

Original operating instructions



deco mobil E 3000

Change index

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11.05.2023	0	New creation	Uwe Schaaf

These operating instructions were commissioned (2023-3525) by uttc - Ingenieurgesellschaft mbH, Friedrich-Heinrich-Allee 159, D-47475 Kamp-Lintfort (info@uttc.de) for the first time. It has been compiled to the best of our knowledge and any changes to the original version are listed here.

If you notice any errors or ambiguities, please let us know. We are also grateful for any comments and suggestions.

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These operating instructions are kept near the machine within easy reach.

It must be supplied with the sale.

Contents

1.	Notes on reading	5
1.1.	User of the operating instructions.....	5
1.2.	Abbreviations, synonyms, symbols	5
1.3.	Safety-related information	6
1.3.1.	Overview.....	6
1.3.2.	Security chapter.....	6
1.3.3.	Warnings.....	7
1.4.	External documents	8
2.	Security	9
2.1.	Intended use.....	9
2.2.	Legal regulations	10
2.2.1.	Conversions.....	10
2.2.2.	Applicable guidelines	10
2.2.3.	Sales to the non-European economic area	10
2.3.	Safety instructions	10
2.3.1.	According to the source of the hazard.....	10
2.3.2.	After the life phase.....	12
2.3.3.	According to the location of the hazard	14
2.4.	Operator.....	15
2.5.	User groups.....	15
2.5.1.	Description of the user groups.....	15
2.5.2.	Access restriction.....	16
2.5.3.	Personal protective equipment - PPE	16
3.	MachinesDescription.....	19
3.1.	Technical data.....	19
3.1.1.	Scope of delivery	19
3.1.2.	Data of the machine	19
3.1.3.	Supply of energy and operating materials	21
3.2.	Structure	22
3.2.1.	Left side view	23
3.2.2.	Interfaces	23
3.3.	Operating and display elements	23
3.3.1.	Control cabinet in the technical centre	23
3.3.2.	Selector switch for shower and drain	25
3.3.3.	Switch and thermostat for room heating.....	25
3.3.4.	Operating status displays	26
3.3.5.	Displays	26
3.3.6.	Vendor machines.....	26

3.4.	Function	28
3.5.	Security concept	28
3.5.1.	Licence plate on the machine and the packaging	28
3.5.2.	Emergency stop, emergency off devices, main switch	28
3.5.3.	Protective devices	29
3.5.4.	Protective conductor, earthing and potential equalisation	29
3.5.5.	Explosion protection and firefighting	30
4.	Transport.....	31
4.1.	Operation in road traffic	31
4.1.1.	General trailer description	31
4.1.2.	Checks before every journey	32
4.1.3.	Regular inspection and maintenance.....	33
5.	Assembly	39
5.1.	Requirements for installation	39
5.2.	Aligning and mounting	39
5.2.1.	Crank supports deco mobil E 3000	39
5.3.	Connect	40
5.4.	Check.....	40
6.	Commissioning.....	41
6.1.	Before commissioning.....	41
6.2.	Switch on	41
6.3.	Examinations	41
6.3.1.	Testing the function	41

Contents

6.4.	Commissioning	41
7.	Operation and handling	43
7.1.	Operating mode	43
7.2.	Switching on and off	43
7.3.	Operation	43
8.	Error processing	45
8.1.	Possible faults and how to rectify them	45
9.	Maintenance	47
9.1.	Maintenance schedule	47
9.2.	Safety-relevant components	49
9.3.	Examinations	49
9.4.	Commissioning after maintenance	49
10.	Decommissioning and dismantling	51
10.1.	Decommissioning	51
10.2.	Disassembly and storage	51
10.2.1.	Machine and components	51
10.2.2.	Store	51
10.2.3.	Check stored goods	52
10.3.	Recommissioning	52
10.4.	Waste disposal	52
10.4.1.	Electrical and electronic devices	52
11.	Attachments for documentation	53
11.1.	External documentation	53
11.2.	Own documentation	53
11.3.	Spare parts	53
11.3.1.	Safety-relevant spare parts	53
11.3.2.	Replacement parts	53
11.4.	Suppliers of specialised tools, materials, technical assistance	54
11.5.	Type plate	54
11.6.	Conformity	55

1. Notes on reading

1.1. User of the operating instructions

Chapter	Operator	Specialised personnel	User
Security	x	x	x
Product description		x	x
Transport		x	x
Assembly		x	x
Commissioning		x	x
Operation and handling	x	x	x
Troubleshooting		x	x
Maintenance	x	x	
Decommissioning		x	


1.2. Abbreviations, synonyms, symbols

Abbreviation/ synonym	Meaning
PSA	Personal protective equipment
EMC	Electromagnetic compatibility
BetrSichV	Industrial Safety Ordinance
DGUV	German statutory accident insurance
SVHC	Substances of very high concern Substances of very high concern according to the list of the European Chemicals Agency ECHA and according to REACH Regulation (EC) 1907/2006
Machine	deco mobil E 3000

Sign	Meaning
→	Instructions on how to act or read a section of this document
●	Enumeration, main points
○	Enumeration, subitems
📄	Request to read further documents

Notes on reading

Safety-related information

Sign	Meaning
Italics	Designation of a document, a button, a pushbutton, a switch
	This text provides additional information that is necessary for understanding.

1.3. Safety-related information

1.3.1. Overview

The safety-related information explains the dangers at the machine and how you can avoid these dangers.

You will mainly find this information:

- As safety instructions and pictograms in chapter 2 Security
- As warnings of imminent danger
- As pictograms and warning text in chapter 3.5.1 Licence plate on the machine and the packaging






Read the safety-related information particularly carefully. Your knowledge will enable you to recognise dangerous situations and protect yourself and others.


1.3.2. Security chapter

In this chapter you will find general safety-related information on avoiding hazards in connection with the machine. The information is intended to promote your awareness of safe behaviour. The aim is to provide a basis for training and instruction.

Observing the safety instructions protects personnel, living creatures and the environment from harm.

The chapter uses the following safety labels:

Safety indicator	Meaning
	Warning of dangerous electrical voltage
	Warning of oxidising substances
	Warning of hot surface
	Use hand protection
	Use eye protection




Safety indicator	Meaning
	Use mask

1.3.3. Warnings

Meaning

These operating instructions contain warnings in several chapters. A warning warns you of an imminent danger. It is to be understood in connection with the situation in which the warning is given. The aim is to prevent accidents and damage during an on-going operation.


Warning words

Warning word	Risk level of the hazard	Meaning
 DANGER	high	Death or serious injury will occur if the hazard is not avoided.
 WARNING	medium	Death or serious injury can occur if the hazard is not avoided.
 CAUTION	low	Minor or moderate injury may occur if the hazard is not avoided.
ATTENTION	-	Damage with considerable financial consequences to the product or other property is possible.

Representation

Warnings are shown in the operating instructions as follows:

Variant 1:

 **DANGER** This warning text states the source of the hazard and the area of effectiveness. This warning text states the consequences.


→ This instruction gives the remedy for avoidance.

The warning:

- appears in the current text or at the beginning of a step-by-step guide.
- applies to the following text passage or the entire step-by-step instructions

Variant 2:

1. Step 1

 **DANGER** This warning text states the source of the hazard and the area of effectiveness. This warning text states the consequences.

2. Step 2, This instruction states the remedy to avoid

Notes on reading

External documents

3. Step 3

The warning:

- is about to take an action with imminent danger.
- applies to this action.

1.4. External documents

In addition to these operating instructions, third-party documentation from suppliers must also be observed. The addresses of the companies and the documents are listed in chapter 11.1 listed.

The third-party documents contain safety-related information. They are not repeated in these original operating instructions.

If the third-party documents pose a risk to the machine as a whole, these were taken into account in the risk assessment.

■ Read third-party documents in chapter 12.1.

2. Security

2.1. Intended use

The deco mobil E 3000 is a mobile personnel lock. The machine was designed and built by the company deconta GmbH, Im Geer 20, 46419 Isselburg.

The mobile airlock deco mobil E 3000 is based on a multi-chamber system, which enables a step-by-step entry into the contaminated area and also an exit in several phases without carry-over.

A negative pressure is generated in this airlock system so that contaminated components cannot enter other rooms or the outside air either through air exchange or carryover, e.g. via protective clothing.

The machine may:

- only be used in the commercial and industrial sector,
- be operated outdoors,
- must not be used in potentially explosive atmospheres.

The machine is built according to the state of the art and the recognised safety regulations.

Nevertheless, improper or unintended use of the machine may result in danger to life and limb of the user or third parties or damage to the machine and other property.

The area of application of the machine is the industrial sector. It is not intended for connection to a public power supply network, but for connection to a power supply network that is fed via a dedicated high or medium voltage distribution transformer, which is used to supply power to a factory or a similar machine.

Intended use includes observing these operating instructions and the suppliers' operating instructions and complying with the suppliers' inspection and maintenance conditions.

The manufacturer is not liable for any damage resulting from non-compliance. The operator bears the risk.

If faults occur during operation:

- Switch the machine off immediately.
- Inform specialised personnel or the supplier companies.
- Inform specialised personnel or the third-party manufacturers of the individual machines.

Reasonably foreseeable misuse

Any use other than that described in these operating instructions is considered foreseeable misuse. This includes

- operation in potentially explosive atmospheres,
- operation without sheet metal panelling or protective enclosures,
- the mechanical or electrical bridging of the machine or of machine parts,
- the use of parts other than the original parts or parts outside the specification of the replaced part,

Security

Legal regulations

- Conversions, modifications and manipulations,
- use for processing other materials than intended,
- non-compliance with the instructions and prescribed operating, maintenance and servicing conditions,
- non-compliance with the provisions and regulations in the country of use and with the statutory provisions and accident prevention regulations when handling the machine,
- the operation of the machine and the individual machines outside the technical data.

2.2. Legal regulations

2.2.1. Conversions

Conversions can create new hazards at the machine. Serious personal injury is possible. A reassessment of the hazards must be carried out before the conversion. The entire machine area and all phases of life are included.

Only original spare parts or spare parts that correspond to the specification of the original spare part may be used for maintenance work. The use of other parts may result in a loss of liability on the part of the manufacturer. Liability is then transferred to the retrofitter or operator.

2.2.2. Applicable guidelines

■ See EC Declaration of Conformity in chapter 11.

2.2.3. Sales to the non-European economic area

On disposal of the machine to the non-European economic area, no liability is assumed by the manufacturer. The machine is designed, built and documented exclusively for the European Economic Area.

In the event of resale of the machine to non-European countries, the seller fulfils the obligation of all legal requirements of the respective economic area/country.

2.3. Safety instructions

The safety instructions are sorted according to their area of application.

2.3.1. According to the source of the hazard

Applies in all phases of life for the entire machine.

Energy



Electrical energy

The machine has a supply voltage of 230 V. Touching conductive parts can lead to a fatal electric shock.

- Before working on the machine switch off the main switch and secure it against being switched on again.
- Replace damaged cable immediately.
- Lock the switch cabinet at the end of the work and remove the key.
- When dismantling, disconnect and remove the supply cable.

Substances, materials



Air filter, wastewater filter and sterilisation

At the machine air and water filters are used on the machine. These filters must be replaced regularly. The wastewater filters must be replaced weekly or daily in the case of very heavy use. A special programme must be started in the control unit for disinfection

- PPE must be worn.
- Dispose of the filter according to the manufacturer's instructions.

Noise

Generator

In the immediate vicinity of the generator, a noise level of over 85 dB(A) is generated during operation. Staying in the vicinity of the generator for a longer period of time can impair hearing.

- Hearing protection must be worn.

Fire, fire, explosion



Explosive atmosphere and fire hazard

The generator runs on petrol. Spilt petrol can lead to an explosive atmosphere in the generator room or cause a fire.

- Thoroughly remove any spilt petrol immediately.
- Make sure that the fuel filler cap is properly closed.

Setting up / Parking



Parking position not sufficiently secured

A surface that is not level and does not have sufficient load-bearing capacity can cause the deco mobil to tip over. If the parking position of the deco mobil is not adequately secured, the deco mobil may roll away and tip over.

- Align the parking position horizontally.
- Extend all supports.
- Slide out the step and engage the locking pin.
- Connect the power correctly.
- Activate and set the control unit.

Ageing, wear

Unnoticed wear and tear

The machine and its safety equipment are subject to ageing. The components have been designed to withstand the expected loads. Nevertheless, they age and wear out. Components may become defective earlier than expected. If ageing, wear and defective parts are not noticed, serious injuries can occur.

- Adhere to the maintenance schedule.
- Carry out regular visual inspections.

Labelling of the operating and display elements

The operating and display elements are labelled. This prevents incorrect operation. Missing labelling can lead to personal injury and machine damage.

- Keep operating and adjusting parts and labelling clean.
- Replace damaged labelling.

Human error

Traffic routes

When working on and around the machine tools and components are stored in the work area. There is a risk of tripping if stored in the traffic routes. The same applies when laying pipes and cables in the traffic routes. People can slip on spilled liquids.

- Do not lay connection lines and cables in traffic routes.
- Store objects and loose cables away from traffic routes.
- Remove tools and other equipment after repair work.
- Always keep the machine area clean and dry.
- Absorb spilled substances immediately.

2.3.2. After the life phase

Apply during special phases of life to the entire machine.

Transport

Power connections

The machine is connected to its energy sources. Even a slight change of location can damage cables and lines. Cable damage can cause metallic parts to become live. Cables can break off and become exposed. Electric shock is possible. Liquids can leak through cable cracks and leaking couplings. Skin injuries are possible. Slipping is possible. Gases can escape unnoticed through cable cracks and leaking couplings. Chemical burns, loss of consciousness and breathing difficulties are possible.

- Disconnect the machine from the power sources before each transport.

PSA

The deco mobil must be attached to the towing vehicle for transport. Hands can be crushed or grazed during these operations. Suspended loads can swing. Carelessness can cause the head to bump. Loads can fall or be set down inaccurately. Serious injuries to feet and toes are possible.

- Safety helmet must be worn.
- Protective work gloves must be worn.
- Protective footwear must be worn.
- Never stand under suspended loads.

Loading towing vehicles

Under-dimensioned towing vehicles can be overloaded by the load. The machine parts can protrude beyond the external dimensions of the transport vehicle. Functionality and roadworthiness may be impaired. The impairments may not be immediately visible and may only occur during transport.

- Sufficiently dimension the transport according to the weight and dimensions.
- Lash loads on the transport vehicle using suitable means.

Assembly, disassembly

Storing tools and components

Tools can be stored outside of tool storage areas. Components are ready for installation. People can trip and fall.

- Allow for sufficient installation and storage space.
- Do not store tools and components in traffic routes or in unclear locations.
- Clean up tools at the end of work.
- If necessary, block traffic routes for third parties.

Operation, handling

Set up

The deco mobil must be placed in a secure parking position for connection to the power supply. The mains cable must not become a tripping hazard. Standing inside the deco mobil without a secure parking position can endanger people.

- Only allow specialised personnel to work in the set-up shop.

Maintenance

Replace components

The components of the machine are matched to each other in terms of their parameters and design. Replacing them with unsuitable components can cause malfunctions and danger to persons on the machine.

- Only use original spare parts or spare parts that correspond to the specification of the original spare part.
- Always observe the parts list.
- Comply with maintenance intervals
- Inspection of parts, components and equipment

Waste disposal

Avoid environmental damage

The machine contains components or substances that are hazardous to the environment if disposed of improperly.

→ To avoid environmental damage, proceed as follows. Materials and components:

- Sort,



- Do not throw parts in the rubbish bin,
- Dispose of in accordance with the legal regulations,
- Collected and recycled by a specialised company.
- Observe the safety data sheets of the emulsions, cleaning agents and lubricants used.

2.3.3. According to the location of the hazard

Applies to special machine parts in all phases of life.

Electrical equipment

Other electrical hazards

Risk of confusion when working on electrical equipment.

→ Equipment labelling must be checked regularly.

Safety equipment

Regular inspection

The protective devices are designed in such a way that the risk of injury has been minimised to a residual risk when used as intended. Serious injuries can occur if protective devices are not functional.

- Do not tamper with or modify protective devices.
- Always operate the machine with functional safety devices.
- Only remove protective devices when the main switch is switched off and secured against being switched on again.
- After repair work, refit the protective devices and check their function.

2.4. Operator

The operator:
...assumes obligations under labour law in relation to the operation of the machine.
<ul style="list-style-type: none"> operates the machine safely and without manipulation in all phases of its life, ensures that personnel read and understand the operating instructions, instructs staff before they start work for the first time, provides the operating instructions in paper form at the machine, receives the operating instructions and third-party documents in legible condition.
...performs personnel organisation tasks.
<ul style="list-style-type: none"> assigns people to a user group, defines the access authorisations to the machine, the control panel, the control system and the programme, instructs the user groups.
...instructs users in behaviour in the event of accidents and malfunctions. The content of the instruction includes, for example
<ul style="list-style-type: none"> the locations for first aid stations, the location and course of the escape routes, behaviour in emergencies and regular practice of this behaviour. <p>→ Seek professional medical treatment immediately after administering first aid.</p>

2.5. User groups

2.5.1. Description of the user groups

End consumer
...are persons who have acquired the machine for further use.
<ul style="list-style-type: none"> observe the operating instructions and further documentation on the machine, use the machine only as described in chapter 2.1 Intended use, only have defects and damage repaired by specialised companies.

2.5.2. Access restriction

User groups

The user groups may only have access to the machine according to their qualification.

Age

The users of the machine must be of legal age. Trainees under the age of 18 may only use the machine for training purposes in the presence of a trainer.

Health






The machine must not be operated by persons who are under the influence of reaction-reducing substances or who are unable to operate the machine for health reasons.


Users must be able to recognise the visual and audible danger signals.

→ Instruct unauthorised persons to leave the machine.

2.5.3. Personal protective equipment - PPE

The user's personal protective equipment includes

PPE	When?	Pictogram
Respiratory protection	<ul style="list-style-type: none"> Filter change wastewater, Filter change air filter 	
Safety goggles	<ul style="list-style-type: none"> Filter change wastewater, Filter change air filter ... 	
Hearing protection pictogram	<ul style="list-style-type: none"> Activities in the immediate vicinity of the operating generator 	
Protective gloves	<ul style="list-style-type: none"> Maintenance and repair, Dismantling, Filter change wastewater Filter change air filter 	
Safety shoes	<ul style="list-style-type: none"> Maintenance and repair, Dismantling, Filter change wastewater Filter change air filter 	

PPE	When?	Pictogram
Protective clothing	<ul style="list-style-type: none">• Maintenance and repair,• Dismantling,• Filter change wastewater• Filter change air filter	

3. MachinesDescription

3.1. Technical data

→ Operate the machine within the limits of the technical data.

The machine is powered by a 230 V petrol generator. It enables all consumers to be used without an external power connection (self-sufficient operation). With its combustion engine, the generator requires air from outside. The exhaust fumes from the generator are discharged via an exhaust pipe. The shower is supplied with water from the public drinking water network. The water is heated by an electric heater in the hot water tank. The wastewater is fed into the wastewater tank with a capacity of 150 litres via a wastewater filter system. The chassis is approved for a maximum speed of 80 km/h.

📖 The technical data in the supplier documents in chapter 11.1. must be observed.

3.1.1. Scope of delivery

The scope of delivery includes:

- Multi-chamber system with negative pressure HEPA filter system
- Petrol generator
- Wastewater filter system
- Contaminated space
- Clean space
- Shower room with height-adjustable shower fitting
- Technical room

3.1.2. Data of the machine

Dimensions and weights

Naming	Value
Machine L x H x W	approx. 4370 mm x 2530 mm x 2005 mm
Total weight	620 kg

Energies and connections

For the power supply via the 230V mains, the deco mobil has a 16A coupling socket for connection with a CEE plug. The connections for electricity and for fresh and wastewater are arranged next to each other.

→ See figure 2.

MachinesDescription

Technical data



Abb. 1 CEE heavy current phase inverter plug blue grey 16A 4-pin 230V

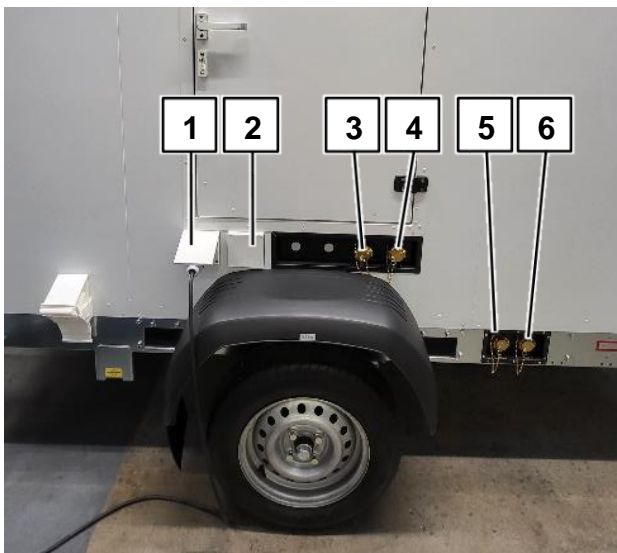


Abb. 2 Electricity and water connections

Pos.	Naming
1	Connection socket for the power supply via the 230 V mains
2	230 V socket outlet for electrical equipment
3	Filtered wastewater from shower
4	Fresh water connection
5	Filtered wastewater from shower
6	Fresh water tank outlet

Naming	Value
Supply voltage	230V / 50Hz
Operating pressure water	4 bar (drinking water network)

Environmental conditions for operation

Naming	Value
Humidity	30 -90 %
Permissible ambient temperature	5 °C to 40 °C

Noise emission

Naming	Value
Emission sound pressure level L_{pA}	< 70 dB(A)

→ The noise emission measurement protocol in chapter 11.2. must be observed.

3.1.3. Supply of energy and operating materials

Electrics

There are two different types of energy supply:

Self-sufficient variant

The 3 kW maXpeedingrods MXR 3500 inverter power generator (Fig. 3) provides the necessary power supply for the electric water heater with a 3 kW heating element and the room heater. The on-board petrol power generator enables all consumers to be used without an external power connection. (self-sufficient operation).

Connection to the 230V mains supply

Power is supplied via the external power connection to the 230 V mains supply.



Abb. 3 230 V petrol generator

MachinesDescription

Structure

Fuel for the generator

Both E5 and E10 fuel types are suitable for the petrol power generator. The generator has a 4.0 litre tank capacity and achieves a maximum output of 3300 W with a rated output of 3000 W.

Water

The water comes from the public water supply or from canisters. Only use water with drinking water quality and a maximum hardness of 14 °dH (soft to medium). If the water contains limescale or if you notice that the water takes longer than usual to heat up, we recommend descaling the water tank approx. once a quarter. The maximum inlet pressure is 4 bar. The connection (pos. 4, fig. 2) is used for freshwater connection from the public water supply.

3.2. Structure

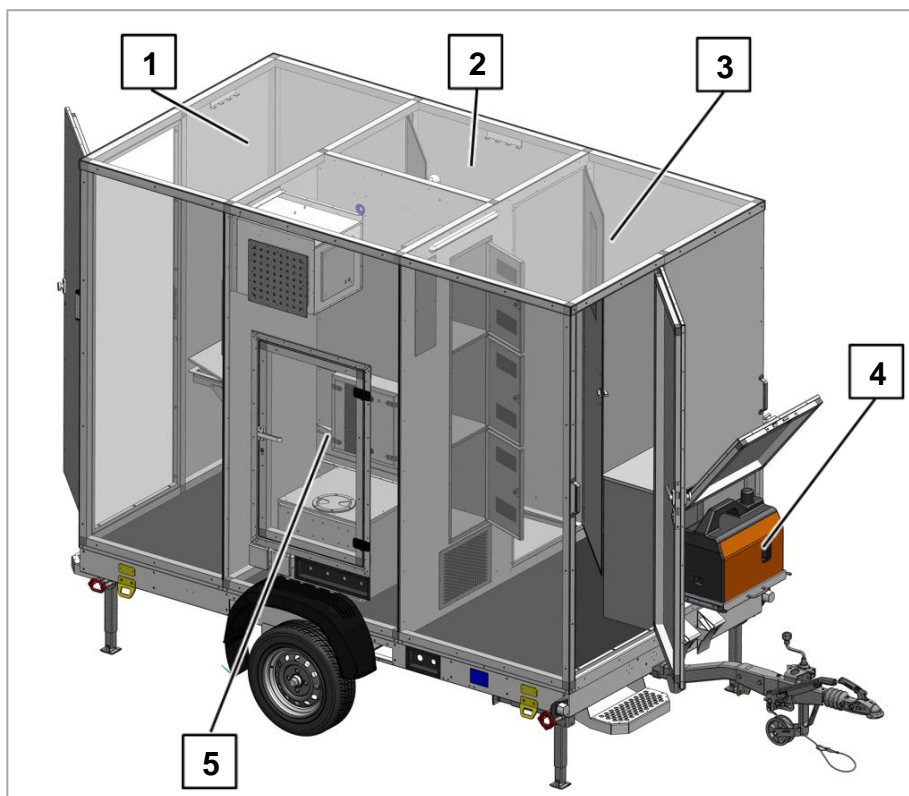


Abb. 4 Structure of the deco mobil E 3000

Pos.	Naming	Pos.	Naming
1	Contaminated space	2	Shower
3	Clean space	4	Petrol generator
5	Technical room		

3.2.1. Left side view



Abb. 5 Side view of the left side of the deco mobil E 3000

3.2.2. Interfaces

The hose connection to the drinking water network and the mains cable for the power supply should be considered as an interface. Care should be taken here to ensure that these are not damaged by kinking or unfavourable positioning and that they are connected correctly. The trailer drawbar should also be considered as an interface. It is height-adjustable and has an interchangeable towing device (ball head and claw).

3.3. Operating and display elements

3.3.1. Control cabinet in the technical centre

The control cabinet is located in the technical room. There is a control panel with switches for switching the heating and the fan for generating the vacuum on and off. There is also a pushbutton for switching on and off the 230 V power supply as well as an indicator light that shows the connection to the 230 VAC power supply.

MachinesDescription

Operating and display elements

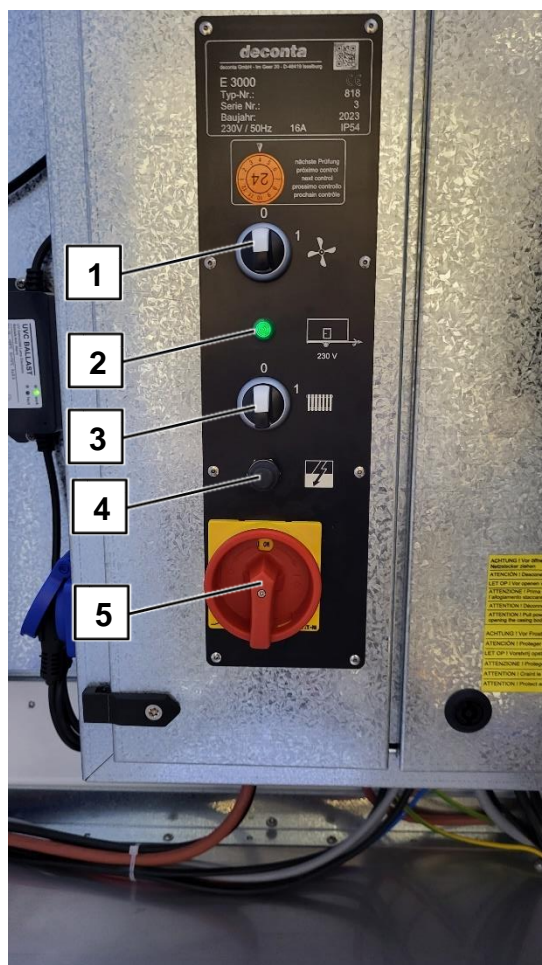


Abb. 6 Switch cabinet in the technical room

Pos.	Naming
1	Fan on/off switch for the vacuum
2	Green indicator light "Connected to 230 VAC power supply"
3	On/off switch for the heating
4	Stop/off push-button for interrupting the 230 VAC power supply
5	Main switch

3.3.2. Selector switch for shower and drain

A selector switch is provided in the shower room to activate the shower or drain (Fig. 7). For showering, set the selector switch to the shower symbol. Then set the selector switch to the drain symbol to drain the shower water. Finally, set the switch back to the zero position.



Abb. 7 Selector switch in the shower room

3.3.3. Switch and thermostat for room heating

There is a rotary switch for the warm air heating in the clean area. When the heating is switched on, a red indicator light illuminates. The desired room temperature can be set using the dial on the thermostat.



Abb. 8 Switch and thermostat for room heating in the clean area

MachinesDescription

Operating and display elements

3.3.4. Operating status displays

The following operating statuses can be read off the deco mobil E 3000:

The indicator light on the control cabinet in the technical room shows whether the deco mobil E 3000 is connected to the mains or not. The green indicator light lights up to confirm that it is connected to the mains (see Fig. 6, position 2).

A red indicator light is used to recognise the operating status of the room heating in the clean area. When the heating is switched on, this indicator light is illuminated (see Fig. 8).

3.3.5. Displays

Spirit level

A stable parking position is required for safe and trouble-free operation of the deco mobil. This requires the deco mobil to be parked in a horizontal position wherever possible. Two spirit levels, which are permanently connected to the deco mobil in the technical room, are used to check the parking position.

3.3.6. Vendor machines

The petrol power generator is used for self-sufficient operation and has 2x 230 V sockets & 1x 12 V output & 2x USB connection. At full load with 3000 W, an operating time of over approx. 2.5 h is possible without a mains connection.



Abb. 9 MRX 3500 power generator

Pos.	Naming
1	LED warning for low oil level
2	Overload LED warning
3	AC LED "ready for operation"
4	Efficiency mode switch for speed adjustment to the load.
5	DC circuit breaker, trips on overload and blocks the current.
6	AC reset, triggers on overload, inverter then without power, motor continues to run.
7	3-in-1 button: Switches the generator on. → Turn the knob to "CHOKE" and pull the starter cable. → When the AC LED lights up green, turn the knob back to "RUN".
8	EU sockets with 230 volts, 16 amps
9	USB duplex: 5 V DC with 1 ampere and 2.1 amperes
10	Parallel connections for connecting a 2nd generator of the same type to increase output power
11	DC cigarette lighter output

Information in the third-party documentation in chapter 11.1 note.

3.4. Function

The contaminated employee enters the mobile airlock in the contaminated area. A continuous negative pressure is generated here. The contaminated work clothing can be removed here. The extracted air is cleaned by a HEPA air filter. This prevents contaminated dust from entering the outside air.

After the contaminated room, the employee enters the shower room. The shower pump is started via a selector switch. The water flow is adjusted by a pump or optionally by a water tap.

After showering, the employee leaves the area and goes to the clean room to get dressed with a change of clothes. The controls for the various functions of the mobile airlock are also located there.



3.5. Security concept

3.5.1. Licence plate on the machine and the packaging

At the machine safety-related information is attached to the machine in the form of pictograms and/or inscriptions. They indicate risks that:

- occur frequently and/or
- can have serious consequences.

At the machine is labelled as follows:

Meaning	Place	Labelling
Warning of dangerous electrical voltage	Switch cabinet	
Warning of hot surfaces	Exhaust on the petrol generator; ventilation grille of the hot air heating; hot water tank	

3.5.2. Emergency stop, emergency off devices, main switch

Furnishings	Location	Function
Main switch with emergency stop function	Switch cabinet in the technical room	Immediate interruption of the energy supply

The emergency stop and emergency off devices:

- are easily accessible,
- lock when actuated,
- have a direct effect.

Emergency stop and emergency off devices are only operated in an emergency. Their malfunction is therefore rarely noticed. In an emergency, malfunction can lead to fatal or serious injuries.

→ Check emergency stop and emergency off devices regularly.

Restart after emergency stop or emergency off:

- Check the cause of the actuation.
- If the cause is unclear do not put the machine into operation.
- Eliminate the cause.
- Reset the emergency stop or emergency off device.
- Start automatic mode.

During maintenance work, the main switch of the machine is switched off and secured with a lock to prevent it from being switched on again.




3.5.3. Protective devices

Fixed/mobile guards

Access to the generator cabinet and the technical room is only possible with a special key.

3.5.4. Protective conductor, earthing and potential equalisation

Installations on the machine:

Naming	Function	Pictogram
Protective conductor	Protects persons from electric shock.	
Earthing	Conducts fault currents into the ground.	
Potential equalisation	Establishing electrical connections between conductive parts in order to achieve potential equalisation.	

3.5.5. Explosion protection and firefighting

Explosion protection

Petrol vapours can form explosive mixtures with air or oxygen. The petrol generator should be installed in a separate installation room/generator cabinet that is sufficiently ventilated and sealed gas-tight with doors. There must be no sources of ignition or flammable materials present. When refuelling, ensure that petrol is not spilt. Any petrol residue must be carefully removed.

Fire

The fuels Super E5 and E10 are extremely flammable in liquid and vapour form. In case of fire, use water spray (fog), foam, dry chemicals or carbon dioxide. Do not use a water jet. If a water jet is used, the fire can be spread by splashing the product.

4. Transport

4.1. Operation in road traffic

4.1.1. General trailer description

Vehicle class:

Trailers of vehicle category O2, 750 kg to 3,500 kg gross vehicle weight.

Coupling system:

Ball head coupling Ø 50 mm in accordance with 9420/EC.

Electrical connection on the towing vehicle:

Plug connection 13-pin, in accordance with ISO 11446.

Box body:

Floor, outer and inner wall material in sandwich construction. Frame construction in aluminium.

Operating limits

The size, type and equipment determine the tare weight and drawbar load of a trailer on delivery from the factory. Loading or unloading by the user changes the drawbar load and the weight. The following operating limits must not be exceeded or undercut:

Naming	Value
Maximum authorised speed	80 km/h
Permissible total weight	See type plate
Permissible drawbar load	minimum 40 kg maximum 100 kg
Permissible floor load	100 kg/m ² , evenly distributed (only within the authorisation limits)
Permissible roof load	none


Driving in storms and squalls is prohibited.

National laws governing the operation of the trailer in road traffic take precedence over the information in this operating instruction manual.

4.1.2. Checks before every journey

Goal: Vehicle in roadworthy condition

Preparation

Facts of the case	Description of the
PPE	
Tyre inflator	Tyre pressure check: 6 bar for tyre type 195/50B 10

1. Trailer checked for completeness, loose parts and intactness?
2. Supports and boarding aids fully retracted, all doors closed and secured?
3. Is the ball head audibly and visibly engaged (see point 1.6) and is the breakaway cable folded down?
4. Drawbar support wheel raised and secured?
5. Electrical connection established and lighting equipment checked?
6. Handbrake released and wheel chocks removed?
7. Tyres and air pressure checked?

 **CAUTION** Escaping air and flying parts can cause eye injuries.

→ Wear safety goggles.

8. Roof free of snow and ice?

 **WARNING** Falling ice sheets can cause an accident in road traffic.

→ Remove ice and snow from the roof.

9. Test the brakes before each journey to check whether:
 - the overrun brake works,
 - the brakes react evenly and
 - the trailer stays on track when braking.

Be prepared for a change in driving behaviour when driving with a trailer: greater vehicle width, reduced acceleration capacity and a longer braking distance!

Have defects in the brake system repaired immediately by an authorised specialist workshop.

4.1.3. Regular inspection and maintenance

Axis

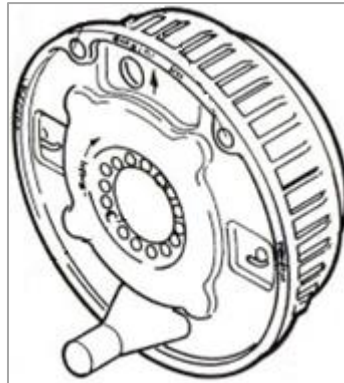


Abb. 10 Wheel hub and brake

After 1500 km or 6 months:

- Check the axial play of the wheel hub bearing and have it readjusted if necessary.

Every 10000 km or 12 months:

- Check the lining/wear of the wheel brakes at the inspection hole (see Fig. 16) and have them adjusted if necessary. The trailer brakes are subject to increased wear when travelling uphill continuously. Earlier adjustment may be necessary for utility trailers.
- Check the grease quantity and condition of the tapered roller bearings and have them replaced if necessary.

⚠ WARNING Significant wear on the wheel hub and wheel brake can lead to a road accident resulting in personal injury or death.

- Have regular checks carried out.
- All maintenance work should only be carried out by trained personnel at specialised workshops or service stations.

Please also refer to the corresponding operating instructions from ALKO Fahrzeugtechnik.

Overrun device

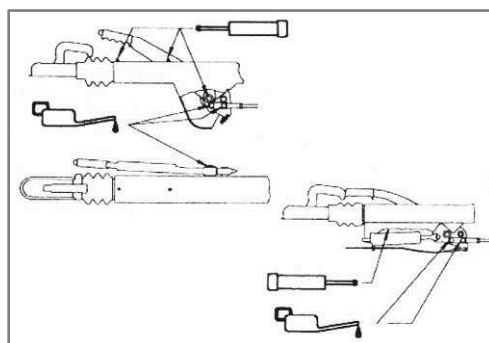


Abb. 11 Overrun device

Transport

Operation in road traffic

Every 10000-15000 km or 12 months:

- Lubricate or oil the sliding and articulation points of the overrun hitch.
See Fig. 10 for lubrication points.
- Please also observe the corresponding operating instructions from ALKO Fahrzeugtechnik.

Towing ball coupling

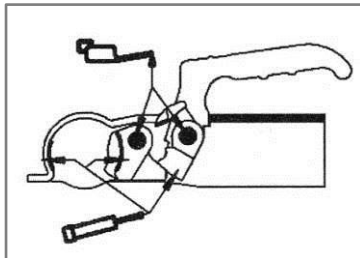


Abb. 12 Towing ball coupling


Weekly or when obviously dirty:

- Check the ball coupling and clean if necessary. Grease or oil the ball shell, joint and bearing points. See Fig. 18 for lubrication points.
- Please also observe the corresponding operating instructions from ALKO Fahrzeugtechnik.

Wheels, tyres and wheel changes

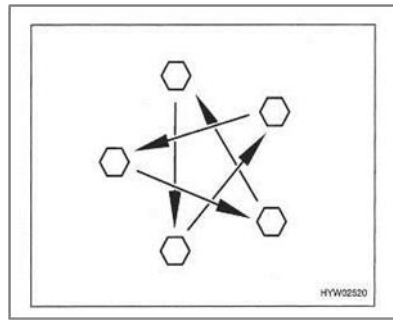
Goal: Roadworthy wheels and tyres

Preparation

Item	Description
PPE	
Tool	Torque spanner
Tool	Tyre tread depth gauge
Tool	Tyre inflator
Tool	associated jack

⚠ WARNING Inadequate fastening of the wheels can lead to a road accident resulting in personal injury or death.

1. Check tyres regularly for even tread wear, tread depth and external damage. Observe the minimum tread depth prescribed by law.
2. Only use tyres approved for the rim type (see vehicle registration document),
3. Always use tyres of the same type, make and design (summer or winter tyres).



4. Wheel nut tightening sequence
5. Tighten the wheel nuts crosswise (Fig. 19).
6. Tightening torque 90 - 110 Nm.
7. Check again after approx. 100 km on the first journey.
8. Regularly check the tyre pressure of the cold trailer tyres before driving.

Tyres	Air pressure in bar
195 / 50 B 10	6,0

The air pressure value applies to cold tyres. The trailer is continuously adapted to the latest technical standards. It is possible that new tyre sizes are not yet included in this table. In this case, deconta will be happy to provide the latest values.

Wheel change

Objective: Accident prevention when changing wheels

Preparation

Item	Description
PPE	
Tool	Torque spanner
Tool	Tyre tread depth gauge
Tool	Tyre inflator
Tool	Jack

⚠ DANGER Rolling away of the trailer or unstable position with jack during wheel change can result in injury or death.

1. The trailer must stand on level, firm and non-slip ground.
2. Use the jack supplied to change the wheel.
3. The parking brake must be firmly applied before lifting the trailer.
4. Secure the vehicle against rolling away with wheel chocks on the opposite side.
5. Never lift the vehicle with the crank supports attached.
6. Only use the jack at the designated and labelled points.

Transport

Operation in road traffic



Abb. 13 Attachment point for the jack

7. Do not lie under the raised trailer.
8. The use of rims and/or tyres that are not approved for the trailer may impair road safety.

Transport/attachments, support and axle load

Important for the choice of vehicle and trailer are the specifications listed in the vehicle documents and defined in the operating limits.

The specified trailer load of the towing vehicle provides information on the maximum weight that the towing vehicle may tow.

The drawbar load indicates the force with which the drawbar of the trailer may press on the trailer coupling of the towing vehicle. The maximum permissible drawbar load must not be exceeded and the minimum drawbar load must not be undercut.

The trailer may only be transported with vehicles that can demonstrate the drawbar load on the trailer coupling specified in the operating limits.

The axle load indicates the maximum permissible load for the front and rear axles of the towing vehicle and must not be exceeded by a trailer.

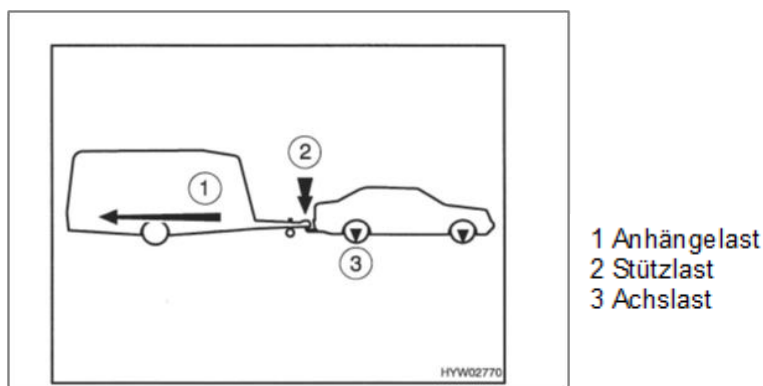


Abb. 14 Load data

Coupling

Objective: Safe coupling of the trailer

⚠ WARNING Inadequate coupling can lead to a road accident resulting in personal injury or death.

1. Bring the towing vehicle and trailer into position and do not couple the trailer with the brakes applied.
2. Position the trailer coupling over the trailer ball of the towing vehicle using the drawbar support wheel.
3. Place the open coupling (coupling handle pulled upwards) on the trailer ball of the towing vehicle by turning the support wheel downwards.
4. The clutch handle now engages automatically and audibly (press down by hand if necessary); closing and securing is automatic.
5. Hang the breakaway cable with a loop around the ball head of the towing vehicle's coupling device.
6. Turn the jockey wheel all the way up and lock it parallel to the direction of travel.
7. Plug the lighting plug of the trailer into the socket of the towing vehicle; make sure that the connecting cable cannot drag across the ground and check the lighting.
8. Remove any wheel chocks and release the parking brake.
9. Check the latching indicator:
 - It is only correctly coupled if the green area of the engagement indicator is visible.
 - Make sure that the inside of the clutch is not dirty and that the moving parts of the clutch move smoothly.






Abb. 15 Engage indicator

Uncoupling

Objective: Safe uncoupling / parking of the trailer

Preparation

Item	Description
PPE	  
Securing against rolling away	Use wheel chocks

⚠ WARNING If the trailer is not uncoupled/parked properly, it may roll away and cause a road accident resulting in personal injury or death.

1. Apply the trailer's parking brake.
2. Place the wheel chocks on both wheels.

Transport

Operation in road traffic

3. Remove the cable of the breakaway brake from the towing vehicle.
4. Disconnect the lighting plug and insert it into the holder on the drawbar.
5. Turn the drawbar support wheel down until it is firmly on the ground.
6. Pull the clutch handle firmly upwards and release.
7. Use the jockey wheel to raise the drawbar until the towing vehicle can be driven away without danger.
8. After uncoupling from the towing vehicle, make sure that the trailer:
 - is parked on as straight and level a surface as possible.
 - is secured against unintentional rolling away even on slight inclines or declines
 1. by the parking brake attached to the drawbar and
 2. the wheels are secured by the wheel chocks supplied.

Always extend the supports so that the trailer is stable.

Reverse travel

The trailer can be reversed easily with the automatic reversing system. In addition to the rolling resistance, a residual braking force must be overcome.

Connection diagram of the plug

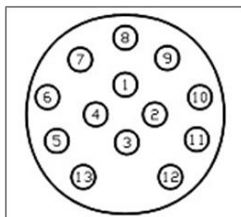


Abb. 16 Plug pendant

No.	Function	Cable colour	Cable cross-section
1	Direction indicator, left	yellow	1.5 mm ²
2	Rear fog light	blue	1.5 mm ²
3	Ground (contacts 1-8)	white	1.5 mm ²
4	Direction indicator, right	green	1.5 mm ²
5	Right-hand taillight, clearance light, marker light	brown	1.5 mm ²
6	Brake lights	red	1.5 mm ²
7	Left-hand taillight, clearance light, marker light, licence plate light	black	1.5 mm ²
8	Reversing light	grey	1.5 mm ²

5. Assembly

The machine is supplied fully assembled. No further assembly work is required.

- Note the location information.
- Observe the technical data.

5.1. Requirements for installation

Location and stability

Conditions at the site:

- Buildings and surfaces are designed to withstand the loads,
- even.

5.2. Aligning and mounting

5.2.1. Crank supports deco mobil E 3000



Abb. 17 Locking



Abb. 18 Hand crank positioning

- Pull out the red lock, the support folds down.
- Ensure that the locking mechanism engages in the vertical position of the support.
- Extend the support using the crank handle. It is located on the inside of the door to the technical room.

5.3. Connect

For connection to the drinking water network, the location of the deco mobil must be selected so that a connection is possible.

5.4. Check

→ Check:

- Completeness of the installation (e.g. safety devices, anchoring, operating elements)
- Arrangement and screw connections (e.g. of fastening elements)
- Assembly and fit of all connections
- Cleanliness and tidiness of the machine and in the area of the machine (e.g. tools and packaging are tidy, machine is cleaned)

6. Commissioning

The machine and the safety devices are ready for operation and functional after switching on. No further work is required.

6.1. Before commissioning

The following work is required:

- Connection to the drinking water network.
- Connection to the power grid
- Filling the tank (4-litre tank) of the petrol generator

6.2. Switch on

→ See chapter Switching on and off.

 Observe external documentation.

6.3. Examinations

6.3.1. Testing the function

During the functional test, the operation of the machine and the electrical characteristics are checked. The machine is operated under normal operating conditions.


→ Check:

- Vacuum and air filter system
- Water heating
- Wastewater pump
- Lighting

6.4. Commissioning

Commissioning is the time at which the machine reaches its intended use.

→ Observe chapter Intended use and Technical data.

 Observe the information in the third-party documentation.

7. Operation and handling

7.1. Operating mode

The machine has the following operating modes:

- Manual operation.

Manual operation

After switching on via the main switch on the switch cabinet in the technical room, the lighting, heating, water heating etc. are available.

7.2. Switching on and off

Switch on

Proceed as follows:

- Switch on the main switch on the switch cabinet.

Switch off

- Switch off the main switch on the switch cabinet.

7.3. Operation

Light

Switching the motion detectors in the deco mobil on/off. When motion is detected, the LED lighting is switched on (default setting 10 minutes).

Shower

Switching the shower water supply on/off. The showering process can now be started for an adjustable showering time (default setting 60 seconds) using the "Start showering process" selector switch in the shower and ended when it is reset to "zero".

Wastewater pump

Switching the wastewater pumps on/off. The pump starts when the selector switch is set to "Drain". The wastewater is cleaned via a 2-stage filter system.

Operation and handling

Operation

Negative pressure

Switching the negative pressure unit on/off at the switch cabinet in the plant room. To avoid the risk of pollutants being carried over from the contaminated area into the clean area, all rooms are ventilated. In the black area, air is drawn in and blown out via a HEPA filter. The shower and white areas are also ventilated through supply air openings. The supply air openings have been dimensioned so that there is a negative pressure gradient from the contaminated to the clean area.

Space heating

Switching the room heating on/off at the switch box in the plant room.

8. Error processing

Faults on the machine are rectified by specialised personnel.

Note the information on errors and their elimination in the documents of the chapters 11.

8.1. Possible faults and how to rectify them

Error	Possible cause	Elimination
Pumps not running	Fuse defective, motor defective	by specialised personnel
Control system cannot be switched on	<ul style="list-style-type: none">• No supply voltage,• Cable defective, Self-sufficient operating variant: <ul style="list-style-type: none">• Generator not switched on,• Lack of petrol in the Generator tank	by specialised personnel

The faults on the machine are rectified by specialised personnel.

Information on faults and their rectification is in accordance with chapter 11 documents mentioned in chapter 11.

9. Maintenance

9.1. Maintenance schedule


Maintenance of the machine is carried out as follows:

- Regularly check:
- the protective conductor system,
 - the earthing,
 - the housing,
 - the labelling of the operating elements.

Filter change wastewater filter

Objective: Maintaining filter effectiveness

Preparation

Facts of the case	Description of the
PPE	
Tool	Filter key

1. Only change the filter when the appliance is switched off.
2. Remove dirty filters when damp to prevent the release of filter dust.
3. Only use approved filters.
4. Damaged filter cartridges must not be used.
5. The wastewater filters must be replaced when the performance of the wastewater pump decreases. We recommend a weekly change for normal wastewater volumes and a daily change for heavy use.
6. Loosen the union nut with the filter spanner.
7. Remove and dispose of the filter.
8. Ensure that the filter glass and the sealing surface are clean.
9. Insert new filter cartridges and hand-tighten the union nut.

Maintenance

Maintenance schedule



Abb. 19 Filter key



Abb. 20 Wastewater filter

⚠ WARNING Suction hoses, pumps, filter housings and filters are already contaminated during initial use. Repairs and maintenance work may only be carried out in compliance with all relevant safety measures.


→ All filters mentioned here must be disposed of in accordance with legal regulations:

Filter change HEPA filter

A necessary filter change is shown on the display and should be carried out when the red alarm message is reached.

Objective: Maintaining filter effectiveness

Preparations

Facts of the case	Description of the
PPE	
Tool	Hexagon screwdriver

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

- Wear PPE.
- Only start the filter change when the appliance is switched off.
- Only use approved filters.
- Do not use any residual fibre binders on the appliance.

Insert new filter:

1. Device switched off.
2. Check and clean the sealing surfaces on the appliance.
3. Clean the inside of the housing.
4. Insert the new filter in the centre.
5. Insert the clamping frame and hexagon socket screws (tighten the screws evenly).

9.2. Safety-relevant components

- Replace safety-relevant components regularly before the end of their service life. The service life is specified by the manufacturer.
- 📄 Observe the information in the parts list of the machine and in the external documentation.

9.3. Examinations

- Check the machine according to the instructions in the Commissioning chapter.

9.4. Commissioning after maintenance

- Check the machine according to the instructions in the Commissioning chapter.

10. Decommissioning and dismantling

10.1. Decommissioning

During decommissioning, the functionality of the machine:

- is interrupted for an indefinite period or
- is interrupted for an extended period of time so that the maintenance work according to the maintenance schedule and other monitoring measures are not carried out by the operator.

→ The following measures are required:

- Switch off and interrupt energy supplies.
- Prevent unauthorised persons from restoring the power supply.
- Check whether fluids and lubricants need to be removed or replaced.
- Secure machine parts against unintentional movements.
- If necessary, prevent soiling due to deposits.
- Carry out a regular visual inspection.

Stability

- Do not loosen the anchoring on the floor.
- Bracing and stabilisation of frames and machine parts.

10.2. Disassembly and storage

- Protective gloves
- Respirator mask
- Safety shoes
- 📄 External documentation in the chapter 11.1 note.

10.2.1. Machine and components

- Protect sensitive surfaces from damage.
- Pack the machine or machine parts as required.
- Prevent vermin infestation.

10.2.2. Store

Storage conditions

The storage location must fulfil the following conditions:

- dry
- weatherproof
- Sufficient strength of the soil
- Low dust generation

Decommissioning and dismantling

Recommissioning

Stability

- Store machine parts in such a way that they:
- Do not tilt,
 - do not slip, fall over or fall down,
 - cannot warp or twist.
 - If the storage conditions are not observed, components can corrode or age prematurely. The service life of the machine is reduced.

10.2.3. Check stored goods

Unforeseeable events may occur during storage. These include

- Weather influences
- Building damage
- Vermin infestation
- Carelessness during further storage work

At the machine or the machine components can be damaged.

- Check the position, packaging and general condition of the stored parts at regular intervals.

10.3. Recommissioning

During recommissioning, the functionality of the machine is restored after a long period of decommissioning.

- Procedure as described in chapter 6 Commissioning described.

10.4. Waste disposal

The machine contains components or substances that are hazardous to the environment if disposed of improperly.

10.4.1. Electrical and electronic devices

The product contains:

- Switch cabinet
- Wastewater pump
- Petrol generator

11. Attachments for documentation

11.1. External documentation

Designation of the machine part	Manufacturer	Manufacturer designation of the document	Date of the document
MRX 3500 power generator	Hong Kong Ruisu Trading Co., Ltd 19H Maxgrand Plaza, No.3 Tai Yau St., San Po Kong, KLN, HK, China	Manual original edition for models MXR 3500	

11.2. Own documentation

Naming	Identification
Drawing	Drawing no.: PS1628 / Date: 03.02.2023
Drawing	Drawing no.: PS1628 / SL 1
Drawing	Drawing no.: PS1628 / SL 2
Circuit diagram	
Control system	
Protocol for measuring the noise emission	
Spare parts list	

11.3. Spare parts

11.3.1. Safety-relevant spare parts

- 📄 See spare parts list in chapter 11.2
- 📄 Note information in the third-party documentation in chapter 11.1.

11.3.2. Replacement parts

- See spare parts list in chapter 11.2

Attachments for documentation

Suppliers of specialised tools, materials, technical assistance

11.4. Suppliers of specialised tools, materials, technical assistance

Tools, material, technical assistance	Supplier
Drawbar Axle braked Drawbar connection profiles Swivelling support legs Clamps for support wheels Support wheels	Company: ALOIS KOBER GMBH Roads Postcode town: 89359 Kötzing Phone: 0800 - 25 56 000 E-mail: info@alko-tech.com

11.5. Type plate


Deconta GmbH Im Geer 20 46419 Isselburg	
Designation: deco mobil E	
Type: E 3000	
Year of construction: 2023	
Supply voltage: 230 V, 50 Hz	
Water 4 bar	
	

Abb. 21 Type plate

The rating plate states the minimum specifications of the machine. The minimum specifications have been supplemented by connection data.

11.6. Conformity

EC Declaration of Conformity according to Machinery Directive 2006/42/EC Annex II 1.A

We hereby declare that the system described below complies with the relevant basic safety and health requirements of the EC/EU directives due to its design and construction and in the version placed on the market by us.

Designation:	deco mobil E
Ident. no:	
Type no.	E 3000
Com. no:	
Year of construction:	2023

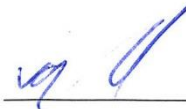
complies with the following EC directives:	Machinery Directive 2006/42/EC EMC Directive 2014/30/EU
--	--

Applied harmonised standards, in particular:	EN ISO 13849-1:2016	Safety of machinery - Safety-related parts of control systems
	EN ISO 12100:2011	Safety of machinery - General principles for design - Risk assessment and risk minimisation
	EN ISO 13857:2008	Safety distances to prevent the upper and lower limbs from reaching hazardous areas
	EN 349:1993 + A1:2008	Safety of machinery - Minimum distances to avoid crushing of body parts
	DIN EN ISO 14118:2018-07	Machine safety - preventing unexpected start-up
	EN 60204-1:2018	Safety of machinery - Electrical equipment of machines

This declaration loses its validity in the event of a change. The special technical documents in accordance with Annex VII Part A have been prepared.

Manufacturer/ authorised documentation representative:	Deconta GmbH Im Geer 20 46419 Isselburg
---	---

Place: Isselburg Date : 11.05.2023



Leiter Konstruktion / head of construction



Leiter Elektro / head of electro

Illustrations

Fig. 1	CEE heavy current phase inverter plug blue grey 16A 4-pole 230V.....	20
Fig. 2	Power and water connections	20
Fig. 3	230 V petrol generator.....	21
Fig. 4	Structure of the deco mobil E 3000.....	22
Fig. 5	Side view of the left side of the deco mobil E 3000.....	23
Fig. 6	Switch cabinet in the technical room.....	24
Fig. 7	Selector switch in the shower room.....	25
Fig. 8	Switch and thermostat for room heating in the white area	25
Fig. 9	MRX 3500 power generator	27
Fig. 10	Wheel hub and brake	33
Fig. 11	Overrun device	33
Fig. 12	Towing ball coupling.....	34
Fig. 13	Attachment point for the jack.....	36
Fig. 14	Load data.....	36
Fig. 15	Engage indicator.....	37
Fig. 16	Plug trailer	38
Fig. 17	Locking mechanism.....	39
Fig. 18	Hand crank positioning	39
Fig. 19	Filter key	48
Fig. 20	Waste water filter.....	48
Fig. 21	Type plate.....	54

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