

Care instructions

KaVo uniQa



Distribution:

KaVo Dental GmbH
Bismarckring 39
88400 Biberach
Germany
Phone +49 7351 56-0
Fax +49 7351 56-1488

Manufacturer:

KaVo Dental GmbH
Bismarckring 39
88400 Biberach
Germany
www.kavo.com



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1 User instructions

User guide



NOTE

Read these instructions prior to first startup to avoid misuse and prevent damage. Comply with the Instructions for Use of the treatment centre.

Please note also the corresponding hygiene video on the KaVo website. Please use the QR code or the following link:
<https://www.kavo.com/hygiene-easy-way>

General marks and symbols

	CE mark (European Community). A product bearing this mark meets the requirements of the applicable EC directives.
	Action request
	Important information for users and service technicians
	See Chapter on User Instructions/Hazard Levels
	Thermoisinfectable
	Sterilisation parameters <ul style="list-style-type: none"> ▪ Sterilizer with Dynamic-Air-Removal (pre-vacuum) method: <ul style="list-style-type: none"> - 3 minutes at 135 °C (275 °F) - Drying time: 16 min. ▪ Sterilizer with gravity displacement method: <ul style="list-style-type: none"> - 10 minutes at 135 °C (275 °F) - Drying time: 30 min.
	Adhere to the expiry date
	Lot de production

Service



KaVo Technical Service

If you have any questions or complaints, please contact the KaVo Technical Service:

+49 (0) 7351 56-1000

service.einrichtungen@kavo.com or service.treatmentunits@kavo.com

Please refer to the serial number of the product in all inquiries! For further information, please visit: <http://www.kavo.com>

Target group

The instructions for use are intended for medical professionals, in particular dentists and dental practice personnel.

Hazard levels

The warning and safety notes in this document must be observed to prevent personal injury and material damage. The warning notes are designated as shown below:



HAZARD

In cases which – if not prevented – directly lead to death or severe injury.



WARNING

In cases which – if not prevented – can lead to death or severe injury.



CAUTION

In cases which – if not prevented – can lead to minor or moderate injury.

CAUTION

In cases which – if not prevented – can lead to material damage.

2 Reprocessing steps in accordance with ISO 17664

2.1 Notes

The reprocessing consists of the following basic steps:

- Cleaning and disinfection (manually or automatically)
- Sterilisation



NOTE

Comply with national hygiene requirements, e.g. RKI guidelines (RKI = German Robert Koch Institute).



⚠ CAUTION

Risk of injury during cleaning of the treatment centre.

Lack of instructions to the cleaning staff and lack of preparation of the treatment centre can lead to the cleaning personnel sustaining injuries.

- ▶ Only trained professionals and instructed cleaning personnel may be present in the treatment rooms.
- ▶ Position the chair for cleaning and turn the device off.



⚠ CAUTION

Improper sterilisation may lead to health hazards and material damage.

Infection hazard to users and patients. Damage to the sterilised items.

- ▶ No hot air sterilisation, no chemical cold sterilisation, do not sterilise with ethylene oxide.



⚠ CAUTION

Health hazard and property damage due to non-compliance with servicing schedule.

Infection hazard to users and patients. Product damage.

- ▶ Comply with servicing schedule.



⚠ CAUTION

Working with cleaning, germ reduction and disinfection agents necessitates a certain degree of diligence.

Risk of injury from handling cleaning, germ reduction and disinfection agents.

- ▶ It is essential to follow the notes shown on the bottle label and in the material safety data sheet.
- ▶ Use personal protective equipment when you use these agents.

CAUTION

Product damage due to improper disinfection.

Malfunctions.

- ▶ Use the disinfectant according to the specifications of the manufacturer.
- ▶ No spray disinfection, perform wipe disinfection only.
- ▶ Do not immerse product or parts of the product in liquids.
- ▶ Mop up any spilled cleanser or disinfectant immediately.



NOTE

The reprocessing methods for the instruments and motors are evident from the separate instructions for use enclosed with the instrument and motor packages.



NOTE

It is essential to comply with the hygiene requirements (sterility) during the test after reprocessing. If any fracturing or obvious surface changes are visible, the parts need to be checked by the Service.

2.2 General instructions for the reprocessing of KaVo treatment centres

Please comply with the general reprocessing instructions at all times. Detailed product-specific reprocessing instructions are provided subsequently.

Protective measures	<ul style="list-style-type: none"> ▶ To minimise the risk of infection during reprocessing, always wear personal protective equipment (e.g. protective gloves). ▶ For safe application and to prevent injury during the handling of cleaning agent, germ reduction agent and disinfectant, wear personal protective equipment.
At the site of use	<ul style="list-style-type: none"> ▶ Remove any surface contamination using a disposable cloth/paper towel.
Storage and transport	KaVo recommends reprocessing as soon as possible after use.
Preparations for cleaning	<ul style="list-style-type: none"> ▶ Comply with product-specific reprocessing instructions. General: The preparation preceding the cleaning (disassembly and pre-cleaning) must be undertaken as a general rule independent of the subsequent reprocessing procedure (manual/automated).
Manual cleaning	<p>Equipment:</p> <ul style="list-style-type: none"> ▪ Brush or CaviWipes ▪ Tap water 30 °C ± 5 °C <ul style="list-style-type: none"> ▶ Clean off any soiling on the surface with CaviWipes as instructed by the manufacturer or with a brush and running water
Automatic cleaning	<div style="display: flex; align-items: center;">  <div> <p>KaVo recommends washer disinfectors in accordance with EN ISO 15883-1 operated with alkaline cleaning agents. The validations were conducted with a Miele washer disinfector using the VARIO-TD programme, the neodisher MediClean cleaning agent and the neodisher Z neutralisation agent.</p> <ul style="list-style-type: none"> ▶ For programme settings as well as cleansers and disinfectants to be used, please refer to the Instructions for Use of the washer disinfector. ▶ In order to prevent impairment of the KaVo medical device, make sure that the inside and outside of the device is dry after the end of the cycle. Then service the product in accordance with the product-specific care instructions. </div> </div>
Manual disinfection	<ul style="list-style-type: none"> ▶ Perform wipe disinfection only, the use of spray disinfection and disinfection baths is not feasible. ▶ Wipe all outer surfaces with a soft cloth and an approved disinfectant.

	<p>KaVo recommends the following products based on compatibility of the materials. The microbiological efficacy must be confirmed by the disinfectant manufacturer.</p> <ul style="list-style-type: none"> ▪ Application range in accordance with the available manufacturer's instructions for use and national guidelines. ▪ Note the material safety data sheets. <p>Unless noted otherwise, approved disinfectants can be used for manual wipe disinfection of the entire KaVo treatment centre.</p> <p>Approved disinfectants:</p> <ul style="list-style-type: none"> ▪ CaviCide / CaviWipes (Metrex) ▪ Mikrozid AF Liquid (Schülke & Mayr) ▪ FD 322 (Dürr Dental) ▪ Incidin Liquid (Ecolab)
<p>Automatic disinfection</p> 	<p>KaVo recommends washer disinfectors in accordance with EN ISO 15883-1 operated with alkaline cleaning agents. The validations were conducted with a Miele washer disinfectant using the VARIO-TD programme, the neodisher MediClean cleaning agent and the neodisher Z neutralisation agent.</p> <ul style="list-style-type: none"> ▶ For programme settings as well as cleansers and disinfectants to be used, please refer to the Instructions for Use of the washer disinfectant. ▶ In order to prevent impairment of the KaVo medical device, make sure that the inside and outside of the device is dry after the end of the cycle. Then service the product in accordance with the product-specific care instructions.
<p>Manual drying</p>	<ul style="list-style-type: none"> ▶ Supply dry, clean and uncontaminated compressed air according to ISO 7494-2 only. ▶ Blow off the outside and inside with compressed air until water drops are no longer visible.
<p>Automatic drying</p>	<p>Usually, automatic drying is part of the cleaning/disinfection cycle of the washer disinfectant and should not be carried out above 95 °C.</p>
<p>Maintenance</p>	<ul style="list-style-type: none"> ▶ Discard damaged products.
<p>Control and functional test</p>	<ul style="list-style-type: none"> ▶ Perform a visual inspection to check for damage and wear and tear. ▶ Test products for function regularly.
<p>Packaging</p>	<ul style="list-style-type: none"> ▶ Use standardised packaging material. Sealing should not be under tension. ▶ Use sterile goods packaging in order to ensure sterility.
<p>Sterilisation</p> 	<p>All sterilisable products are temperature-resistant up to max. 138 °C.</p> <p>Select a suitable procedure (depending on the available autoclave) from the following sterilisation processes:</p> <ul style="list-style-type: none"> ▪ Autoclave with a triple pre-vacuum: at least 3 minutes at 134 °C -1 °C/ +4 °C (273 °F -1.6 °F/ +7.4 °F) ▪ Autoclave with gravity procedure: at least 10 minutes at 134 °C -1 °C/ +4 °C (273 °F -1.6 °F/ +7.4 °F) ▶ Use according to the manufacturer's Instructions for Use.

Storage	<ul style="list-style-type: none"> ▶ Reprocessed products should be stored protected from dust with minimum exposure to germs in a dry, dark and cool place. ▶ Comply with the expiry date of the sterilised items.
Cleaning agents/ disinfectants	<p>To ensure the product safety and maintain the quality of the product, it is essential to use the following products:</p> <ul style="list-style-type: none"> ▪ OXYGENAL 6 Mat. no. 0.489.3451 for continuous and intensive germ reduction of the patient water in combination with DVGW water block and DVGW water bottle. ▪ DEKASEPTOL Gel Mat. no. 1.000.7205 for cleaning and disinfection of the suction system.

2.2.1 Overview of reprocessing

CAUTION

Incorrect reprocessing

Property damage

- ▶ Note table contents. Only approved components should be thermally disinfected and sterilised in a machine.

Reprocessing items Medical devices	Cleaning manual	Cleaning auto-matic	Disinfection manual	Disinfection auto-matic	Sterilisation auto-matic
Surfaces					
Equipment	X		X		
Cushion	X		X		
Handle, white	X		X		
Handle, grey	X	X	X	X	X
Light	X		X		
Monitor	X		X		
Dentist element					
Handpiece sleeve of the three-function or multi-functional handpiece	X		X		X
Cannula of the three-function or multifunctional handpiece	X	X	X	X	X
Tray holders	X		X		
Holder pad/non-slip mat	X	X	X	X	X
Handpiece holder	X		X		
Swing arm S-table	X		X		
Handpiece holder for surgery assembly kit	X	X	X	X	X
Saline pump assembly kit	X		X		
Intraoral camera	X		X		
Instrument hoses	X		X		
Assistant element					
Connection parts of the suction hose	X	X	X	X	
External suction hoses	X		X		

Reprocessing items Medical devices	Cleaning manual	Cleaning auto- matic	Disin- fection manual	Disin- fection auto- matic	Steril- isation auto- matic
Patient element					
Tumbler support	X		X		
Tumbler filler	X	X	X	X	
Glass spittoon bowl (smoke grey)	X	X	X	X	
Porcelain spittoon bowl	X	X	X	X	
Instrument holder of the hygiene centre	X	X	X	X	
Lid of the hygiene centre	X		X		
Accessories					
CENTRO support system	X		X		

2.3 Reprocessing of the surfaces of treatment centre / upholstery / foot control

Position the chair for cleaning



- ▶ Tap the "Cleaning position" button in the "Cleaning" tab to drive the chair into the cleaning position.

Also refer to:

Instructions for use of the treatment centre

Locking the touch screen



- ▶ Tap the "Lock screen" button on the dentist element or the KaVo Logo on the assistant element to lock the screen for wiping with a disinfectant.

⇒ The following display is shown on the dentist element:



Cleaning and disinfecting the surfaces of treatment centre / upholstery

CAUTION

Non-colour-fast textiles.

Non-colour-fast textiles can cause permanent discoloration.

- ▶ Immediately remove any discoloration with water and subsequently perform a wipe disinfection.

CAUTION

Product damage due to improper disinfection.

Malfunctions.

- ▶ Use the disinfectant according to the specifications of the manufacturer.
 - ▶ No spray disinfection, perform wipe disinfection only.
 - ▶ Do not immerse product or parts of the product in liquids.
 - ▶ Mop up any spilled cleanser or disinfectant immediately.
-
- ▶ Clean the surfaces and upholstery with a soft cloth and water, and wipe-disinfect them with an approved surface disinfectant.

CAUTION

Damage caused by inappropriate use of water.

Damage to the foot control.

- ▶ For cleaning, the foot control must not be immersed in water or placed under running water.
- ▶ When wiping it off with a moist cloth, do not touch the contacts of the charge socket.
- ▶ Only wipe off. Do not spray.

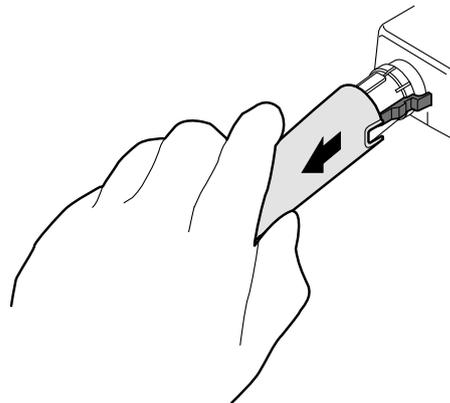
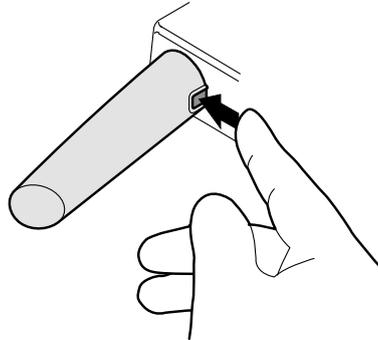


2.4 Preparation of the dentist element

2.4.1 Reprocessing of the handle and holder pad / non-slip mat

Cleaning and disinfection

- ▶ Press the push-button and pull off the handle (S-table and T-table only).



- ▶ Clean the handle manually.
- ▶ Disinfect the white handle by wiping and the grey handle by wiping or thermal disinfection (minor discolouration may occur).
- ▶ Sterilise the holder pad and non-slip mat in a washer disinfectant.
- ▶ Parts should be standing upright when placed in the washer disinfectant.



Sterilisation

- ▶ Sterilise the holder pad/ non-slip mat.
- ▶ The grey handle (**Mat. no. 1.002.4489**) can be sterilised (see symbol on the handle).

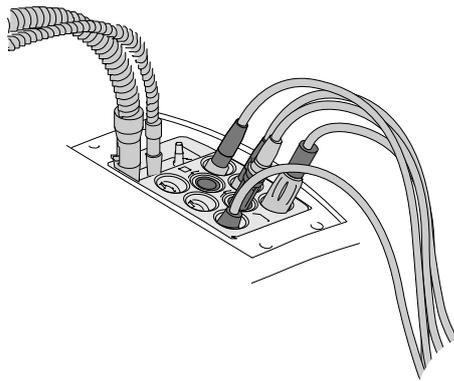


2.4.2 Reprocessing of handpiece holder

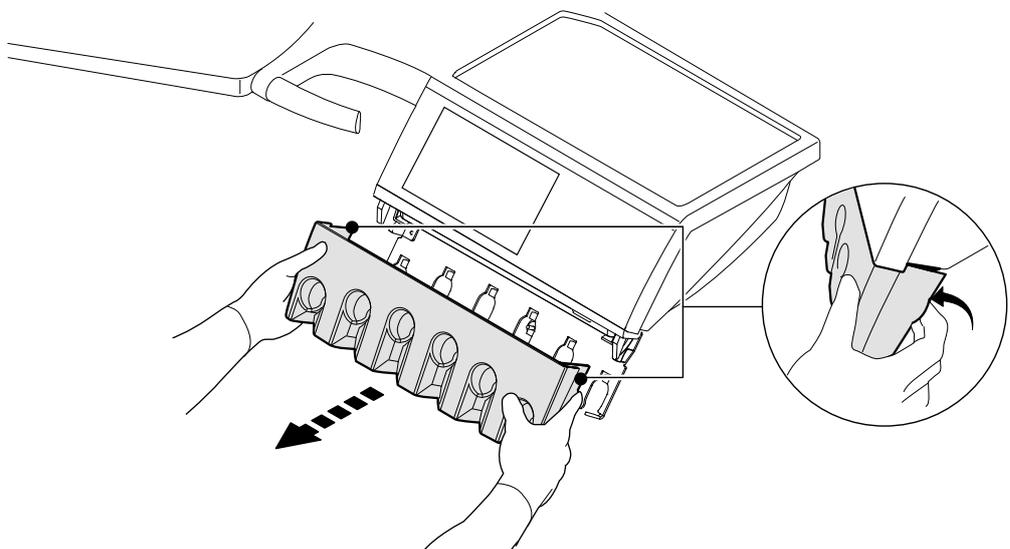
Cleaning and disinfection

- ▶ Place the instrument hoses in the designated places of the hygiene centre during the cleaning and disinfection of the handpiece holder.

- ▶ Also refer to: Chapter on Automatic cleaning programmes



- ▶ Pull the latches outward evenly and carefully remove the handpiece holder.



- ▶ Clean the handpiece holder manually.
- ▶ Subject the handpiece holder to wipe disinfection.

2.4.3 Reprocessing of the swing arm S table

Cleaning and disinfection



NOTE

The swing arm S-table (**Mat. no. 1.007.4755**) can be removed to facilitate cleaning.



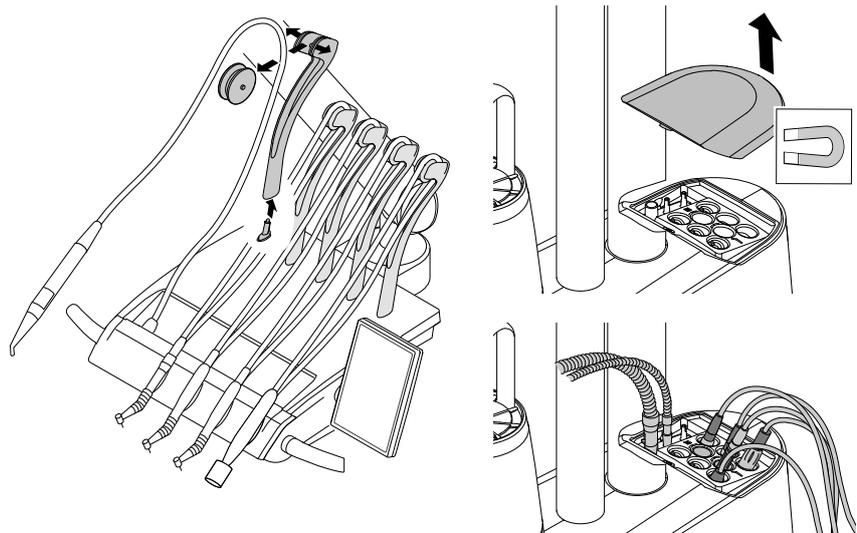
NOTE

No cleaning programmes can be run when the swing arm is removed.



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- ▶ Locking the screen.
- ▶ Take the handpieces off the hoses.
- ▶ Take the roller out of the swing arm and then place the hose in the hygiene centre.



- ▶ Pull-off the swing arm in an upward direction.
- ▶ Clean the swing arm and roller manually.
- ▶ Subject the swing arm S table to wipe disinfection.

2.4.4 Reprocessing of the instrument hoses

- ▶ Clean the hoses and couplings with a cloth and water.
- ▶ Then subject them to wipe disinfection.

CAUTION

Damage caused by spray disinfection.

Damage to the instrument hoses.

- ▶ Do not subject instrument hoses to spray disinfection.
- ▶ Subject instrument hoses to wipe disinfection.

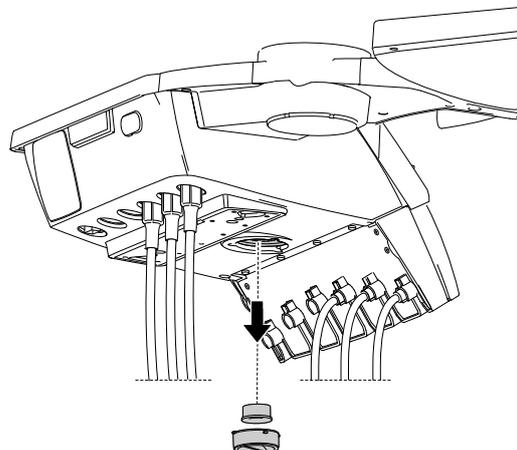
2.4.5 Servicing the turbine return air filter



NOTE

The liquid collector must be checked weekly.

- ▶ If there is any liquid in the filter, drain the liquid and replace the O-rings of the MULTIflex couplings.



- ▶ If necessary, replace the turbine return air filter (**Mat. no. 0.200.3098**) and clean the filter holder.



NOTE

All versions of the dentist element have the turbine return air filter in the same place.

2.4.6 Reprocessing of cameras

Also refer to:

Instructions for use DIAGNOcam Vision Full HD
Instructions for use ERGOcam One

2.4.7 Reprocessing PiezoLED

Also refer to:

Instructions for use PiezoLED

2.5 Reprocessing of the assembly kit for physiological saline solution and surgical motor

The assembly kit for the physiological saline solution and the surgical motor are optional.



NOTE

The reprocessing steps for surgical motors with motor cable and for the straight and contra-angle handpieces are described in the corresponding Instructions for use.



NOTE

The reprocessing instructions have been validated by the manufacturer. Any departure from the instructions provided must be checked by the reprocessing entity for efficacy and possible detrimental consequences.

2.5.1 Manual reprocessing

Manual cleaning

- ▶ Use a soft disposable cloth to wipe down all visible surfaces of the unit, bottle holder, foot control surfaces, and connecting cables.

Manual disinfection



NOTE

After each treatment of a patient, the surfaces near the patient that may have been contaminated by contact or aerosol need to be disinfected. All disinfection measures need to be carried out by wipe disinfection.



NOTE

Please comply with the corresponding Instructions for use when you reprocess the motor and motor cable.

- ▶ Use a soft disposable cloth and an approved disinfectant for disinfection by wiping down all visible surfaces of the unit, bottle holder, foot control surfaces, and connecting cables. Make sure that all surfaces are fully wetted.
- ▶ Let the disinfectant act for the prescribed time. Dry the surfaces.

Manual drying



NOTE

Coolant hose/NaCl hose with accessories is intended for single use only and is not to be disinfected and sterilised. No drying required.

- ▶ Allow all disinfected and sterilised parts to dry fully on room air before using them again.

2.5.2 Automated reprocessing

CAUTION

Damage by liquids.

Faults on electrical components.

- ▶ Do not subject the device to automated reprocessing.

Automated cleaning and disinfection

The components listed above are released for automated cleaning and disinfection.



NOTE

Please comply with the corresponding Instructions for use when you reprocess the motor and motor cable.

Automated drying

The drying procedure is usually part of the cleaning programme of the washer disinfectant.



NOTE

Please comply with the instructions for use of the washer disinfectant.

Service, inspection and testing after preparation



NOTE

It is essential to comply with the hygiene requirements (sterility) during the test after reprocessing. If any fracturing or obvious surface changes are visible, the parts need to be checked by the Service.

Check for cleanliness, intactness, servicing, and repair as described in the following:

- ▶ Check the adjustable functions of the unit and the motor function.
- ▶ Check the hose pump for sufficient coolant flow rate.
- ▶ Check the control commands on the foot control.

2.5.3 Packaging



NOTE

The sterile goods package must be large enough to accommodate the product without stretching the packaging. The quality and use of the packaging of the items to be sterilised must meet the applicable standards and be appropriate for the sterilisation process!



NOTE

If potentially infectious liquids and particles can become deposited on the products, it is recommended to cover and protect these areas with sterile disposable products.

- ▶ Seal the handpiece holder and motor cable in packaging for sterile items.

2.5.4 Sterilisation by moist heat in accordance with ISO 17665-1 in a steam steriliser (autoclave)



NOTE

Please comply with the corresponding Instructions for use when you reprocess the motor and motor cable.

CAUTION

Improper sterilisation.

Contact corrosion, the sterilised item may be damaged.

- ▶ Do not perform hot air sterilisation.
- ▶ Do not perform chemical cold sterilisation.
- ▶ Do not sterilise with ethylene oxide
- ▶ Remove the sterilised item from the steam steriliser immediately after sterilisation and drying.



NOTE

Treating patients who are possibly afflicted by an acute, critical infectious disease, be sure to comply with the hygienic measures cited in applicable publications and reports. If possible, use suitable disposable devices to avoid the transmission of critical pathogens. This concerns the protection of the user, patients and all participants in the surgery.

All dental and medical materials considered to be contaminated must be suitably processed and sufficiently identified after cleaning and sterilisation before returning them.



NOTE

The user is responsible for observing the regulations and conditions for sterility. The coolant container needs to be disposed and the hoses need to be changed after each patient.

The components released for sterilisation are listed in the table above.



NOTE

Allow the sterilised items to cool to room temperature before using them again.

2.5.5 Storage

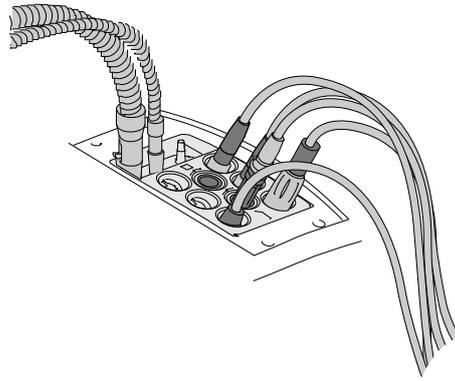
Observe all necessary measures for hygiene when storing sterilized items. Store protected from dust and in a dry place, release with identification on the packaging. Evaluate the duration of storage.

2.6 Reprocessing of the assistant element

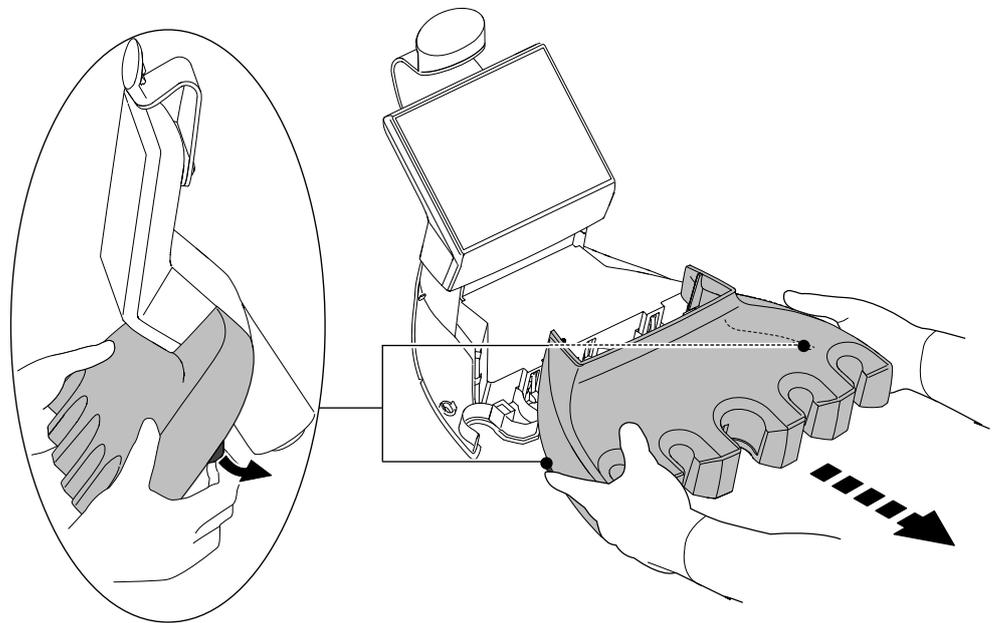
2.6.1 Reprocessing of the handpiece holder

The handpiece holder on the assistant element is to be reprocessed in the same way as the handpiece holder on the dentist element.

- ▶ Place the suction and instrument hoses in the designated places of the hygiene centre during the cleaning and disinfection of the handpiece holder.
- ▶ Also refer to: Chapter on Automatic cleaning programmes



- ▶ Pull the latches evenly outwards and carefully remove the handpiece holder.

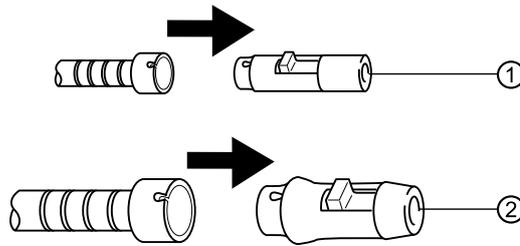


2.6.2 Reprocessing of the suction hoses

- ▶ Clean the exterior of the suction hoses manually and subject them to wipe disinfection.
- ▶ The manual internal cleaning and disinfection is part of the cleaning and disinfection of the suction system using DEKASEPTOL Gel.

2.6.3 Reprocessing of the suction hose connector

- ▶ Remove connectors ① and ② from the suction hoses.



Cleaning and disinfection of the suction hose connector

- ▶ The manual external cleaning and disinfection of the connector involves manual cleaning of the exterior and wipe disinfection.
- ▶ The manual internal cleaning and disinfection is part of the cleaning and disinfection of the suction system using DEKASEPTOL Gel. Keep the connectors on the suction hoses for this purpose.

or

- ▶ Subject the disassembled parts to automated cleaning and disinfection.
- ▶ Parts should be standing upright when placed in the washer disinfectant.



NOTE

Reprocess the suction cannulas according to the instructions of the manufacturer.

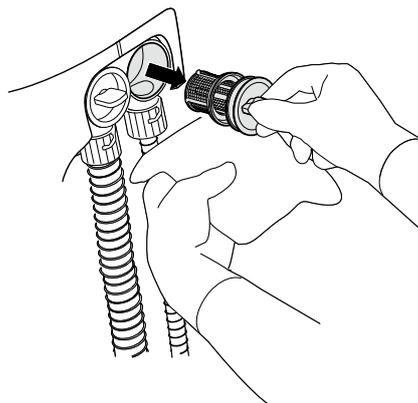
2.6.4 Reprocessing of the sieve inserts and suction hoses



NOTE

Check the sieve inserts daily and after each surgery. The sieve inserts (**Mat. no. 0.763.3423**) must be replaced at the latest when the suction performance decreases. Cleaning is not recommended for hygienic reasons.

- ▶ Hold the napkin under the sieve seat, and pull the sieve insert out of the housing.



- ▶ If needed, insert the new sieve insert (**Mat. no. 0.763.3423**) into the seat.
- ▶ Subject the suction hose is to wipe disinfection.

2.7 Reprocessing the three-function and multifunctional handpiece



NOTE

Wet the O-rings of the gripping sleeves after sterilisation using silicone grease (**Mat. no. 1.000.6403**). After replacing the cannula, the air duct must be blown out before the start of treatment to ensure that the air exiting during treatment is dry.

2.7.1 Preparations at the site of use



WARNING

Hazard from contaminated products.

Contaminated products are associated with an infection hazard.

- ▶ Take suitable personal protective measures.



CAUTION

Danger of injury if the valve body is hot (heating elements, high-pressure lamp).

Risk of burn injury.

- ▶ Switch off the unit at the main switch.
- ▶ Let the handpiece cool after long use.
- ▶ Remove gross soiling immediately.
- ▶ Reprocess the medical device right after treatment.
- ▶ Leave the gripping sleeve and cannula on the instrument, and activate the air and water for 60 seconds.
- ▶ The medical device must be dry when transported to reprocessing.
- ▶ To minimise the risk of infection during reprocessing, always wear personal protective equipment.
- ▶ Do not place in solutions or similar substances.

2.7.2 Disassembly

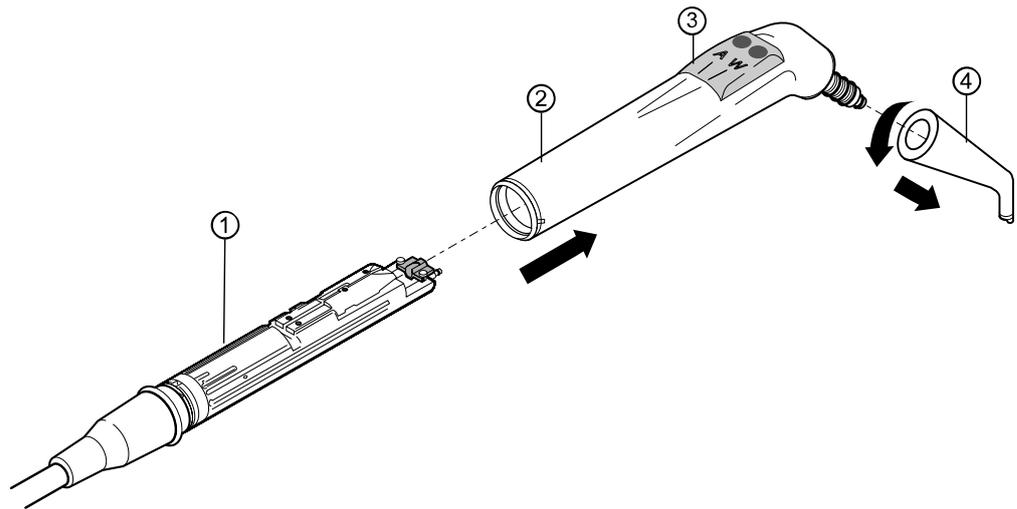


WARNING

Incomplete reprocessing.

Infection hazard.

- ▶ To ensure complete reprocessing of all parts, the medical device needs to be disassembled before reprocessing.
- ▶ Hold the three-function or multifunctional handpiece by the gripping sleeve ② and take off the cannula ④ with a slight twisting motion.
- ▶ Pull the gripping sleeve ② off the valve body ①.
- ▶ Detach the key part ③ from the gripping sleeve ②.



2.7.3 Manual reprocessing



NOTE

Adapters are needed for manual reprocessing. Order adapter separately. Adapter manual 3F/MF (**Mat. no. 3.005.7780**)

CAUTION

Never reprocess this medical device in an ultrasonic cleaner.

Malfunction and material damage.

- ▶ Reprocess in a washer disinfector or by hand only.

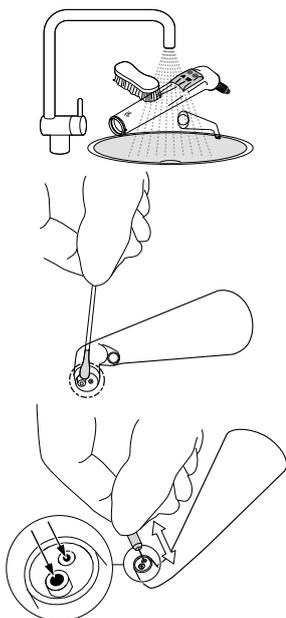
CAUTION

Damage caused by using a nozzle needle that is too long.

Damage to the internal hoses of the cannula.

- ▶ Use a short nozzle needle (**Mat. no. 1.004.4986**) to clean the media exit holes.

Manual external cleaning



- ▶ Clean the key part, gripping sleeve and cannula manually.
- ▶ Carefully wipe off contamination from the cannula tip with a soft Q-tip or soft cloth and water.
- ▶ Carefully remove contamination from the media exit ports using the short nozzle needle.

Manual internal cleaning

Validated manual internal cleaning (removal of residual protein) can be done with KaVo CLEANspray.

- ▶ Cover the medical device with the KaVo Cleanpac bag, and place it on the cleaning adapter manual 3F/MF syringe cannula (**Mat. no. 3.005.7780**).
- ▶ Hold the can vertically.
- ▶ Press the spray button three times for 2 seconds each time.
- ▶ Remove the medical device from the spray attachment and let the cleanser act for 1 minute.

Also refer to:

Instructions for use KaVo CLEANspray

Manual external disinfection



WARNING

Incomplete disinfection.

Infection hazard.

- ▶ Only use disinfection procedures that are verified to be bactericidal, fungicidal and virucidal.
- ▶ If the disinfectants used do not meet these requirements, the process must be concluded by disinfection of the unit(s) without packaging using a steam steriliser.

CAUTION

Never reprocess the medical device with chloride-containing products.

Malfunction and material damage.

- ▶ Reprocess by hand only.

Requisite consumables:

- Cloths for wiping the medical device.
- ▶ Spray the disinfectant on a cloth, then wipe down the medical device and allow the disinfectant to act according to the instructions of the disinfectant manufacturer.
- ▶ Follow the instructions for use of the disinfectant.



Manual internal disinfection

CAUTION

Never reprocess the medical device with chloride-containing products.

Malfunction and material damage.

- ▶ Reprocess by hand only.

WARNING

Incomplete disinfection.

Infection hazard.

- ▶ Only use disinfection procedures that are verified to be bactericidal, fungicidal and virucidal.
- ▶ If the disinfectants used do not meet these requirements, the process must be concluded by disinfection of the unit(s) without packaging using a steam steriliser.



The efficacy of manual internal disinfection must be demonstrated by the manufacturer of the disinfection agent. With KaVo products, only use disinfection agents that have been released by KaVo with respect to the compatibility of materials (e.g. WL-cid / made by ALPRO).

- ▶ Cover the medical device with the KaVo Cleanpac bag, and place it on the cleaning adapter manual 3F/MF syringe cannula (**Mat. no. 3.005.7780**).
- ▶ Hold the can vertically.
- ▶ Press the spray key for at least 3 seconds.
- ▶ Remove the medical device from the spray attachment and let the disinfectant act for 2 minutes.
- ▶ Follow the instructions for use of the disinfectant.

Manual drying

Use KaVo DRYspray for subsequent drying of the air and water ducts.

- ▶ Cover the medical device with the KaVo Cleanpac bag, and place it on the cleaning adapter manual 3F/MF syringe cannula (**Mat. no. 3.005.7780**).
- ▶ Hold the can vertically.
- ▶ Press the spray key for at least 3 seconds.

Also refer to:

Instructions for use KaVo DRYspray

2.7.4 Automated reprocessing



NOTE

The cannula can be subjected to automated reprocessing. Adapters are needed for automated reprocessing. Order adapter separately. Adapter mach. 3F/MF (**Mat. no. 3.005.9024**)



WARNING

Incomplete disinfection.

Infection hazard.

- ▶ Only use disinfection procedures that are verified to be bactericidal, fungicidal and virucidal.
- ▶ If the disinfectants used do not meet these requirements, the process must be concluded by disinfection of the unit(s) without packaging using a steam steriliser.

CAUTION

Never reprocess the medical device with chloride-containing products.

Malfunction and material damage.

- ▶ Reprocess in a washer disinfector or by hand only.

CAUTION

Never reprocess this medical device in an ultrasonic cleaner.

Malfunction and material damage.

- ▶ Reprocess in a washer disinfector or by hand only.

Preparation for automated internal and external cleaning as well as internal and external disinfection

Miele Series G 7881/7891	
Cannula	Requisite material: Adapter mach. 3F/MF (Mat. no. 3.005.9024)



Automated internal and external cleaning and internal and external disinfection

KaVo recommends washer disinfectors according to EN ISO 15883-1, which are operated using alkaline cleaning agents having a maximum pH value of 10. The validation was performed in a Miele washer disinfector using the "VARIO-TD" programme and the "neodisher MediClean" cleaner.

- ▶ For programme settings as well as cleansers and disinfectants to be used, please refer to the Instructions for Use of the washer disinfector.

Automated drying

The drying procedure is usually part of the cleaning programme of the washer disinfector.



NOTE

Please comply with the instructions for use of the washer disinfector.

- ▶ In order to prevent impairment of the KaVo medical device, make sure that the product is dry on the inside and outside after completion of the cycle.
- ▶ Remove any residual liquids through subsequent sterilisation.

2.7.5 Care products and systems - Servicing

CAUTION

Improper care.

Malfunction or property damage.

- ▶ Do not service the medical device with oil or maintenance spray.
- ▶ Apply KaVo silicone grease (**Mat. no. 1.000.6403**) to the O-rings of the joint between the gripping sleeve and cannula for servicing. Use cotton buds for this purpose.

2.7.6 Packaging



NOTE

The sterile goods package must be large enough to accommodate the product without stretching the packaging. The quality and use of the packaging of the items to be sterilised must meet the applicable standards and be appropriate for the sterilisation process!

- ▶ Seal medical devices (cannula and gripping sleeve) separately in sterile good packaging.

2.7.7 Sterilisation in a steam steriliser (autoclave) in accordance with EN 13060 / EN ISO 17665-1

CAUTION

Contact corrosion due to moisture.

Damage to product.

- ▶ Immediately remove the product from the steam steriliser after the sterilisation cycle.

CAUTION

Damage caused by over-heating.

Damage to the gripping sleeve.

- ▶ Immediately remove the parts from the steriliser after the sterilisation cycle is completed.



The medical device has a max. temperature resistance of up to 138 °C (280.4 °F).

- ▶ Sterilisation with a triple pre-vacuum:
 - at least 3 minutes at 134 °C -1 °C/ +4 °C (273 °F -1.6 °F/ +7.4 °F)
- ▶ Use according to the manufacturer's Instructions for Use.

2.7.8 Storage

Reprocessed products must be stored appropriately protected from light in a dry, dark, cool low-germ room.



NOTE
Comply with the expiry date of the sterilized items.

2.8 Reprocessing of the patient element

2.8.1 Reprocessing of the tumbler

- ▶ Reprocess as specified by the manufacturer.

2.8.2 Reprocessing of the tumbler holder and tumbler filler

CAUTION

Water in the device.

Material damage from leaking water upon actuation of the "Tumbler filler" or "Bowl flush" keys.

- ▶ Make sure that the unit is turned off before removing the tumbler filler or the spittoon bowl.
- ▶ Before turning on the unit, always check if the tumbler filler, tumbler holder and spittoon bowl are present and in their proper places.



NOTE
During assembly, make sure that the O-ring is present on the tumbler filler. Inspect the O-ring (**Mat. no. 0.200.6128**) for damage and exchange it if necessary to prevent water or oxidation damage.

The tumbler filler and tumbler holder can be subjected to wipe disinfection.



- ▶ Pull the tumbler filler ① (**Mat. no. 0.764.8541**) upwards and lift off.
- ▶ Take off the tumbler holder ③ (**Mat. no. 0.764.6153**).
- ▶ Clean the tumbler filler and tumbler holder manually.
- ▶ Wet the O-ring ② (**Mat. no. 0.200.6128**) with silicone grease (**Mat. no. 1.000.6403**) for servicing.



The tumbler filler is thermoisinfectable.

- ▶ Parts should be standing upright when placed in the washer disinfectant.

2.8.3 Reprocessing of the spittoon bowl

CAUTION

Water in the device.

Material damage from leaking water upon actuation of the "Tumbler filler" or "Bowl flush" keys.

- ▶ Make sure that the unit is turned off before removing the tumbler filler or the spittoon bowl.
- ▶ Before turning on the unit, always check if the tumbler filler, tumbler holder and spittoon bowl are present and in their proper places.

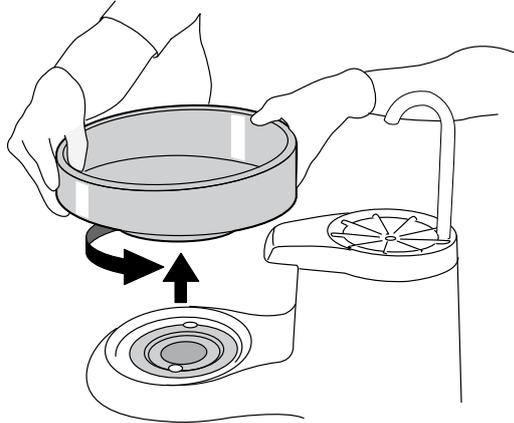
CAUTION

Damage caused by inappropriate cleaning agents.

Damage

- ▶ Do not use acid-containing, sand-containing, and foaming cleaning agents.
- ▶ Add a dose of DEKASEPTOL gel dosing cap to the spittoon bowl and distribute the agent with a brush.
- ▶ For cleaning, allow the gel to act for approx. 5 minutes.
- ▶ For disinfection, allow the gel to act for approx. 15 minutes.
- ▶ After exposure, press the "Spittoon bowl" button.

- ▶ Clean the spittoon bowl thoroughly using a brush.
Also refer to:
2.9.3 Cleaning programmes "Morning" and "Evening", Page 34
Also refer to:
2.9.5 "Weekly" cleaning programme, Page 36
⇒ DEKASEPTOL Gel is dosed and added automatically in the "Evening" and "Weekly" cleaning programmes.
- ▶ For thorough cleaning or washer disinfection, rotate the spittoon bowl and lift it off.



- ▶ Check the sieve insert and replace it according to need.

2.9 Automatic cleaning programmes



⚠ CAUTION

Health damage due to germ formation.

Infection hazard.

- ▶ Before starting, rinse all the water drain lines with no handpieces attached.
- ▶ Before initial start-up and after downtimes (weekends, holidays, vacations, etc.), rinse or purge the air and water lines with air.
- ▶ Run weekly cleaning programme.
- ▶ Actuate the tumbler filler several times.

The "Weekly" cleaning programme facilitates automatic rinsing and germ reduction of the water-conducting system. This counteracts the formation of micro-organisms at times of stagnation and ensures a hygienic water supply for the patients.

The water-conducting system includes all water ducts of the treatment centre to which the patient may be exposed. This includes the instruments on the dentist element and assistant element as well as the tumbler filler on the spittoon bowl of the treatment centre.

If the OXYGENAL 6 needs to be replenished, the display of the dentist element shows a status message: "Oxygenal empty"

Also refer to:

3.2 Replacing the OXYGENAL 6 bottle, Page 51

Once the message " Replace DEKASEPTOL Gel bottle" is displayed, a full DEKASEPTOL Gel bottle must be inserted.

Also refer to:

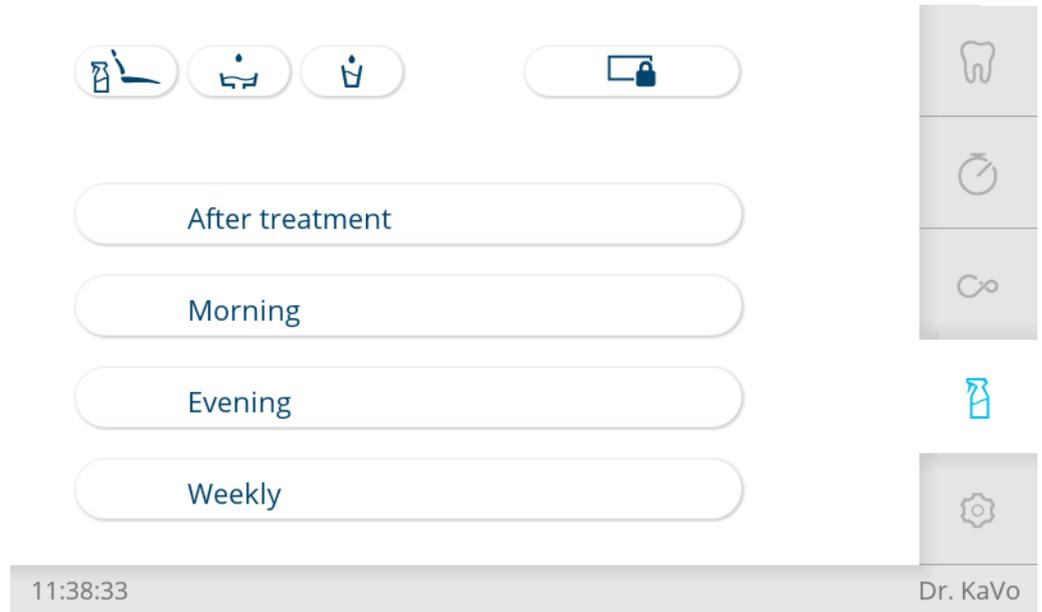
3.1 Replacing the DEKASEPTOL Gel bottle, Page 50

During routine daily operation of the treatment centre, the continuous germ reduction function secures continuous germ reduction in the water-conducting systems due to the automatic dosing of the germ reduction agent, KaVo OXY-GENAL 6.*

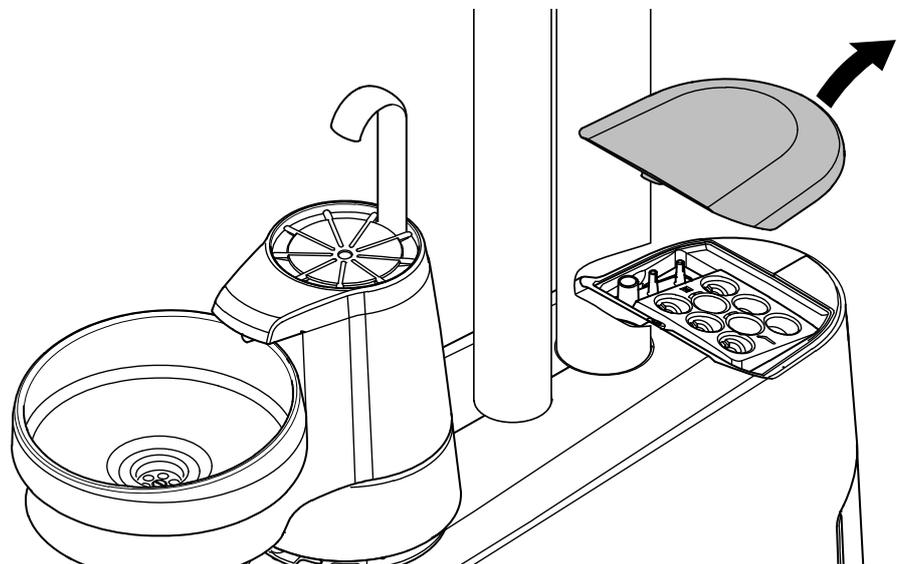
*In combination with DVGW water block only

2.9.1 Preparation of the cleaning programmes

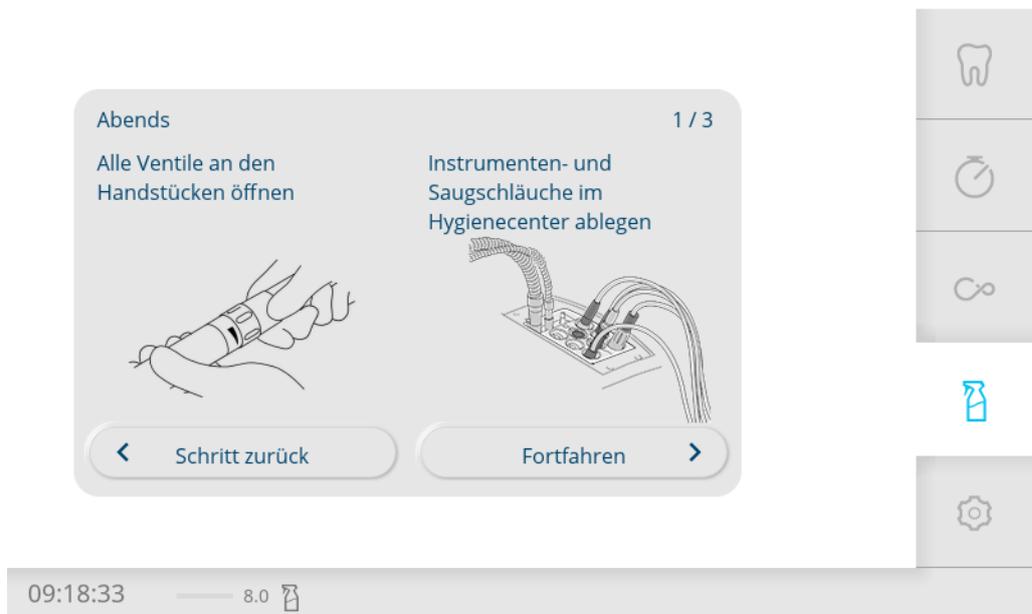
- ▶ Tap the "Cleaning" tab to open the "Cleaning" menu.



- ▶ Remove the cover of the hygiene centre and put it down.

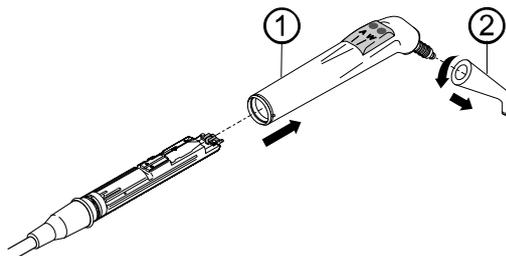


- ▶ Tap the button of the desired cleaning programme.
 - ⇒ The individual preparation steps are shown on the touch screen and can be run in sequence.



Storing the handpieces in the hygiene centre

- ▶ The cannulas of the three-function and multifunctional handpieces must be removed for the cleaning programmes.
- ▶ Grasp the three-function or multifunctional handpiece on the adapter between hose and handpiece and take off the cannula ② and the gripping sleeve ①.



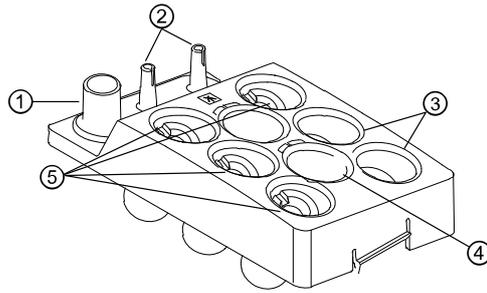
- ▶ Place the three-function or multifunctional handpieces without cannulas ② or gripping sleeves ① in the middle holders of the hygiene centre.



NOTE

Make sure to place three-function handpieces in the grey holder and multifunctional handpieces in the black holder of the hygiene centre.

- ▶ Place the instrument hoses of the dentist element in the designated places of the hygiene centre.
- ▶ Place the suction hoses of the assistant element in the designated places of the hygiene centre.



- ① Spray mist suction
- ② Saliva ejector
- ③ Without insert: PiezoLED
- ④ Three-function handpiece (grey adapter) or multifunctional handpiece (black adapter)
- ⑤ With insert: Motor / MULTIflex coupling



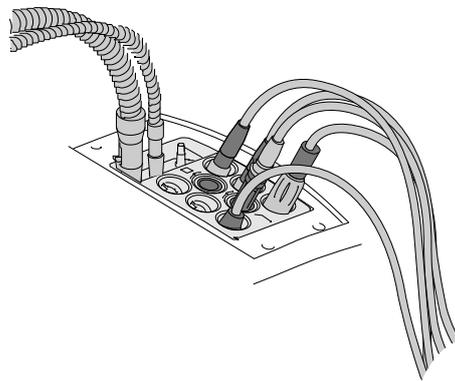
NOTE

All water regulation mechanisms on the motor, instruments, and MULTIflex couplings must be open.



NOTE

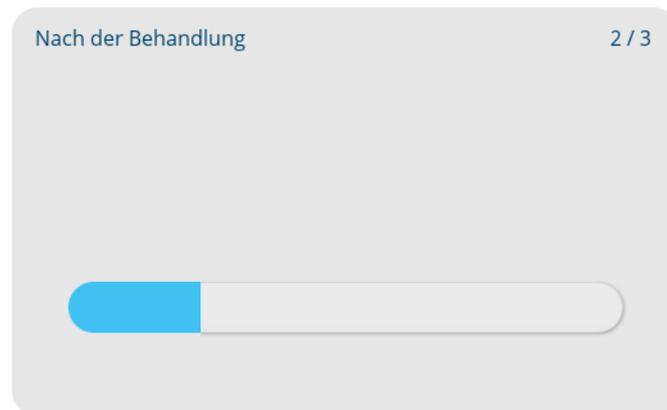
To improve the hygiene and lifespan, it is recommended to place the suction hoses over the arm system of the assistant element during the cleaning process.



- ▶ Tap the "One step back" or "Continue" buttons to navigate through the cleaning steps.
- ▶ Run the preparation for the cleaning programme and tap the "Continue" button to start the respective cleaning programme.

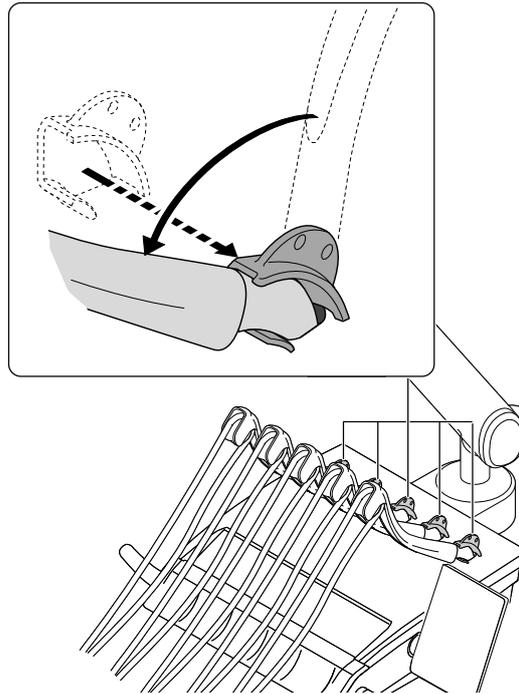


⇒ A progress bar indicates the cleaning steps.



S-Table

- ▶ Lock the swing arm into the front catching position to ensure that the handpiece is removed.
- ▶ In the case of swing arms without a catching function, insert the swing arm lock (**Mat. no. 1.008.1511**) to ensure that the handpiece is removed.



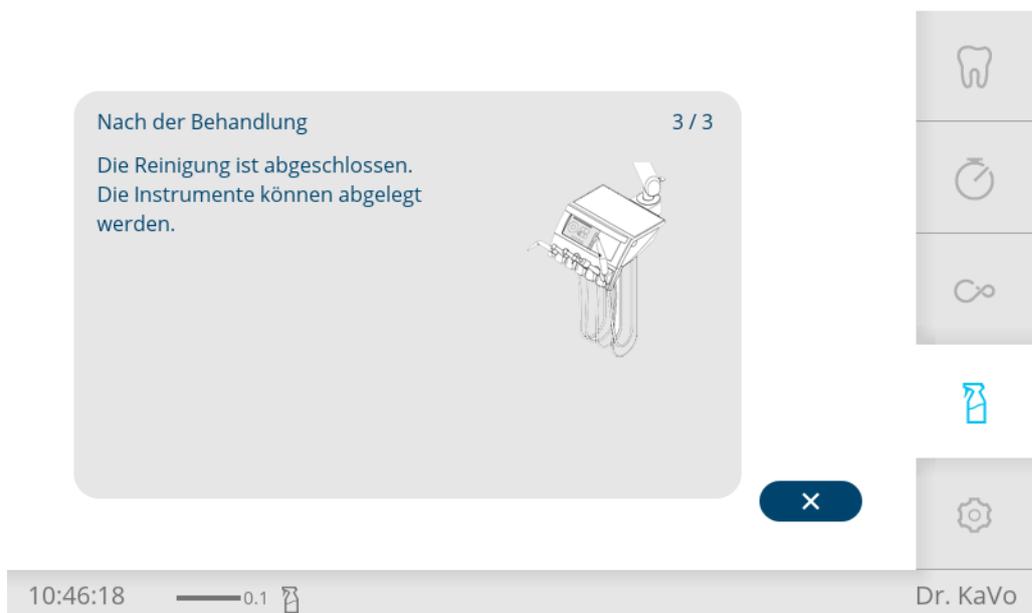
2.9.2 Cleaning programme, "After treatment"

The "After treatment" cleaning programme is an automatic program for hydro-mechanical cleaning of the drainage and separation systems within and outside the treatment unit. The cleaning process is carried out by supplying fresh, clear water (limited rinsing). The water is aspirated from the Aquamat through the filter housing to the separation system. The spittoon bowl rinsing is alternately turned on and off.

The "After treatment" cleaning programme prevents proteins from coagulating and adhering inside the drainage system and improves the removal of fine particles. In addition, the cleaning programme includes automatic rinsing of the water-conducting system and all instruments for 20 seconds each.

Tipp: Place the tumbler on the tumbler holder first to prevent the water from splashing.

- ▶ Run after each treatment.
- ⇒ The following message is displayed after completion of the cleaning programme:



The instruments and suction hoses can now be returned to their holders.

2.9.3 Cleaning programmes "Morning" and "Evening"

The "Morning" and "Evening" cleaning programmes are automatic programmes for hydro-mechanical cleaning and disinfection of the suction hoses, drainage and separation systems. The cleaning process is carried out by supplying fresh, clear water and disinfectant. The water is sucked out of the Aquamat through the extraction point and suction handpiece to the separation system. The spittoon bowl rinsing is alternately turned on and off.

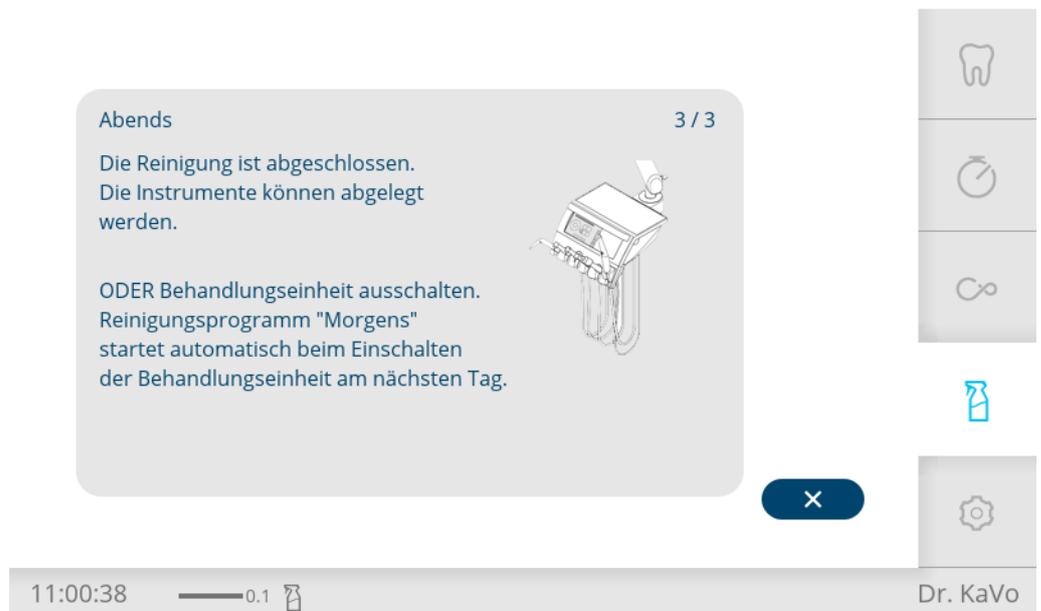
The "Morning" cleaning programme includes automatic rinsing of the water-conducting system and all instruments for 2 minutes each including tumbler filling. In addition, the suction system is rinsed with water.

In the short cleaning programme "Evening", all instruments on the dentist element and assistant element are rinsed for 20 seconds each. In addition, the suction system and the spittoon bowl are cleaned and disinfected with DEKASEPTOL Gel. KaVo recommends running the "Evening" cleaning programme after surgical interventions.

Tipp: Place the tumbler on the tumbler holder first to prevent the water from splashing.

The DEKASEPTOL gel is aspirated automatically. As soon as the DEKASEPTOL Gel bottle is empty, the display on the dentist element shows a status message.

- ▶ Tap the corresponding button to start the cleaning programme "Morning" or "Evening".
 - ⇒ The following message is displayed after completion of the cleaning programme:



- ▶ After completion of the "Evening" cleaning program, return the instrument and suction hoses to their holders.
- or
- ▶ After completion of the "Evening" cleaning programme, do not place hoses in holders and switch off the treatment unit. In this case, the "Morning" cleaning programme starts up automatically when the treatment centre is switched on again.

2.9.4 Setting the rinsing time

- ▶ Tap "Settings" to open the "Settings" menu.
- ▶ Then tap "General settings" followed by "Advanced settings" and "Weekly cleaning".
- ▶ Scroll down until "Morning" and "Evening" are displayed.
- ▶ Use the slider bar to set the rinsing time for "Morning", "Evening" and "After treatment".





- ⇒ The default value for the cleaning programmes "After treatment" and "Evening" is 20 seconds per instrument.
- ⇒ The default value for the "Morning" cleaning programme is 2 minutes per instrument.



NOTE

The default value is based on the current RKI guideline (RKI = German Robert Koch Institute).

2.9.5 "Weekly" cleaning programme



NOTE

This cleaning programme is not available in combination with the water block.

The "Weekly" cleaning programme prevents the formation of microorganisms during extended downtimes. During the "Weekly" cleaning programme, the afferent water ducts are automatically filled with a higher concentration of KaVo OXYGENAL 6. The "Weekly" cleaning programme takes approx. 45 minutes to complete. The increased hydrogen peroxide concentration acts for at least 30 minutes in the system.

An additional "Weekly" cleaning programme must be run during extended downtimes (more than 4 weeks). The need for "Weekly" cleaning is displayed automatically on the display of the dentist element in the "Cleaning" tab at the first start-up and after downtimes (weekends, public holidays, vacation etc.): "Weekly cleaning required. For x days."



NOTE

Observe the instructions for use for the instruments.



NOTE

If the suction hoses are attached in the hygiene centre, the "Evening" cleaning programme runs parallel to the "Weekly" cleaning programme.



NOTE

The suction cannot be used while the cleaning programme is in progress.

**NOTE**

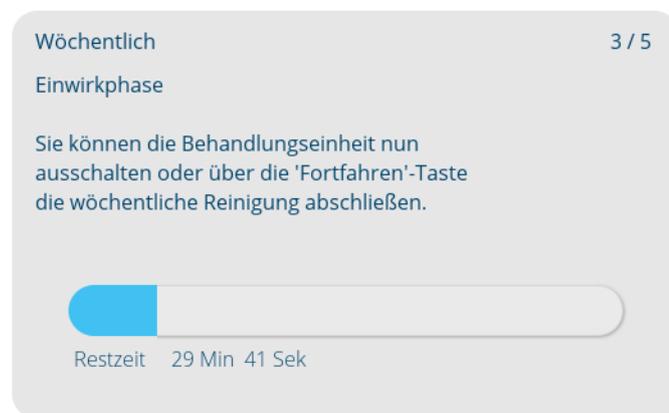
If a malfunction occurs in the amalgamate separator during "Weekly" cleaning, the workflow is discontinued.

Run the "Weekly" cleaning programme:

- At initial start-up
- Before, during and after prolonged downtimes (more than 4 weeks)
- Over the weekend
- During vacations
- After treatment of patients at high risk

Tip: Place the tumbler on the tumbler holder first to prevent the water from splashing.

- ▶ Tap "Weekly" to start the cleaning programme.
 - ⇒ At the start of the active phase, the display of the dentist element shows the following message and a beep is issued.

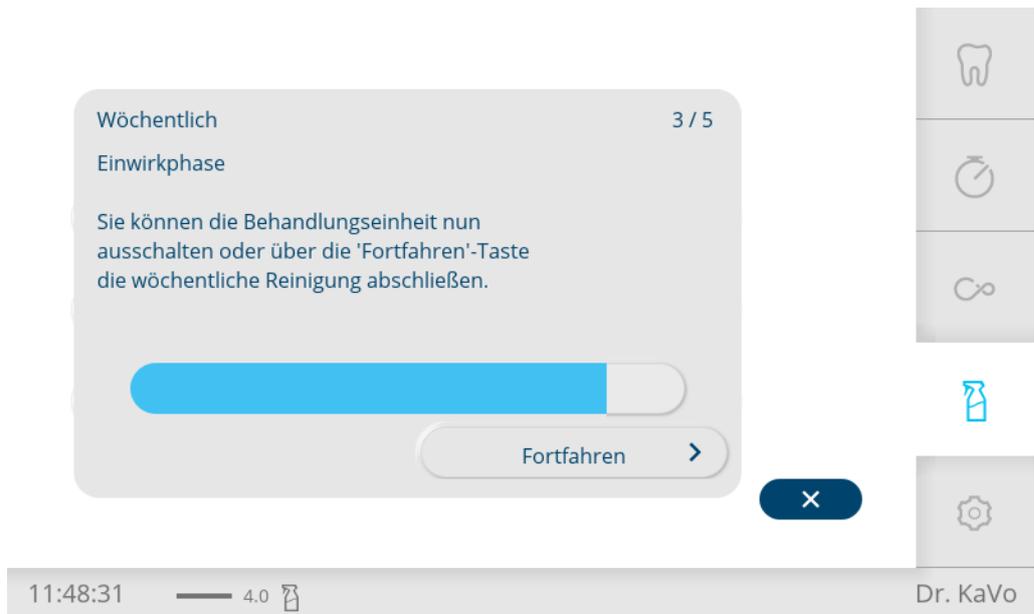


11:11:28

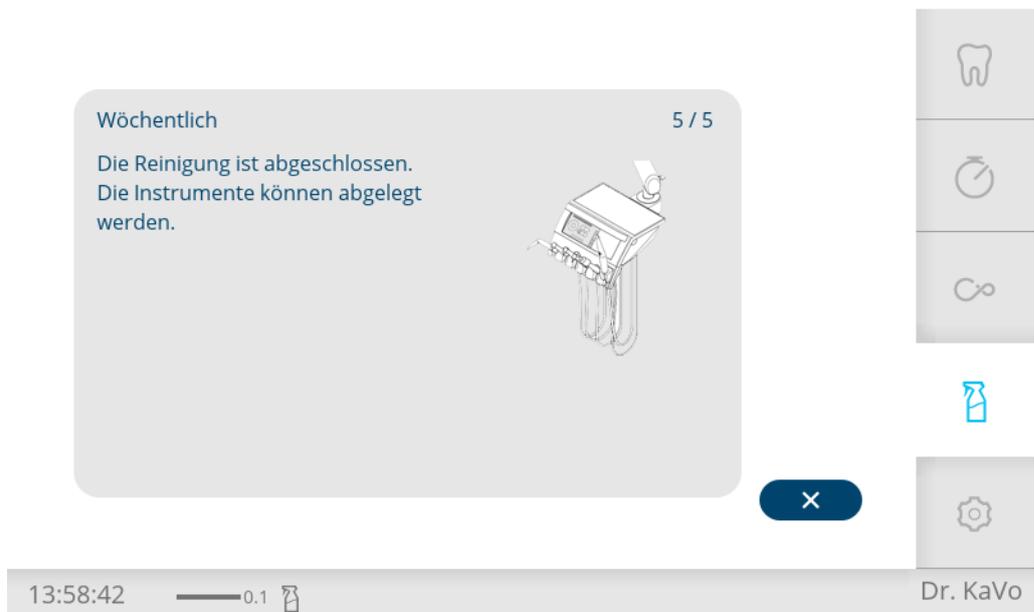
4.0

Dr. KaVo

- ▶ During the exposure phase, do not place hoses in holders and, if applicable, switch off the treatment centre before weekends and extended down-times.
- ▶ The "Continue" button is shown once the exposure phase is completed. Press "Continue" to close the hygiene programme. Alternatively, the treatment centre can be switched off at this time.



- ▶ Wait for the cleaning programme to be completed.
 - ⇒ The following message is displayed after completion of the cleaning programme:



- ▶ After completion of the "Weekly" cleaning programme, place hoses in holders.

If the treatment centre was switched off during the exposure phase, the programme is continued automatically once the treatment centre is switched on again.

Intensive germ reduction during prolonged down-times (more than 4 weeks)

During extended down-times, e.g. semester breaks at university, "Weekly" cleaning must be run during the down-time. The germ reduction liquid remains inside the system during the down-time.

Before the down-time

- ▶ Start the "Weekly" cleaning programme and switch it off during the exposure phase after an acoustical signal within the dwell time of 30 minutes.

- ▶ To prevent damage due to hoses getting kinked, remove hoses from the hygiene centre and place them in the dentist holder.
- ▶ Cover the treatment centre during extended down-times.

After the down-time

- ▶ Turn on the central compressor.
- ▶ Switch on the water supply for the treatment centre after the system pressure is achieved.
- ▶ Reinsert the instrument hoses of the dentist and assistant elements in the designated positions provided in the hygiene centre.
- ▶ Switch the treatment centre on.
 - ⇒ The unit automatically starts the remaining steps of the unfinished cycle.
- ▶ Allow the cycle to complete and then run a second full "Weekly" cleaning.
 - ⇒ The unit is now ready for use.

Additional intensive germ reduction during the down-time

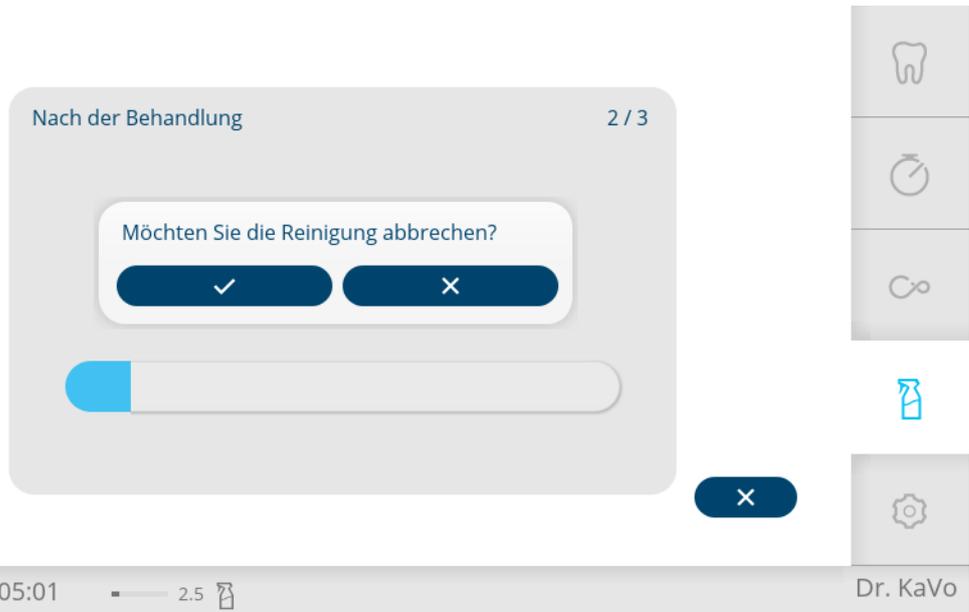
KaVo recommends to run an additional "Weekly" cleaning, e.g. during semester breaks at universities. This flushes the components and replaces the germ reduction liquid (after 4 weeks).

2.9.6 Discontinuing a cleaning programme

- ▶ Tap the "x" button to discontinue a cleaning programme.



- ▶ Tap the "Confirm" icon to discontinue the cleaning or tap the "x" button to continue the cleaning.



NOTE
In the "Weekly" cleaning programme, a higher concentration of OXYGENAL 6 is present in the treatment centre. If this programme gets discontinued, the water-conducting systems are first rinsed with the lower concentration before the treatment centre can be reused.

2.9.7 Use of the cleaning programmes with the water bottle

As described above, the automatic cleaning programmes are also available in the water bottle system.

If the water bottle is used, OXYGENAL 6 must be dosed manually. Different dosages are required depending on the cleaning programme.

Cleaning programmes "After treatment", "Morning" and "Evening"

For the "After treatment", "Morning" and "Evening" cleaning programmes, the standard concentration of OXYGENAL 6 is used, which is also used for continuous germ reduction.



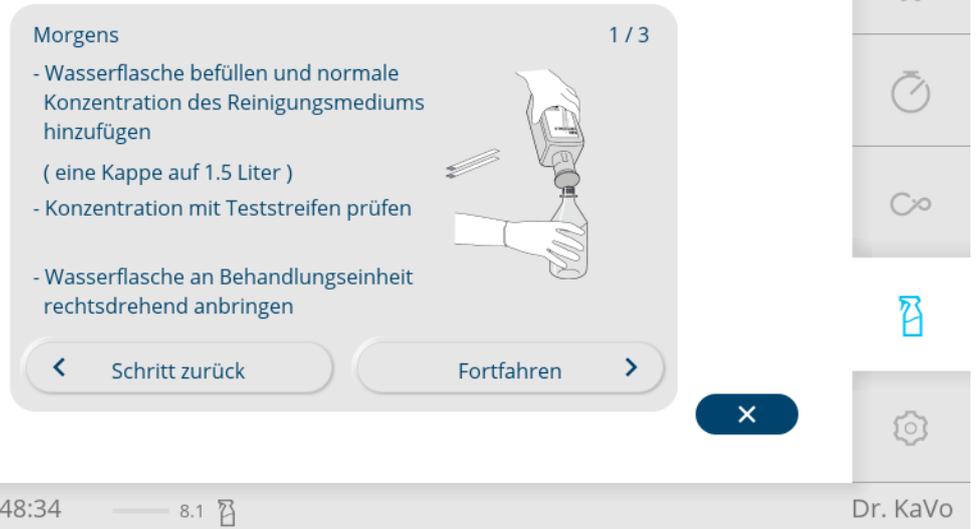
NOTE
After the "Morning" hygiene programme is completed, the water bottle needs to be refilled once, if needed due to the longer rinsing times. A corresponding notice is shown on the control element.

The OXYGENAL6 Dosing device is used to fill the water bottle.

Also refer to:

3.3 Replenishing OXYGENAL 6 when using the water bottle, Page 53

The following message is displayed during the cleaning programme:



Preparation of water bottle with standard OXYGENAL 6 concentration

Confirm the completion of the preparation on the dentist element.

- ▶ Press the "Yes" button to confirm that the water bottle containing the required concentration was attached.



- ▶ Subsequently, the "Continue" button is shown. Press the "Continue" button to start the cleaning programme.



Cleaning programme, "Weekly"

The "Weekly" cleaning programme runs an intensive germ reduction at a higher OXYGENAL 6 concentration.

The following amount of OXYGENAL 6 is required:

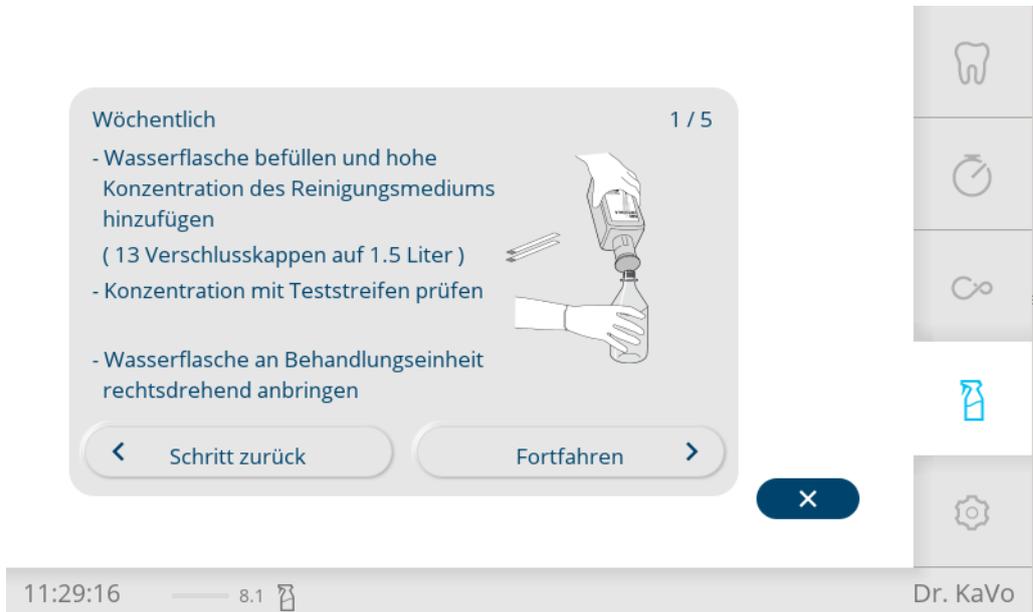
Size of water bottle	Capacity OXYGENAL 6
1.5 l	65 ml

Using the OXYGENAL 6 Dosing device, 13 dosages at setting 1.5 l are required.

Also refer to:

3.3 Replenishing OXYGENAL 6 when using the water bottle, Page 53

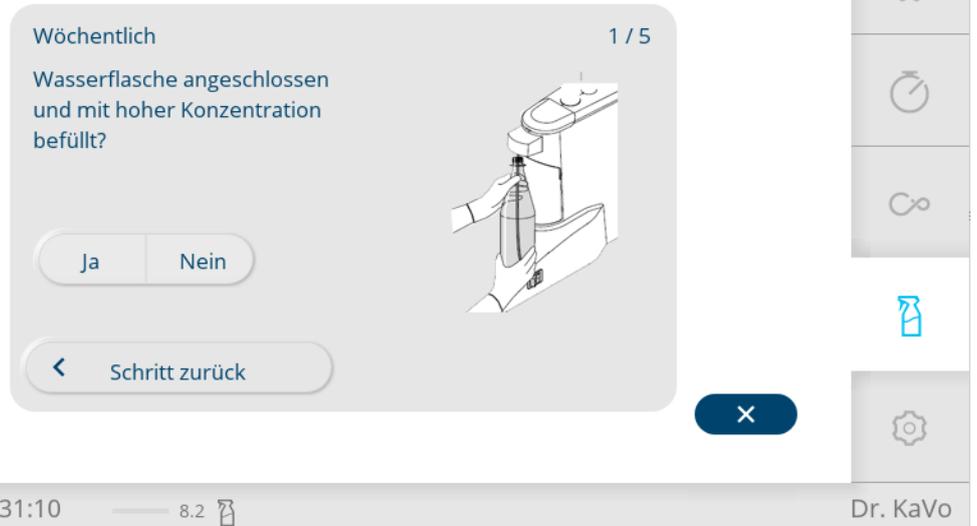
The following message is displayed during the cleaning programme:



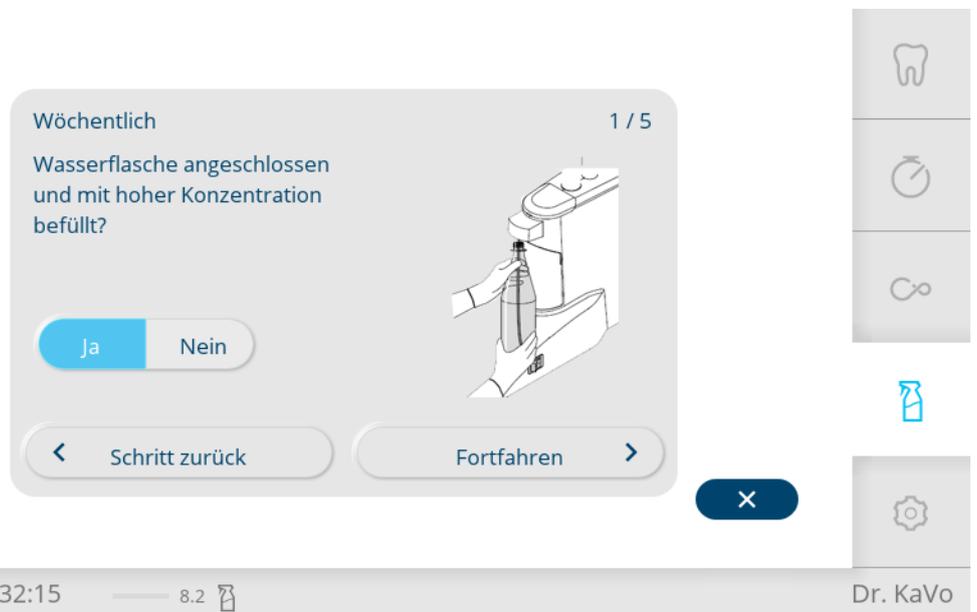
Preparation of water bottle with higher OXYGENAL 6 concentration

Confirm the completion of the preparation on the dentist element.

- ▶ Press the "Yes" button to confirm that the water bottle containing the required concentration was attached.



- ▶ Subsequently, the "Continue" button is shown. Press the "Continue" button to start the cleaning programme.

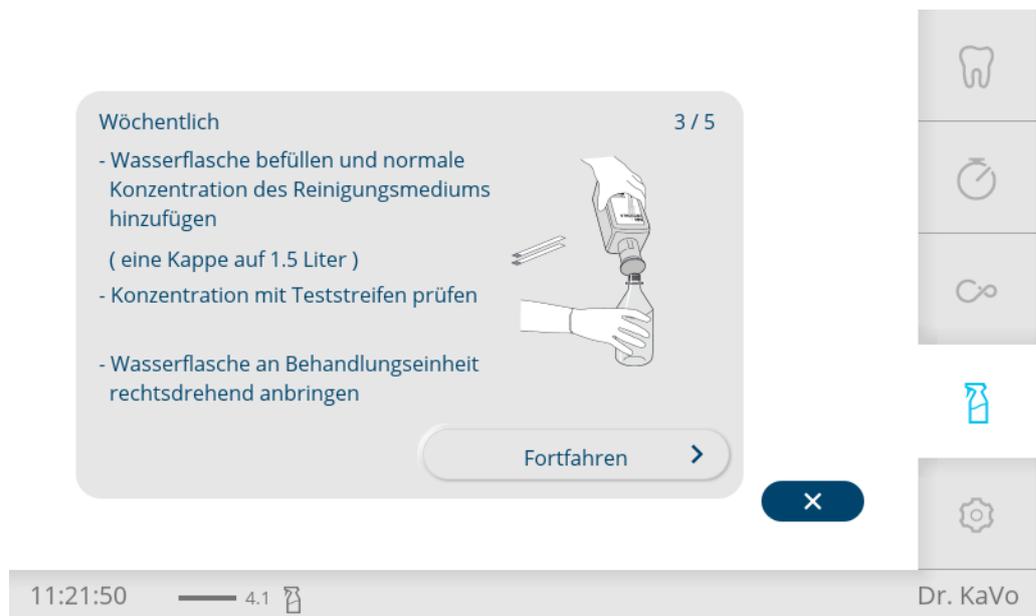


- ▶ After completion of the exposure phase, remove the remaining water from the water bottle.
- ▶ Refill the water bottle with water and standard OXYGENAL 6 concentration.

Also refer to:

3.3 Replenishing OXYGENAL 6 when using the water bottle, Page 53

The display shows the following message:



Preparation of water bottle with standard OXYGENAL 6 concentration

Confirm the completion of the preparation on the dentist element.

- ▶ Press the "Yes" button to confirm that the water bottle containing the required concentration was attached.



- ▶ Subsequently, the "Continue" button is shown. Press the "Continue" button to start the cleaning programme.



⇒ The cleaning programme proceeds automatically.

- ▶ After completion of the "Weekly" cleaning programme, place hoses in holders.

2.10 Reprocessing of the hygiene centre

CAUTION

Damage caused by inappropriate cleaning agents.

Damage

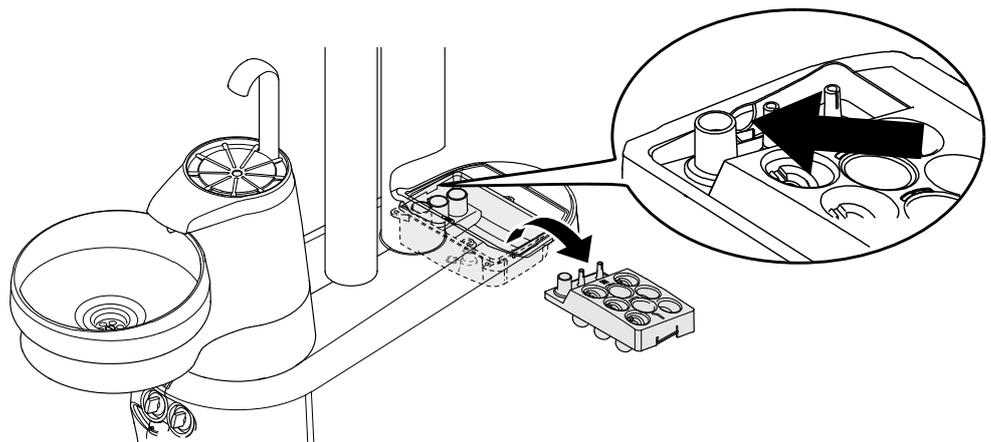
- ▶ Do not use acid-containing, sand-containing, and foaming cleaning agents.



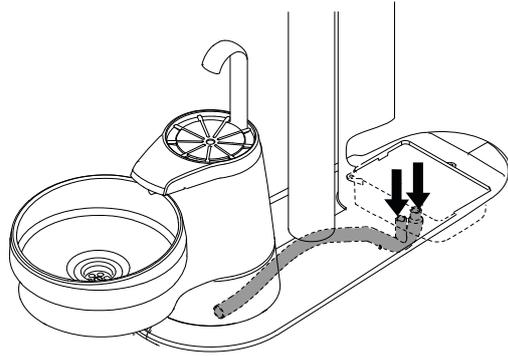
NOTE

The drain must be checked for damage prior to the weekly cleaning programme. The handpiece holder of the hygiene centre insert should be cleaned or disinfected in a washer disinfector unit according to need.

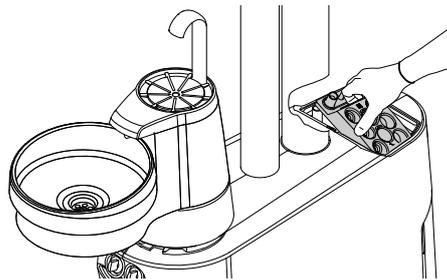
- ▶ Detach and remove the handpiece holder by pressing on the depression.



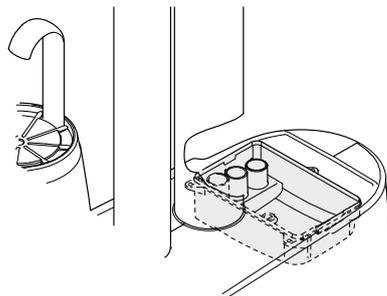
- ▶ Check the drain.



- ▶ Clean the handpiece holder of the hygiene centre insert under running water and insert it.



- ▶ The handpiece holder of the hygiene centre insert is thermodisinfectable. The handpiece-specific inserts stay mounted.



- ▶ Subject the holder of the hygiene centre insert to wipe disinfection.

2.11 Reprocessing of the amalgam separator

The following systems can be used as options:

- "Dürr" Amalgam separator
- Preparation for external wet suction system for connection to a central amalgam separator
- "Dürr" separation kit

The correct and regular use of the cleaning programmes results in optimal servicing of the amalgam separation system.



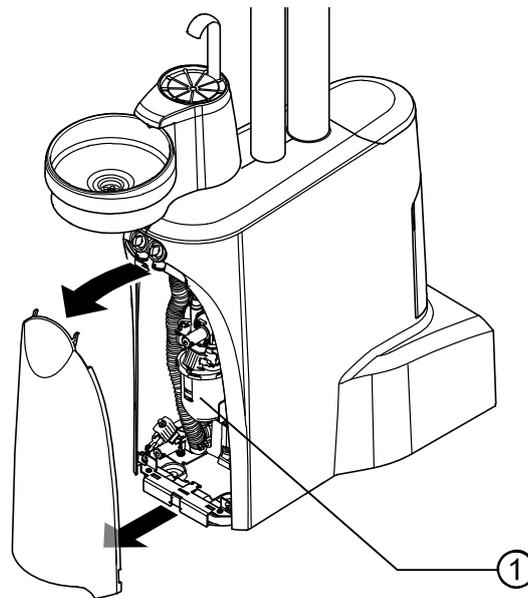
NOTE

Follow the instructions for use for the amalgam separator.

Replacing the amalgam container

- ▶ Turn off the treatment centre.

- ▶ Remove the cover.
- ▶ Replace the amalgam container ① according to the instructions for use of the amalgam separator.



2.12 Reprocessing KaVo Screen One / KaVo Screen HD

CAUTION

Product damage due to improper disinfection.

Malfunctions.

- ▶ Use the disinfectant according to the specifications of the manufacturer.
- ▶ No spray disinfection, perform wipe disinfection only.
- ▶ Do not immerse product or parts of the product in liquids.
- ▶ Mop up any spilled cleanser or disinfectant immediately.

- ▶ Clean the surfaces with a soft cloth and water, and wipe-disinfect them with a KaVo-approved surface disinfectant.

2.13 Reprocessing of the Service table 1568 and tray holders

CAUTION

Product damage due to improper disinfection.

Malfunctions.

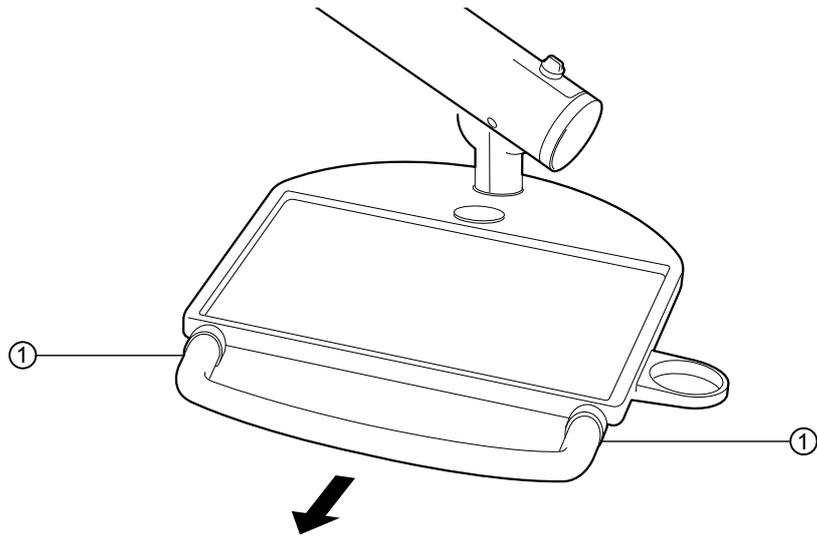
- ▶ Use the disinfectant according to the specifications of the manufacturer.
- ▶ No spray disinfection, perform wipe disinfection only.
- ▶ Do not immerse product or parts of the product in liquids.
- ▶ Mop up any spilled cleanser or disinfectant immediately.



NOTE

The handle on the service table can be taken off to improve the cleaning properties.

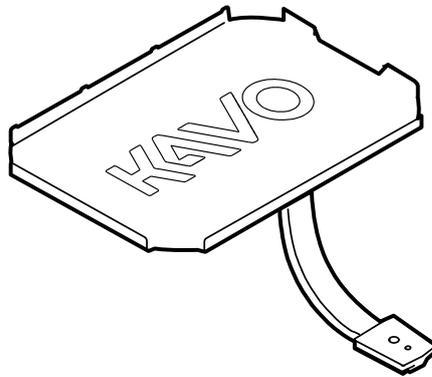
- ▶ Push the buttons ① on the bottom of the handle, and pull the handle off in the direction of the arrow.



- ▶ Clean the surfaces with a soft cloth and water, and wipe-disinfect them with an approved surface disinfectant.



Norm tray and non-slip mat can be sterilised.



Exemplary depiction of a tray holder

2.14 Reprocessing of the water bottle

CAUTION

Damage caused by defective water bottle.

Malfunctions or failures from a leaky water bottle.

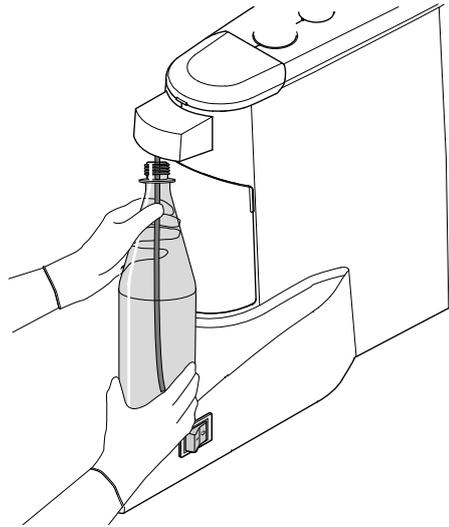
- ▶ Do not wash the water bottle in a dish washer, and do not rinse it with water hotter than 50 °C.
- ▶ Do not use the water bottle if it is scratched, deformed or discoloured.
- ▶ Note the maximum useful life of the water bottle on the label.

Water bottle complete: (**Mat. no. 0.710.4151**)

Removing and cleaning the water bottle

- ▶ Slowly turn the water bottle anticlockwise to take it off.

⇒ This allows the over-pressure to be released slowly from the water bottle.



NOTE

The water in the water bottle needs to be changed at least one daily. In order to ensure the efficiency of the measures, KaVo urgently recommends reprocessing the water with KaVo OXYGENAL 6. Also refer to: servicing instructions of the treatment centre.

- ▶ For cleaning, rinse the water bottle with water at a temperature of less than 50 °C.

Manual internal disinfection

For manual internal disinfection, KaVo recommends the BC-San 100 liquid made by Alpro.

Use this product according to manufacturer's instructions. For more information, please refer to: <https://www.alpro-medical.de/263-0-Gebrauchsanweisungen.html>

3 Replacing and checking cleaning and germ reduction agents



⚠ CAUTION

Working with cleaning, germ reduction and disinfection agents necessitates a certain degree of diligence.

Risk of injury from handling cleaning, germ reduction and disinfection agents.

- ▶ It is essential to follow the notes shown on the bottle label and in the material safety data sheet.
- ▶ Use personal protective equipment when you use these agents.



NOTE

Completely empty packages can be disposed of at recycling facilities. Also refer to: Material safety data sheet

3.1 Replacing the DEKASEPTOL Gel bottle

The DEKASEPTOL gel is aspirated automatically. As soon as the DEKASEPTOL Gel bottle is empty, the display on the dentist element shows a status message.

Once the message " Replace DEKASEPTOL Gel bottle" is displayed, a full DEKASEPTOL Gel bottle must be inserted.

Prerequisites

- ✓ The device must be turned on when changing DEKASEPTOL Gel bottle.
- ▶ Remove the cover from the unit base.

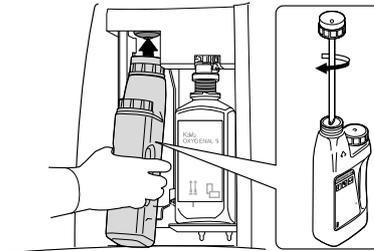


- ▶ Unscrew the lid of the new DEKASEPTOL Gel bottle.



- ▶ Take the empty bottle out of the base of the device, unscrew the connector of the DEKASEPTOL Gel bottle and screw it onto the new bottle of DEKASEPTOL Gel and then insert the bottle.

Accessories: DEKASEPTOL (**Mat. no. 1.000.7205**) with drain tap (**Mat. no. 0.224.6876**)



The touch screen shows a status message when the bottle is taken out of the unit.



NOTE

In order to display the "No DEKASEPTOL bottle" status message, tap first the arrow and then the status message. Then the required steps can be done.

- ▶ Putting the cover back on the unit base.

3.2 Replacing the OXYGENAL 6 bottle



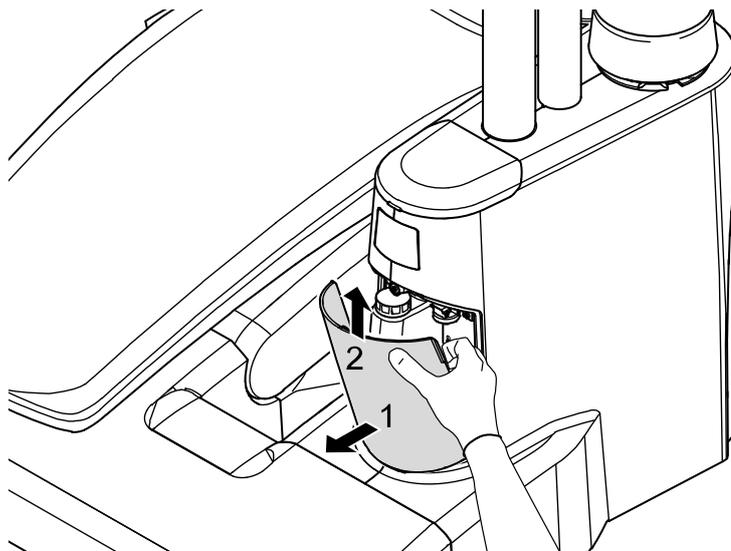
NOTE

Before you use the OXYGENAL 6, check the expiry date of the product.

The only permissible agent for use in KaVo water germ reduction units for water is KaVo OXYGENAL 6 (**Mat. no. 0.489.3451**).

If the OXYGENAL 6 needs to be replenished, the display of the dentist element shows a status message: "Oxygenal empty"

- ▶ Wipe up any spilled OXYGENAL immediately in order to prevent discolouration of the surfaces.



- ▶ Remove the cover from the unit base.
- ▶ Unscrew the lid of the new OXYGENAL 6 bottle.
- ▶ Swing out the empty OXYGENAL 6 bottle from the unit base, and pull it down off the adapter.

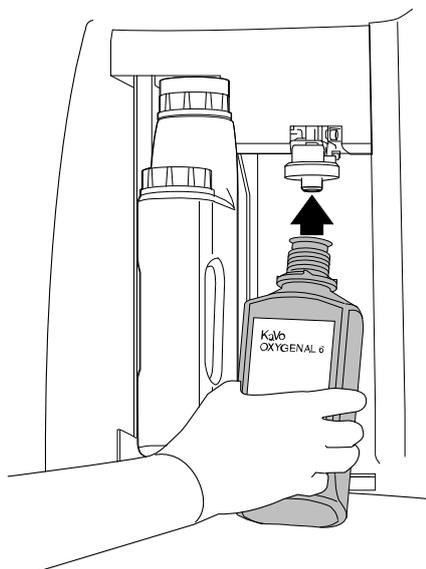
The touch screen shows a status message when the bottle is taken out of the unit.



NOTE

In order to display the "No OXYGENAL bottle" status message, tap first the arrow and then the status message. Then the required steps can be done.

- ▶ Press the new bottle onto the adapter, and swing the bottle into the unit base.



- ▶ Putting the cover back on the unit base.



NOTE

Check the OXYGENAL 6 concentration occasionally in order to check the function of the germ reduction unit for water and/or the expiration date of the germ reduction agent.

3.3 Replenishing OXYGENAL 6 when using the water bottle

Dosing attachment: (Mat. no. 1.002.0287)

Filling the water bottle with the dosing device



NOTE

Before you use the OXYGENAL 6, check the expiry date of the product.

- ▶ Wipe up any spilled OXYGENAL immediately in order to prevent discolouration of the surfaces.
- ▶ Remove the protective hose from the tube of the KaVo OXYGENAL 6 dosing device.
- ▶ Guide the tube through the orifice of the coarse sieve of the KaVo OXYGENAL 6 bottle.
- ▶ Screw the KaVo OXYGENAL 6 dosing device tightly to the KaVo OXYGENAL 6 bottle.
- ▶ Rotate the orifice in the lid to a filling level of 1.5 litres.
 - ⇒ Lid snaps-in in the filling position.

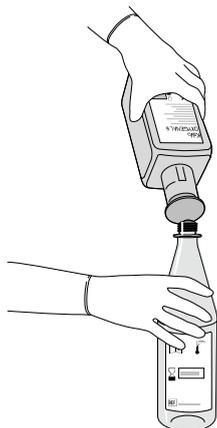


- ▶ Place the KaVo OXYGENAL 6 bottle on a level surface.
- ▶ Compress the KaVo OXYGENAL 6 bottle until the germ reduction liquid rises above the red marker.
 - ⇒ In response to over-filling, the excess quantity above the tick mark is suctioned off automatically such that exact dosing is ensured.



- ▶ Place the KaVo OXYGENAL 6 bottle in the water bottle. Make sure that the spout of the KaVo OXYGENAL 6 dosing device (nose) is situated right above the opening of the water bottle.

- ▶ Then fill-up the water bottle with tap water.



NOTE

Substances remaining in the dosing head are not contamination, but rather agents that are deposited there during extended downtimes after condensation of the water. These deposits dissolve after several dosing processes.

- ▶ Screw the water bottle tightly to the treatment centre in a clockwise rotation.
⇒ Apply compressed air to the water bottle.

OXYGENAL 6 volumes for 1.5 litre water bottle

Type of use	Amount of OXYGENAL 6	Doses attachment
Standard concentration	5 ml	1x
Higher concentration	65 ml	13x

3.4 Checking the OXYGENAL 6 concentration



NOTE

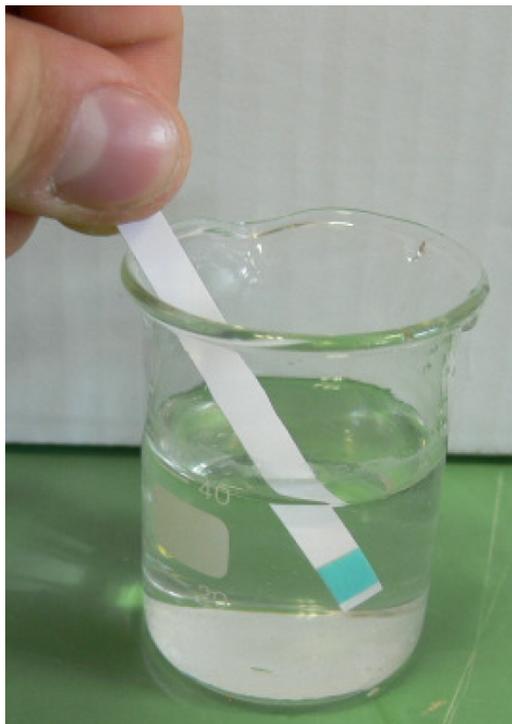
Check the OXYGENAL 6 concentration occasionally in order to check the function of the germ reduction unit for water and/or the expiration date of the germ reduction agent.

3 Replacing and checking cleaning and germ reduction agents | 3.4 Checking the OXYGENAL 6 concentration

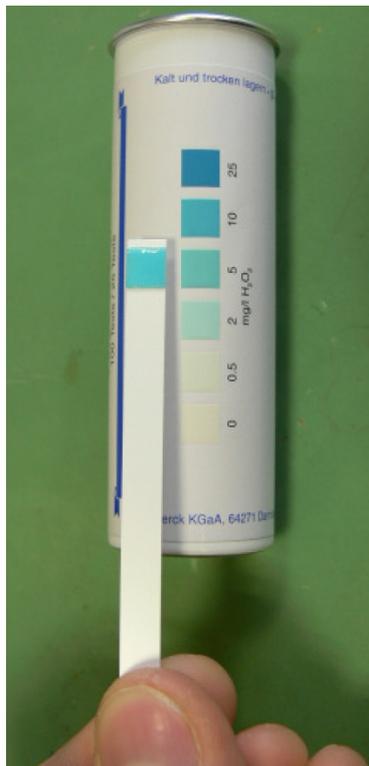
- ▶ Test the standard concentration 0.02% H_2O_2 (200ppm): Fill a measuring cup (40 ml) with 39 ml water and 1 ml treated water.



- ▶ Immerse a Merckoquant Peroxide Test Strip in the liquid.



- ⇒ Compare the colours and read the value: 5 mg/l is shown for a concentration of 200ppm.



Other concentrations can be tested using the following table:

Concentration H ₂ O ₂	Measuring cup	Ratio water : treated water	Value shown on test strip
0.02 % (200 ppm) standard concentration	40 ml	39:1	5 mg/l
0.25 % (2500 ppm) intensive germ reduction concentration	100 ml	99:1	25 mg/l



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