


Operating instructions (original)

Safety-Cabinet

Type 516



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1 Product and manufacturer

1.1 Product

The following product is described in these operating instructions:

Safety cabinet

1.2 Manufacturer

Name and address	deconta GmbH Im Geer 20 46419 Isselburg
	deconta group
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
27.11.2024	2	Complete revision	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 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 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 safety cabinet is a suction device in which asbestos samples, for example, can be processed.

The appliance can be regulated continuously in the range between 0 and 400 m³/h.

The air is extracted via a double HEPA filtration system and discharged via a hose connection.

The correct function and any necessary filter changes are indicated by a pressure gauge.

Large windows and integrated lighting ensure optimum illumination of the work surface.

3.2 Scope of delivery

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

- Safety cabinet
- These operating instructions

3.3 Operating modes

3.3.1 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

- on roofed areas
- in rooms closed on all sides

Operating modes

Operating modes for use:

- Manual operation

3.4 Interfaces

This section contains information about interfaces.

The following interfaces are available on the machine:

- Human - product: switch, stepless controller
- Product - power supply: Electrical power supply 230 V
- Product - waste products: Discharge filtered air
- Product - building: Feet

3.5 Type plate

The type plate contains information for identifying the machine.

3.5.1 Execution

Aluminium plate, riveted

4 Technical data

Dimensions (L x W x H)	780 x 730 x 730 mm
Work surface (L x W)	750 x 400 mm
Window size (L x W)	650 x 220 mm
Weight	32 kg
Air flow rate with filter	max. 400 m ³ /h, infinitely variable
Power connection	230 Volt
Hose connection	NW 150 mm (exhaust air)
HEPA filter	Double filtration, class H13 (according to EN 1822) 305 x 305 x 68 mm

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

4.1 Ambient conditions

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

4.2 HEPA filter

Filter medium	Micro glass fibre paper
Potting compound	Polyurethane
Gasket	Polyurethane
Filter class	H13 according to EN 1822
Temperature / Humidity	70°C/100% RF (relative humidity)
Filter dimensions (in mm):	305 x 305 x 68

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 safety cabinet is a suction device in which asbestos samples, for example, can be processed.

The appliance can be regulated continuously in the range between 0 and 400 m³/h.

The air is extracted via a double HEPA filtration system and discharged via a hose connection.

The correct function and any necessary filter changes are indicated by a pressure gauge.

Large windows and integrated lighting ensure optimum illumination of the work surface.

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

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 health and 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.

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



Risk of crushing: Wear safety shoes to protect limbs.

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 down 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 Safety Cabinet 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.

7.1 4.1 Set up

The location of the Safety Cabinet must be firm, level and designed for the weight of the appliance.

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.

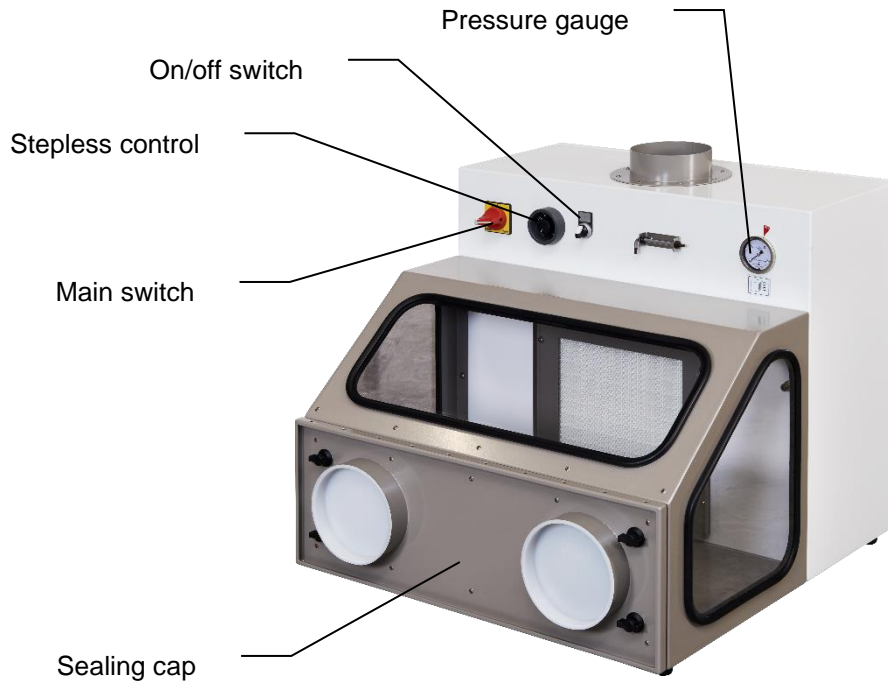
8.5 Required equipment

No equipment is required to use the machine.

8.6 Commissioning



Caution: To prevent the uncontrolled release of particles, the cover must be fitted every time the Safety Cabinet is switched on and off and when it is not in use!



- Establish power connection
- Switch on the main switch
- Lighting in the safety cabinet switches on automatically
- Switch on the on/off switch
- Set stepless control to a low level
- Now remove the sealing cap
- The function of the device is displayed on the pressure gauge

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 work.

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

9.3 Warning of residual risks



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

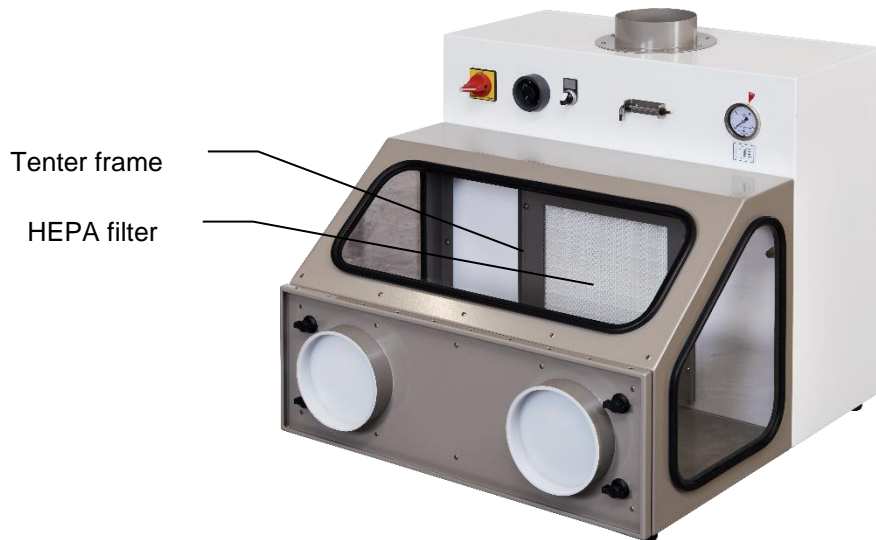
The frequency of the filter change depends on the degree of soiling of the filters. As the filter occupancy increases (filter soiling), the air performance decreases.

A pressure gauge is fitted to monitor the filter during operation.



The value for a recommended filter change is marked with a red arrow.

9.5 Filter change



9.5.1 Changing the 1st HEPA filter stage



Attention: Only change the filter when the appliance is switched on!

- Remove the screws on the clamping frame and remove the clamping frame
- Remove the HEPA filter and dispose of it properly
- Check and clean the sealing surfaces on the appliance
- Insert new HEPA filter
- Fitting the clamping frame

HINWEIS

Handle HEPA filters with care, as damage can jeopardise the effectiveness of the filtration.

9.5.2 Changing the 2nd HEPA filter stage



Attention: Filter change of the 2nd HEPA filter stage is only permitted in a suitable contaminated area and when the appliance is switched off!

Changing the 2nd HEPA filter stage is usually only necessary in the case of very heavy soiling.

- Remove the 1st HEPA filter stage as described under 9.5.1
- Remove the screws on the clamping frame and remove the clamping frame
- Remove the HEPA filter and dispose of it properly
- Check and clean the sealing surfaces on the appliance
- Insert new HEPA filter
- Fit the clamping frame
- Install the 1st HEPA filter stage as described under 9.5.1

HINWEIS

Handle HEPA filters with care, as damage can jeopardise the effectiveness of the filtration.

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
Volume flow too low	HEPA 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 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 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 professional 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: Safety cabinet
Type designation: 516
Serial number: see type plate
Trade name: Safety-Cabinet
Year of manufacture: see type plate
Description: The safety cabinet is a suction device in which asbestos samples, for example, can be processed.

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

RoHS Directive 2011/65/EU

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

Low Voltage Directive 2014/35/EU

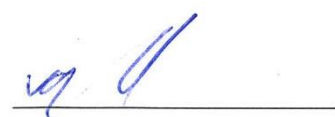
The following harmonised standards were applied:

EN 60204-1:2018	Safety of machinery - Electrical equipment of machines - Part 1: General requirements (IEC 60204-1:2016 (Modified))
EN 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: 15.07.2024



Leiter Konstruktion / head of construction



Leiter Elektro / head of electro