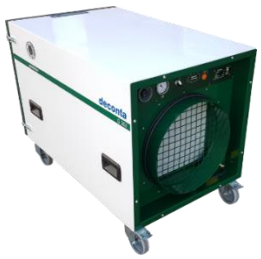
Operating instructions (original)
green dec

G50, G100, G200, G300, G400, G500

G50

G100

G200



G300

G400

G500

CE	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 Version: 5 Issue Date: 05.06.2025

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1 Product and manufacturer

1.1 Product

This operating manual describes the following product:

Negative pressure unit green dec.

Types: G50, G100, G200, G300, G400, G500

1.2 Manufacturer

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

1.3 Change index

Date	Version	Change	Responsible
07.03.2023	4	complete revision	Thomas Boland
05.06.2025	5	Control unit SE+ added	Thomas Boland

2 About these operating instructions

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

Keep this manual 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 gives an overview of persons and tasks.

Person	Task
Operator	<< Machine-specific >>
Occupational safety specialist	• Carry out a risk assessment • Create operating instructions • Instruct people
Maintenance staff	Maintenance of the mechanics
Electrician (EFK)	Installation and maintenance of electrical equipment
Freight forwarder	Off-site 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 perform tasks with or in connection with the machine.

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

When handing over the machine to another person, the operator passes these operating instructions on to that person.

2.3 Warnings

These operating instructions contain warnings of residual dangers.

The classification of the warnings is based on the severity of the damage that can occur if the warnings are disregarded and 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 for non-compliance: Death or most serious injuries.	⚠ GEFAHR
WARNING	Consequence for non-compliance: Death or most severe injuries possible.	⚠ WARNUNG
CAUTION	Consequence for non-compliance: Severe or minor injuries possible.	⚠ VORSICHT
NOTE	Consequence for non-compliance: Property damage or environmental damage possible.	HINWEIS
SAFE ACTIVITY	Implement the following action guide.	-

2.3.2 Structure

Warnings are structured according to the SAFE method:

S	Warning word (DANGER; WARNING, CAUTION or NOTE)
A	Nature and source of the hazard Description of the hazard and the cause of the hazard
F	Follow Description of the possible consequences for humans, animals and the environment that may occur as a result of the hazard.
E	Escape Recommendations for action on how to avoid hazards

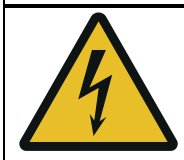
2.4 Symbols

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 gives an overview of 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 a certain behaviour.

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

Symbol	Meaning	Symbol	Meaning
	Use hearing protection		Use protective clothing
	Wear safety shoes		

3 Description of the machine

This section contains information for 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 3-stage filter unit (G50 only 2-stage). The built-in HEPA filter meets 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-step 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 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 delivery scope of the machine includes the following items:

- Negative pressure unit green dec
- These operating instructions
- Transport cover
- Sealing plug

3.3 Return delivery after termination of a lease

For the protection of our customers and in terms of 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 residues
- Without residual fibre encapsulation
- Without filter
- Without damage

3.4 Operating modes

3.4.1 Available operating modes

Type of use

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

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

User groups

- Commercial users

User environment

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

Operating modes

Operating modes for use:

- Automatic mode (SE+ and SRE connect version only)
- Manual operation

3.5 Interfaces

This section contains information about interfaces.

The following interfaces are available on the machine:

- Human product: Control panel, touch screen
- Product power supply: Electrical power supply 110 V / 230 V / 400 V
- Product waste: Connection spigot for clean air
- Product material feed: Connecting piece for contaminated air
- Product building: feet or castor wheels

3.6 Type plate

The type plate contains information for identifying the machine.

3.6.1 Version

Aluminium plate, riveted

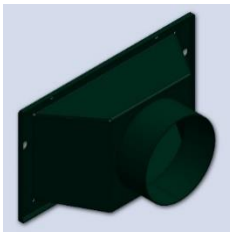
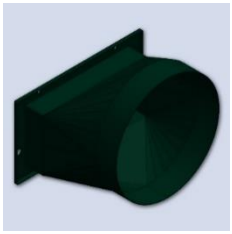
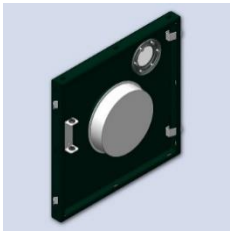
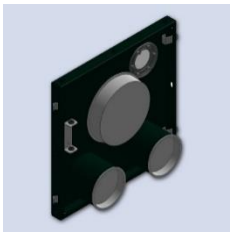
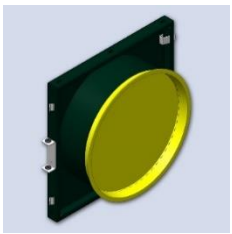
3.6.2 Position

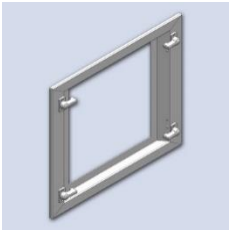
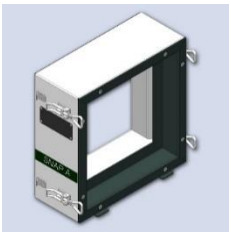
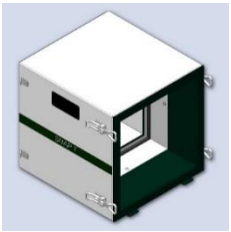
Near the control panel on the outlet side.

3.7 Accessories

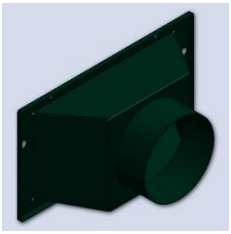
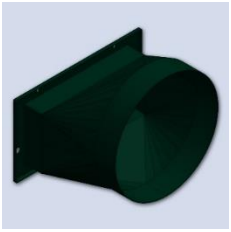
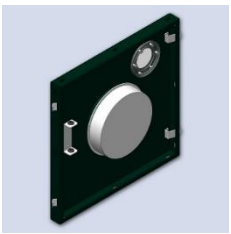
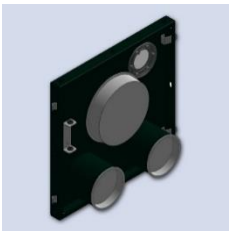
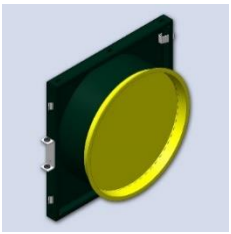
The following accessories are optionally available for the machine:

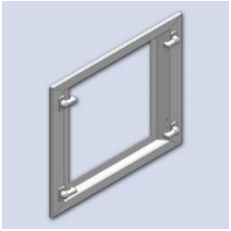
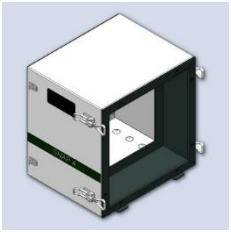
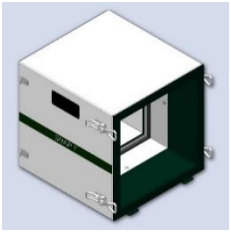
3.7.1 Negative pressure unit green dec G50

Designation	Item no.	Illustration
Air outlet flange NW 150	BO13928	
Air outlet flange NW 300	BO13931	
Inlet flange NW 150	BO13949	
Inlet flange 1x NW 150 and 2x NW 100	BO20998	
Inlet flange NW 300	BO15422	

Designation	Item no.	Illustration
Adapter 4-fold, 4 x NW 100, Individually adjustable	BO14211	
Adhesive frame	BO23144	
SNAP A double filtration	687	
SNAP T pocket filter	682	

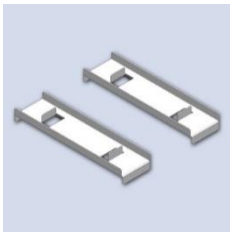
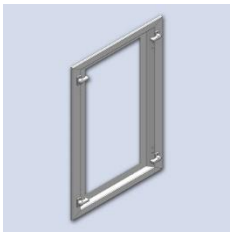
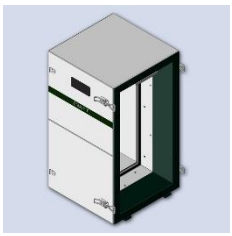
3.7.2 Negative pressure unit green dec G100

Designation	Item no.	Figure
Air outlet flange NW 150	BO13928	
Air outlet flange NW 300	BO13931	
Inlet flange NW 150	BO13949	
Inlet flange 1x NW 150 and 2x NW 100	BO20998	
Inlet flange NW 300	BO15422	
Adapter 4-fold, 4 x NW 100, Individually adjustable	BO14211	

Designation	Item no.	Figure
Adhesive frame	BO23144	
SNAP A double filtration	681	
SNAP T pocket filter	682	

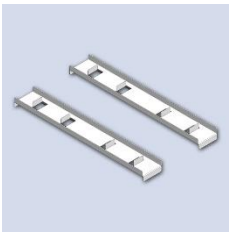
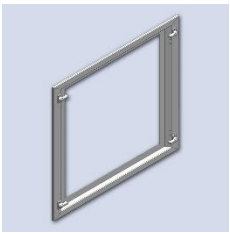
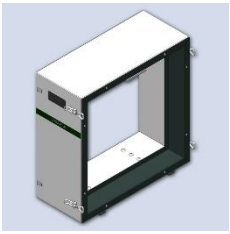
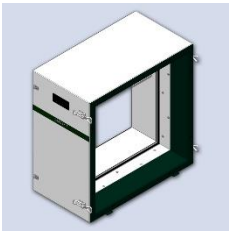
3.7.3 Negative pressure unit green dec G200

Designation	Item no.	Figure
Inlet flange NW 300	BO14010	
Inlet flange 2 x NW 300	BO19660	
Inlet flange 3 x NW 150	BO16629	

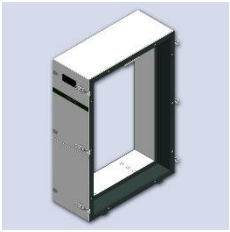
Designation	Item no.	Figure
Stacking device set	BO14701	
Adhesive frame	BO23141	
SNAP A double filtration	685	
SNAP T pocket filter	686	
Filter unit FG 200 SNAP	765	

3.7.4 Negative pressure unit green dec G300

Designation	Item no.	Figure
Inlet flange NW 450	BO14695	

Designation	Item no.	Figure
Inlet flange 4x NW 150	BO22214	
Stacking device set	BO14702	
Adhesive frame	BO23138	
SNAP A double filtration	669	
SNAP T pocket filter	684	
Filter unit FG 300 SNAP	697	

3.7.5 Negative pressure unit green dec G400 and G500

Designation	Item no.	Figure
Inlet flange NW 450	BO20486	
SNAP A double filtration	806	

4 Technical data

4.1 Dimensions

	Length x width x height (mm)
G50	525 x 390 x 390
G100	770 x 410 x 410
G200	970 x 410 x 840
G300	1150 x 720 x 840
G400	1200 x 720 x 1150
G500	Fan unit1180 x 785 x 955
	Filter unit715 x 720 x 1150

4.2 Weights

	Weight incl. filter (kg)
G50	18,8
G100	27,5
G200	55,0
G300	79,0
G400	105,0
G500	Fan unit110 .0
	Filter unit63 .0

4.3 Performance data

All data on air performance and volumetric flows taking into account a measurement tolerance of ±15% referred to the measuring range end value, determined in a multi-point measurement procedure with a calibrated impeller anemometer.

4.3.1 Negative pressure unit green dec G50

	110 V	230 V
Air output free-blowing max.	1500 m³/h	1500 m³/h
Air performance with deconta H13 filter, max.	1100 m³/h	1100 m³/h
Air performance with deconta H13 filter, prefilter, max.	1000 m³/h	1000 m³/h
Power connection	100 - 120 V	230 V
Power consumption	3 A	1,2 A
Engine power	0.17 kW	0.17 kW

	110 V	230 V
Power cable type	H07RN-F 3G1.5	
Protection class	I	
Filter system	2-stage	
Pre-filter	EU 4	
HEPA filter	according to EN 1822 class H13	

4.3.2 Negative pressure unit green dec G100

	110 V	230 V
Air output free-blowing max.	2000 m³/h	2300 m³/h
Air performance with deconta H13 filter, max.	1500 m³/h	1800 m³/h
Air performance with deconta H13 filter, pre- and intermediate filter, max.	1350 m³/h	1650 m³/h
Power connection	100 - 120 V	230 V
Power consumption	4 A	2,5 A
Engine power	0.345 kW	0.5 kW
Power cable type	H07RN-F 3G1.5	
Protection class	I	
Filter system	3-stage	
Pre-filter	EU 3	
Intermediate filter	EU 4	
HEPA filter	according to EN 1822 class H13	

4.3.3 Negative pressure unit green dec G200

	110 V	230 V
Air output free-blowing max.	4000 m³/h	4500 m³/h
Air performance with deconta H13 filter, max.	3050 m³/h	3400 m³/h
Air performance with deconta H13 filter, pre- and intermediate filter, max.	2500 m³/h	3000 m³/h
Power connection	100 - 120 V	230 V
Power consumption	7 A	4 A
Engine power	2x 0.345 kW	0.75 kW
Power cable type	H07RN-F 3G1.5	
Protection class	I	

	110 V	230 V
Filter system	3-stage	
Pre-filter	EU 3	
Intermediate filter	EU 4	
HEPA filter	according to EN 1822 class H13	

4.3.4 Negative pressure unit green dec G300

	110 V	230 V
Air output free-blowing max.	7400 m³/h	8000 m³/h
Air performance with deconta H13 filter, max.	5150 m³/h	5700 m³/h
Air performance with deconta H13 filter, pre- and intermediate filter, max.	4000 m³/h	5150 m³/h
Power connection	100 - 120 V	230 V
Power consumption	15 A	8 A
Engine power	4x 0.345 kW	1.5 kW
Power cable type	H07RN-F 3G2,5	H07RN-F 3G1.5
Protection class	I	
Filter system	3-stage	
Pre-filter	EU 3	
Intermediate filter	EU 4	
HEPA filter	according to EN 1822 class H13	

4.3.5 Negative pressure unit green dec G400

When using a residual current protective device, only all-current sensitive residual current protective devices (type B or B+) are permitted.

HINWEIS

When the power supply to the unit is switched on, pulsed charging currents of the capacitors in the integrated EMC filter can cause RCD protection devices to respond with instantaneous tripping.

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

Air output free-blowing max.	9500 m³/h
Air performance with deconta H13 filter, max.	8400 m³/h
Air performance with deconta H13 filter, pre- and intermediate filter, max.	7800 m³/h
Power connection	400 V
Power consumption	5 A
Engine power	1.5 kW
Power cable type	16A CEE surface-mounted plug
Protection class	I
Filter system	3-stage
Pre-filter	EU 3
Intermediate filter	EU 4
HEPA filter	according to EN 1822 class H13

4.3.6 Negative pressure unit green dec G500

When using a residual current protective device, only all-current sensitive residual current protective devices (type B or B+) are permitted.

HINWEIS

When the power supply to the unit is switched on, pulsed charging currents of the capacitors in the integrated EMC filter can cause RCD protection devices to respond with instantaneous tripping.

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

Air output free-blowing max.	15000 m³/h
Air performance with deconta H13 filter, max.	13000 m³/h
Air performance with deconta H13 filter, pre- and intermediate filter, max.	12000 m³/h
Power connection	400 V
Power consumption	5 A
Engine power	5.7 kW
Power cable type	16A CEE surface-mounted plug
Protection class	I
Filter system	3-stage
Pre-filter	EU 3
Intermediate filter	EU 4
HEPA filter	according to EN 1822 class H13

4.4 Performance data special versions

The units of the green dec series can be equipped with double filtration (2x HEPA filters in series), either by an optional add-on housing "SNAP" or by an extended housing version.

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

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

4.4.1 Negative pressure unit green dec G50

Air performance with deconta H13 filter (double filtration), max.	
Air performance with deconta H13 filter (double filtration), prefilter, max.	
Length with add-on housing "SNAP	680 mm

4.4.2 Negative pressure unit green dec G100

Air performance with deconta H13 filter (double filtration), max.	1700 m³/h
Air performance with deconta H13 filter (double filtration), pre-filter and intermediate filter, max.	1370 m³/h
Length with add-on housing "SNAP	1070 mm

4.4.3 Negative pressure unit green dec G200

Air performance with deconta H13 filter (double filtration), max.	3200 m³/h
Air performance with deconta H13 filter (double filtration), pre-filter and intermediate filter, max.	2800 m³/h
Length with add-on housing "SNAP	1450 mm
Length with extended housing version	1440 mm

4.4.4 Negative pressure unit green dec G300

Air performance with deconta H13 filter (double filtration), max.	5300 m³/h
Air performance with deconta H13 filter (double filtration), pre- and intermediate filter, max.	4750 m³/h
Length with add-on housing "SNAP	1270 mm
Length with extended housing version	1260 mm

4.4.5 Negative pressure unit green dec G400

Air performance with deconta H13 filter (double filtration), max.	
Air performance with deconta H13 filter (double filtration), pre-filter and intermediate filter, max.	
Length with add-on housing "SNAP	1500 mm
Length with extended housing version	

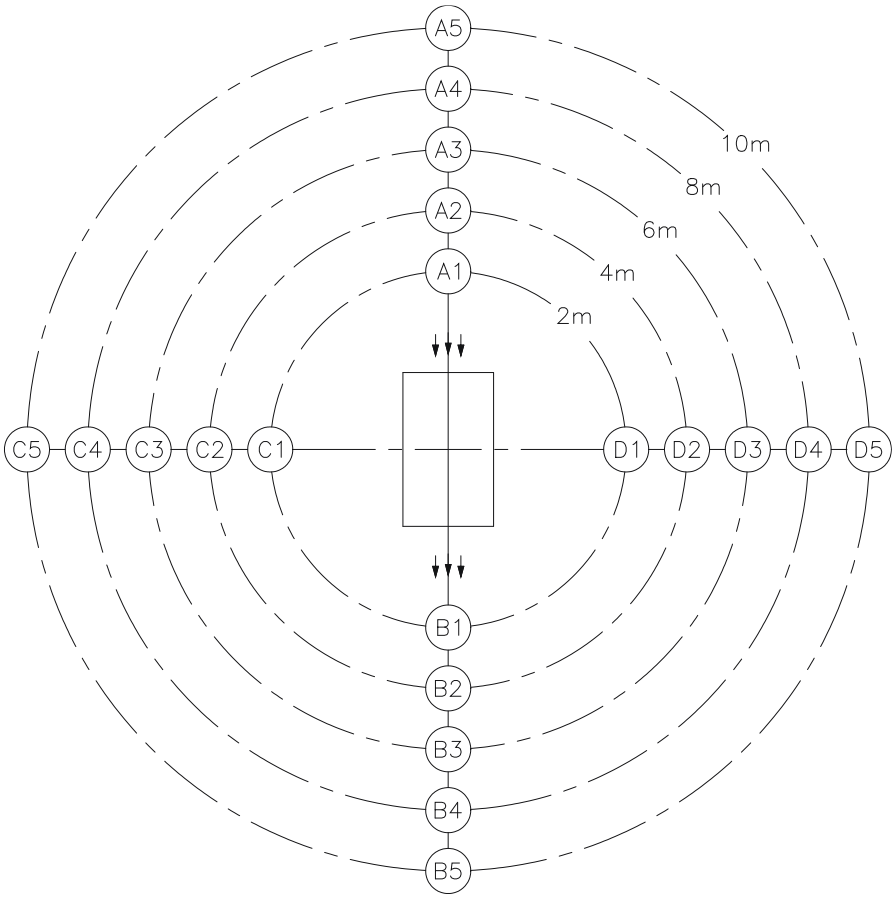
4.4.6 Negative pressure unit green dec G500

Air performance with deconta H13 filter (double filtration), max.	
Air performance with deconta H13 filter (double filtration), pre- and intermediate filter, max.	
Length filter unit with add-on housing "SNAP	1015 mm

4.5 Environmental 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
G50	62	59	57	55	53	67	62	59	56	54	64	60	58	55	51
G100	69	65	61	59	56	71	67	63	60	58	65	60	58	56	55
G200	75	73	67	64	63	75	69	64	61	60	68	65	63	62	59
G300	80	75	73	69	67	80	73	69	69	67	71	68	65	63	62
G400	83	81	77	76	75	86	83	76	75	74	79	78	75	74	72
G500	93	89	86	84	82	97	94	91	87	84	91	89	88	85	83

Wear hearing protection in the immediate vicinity of the G400 and G500 negative pressure units.

By attaching a silencer, the sound level can be reduced, taking into account power losses.

4.7 Filter description / classification

A 3-stage filter combination is integrated in the unit (G 50 only 2-stage)

In detail:

Pre- and intermediate filters	**Pre-filter**	**Intermediate filter**
Grade according to DIN 24185 / EN 779	G3 / EU3	G4 / EU4
Frame	Cardboard frame, 47 mm wide	Cardboard frame, 47 mm wide
Filter medium	Glass fibre	Synthetic
Separation efficiency (Am)	85 %	90 %
Nominal volume flow:	5400m³/h/m²	5400m³/h/m²
Nominal face velocity at nominal volume	1.5 m/s	1.5 m/s
Initial pressure difference	30 Pa	42 Pa
Recommended final pressure difference	450 Pa	250 Pa
Temperature / Humidity	100°C/100% RF (relative humidity)	100°C/100% RF (relative humidity)
Filter dimensions (in mm):		
G50	---	305 x 305 x 47
G100	305 x 305 x 47	305 x 305 x 47
G200	305 x 610 x 47	305 x 610 x47
G300	610 x 610 x 47	610 x 610 x47
G400	610 x 910 x 47	610 x 910 x 47
G500	610 x 910 x 47	610 x 910 x 47

HEPA filter

Frame	Plastic or aluminium
Filter medium	Micro glass fibre paper
Casting compound	Polyurethane
Seal	Polyurethane
Filter class	H13 or H 14 according to EN 1822
Temperature / Humidity	70°C/100% RF (relative humidity)
Filter dimensions (in mm): G50 G100 G200 G300 G400 G500	 284 x 284 x 150 305 x 305 x 292 305 x 610 x 292 610 x 610 x 292 610 x 910 x 292 610 x 910 x 292
Handle protection	on both sides

5 Security

This section contains information on the protection of humans, domestic and 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 to filter non-condensing room air contaminated with asbestos fibres, in the temperature range up to +45 °C, with exhaust air discharge to the outside.
During asbestos removal work inside closed rooms, it is important to exclude the possibility of asbestos fibres leaving the removal area and thus posing a danger to people and the environment. For these reasons, remediation areas (also called black areas) are separated from the asbestos-free areas and kept in dynamic negative pressure by means of negative pressure maintenance devices.
An integrated filter system creates the precondition that the asbestos fibre concentration in the exhaust air is not exceeded. The exhaust air is discharged into the open air.
The unit is not suitable for filtering flammable gases or dusts.

The user must comply with the operating parameters specified in the operating instructions. The unit 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 damage or injuries of any kind resulting from such use.

Authorised persons

The following persons are authorised to handle the product:

- Specialist staff
  - Task: Maintenance and servicing
  - Qualification: trained specialist personnel (locksmith, industrial mechanic, electrician) with knowledge and experience in handling the machine.
- Operating personnel
  - Task: Operation
  - Qualification: training, information through operating instructions

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

Range of application

The machine is intended for use in the following applications:

Range 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 limits of use
- Unauthorised modifications or conversions as well as manipulation
- Use, installation, operation, maintenance or repair in a manner other than described
- Carrying out work by unqualified personnel
- Use of unsuitable or incompatible materials, operating or auxiliary materials or accessories.
- Non-compliance with safety and operating instructions, occupational health and safety or accident prevention regulations or relevant statutory regulations.
- Failure to promptly rectify faults that may affect safety
- Use of other than original spare parts or accessories that are not equivalent in quality and function.
- Operating the machine in a technically unsound condition, not being aware of safety and hazards and not observing all instructions in the documentation.

5.3 Tasks and qualifications of the staff

Person	Task	Required qualification
Operator	<< Machine-specific >>	Instruction, training
Occupational safety specialist	• Carry out a risk assessment • Create operating instructions • Instruct people	Completed training as an occupational safety specialist with timely experience with machines
Electrician	Installation and maintenance of electrical equipment	Person with appropriate training, suitable education, timely experience and knowledge of the relevant regulations, enabling him/her to recognise risks and avoid hazards that may be caused by electricity.
Freight forwarder	Off-site transport of the machine	Person with suitable training, education, timely experience and knowledge of relevant regulations that enables them to safely transport machinery off-site.
Conveyor	Internal transport of the machine	Person with appropriate training, education, timely experience and knowledge of the relevant regulations that enables them to safely transport machinery within the company.
Disposer	Dispose of machine	Qualified waste management 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 the implementation of the occupational health and safety obligations. The health and safety regulations of the country in which the machine is used apply.

The duties include, but are not limited to, the following:

- Provide these operating instructions or extracts to persons who carry out tasks with or in connection with the machine.
- Make the applicable documents available to these persons
- Instruction of the 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 machine outside and inside the factory.

Transport is the change of location of the machine by manual or technical means.

6.1 Loss of warranty claims

The manufacturer's warranty will expire in the following cases:

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

6.2 Off-site transport

6.2.1 Transport space

Off-site transport takes place in the public space. In this case, the machine is transported from one place of use to another.

6.2.2 Legislation

Off-site transport of the machine shall be in accordance with the legislation of the country in which the machine is transported off-site.

6.2.3 Qualification of the staff

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

Person	Required qualification
Freight forwarder	Completed training in transport and experience in off-site transport of machinery
Logistician	Completed training and experience in the internal transport of machines

6.2.4 Warning of residual risks

Crushing hazard: Wear safety shoes to protect against running over limbs.

6.2.5 Means of transportation

For safe off-site transport, a means of transportation is required that meets the following requirements:

- The load capacity must be dimensioned in such a way that the mass of the machine can be safely accommodated.
- The size of the transport surface must be such that the machine can be safely placed on the transport surface without falling off.

Falling of the machine may be possible 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

In the case of in-plant transport, the machine is transported on the company premises from one installation site to another installation site.

6.3.2 Legislation

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

6.3.3 Warning of residual risks

Crushing hazard: Wear safety shoes to protect against running over limbs.

6.3.4 Means of transportation

For safe internal transport, a means of transportation is required that meets the following requirements:

- The load capacity must be dimensioned in such a way that the mass of the machine can be safely accommodated.
- The size of the transport surface must be such that the machine can be safely placed on the transport surface without falling off.

Falling of the machine may be possible 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 assembly of the machine.

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

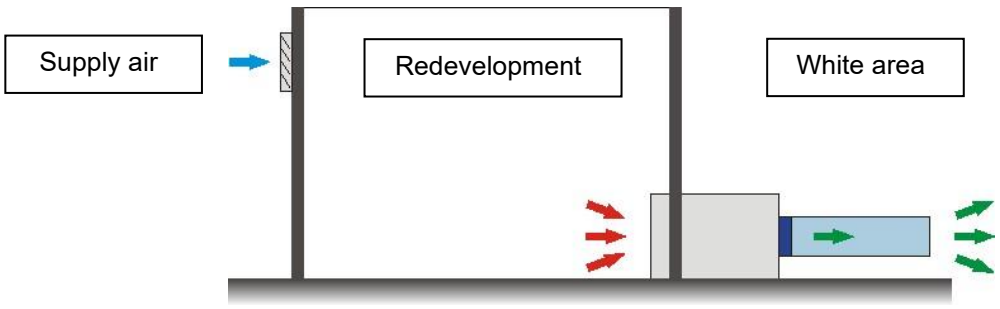
If there is visible damage, **do not** operate the unit. Contact deconta GmbH immediately.

HINWEIS

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

However, since the units are contaminated from the outside and therefore require extensive cleaning after the remediation is completed, use in the black area should be avoided at all costs.

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



⚠ GEFAHR

Never use the unit without correctly installed filters 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 the staff

Persons using the machine must meet the following requirements:

Person	Required qualification
Operator	Instruction, training by the manufacturer

8.2 Warning of residual risks

Touching the cores of a damaged mains connection cable.

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

⚠ VORSICHT

Damage due to unsuitable mains voltage.

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

Check whether the voltage indicated on the type plate corresponds to the local mains voltage.

⚠ WARNUNG

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 for the use of the machine:

- If necessary, ear protection (for G 400 and G 500)

8.4 Number of persons

One person is needed to use the machine.

8.5 Tools needed

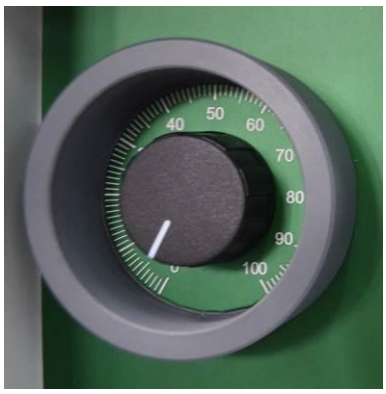
No tools are needed to use the machine.

8.6 Required equipment

No equipment is needed to use the machine.

8.7 Negative pressure unit with control SE

For power regulation, the negative pressure unit is supplied with a manual stepless control.



- Establish power connection
- Operate controller

8.7.1 Room negative pressure maintenance

- Set the desired negative pressure at the supply air opening or at the stepless regulator.

⇒ Negative pressure too high: Open the supply air opening or turn down the unit.

⇒ Negative pressure too low: Close the supply air opening or adjust the unit upwards.

8.8 Negative pressure unit with control SE +

The negative pressure unit is supplied with a manual / automated stepless control for power regulation.

- Determine the measuring point in the black area and connect it to the negative pressure "-" connection using PE hose 8 x 1.
- Determine the measuring point in the white area (neighbouring rooms) and connect it to the "+" PE hose 8 x 1 at the atmosphere connection.

- Establish power connection
- To switch on, set the selector switch "0/1" to position "1"
- Set the desired power on the stepless controller
- fix the currently set value by pressing the "set" button, the green lamp indicates activation, the controller is now deactivated
- the negative pressure maintenance device now maintains the fixed negative pressure (within the power limits) (automated control)
- To deactivate the automated control, the device must be switched off and on again using the selector switch

8.9 Negative pressure units with SRE connect control

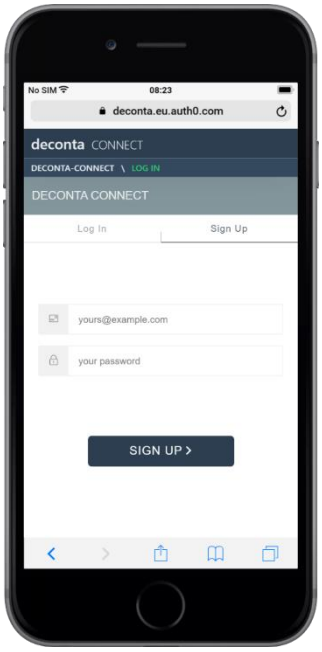
The connect functions are supported as standard in the following countries:

Albania, Algeria, Armenia, Aruba, Australia, Austria, Azerbaijan, Bangladesh, Belarus, Belgium, Bolivia, Bonaire, Bulgaria, Cambodia, China, Croatia, Curacao, Cyprus, Czech Republic, Denmark, El Salvador, Estonia, Faroe Islands, Finland, France, French Guyana, Georgia, Germany, Ghana, Gibraltar, Greece, Guadeloupe, Guyana, Honduras, Hong Kong, Hungary, Iceland, Indonesia, Ireland, Israel, Italy, Japan, Jersey, Kazakhstan, Kuwait, Kyrgyzstan, Laos, Latvia, Liechtenstein, Lithuania, Luxembourg, Macau, Macedonia, Malaysia, Malta, Martinique, Moldova, Mongolia, Montenegro, Nepal, Netherlands, Netherlands Antilles, New Zealand, Nigeria, Norway, Pakistan, Palestine, Panama, Papua New Guinea, Philippines, Poland, Portugal, Puerto Rico, Qatar, Romania, Russia, Saint Eustatius and Saba, Saint Martin (French part), Saint-Barthélemy, Serbia, Singapore, Slovakia, Slovenia, South Africa, South Korea, Spain, Suriname, Sweden, Switzerland, Taiwan, Tajikistan, Tanzania, Thailand, Tonga, Trinidad and Tobago, Tunisia, Turkey, Ukraine, United Kingdom, United States, Uzbekistan, Vietnam, Virgin Islands, U.S., Zambia

All other countries not listed on request

8.9.1 Create user account

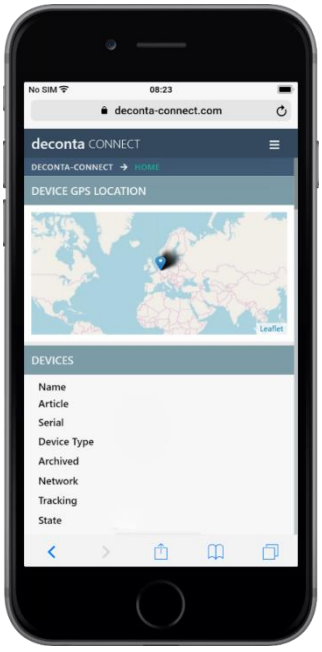
Open the page www.deconta-connect.com in your internet browser.



Tap on the "Sign Up" tab. Enter an email address and your desired password.

The password must be at least 8 characters long and meet 3 of the following 4 criteria:

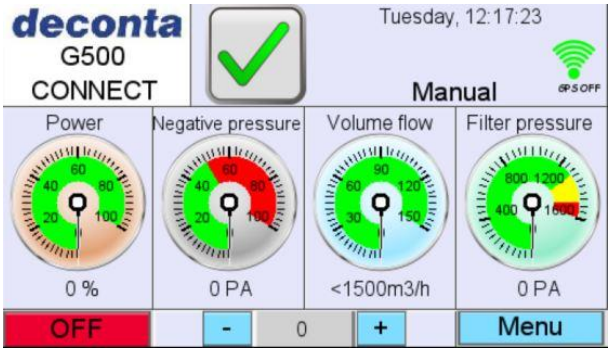
- at least 1 number
- at least 1 capital letter
- at least 1 lower case letter
- at least 1 special character.



You will see this page after successful registration.

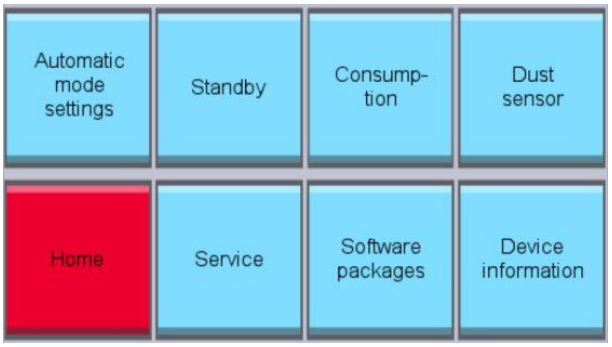
Any number of devices can now be assigned to the user account.

8.9.2 Add the machine to the user account

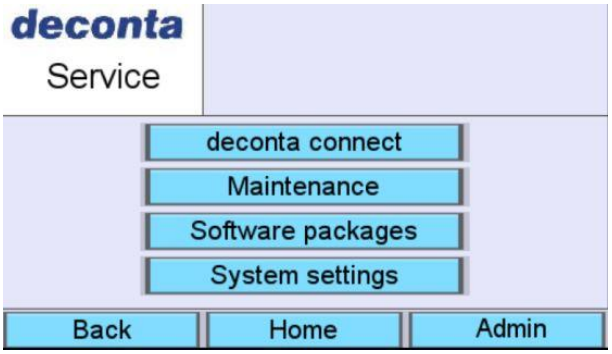


Switch on the unit.

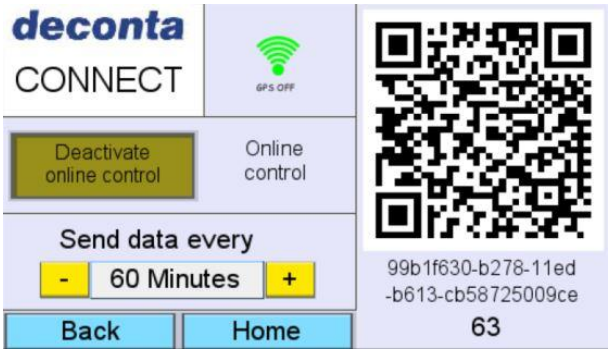
Tap the "Menu" button.



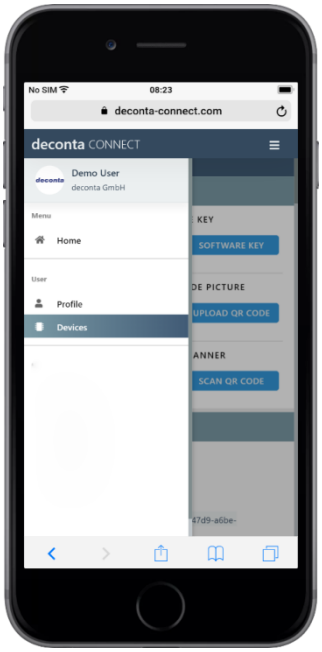
Tap the "Service" button



Tap the "deconta connect" button.

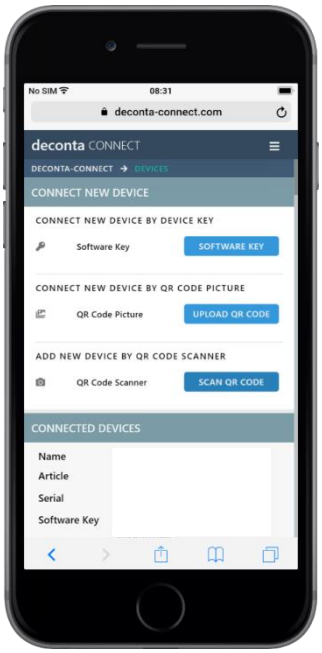


The page with a QR code and a key underneath is displayed.

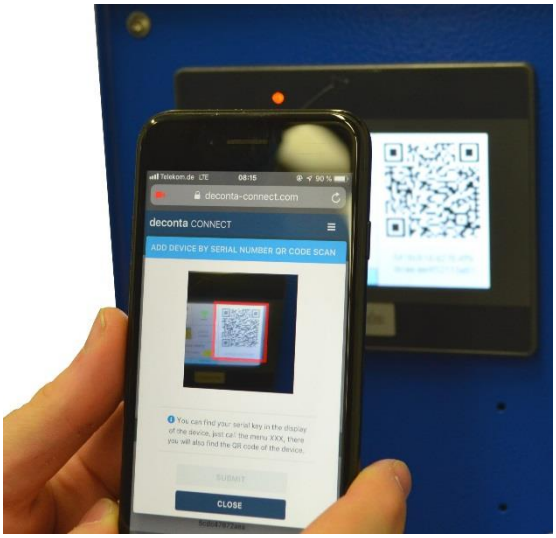


Log in to the connect page with your email address and password.

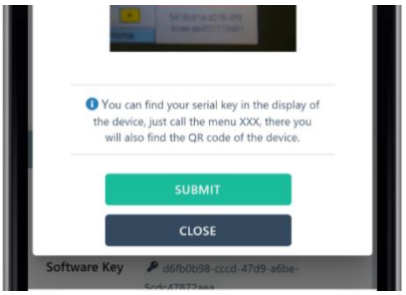
Tap on the menu icon and then on "Devices".



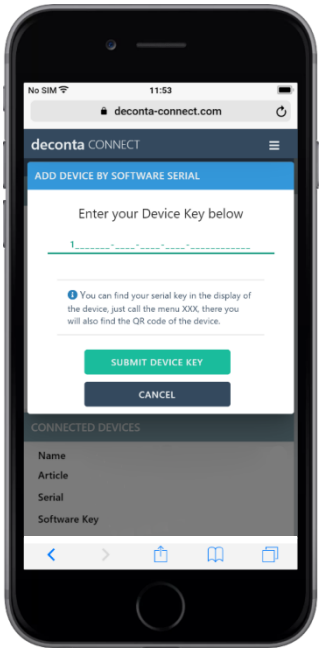
Tap on the button "SCAN QR CODE (our recommendation) or alternatively on the button "SOFTWARE KEY".



Scan the QR code that appears in the display of the unit.



If the QR code is recognised, the "SUBMIT" button changes to green. To add, tap this button, the device is now registered in your user account.



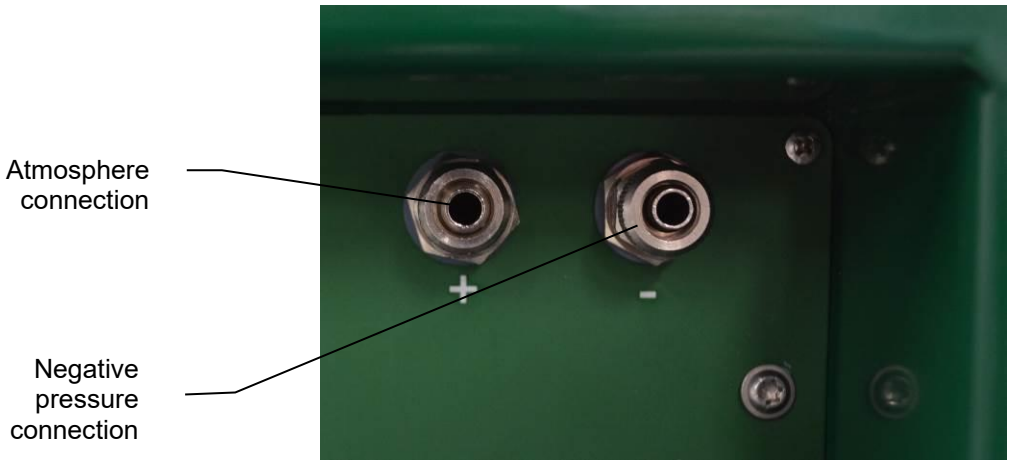
Alternative registration via the "SOFTWARE KEY" button

Enter the key that is displayed below the QR code on the device in the field provided and then tap the green button "SUBMIT DEVICE KEY", the device is now registered in your user account.

8.9.3 Preparation

Determine the measuring point in the black area and connect it with PE hose 8 x 1 to the negative pressure connection "-".

Determine the measuring point in the white area (adjacent rooms) and connect it to the atmosphere "+" connection with PE hose 8 x 1.

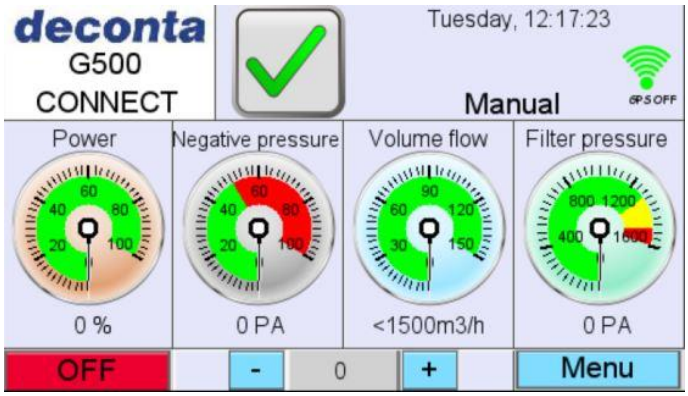


The control can be used in 2 different operating modes.

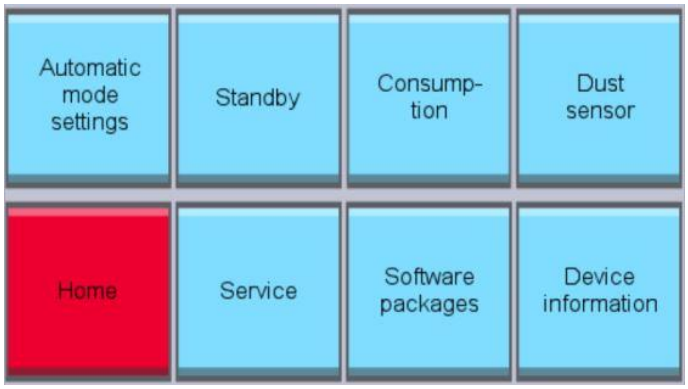
8.9.4 Manual operation

In manual mode, the "-" and "+" keys are used to set the fan power.

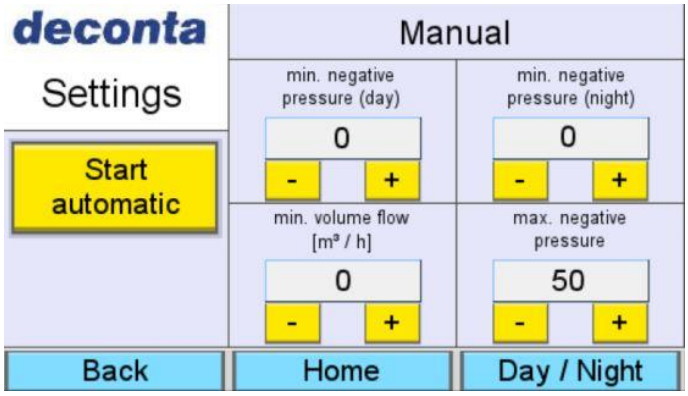
The display shows the power value in % (Power), the measured negative pressure in Pa, the volume flow in m³/h and the filter pressure in Pa.



8.9.5 Automatic operation



To make the settings and to switch automatic mode on or off, press the "Menu" button. In the following menu, press the button "Automatic mode settings".



The following parameters can be set:

- Minimum negative pressure in day mode (min. negative pressure day)
- Minimum negative pressure in night mode (min. negative pressure night)
- Minimum volume flow in m³/h (min. volume flow)
- Maximum negative pressure (max. negative pressure)

Automatic operation is started by tapping the "Start automatic" button.

By comparing the entered setpoint with the permanently measured current actual value, the speed of the fan is automatically adjusted, i.e. the fan automatically "goes up" or "goes down".

8.9.6 Day / Night Settings (Day / Night)

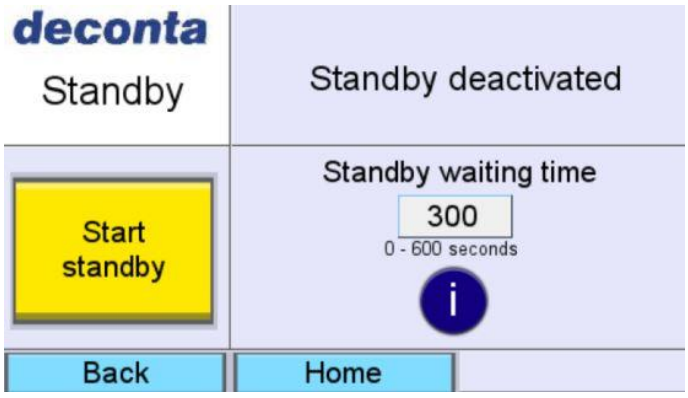
By selecting time ranges, you can set here on which days and at which time the value set in automatic mode for the minimum negative pressure in night mode (min. negative pressure night) is activated.

8.9.7 Standby mode

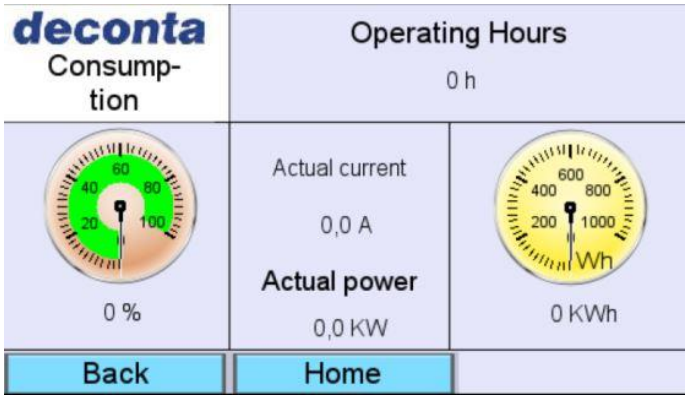
A negative pressure unit with SRE connect control can be operated as a standby unit. If this function is activated, the unit switches on automatically if the vacuum falls below a previously defined level (e.g. if the actual vacuum maintenance unit fails).

The standby mode is switched on in the menu by tapping the "Standby" button.

In the Standby waiting time field, a delay of 0-600 seconds for switching on can be entered.



8.9.8 Consumption



Left: the current power of the unit is shown here in %.

Top centre: Display of the current power consumption (Actual current) in A

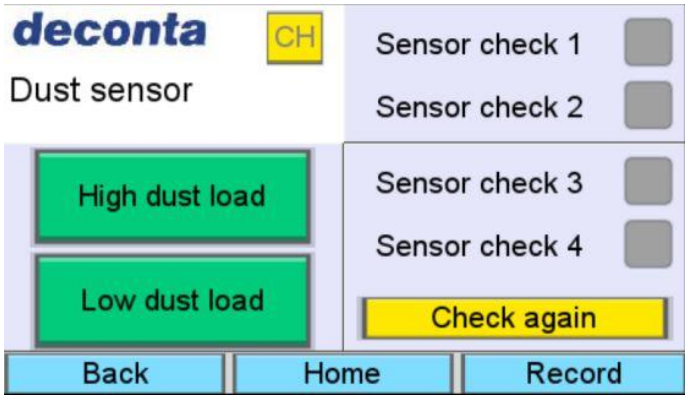
Bottom centre: Display of the current power (Actual power) in kW

Right: display of Wh and below that the total consumption in KWh

8.9.9 Dust Sensor

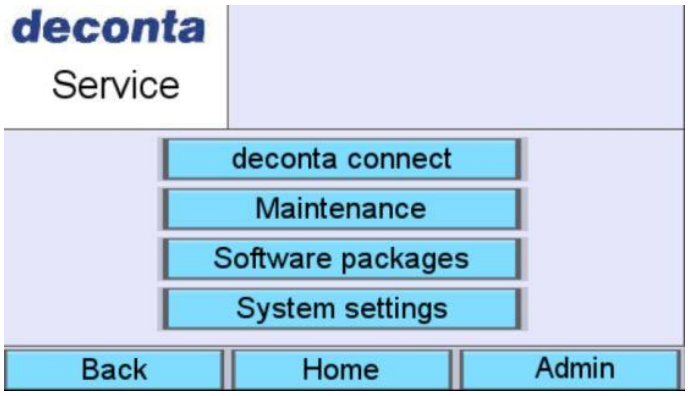
A filter sensor monitors the particle concentration in the exhaust air.

The functions and the status of the filter sensors are shown in the display.



The measured values of the filter sensors can be displayed graphically via the "Record" button.

8.9.10 Service



deconta connect

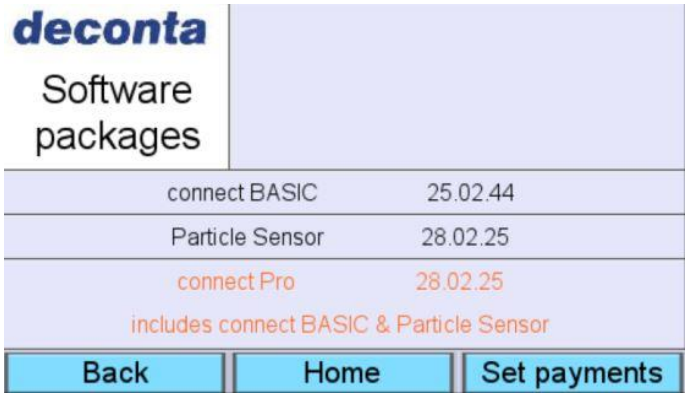
Assigning a device to a connect account, see 8.9.1.

Maintenance

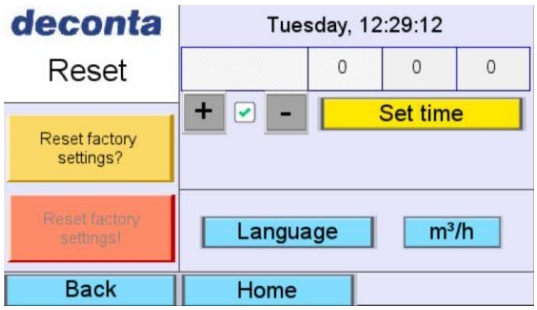
Settings in this menu can only be made by qualified deconta service partners.

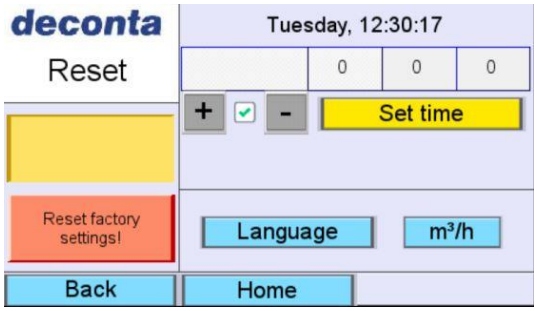
Software packages

Display of the booked options and the expiry date of the licences.



System settings





Setting the day of the week and time. These values are shown on the unit display and are required for the Day / Night settings.

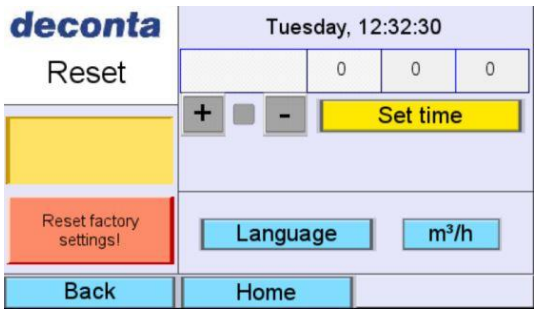
Data sent to the connect user account is displayed there in the set time zone (by default UTC ±0 = coordinated world time).

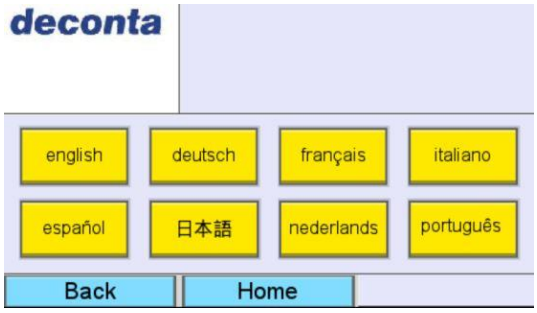
By tapping the yellow button "Reset factory settings? (reset to factory settings?) the red button "Reset factory settings!" is activated.

HINWEIS

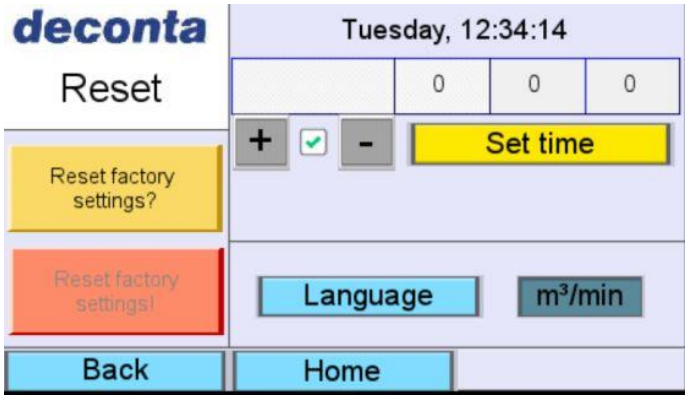
Tapping this red button resets all settings to factory defaults!

Setting the language. Tapping the "Language" button takes you to the menu for setting the display language. Selectable languages: English, German, French, Italian, Spanish, Japanese, Dutch and Portuguese.



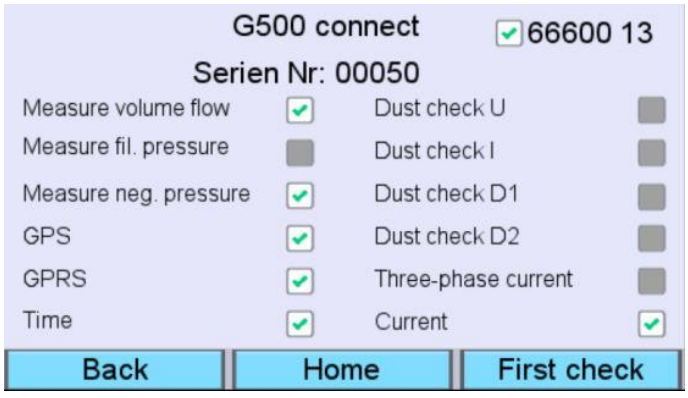


By tapping the m³\h button, the unit can be changed to m³/min.



8.9.11 Device information

Display of unit information.



8.9.12 Alarms

Alarms are displayed visually via a flashing symbol on the main screen, at the same time an acoustic signal sounds. There are 3 different displays:

- Green tick: no alarm message is present

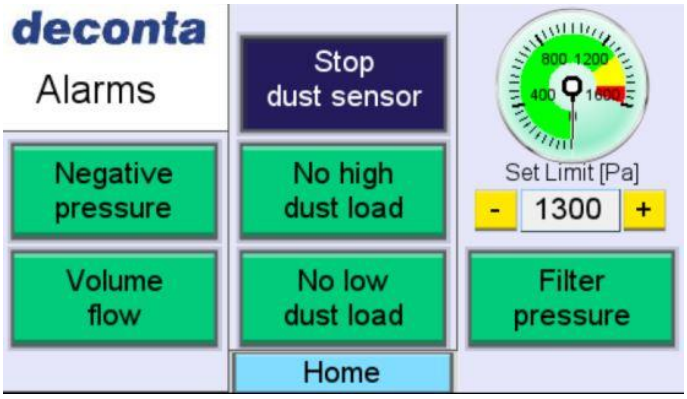
- Yellow bell: There was an alarm, but it no longer exists and has not yet been acknowledged.

- Red bell: there is an acute alarm message

A submenu with more detailed information on alarms can be called up by tapping the button with the green tick, the yellow bell or the red bell.

Alarms are displayed with a red button.

After the fault has been eliminated, the alarm must be acknowledged by tapping the respective button, the colour changes to green.



Negative pressure:

- the setpoint for the minimum negative pressure could not be reached.

Volume flow:

- the setpoint for the minimum volume flow could not be reached.

High dust load:

- Message filter sensor in case of many particles within a short period of time

Low dust load:

- Message filter sensor in case of few particles over a longer period of time

Filter pressure:

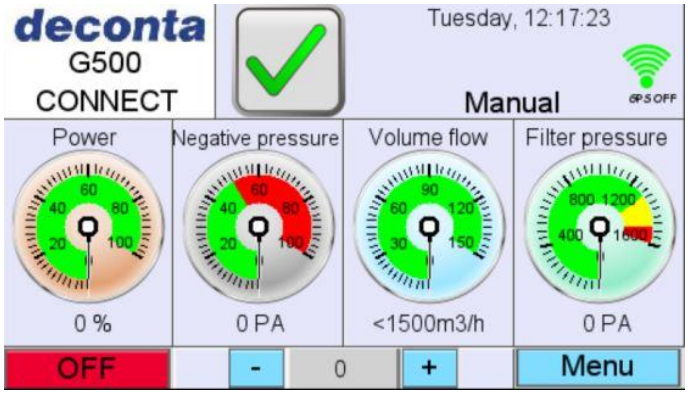
the alarm value for the filter pressure can be adjusted continuously with the "-" and "+" keys (yellow range in the display = filter must be replaced soon). The red range is fixed at the factory.

Stop dust sensor / Start dust sensor:

- Switching the dust sensors on / off.

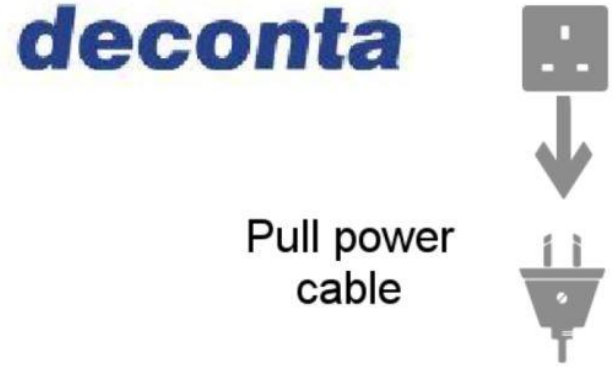
HINWEIS **When the sensors are switched off, the particle concentration in the exhaust air is not monitored!**

8.9.13 Switch off the unit



To switch off the unit, tap the red "OFF" button.

The unit switches off and the mains plug can be pulled out.



9 Maintenance

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

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

9.1 Loss of warranty claims

The manufacturer's warranty will expire 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 the filters, may only be carried out by authorised persons wearing suitable protective clothing.

For all repair and maintenance work, the unit must be completely disconnected from the power supply.

We expressly refer to possible additional regional and national regulations when maintaining the appliance technology.

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

Units 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.
Change filters only when the unit is switched off. Only use approved filters.

Do not use residual fibre binders on the unit.

Pull out the mains plug before opening the housing

9.3.1 Personal protective equipment required

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

9.4 Filter change information

The frequency of the filter change depends on the degree of contamination of the filters. With increasing filter occupancy (soiling of the filters), the air performance decreases.

For filter monitoring during operation, a pressure gauge is fitted on units with SE control, on units with SRE connect control the filter monitoring is shown in the display.

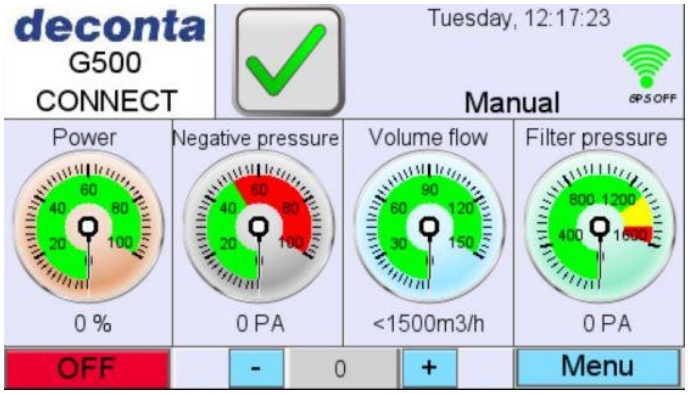
9.4.1 Control SE

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

Device	Recommended filter change at	
	110 V	230 V
G50	approx. 700 Pascal	approx. 800 Pascal
G100	approx. 700 Pascal	approx. 1000 Pascal
G200	approx. 700 Pascal	approx. 1100 Pascal
G300	approx. 700 Pascal	approx. 1100 Pascal
G400	---	approx. 1200 Pascal
G500	---	approx. 1300 Pascal

100 Pa = 1 mbar

9.4.2 Control SRE connect



For filter monitoring, the filter pressure is shown in the display of the control unit. If the display reaches the red area, please replace the pre-filters and intermediate filters first. If the display value drops by 100 Pascal or more, the unit can continue to be operated. If the value drops by less than 100 Pascal, the HEPA filter must be replaced.

9.5 Filter change

GEFAHR

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

HINWEIS

Do not use residual fibre binders on the unit.

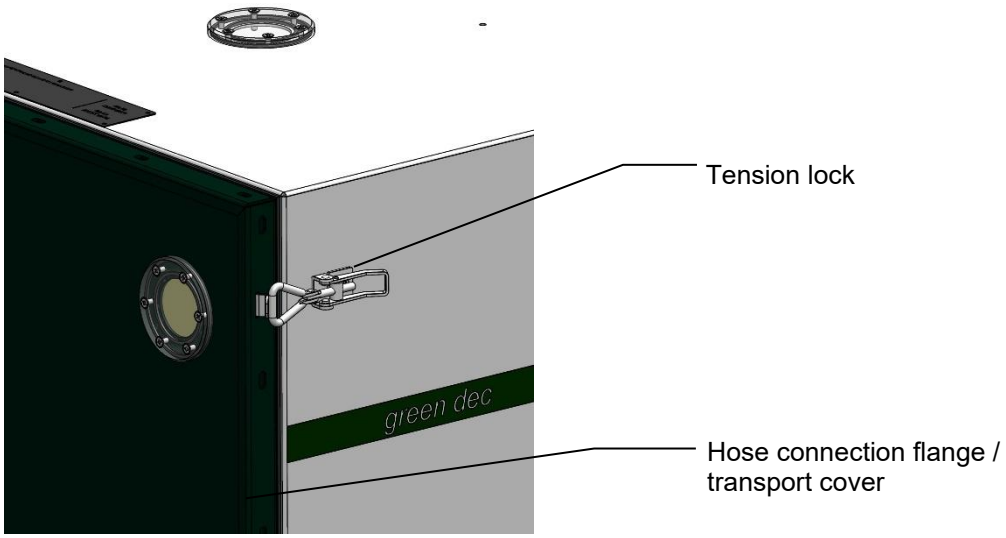
Pull out the mains plug before opening the housing

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

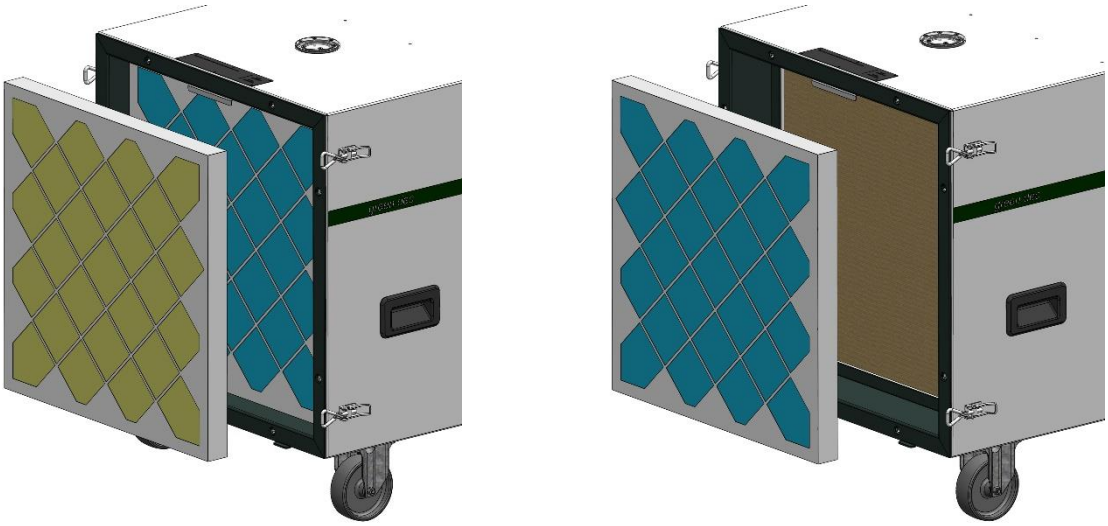
9.5.1 Procedure using the G300 as an example

- Loosen the tension locks and remove the hose connection flange / transport cover.

HINWEIS **Danger of fingers being crushed when opening and closing the tension locks**

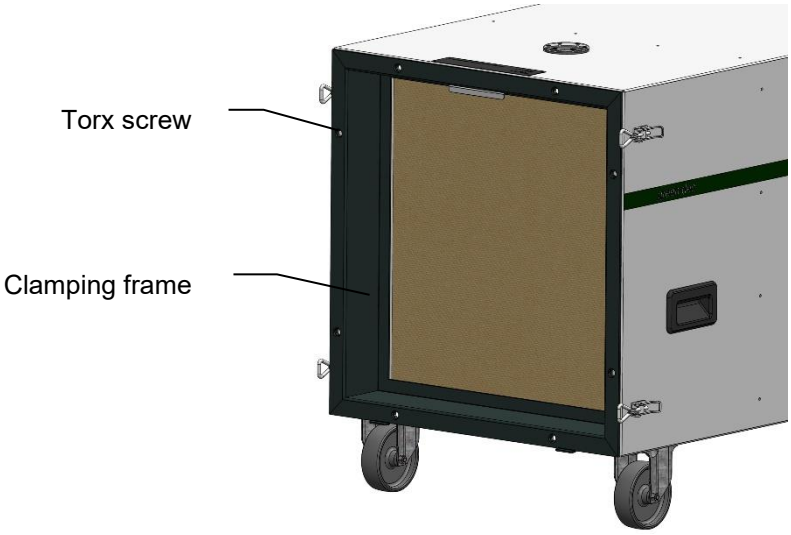


- Remove the pre-filter and intermediate filter and dispose of them in accordance with the regulations.

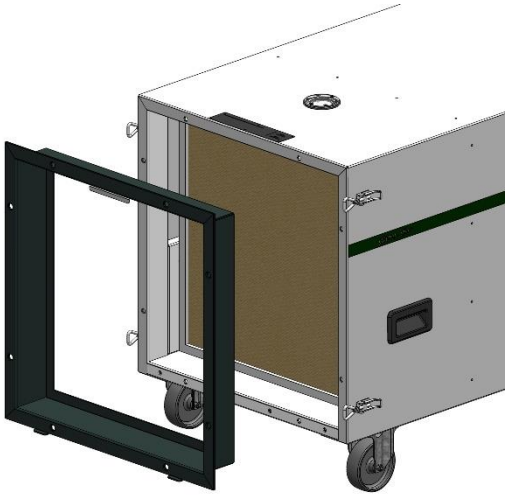


PrefilterIntermediate filter

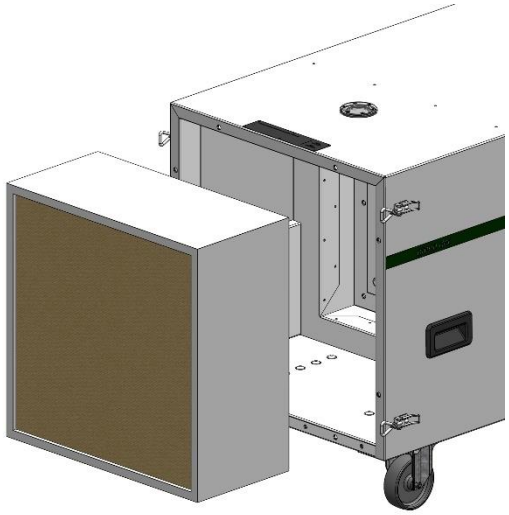
- Unscrew the Torx screws of the clamping frame with the Torx screwdriver supplied.



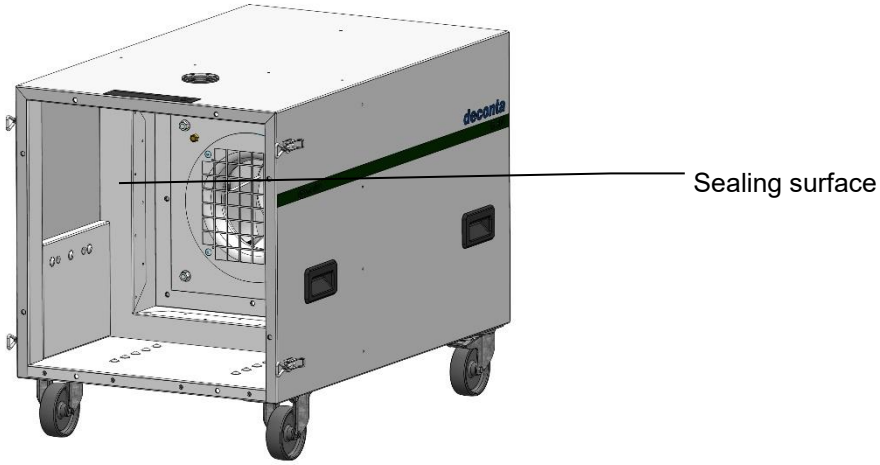
- Remove clamping frame



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



- Check and clean the sealing surface on the unit



- Clean the inside of the housing and insert a new main filter in the **centre.**
- Insert clamping frame and Torx screws (tighten screws evenly)
- Use pre- and intermediate filters
- Mount the hose connection flange

HINWEIS

The units 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 can result in the unintentional and uncontrolled release of hazardous substances into the environment due to filter overload (leakage, filter rupture, ...).

9.6 Troubleshooting and fault clearance

This section contains information on safe troubleshooting of the machine.

9.6.1 Possible malfunctions and tips for rectifying malfunctions

The following table gives an overview of malfunctions and measures to remedy them.

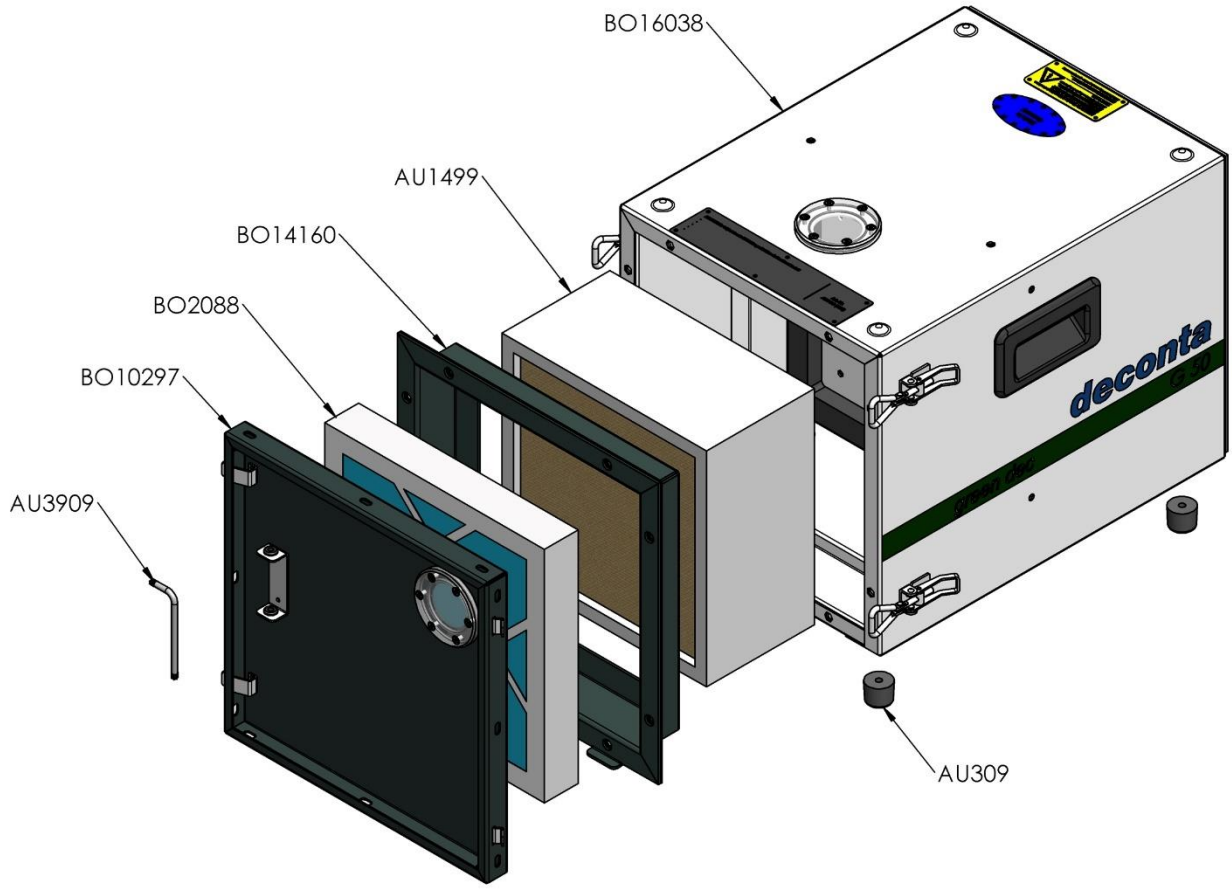
Malfunction	Possible cause	Measure
Negative pressure too low	Pre- / intermediate or main filter dirty	Change filter as described under 9.5
Unit does not work	Power source not in order	Have the power source inspected and repaired by a qualified electrician
Unit does not work	Components on the negative pressure unit defective	Have the unit repaired by deconta or a workshop authorised by deconta.

10 Spare parts

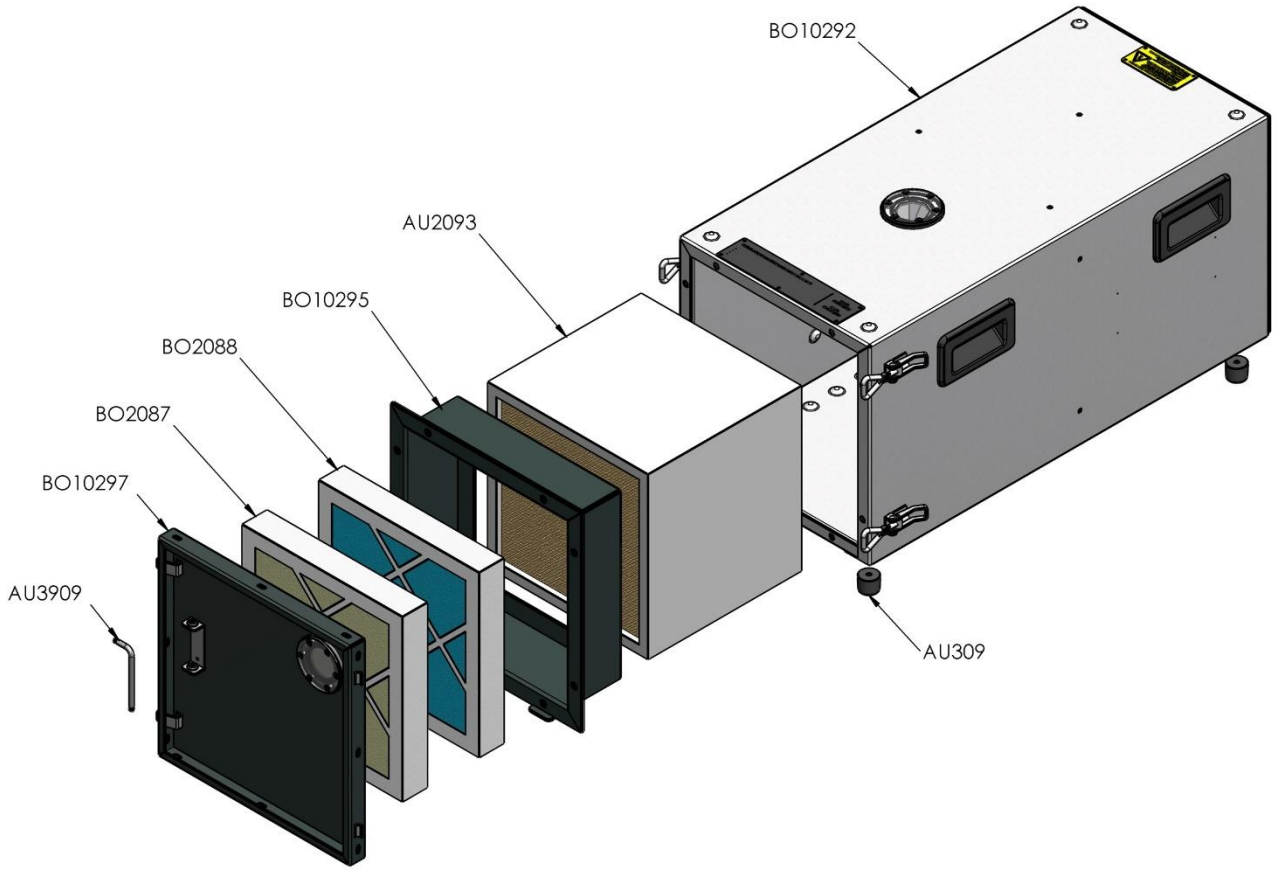
For safe, trouble-free and economical use of the machine, original spare parts should be used.

If this is not possible, the alternative spare parts should correspond to the characteristics of the original spare parts in order to ensure the safe, trouble-free and economical use of the machine.

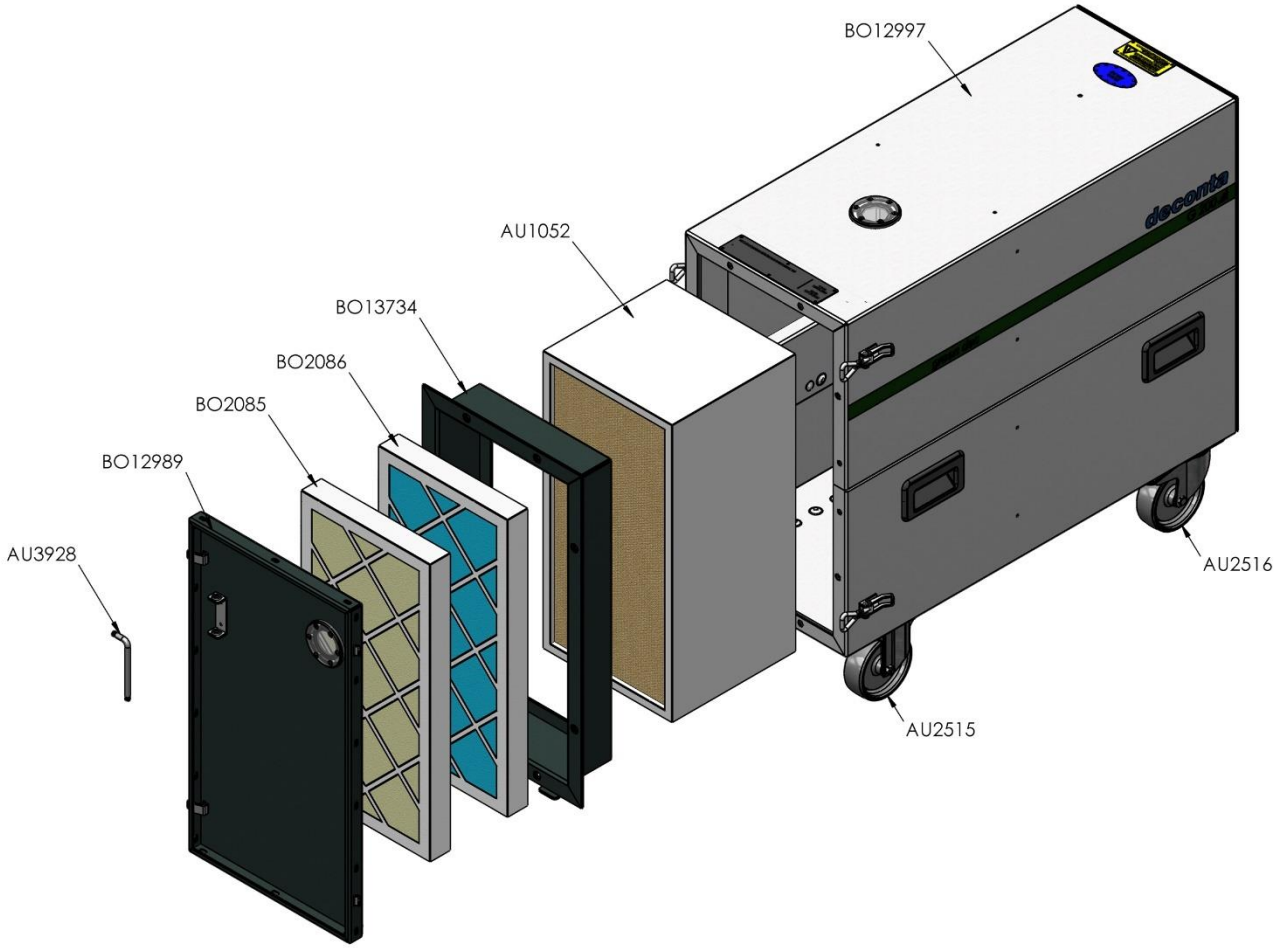
10.1 Negative pressure unit green dec G50



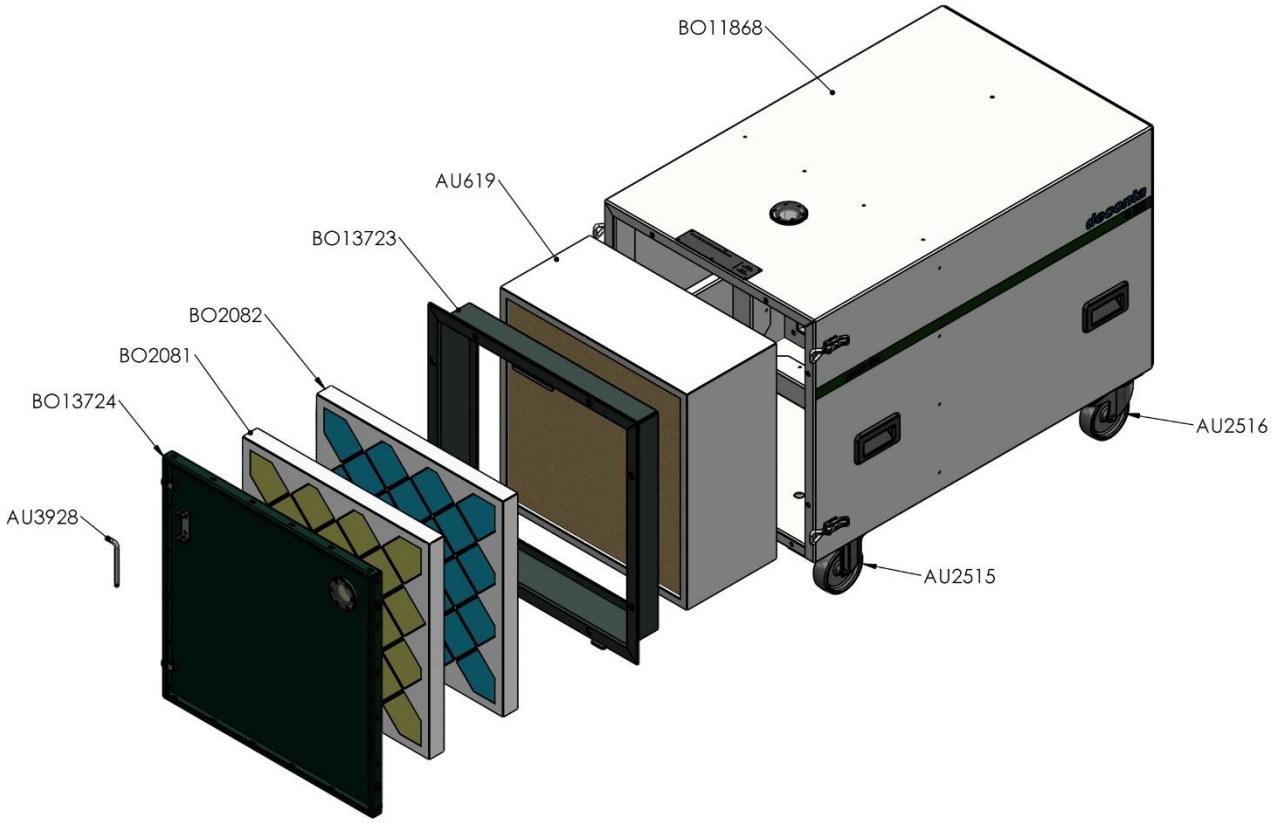
10.2 Negative pressure unit green dec G100



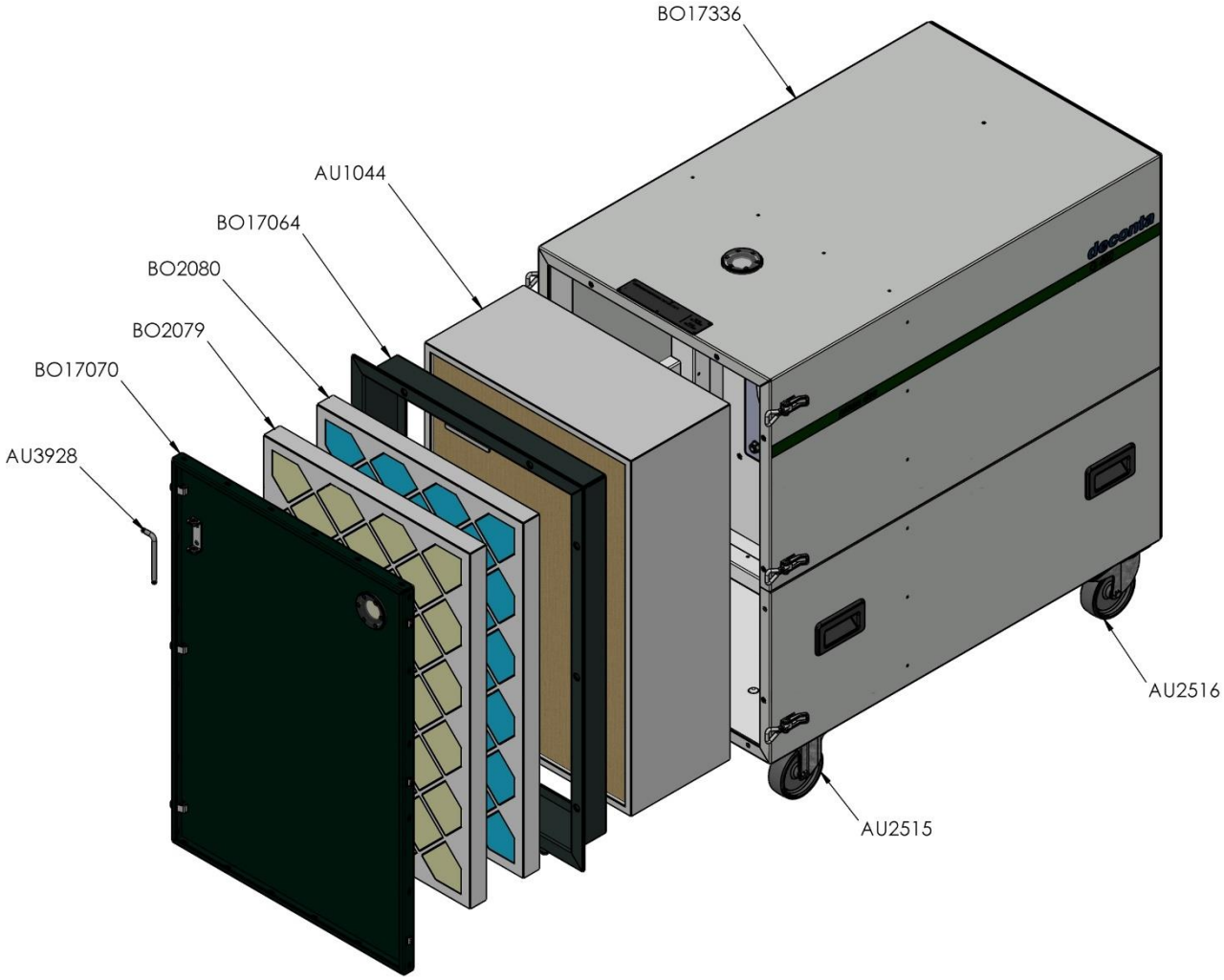
10.3 Negative pressure unit green dec G200



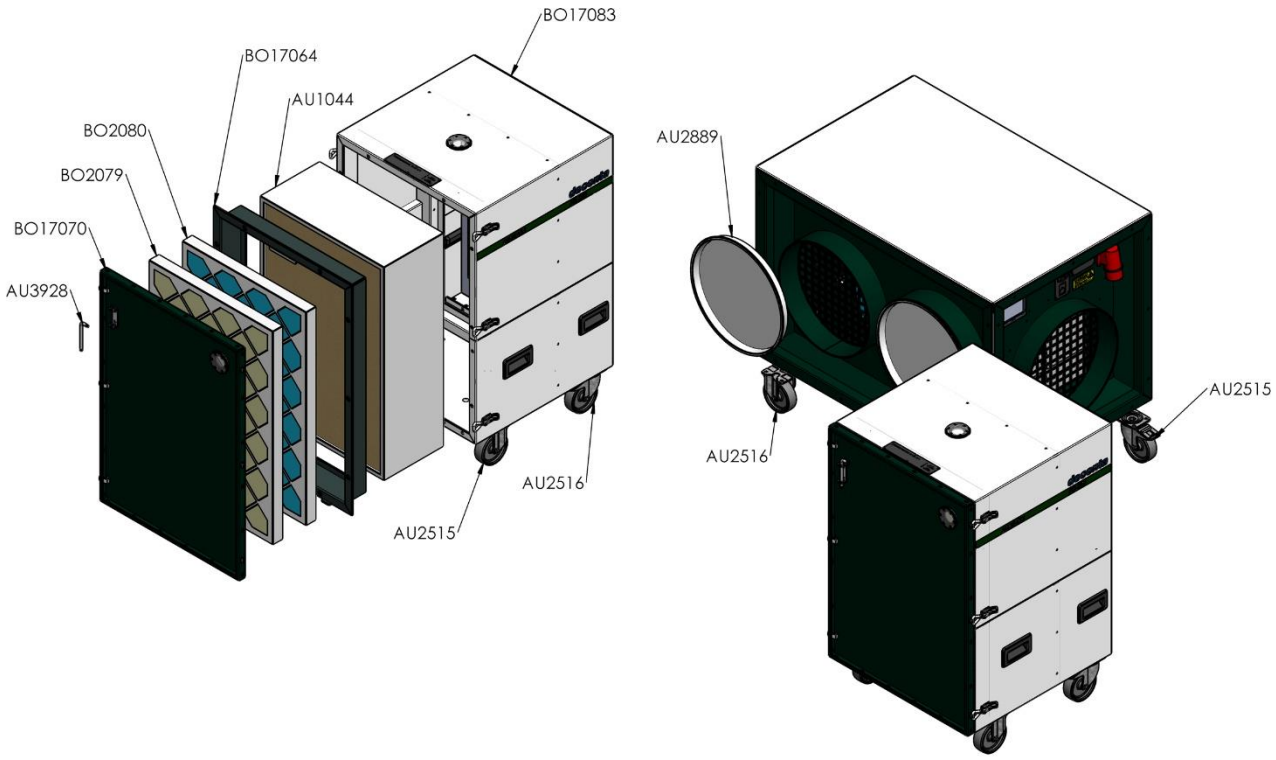
10.4 Negative pressure unit green dec G300



10.5 Negative pressure unit green dec G400



10.6 Negative pressure unit green dec G500



11 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 a decommissioning for a site relocation

11.1 Environmental conditions

The machine can be stored under the following environmental conditions:

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

11.2 Requirements

The following requirements must be met for storing the machine:

- Thoroughly cleaned (decontaminated)
- with mounted transport / closing lid

We expressly refer to possible additional regional and national regulations when storing the appliance technology.

12 Disposal

Disposal is the capturing, collecting, forming, selecting, processing, regenerating, destroying, recycling and selling of the materials to be disposed of that are built into the machine.

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

12.1 Qualification of the staff

Persons disposing of the machine must meet the following requirements:

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

12.2 Legislation

Disposal of the machine shall be in accordance with the legislation of the country where the machine is disposed of.

Compliance with these legal regulations is basically the responsibility of the operator of the machine or the person in charge of disposal.

12.3 Waste

The waste generated by the machine must be disposed of in a legally compliant, proper and professional manner.

13 EC Declaration of Conformity

The manufacturer / distributor

deconta GmbH
Im Geer 20
46419 Isselburg

hereby declares that the following product

Product name:	green dec
Type designation:	G50, G100, G200, G300, G400, G500
Serial number:	see type plate
Trade name:	Negative pressure unit green dec
Year of manufacture:	see type plate
Description:	Negative pressure unit green dec

complies with all relevant provisions of the applied legal regulations (hereinafter) - including their amendments in force at the time of the declaration. The sole responsibility for issuing this declaration of conformity lies with the manufacturer. This declaration relates only to the machine in the condition in which it was placed on the market; parts and/or interventions subsequently fitted by the end user are not taken into account.

The following legislation was applied:

Machinery Directive 2006/42/EC
EMC Directive 2014/30/EU
Radio Equipment Directive 2014/53/EU
RoHS Directive 2011/65/EU

The protection goals of the following further legal regulations were complied with:

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 62368-1:2014/AC:2015	Equipment for audio/video, information and communication technology - Part 1: Safety requirements (IEC 62368-1:2014 (Modified))
EN ISO 12100:2010	Safety of machinery - General principles for design - Risk assessment and risk reduction (ISO 12100:2010)
EN ISO 13849-1:2023	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 from being reached by the upper and lower limbs (ISO 13857:2019)

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

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

Place: Isselburg Date: 03.06.2025

Leiter Konstruktion / head of construction

Leiter Elektro / head of electro