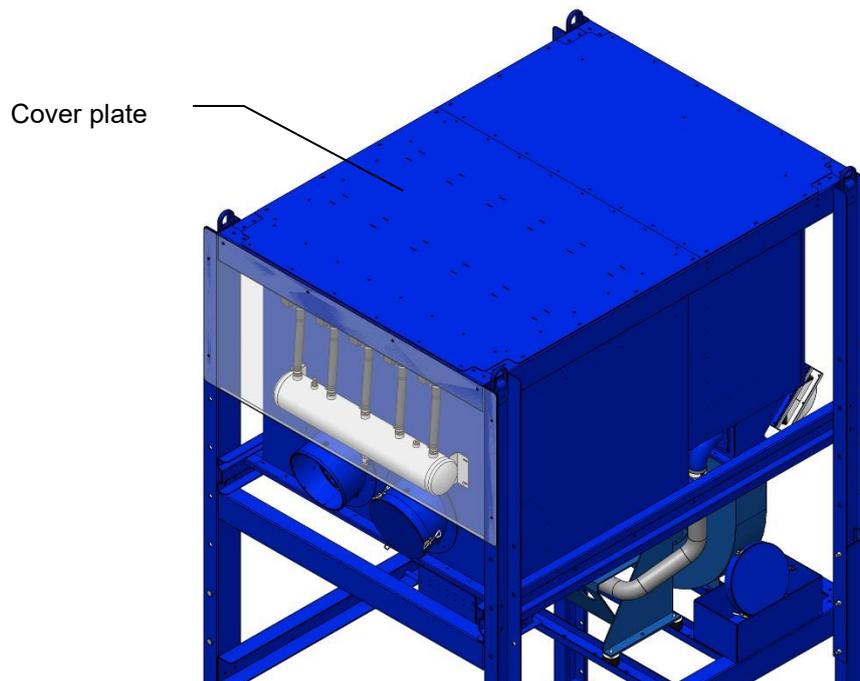
The frequency of the filter change depends on the degree of soiling of the filters. As the filter occupancy increases (filter soiling), the air performance decreases.

The filter pressure is shown on a display for filter monitoring.

Experience has shown that the service life of the filters is several years under normal load.

**9.5 Filter change, regenerative filter stage**

- Unscrew the cover plate



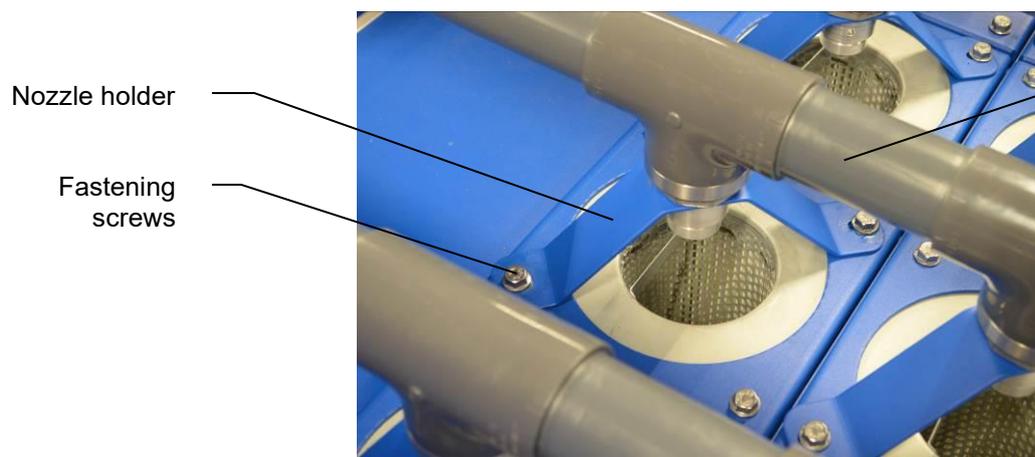
- Loosen the screw connection of the blow-off pipes



Screw  
connection  
blow-off pipe

Blow-off pipe

- Remove the two nozzle holder fastening screws
- Remove blow-off pipe



Nozzle holder

Fastening  
screws

Blow-off pipe

- Remove the two screws from the retaining plate and the retaining plate itself
- The cartridge filter can now be removed upwards and disposed of properly

**HINWEIS**

**Please note: There is a metal support body inside the cartridge filter. Do not dispose of this, but reuse it for the new filter!**



Retaining plate

- Check and clean all sealing surfaces before inserting a new filter

## 9.6 Filter change, HEPA filter

**HINWEIS**

**Risk of crushing fingers when fitting and removing clamping strips and filters**

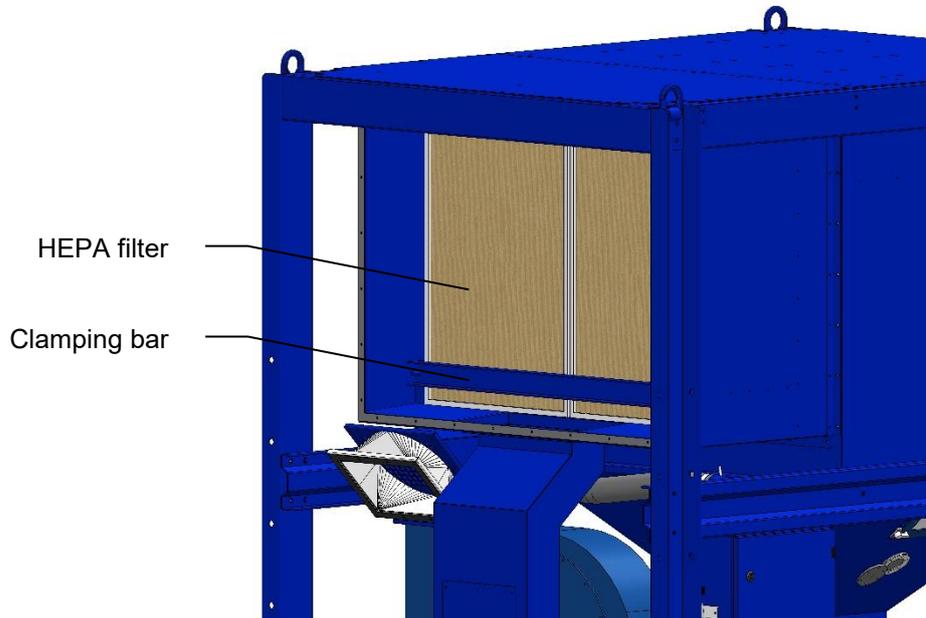
**HINWEIS**

The appliances have only been tested with original deconta HEPA filters H13 and original deconta HEPA filters H14. 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.).

- Unscrew the cover plates



- Loosen and remove clamping strips



- Remove and dispose of the HEPA filter

**Insert HEPA filter:**

- Check and clean the sealing surfaces on the appliance
- Insert new filters
- Reattach the clamping strips
- Attach cover plate

**Important:**

**Handle the filter with care, as damage can jeopardise the effectiveness of the filtration.**

To protect against mechanical damage, the HEPA filter supplied by deconta is fitted with handle protection on both sides at the factory.

## 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: ME 8000 SE  
Type designation: 634  
Serial number: see type plate  
Trade name: Deduster ME 8000 SE  
Year of manufacture: see type plate  
Type number: 634  
Description: Deduster ME 8000 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  
Pressure Vessels Directive 2014/29/EU

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

Low Voltage Directive 2014/35/EU

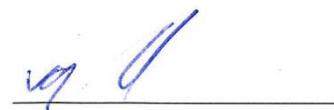
The following harmonised standards were applied:

EN 60204-1:2018	Safety of machinery - Electrical equipment of machines - Part 1: General requirements (IEC 60204-1:2016 (Modified))
EN 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 upper and lower limbs (ISO 13857:2019)
EN ISO 14118:2018	Safety of machinery - Prevention of unexpected start-up (ISO 14118:2017)

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

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

Place: Isselburg      Date: 25.07.2023



Leiter Konstruktion / head of construction



Leiter Elektro / head of electro