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Instructions for use

MASTERtorque Mini LUX M8700 L - 3.001.0000
MASTERtorque Mini LUX M8700 LK - 3.001.3400
MASTERtorque Mini LUX M8700 LS - 3.001.0600

KaVo. Dental Excellence.

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1 User instructions

Dear User

Congratulations on purchasing this KaVo quality product. By following the instructions below you will be able to work smoothly, economically and safely.

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Target group

This document is intended for dentists and their assistants. The section on starting up is also intended for service technicians.

General marks and symbols

	Refer to the chapter on Safety/Warning symbol
	Important information for users and service technicians
	Can be steam-sterilised at 134 °C -1 °C / +4 °C (273 °F -1.6 °F / +7.4 °F)
	Thermodisinfectable
	CE-Zeichen (Communauté Européenne). Ein Produkt mit diesem Zeichen entspricht den Anforderungen der anwendbaren EG-Richtlinie.

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▶	Action request

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:



⚠ DANGER

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



⚠ WARNING

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



⚠ CAUTION

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

NOTICE

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

2 Safety

The instructions for use are a component of the product and must be read through carefully prior to use and be accessible at all times.

The device may only be used in accordance with the instructions for use, any other type of use is not permitted.

2.1 Infection hazard

Patients, users or third parties could be infected by contaminated medical devices.

- ▸ Take suitable personal protective measures.
- ▸ Follow the instructions for using the components.
- ▸ Before the initial commissioning and after each use, prepare and sterilise the medical device and accessories accordingly.

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- Carry out the cleaning and sterilisation as described in the instructions for use. The procedure has been validated by the manufacturer.
- It is essential to endure the effectiveness of the cleaning and sterilisation in the case of deviation in procedure.
- Prior to disposal, the product and accessories must be appropriately prepared or sterilised.
- In the case of injury to soft tissue, do not continue treatment in the oral cavity with instruments driven by compressed air.

2.2 Technical condition

A damaged device or components could injure patients, users and third parties.

- Only operate devices or components if they are undamaged on the outside.
- Check that the device is working properly and is in satisfactory condition before each use.
- If there are any sites of breakage or clearly recognised changes on the surface, the parts must be checked by the Service.
- Safety checks may only be performed by trained service personnel.
- If the following defects occur, stop working and have the service personnel carry out repair work:
  - Malfunctions
  - Damage

  - Irregular noise
  - Excessive vibration
  - Untypical heating
  - No firm seating of the grinder or cutter in the instrument

Observe the following instructions in order to guarantee optimum functioning and prevent material damage:

- Service the medical device with care products and systems regularly as described in the instructions for use.
- The device should be cleaned, serviced and stored in a dry location, according to instructions, if it will not be used for a longer period.

2.3 Accessories and combination with other equipment

Use of un-authorised accessories or un-authorised modifications of the device could lead to injury.

- Only use accessories that have been approved for the combination with the product by the manufacturer.
- Only use accessories that are equipped with standardised interfaces.
- Do not make any modifications to the device unless these have been approved by the manufacturer of the product.

2.4 Qualification of personnel

Application of the product by users without the appropriate medical training could injure the patients, the users or third parties.

- Ensure that the user has read and understood the instructions for use.

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- Only employ the device if the user has the appropriate medical training.
- Observe national and regional regulations.

The improper use of the device could lead to burns or injuries.

- Never touch soft tissue with the handpiece head or instrument cover.
- Do not use the medical device as a light probe.
- Use an appropriate light probe for illumination of the oral cavity or site of preparation.
- After treatment, place the medical device properly in the holder, without the cutter or grinder.

2.5 Service and repair

Repairs, servicing and safety checks may only be performed by trained service personnel. The following persons are authorised to do this:

- Service technicians of KaVo branches after the appropriate product training
- Service technicians of KaVo authorised dealers after the appropriate product training

Observe all the following items during servicing work:

- Have the service and testing tasks carried out in accordance with the Medical Product Operator Ordinance.
- After servicing, interventions, and repairs of the device and before reuse, the device must be checked for safety by the service personnel.

- Following expiry of the warranty, check the cutter/grinder holding system and quick stop once a year.
- KaVo recommends specifying in-house service intervals where the medical device is brought to a professional shop for cleaning, servicing and a function check. Defined the service interval depending on the frequency of use.

3 Product description



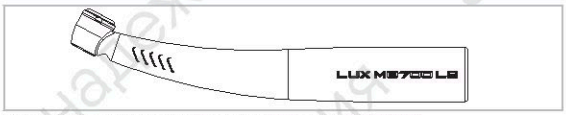
MASTERtorque Mini LUX M8700 L (**Mat. no. 3.001.0000**)



MASTERtorque Mini LUX M8700 LK (**Mat. no. 3.001.3400**)

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MASTERtorque Mini LUX M8700 LS (**Mat. no. 3.001.0600**)

The MASTERtorque Mini LUX M8700 L, M8700 LK, M8700 LS is a dental handpiece according to 21 CFR § 872.4200 (dental handpiece and accessories).

The MASTERtorque Mini LUX M8700 L, M8700 LK, M8700 LS air-driven handpieces are dental handpieces for the use by a trained professional in the field of general dentistry. The devices are air-powered handpieces that are reusable and ergonomically shaped, and provided with a fiber optic light system. The devices can be sterilized by the steam autoclave method. Through the tube and the MULTIflex coupling connected to a dental unit, the MASTERtorque Mini LUX M8700 L, M8700 LK, M8700 LS receives the

air for high speed turbine, the cooling water and air for cutting treatment through pouring holes and light for illumination the operation area. The MASTERtorque Mini LUX M8700 L, M8700 LK, M8700 LS is equipped with the Direct Stop Technology which reduces the stopping time of the high speed turbine and so of the bur. The back suction also will be reduced due to the Direct Stop Technology.

3.1 Purpose – Proper use

Purpose:

The MASTERtorque Mini LUX M8700 L, M8700 LK, M8700 LS is intended for the removal of carious material, reducing of hard tooth structure, cavity and crown preparations, removal of fillings, processing and finishing tooth preparations, restorations, and for polishing teeth. They are designed for use by a trained professional in the field of general dentistry.



⚠ CAUTION

US Federal law restricts this device to sale by or on the order of a healthcare professional / dentist.

For dental use only.

Proper use:

According to these regulations, this medical device may only be used for the described application by a knowledgeable user. You need to comply with the following:

- the applicable health and safety regulations
- the applicable accident prevention regulations

- these Instructions for use

According to these regulations, the user is required to:

- only use equipment that is operating correctly,
- adhere to the specified intended use
- protect him or herself, the patient and third parties from danger, and
- avoid contamination from the product.

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3.2 Technical Specifications M8700 L / M8700 LK

Drive pressure	2.1 to 3.5 bar (30 to 51 psi)
Recommended drive pressure	2.8 bar (41 psi)
Return air pressure	< 0.5 bar (7 psi)
Spray water pressure	0.8 to 2.0 bar (12 to 29 psi)
Spray air pressure	1.0 to 2.0 bar (15 to 29 psi)
Air consumption	44 to 51 Nl/min
Idle speed	380,000 to 450,000 min^{-1}
Recommended pressure	2 to 3 N

Attachable to all MULTIflex (LUX) / MULTIflex LED couplings.

3.3 Technical Specifications M8700 LS

Drive pressure	2.6 to 3.0 bar (38 to 44 psi)
Recommended drive pressure	2.8 bar (41 psi)
Return air pressure	< 0.5 bar (7 psi)
Spray water pressure	0.8 to 2.0 bar (12 to 29 psi)
Spray air pressure	1.0 to 2.0 bar (15 to 29 psi)
Air consumption	40 to 48 Nl/min
Idle speed	380,000 to 450,000 min^{-1}
Recommended pressure	2 to 3 N

Can be plugged onto all Sirona quick couplings.

3.4 Transportation and storage conditions

NOTICE

Startup after refrigerated storage.

Malfunction.

- Prior to startup, very cold products must be heated up to a temperature of 20 °C to 25 °C (68 °F to 77 °F).

	Temperature: -20°C to +70°C (-4°F to +158°F)
	Relative humidity: 5% RH to 95% RH absence of condensation

	Air pressure: 700 hPa to 1060 hPa (10 psi to 15 psi)
	Protect from moisture

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4 Start up and shut down



⚠ WARNING

Hazard from non-sterile products.

Infection hazard for care provider and patient.

- Before first use and after each use, prepare and sterilise the medical device and accessories accordingly.



⚠ WARNING

Disposal of the product in the appropriate manner.

Prior to disposal, the product and accessories must be appropriately prepared or sterilised if this is necessary.

NOTICE

Damage from soiled and moist cooling air.

Contaminated and moist cooling air can cause malfunctions.

- Make sure that the supply of cooling air is dry, clean and uncontaminated according to ISO 7494-2.

4.1 Mounting the MULTIflex (LUX) / MULTIflex LED coupling to M8700 L

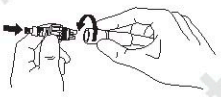


⚠ WARNING

Release of the medical device during treatment.

A medical device that is not properly locked in place can release from the MULTIflex (LUX) / MULTIflex LED coupling during treatment.

- Before each use, check if the medical device is securely locked onto the MULTIflex (LUX) / MULTIflex LED coupling by pulling on it.



- Screw the MULTIflex (LUX) / MULTIflex LED coupling onto the turbine hose and tighten with the wrench.



- Rotate the spray ring on the MULTIflex (LUX) / MULTIflex LED coupling in order to regulate the fraction of water.

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4.2 Checking the amount of water

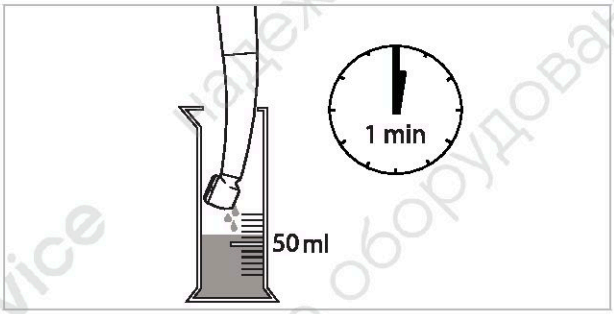
⚠ CAUTION

Overheating of the tooth due to insufficient amount of cooling water.



Insufficient spray water can cause the medical device to overheat and damage the pulp and tooth.

- Adjust the water amount for the spray cooling to a minimum of 50 cm^3/min (3.1 $inch^3$).
- Check spray water channels and if necessary clean spray nozzles with the nozzle needle (**Mat. no. 0.410.0921**).
- Check water filter and replace, if necessary.



4.3 Checking the pressures, M8700 L

NOTICE

Contaminated or moist compressed air at the compressed air connection

Premature wear

- Supply dry, clean and uncontaminated compressed air according to ISO 7494-2 only.



- Insert the test manometer (**Mat. no. 0.411.8731**) between the coupling and the medical device and check the following pressures:

⇨ Drive pressure, drive pressure recommended, return air pressure, spray water pressure, and spray air pressure.

See also:

3.2 Technical Specifications M8700 L, Page 25

If the drive pressure is higher, the rotation speed of the turbine is limited automatically.

4.4 Checking the pressures, M8700 LS

NOTICE

Contaminated or moist compressed air at the compressed air connection

Premature wear

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- Supply dry, clean and uncontaminated compressed air according to ISO 7494-2 only.



- Install the Sirona test manometer test star between the hose and coupling. Then plug the handpiece onto the Sirona quick coupling and check the following pressures:

⇨ Drive pressure, recommended drive pressure, return air pressure, spray water pressure, and spray air pressure.

See also:
3.3 Technical Specifications M8700 LS, Page 26

4.5 Checking the O-rings

NOTICE

Missing or damaged O-rings.

Malfunction and premature failure.

- Make sure that all O-rings are on the coupling and are undamaged.

M8700 L KaVo MULTIflex (LUX) / MULTIflex LED coupling

Number of available O-rings: 5

M8700 SL Sirona quick coupling R/F

Number of available O-rings: 4

5 Operation



Note

At the beginning of each workday, the water-conducting systems should be rinsed for at least 2 min. without the instrument being attached; if there is a risk of contamination from reflux or back suction, the system must be rinsed for 20-30 seconds.

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5.1 Attaching the medical device, M8700 L



⚠ WARNING

Release of the medical device during treatment.

A medical device that is not properly locked in place can release from the MULTIflex (LUX) / MULTIflex LED coupling during treatment.

- Before each use, check if the medical device is securely locked onto the MULTIflex (LUX) / MULTIflex LED coupling by pulling on it.

NOTICE

Inaccurate coupling especially during the afterglow period.

Inaccurate coupling, especially during the afterglow period, can destroy the high-pressure lamp or the LED of the coupling or reduce its service life.

- Ensure precise coupling and firm seating of the turbine on the coupling.



- Mount the medical device accurately on the MULTIflex (LUX) / MULTIflex LED coupling and push it backward until the coupling audibly locks in the medical device.

- Pull on it to make sure that the medical device is securely affixed to the coupling.

5.2 Attaching the medical device, M8700 LS



⚠ WARNING

Release of the medical device during treatment.

A medical device that is not properly locked can release from the Sirona quick coupling during treatment.

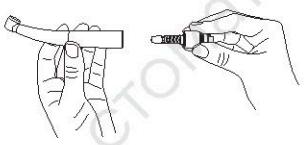
- Before each use, check if the medical device is securely locked onto the Sirona quick coupling.

NOTICE

Inaccurate coupling especially during the afterglow period.

Inaccurate coupling, especially during the afterglow period, can destroy the high-pressure lamp or the LED of the coupling or reduce its service life.

- Ensure precise coupling and firm seating of the turbine on the coupling.



- Precisely attach the medical device to the Sirona quick coupling and push is to the rear until the coupling audibly locks in the medical device.

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- Pull on it to make sure that the medical device is securely affixed to the coupling.

5.3 Removing the medical device

- Hold the coupling tight, and pull the medical device off while twisting slightly.

5.4 Inserting the cutter or grinder



Note

Only use carbide cutters or diamond grinders that comply with ISO 1797-1 type 3, are made of steel or hard metal and meet the following criteria:

- Shaft diameter: 1.59 to 1.60 mm
- Overall length: max. 21 mm
- Shaft clamping length: at least 9 mm
- Blade diameter: max. 2 mm



⚠ WARNING

Use of unauthorised cutters or grinders.

Risk of injury.

- Observe the instructions for use and use the cutter or grinder properly.
- Only use cutters or grinders that do not deviate from the specified data.



⚠ CAUTION

Injury from using worn drill bits or burs.

Drill bits or burs could fall out during treatment and injure the patient.

- Never use drill bits or burs with worn shafts.



⚠ CAUTION

Danger of injury from cutters or grinders.

Infections or cuts.

- Wear gloves or fingerstalls.

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⚠ CAUTION

Hazard from defective chuck system.

The cutter or grinder could fall out and cause injury.

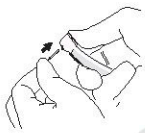
- Pull on the dental burr or rips abrasives to check if the clamping system is functioning properly and that the tool is firmly clamped. Wear gloves or a thimble to check, insert, or remove the bits to prevent injury and infection.

NOTICE

Use of unauthorised cutters or grinders.

Damage to the medical device.

- Observe the instructions for use and use the cutter or grinder properly.
- Only use cutters or grinders that do not deviate from the specified data.



- Forcefully press the push button with your thumb and simultaneously insert the cutter or grinder all the way.
- Check that the cutter or grinder is seated by pulling on it.

5.5 Removing the cutter or grinder

⚠ WARNING

Hazard from rotating cutter or grinder.

Cuts, infection and burns.

- Never press the press-button while the cutter or grinder is rotating.
- Do not touch the cutter or grinder when it is rotating.
- Never touch soft tissue with the handpiece head or instrument cover.
- Remove the cutter/grinder from the contra-angle handpiece after treatment to avoid injury and infection when putting it away.

NOTICE

Damage to the chucking system.

Property damage.

- Do not press the pushbutton while the cutter or grinder is rotating.



- After the cutter or grinder has stopped rotating, press the press-button with your thumb and simultaneously pull out the drill bit or bur.

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6 Troubleshooting

6.1 Changing the O-rings on the MULTIflex (LUX) / MULTIflex LED coupling, M8700 L

NOTICE

Improper care of the O-rings.

Malfunction or complete failure.

- Do not use Vaseline or other grease or oil.



Note

The O-ring on the coupling may only be lubricated with a cotton ball wet with KAVO spray.

- Press the O-ring between your fingers to form a loop.
- Shove the O-ring to the front, and remove it.
- Insert new O-rings into the grooves.

6.2 Changing the O-rings on the Sirona quick coupling, M8700 LS

NOTICE

Improper care of the O-rings

Malfunction or complete failure.

- Observe the instructions for use of the Sirona quick coupling.

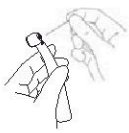
6.3 Cleaning the spray nozzle

⚠ CAUTION

Hazard from insufficient spray water.

Overheating of the medical device and damage to the tooth.

- Check the spray water channels and clean the spray nozzles with the nozzle needle **Mat. no. 0.410.0921** if necessary.
- Check the water filter and exchange if necessary.



- Clean the water passage in the spray nozzles by using the nozzle needle (**Mat. no. 0.410.0921**).



⚠ WARNING

Hazard from nonsterile products.

Infection danger to the care provider and patient.

- Reprocess and sterilise the medical device properly before the next use.

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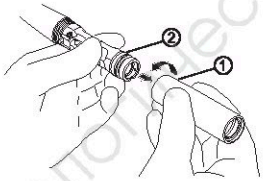
6.4 Changing the water filter

⚠ CAUTION

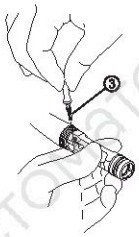
Hazard from insufficient spray water.

Insufficient spray water can cause the medical device to overheat and damage the tooth.

- Check the filter and exchange if necessary.
- Check the spray water channels and clean the spray nozzles with the nozzle needle **Mat. no. 0.410.0921** if necessary.



- Unscrew the sleeve ① in counterclockwise direction from the insert ② and pull it off.



- Unscrew the water filter ③ with the wrench (Mat. no. 1.002.0321) and take it out
- Insert the new filter (Mat. no. 1.002.0271) and screw it in with the wrench
- Place the sleeve ① on the insert ②, and screw it tight in clockwise direction.

⚠ WARNING

Hazard from nonsterile products.

Infection danger to the care provider and patient.

- Reprocess and sterilise the medical device properly before the next use.

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7 Reprocessing steps in accordance with ISO 17664

7.1 Preparations at the site of use



⚠ WARNING

Hazard from incorrectly reconditioned products.

An infection hazard exists from contaminated products.

- ▸ Take suitable personal protective measures.

- ▸ Remove all residual cement, composite or blood immediately.
- ▸ Reprocess the medical device as soon as possible after treatment.
- ▸ Remove the cutter or grinder from the medical device.

- ▸ The medical device must be dry when transported for reprocessing.
- ▸ Do not place it in solutions or the like.

7.2 Cleaning

NOTICE

Cleaning in the ultrasonic unit.

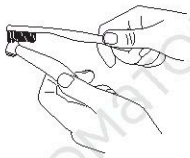
Malfunction and material damage.

- ▸ Only clean manually or in the heat disinfector.

7.2.1 Manual cleaning - external

Required accessories:

- Tap water 30°C ± 5°C (86°F ± 10°F)



- Brush such as a medium hard toothbrush

- ▸ Brush off under flowing tap water.

7.2.2 Automated external cleaning



KaVo recommends washer disinfectors in compliance with ISO 15883-1, which are operated using alkaline cleaning agents.

- ▸ For program settings as well as cleansers and disinfectants to be used, please refer to the Instructions for Use of the thermodisinfector.

- ▸ Directly after automated cleaning/disinfection, treat the medical device with the KaVo care products and systems provided by KaVo.

7.2.3 Manual cleaning - internal

Not applicable.

This product is suitable for automated cleaning only.

7.2.4 Automated internal cleaning



KaVo recommends washer disinfectors in compliance with ISO 15883-1, which are operated using alkaline cleaning agents.

- ▸ For program settings as well as cleansers and disinfectants to be used, please refer to the Instructions for Use of the thermodisinfector (complying with max. pH value of 10).

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- In order to prevent damage to medical device due to residual fluid, make sure that the inside and outside of the device is dry after the end of the cycle. Remove the residual fluid from the inside and outside using compressed air.
- Immediately after drying, lubricate the medical device immediately with care agents from the KaVo care system.

The drying procedure is normally part of the cleaning program of the thermodisinfector.

Note

Please observe the instructions for use of the thermodisinfector.

7.3 Disinfection

⚠ WARNING

Incomplete disinfection.

Infection hazard.

- Principally, KaVo recommends carrying out an final disinfection of the unpackaged item to guarantee the complete disinfection.

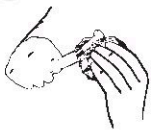
NOTICE

Using the disinfectant bath or disinfectants containing chlorine.

Malfunction and material damage.

- Only disinfect in a heat disinfector or manually.

7.3.1 Manual disinfection - external



KaVo recommends the following products based on compatibility of the materials. The microbiological efficacy must be ensured by the disinfectant manufacturer and proven by an expert opinion.

- CaviCide made by Metrex

Consumables required:

Cloths for wiping off the medical device.

- Spray the disinfectant on a cloth, then thoroughly wipe down the medical device and leave the disinfectant to soak in according to the instructions from the disinfectant manufacturer.
- Follow the instructions for use of the disinfectant.

7.3.2 Manual disinfection - internal

Not applicable.

This product is suitable for automated disinfection only.

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7.3.3 Machine disinfection - external and internal

KaVo recommends washer disinfectors in compliance with ISO 15883-1, which are operated using alkaline cleaning agents.

- For program settings as well as cleansers and disinfectants to be used, please refer to the Instructions for Use of the thermodisinfector (complying with max. pH value of 10).
- In order to prevent damage to medical device due to residual fluid, make sure that the inside and outside of the device is dry after the end of the cycle. Remove the residual fluid from the inside and outside using compressed air.
- Immediately after drying, lubricate the medical device immediately with care agents from the KaVo care system.

The drying procedure is normally part of the cleaning program of the thermodisinfector.

Note

Please observe the instructions for use of the thermodisinfector.

7.4 Care products and systems - Servicing

⚠ WARNING

Sharp cutters or grinders in the medical device.

Risk of injury from sharp and/or pointed cutters or grinders.

- Remove cutter or grinder.

NOTICE

Improper service and care.

Premature wear and reduced product service life.

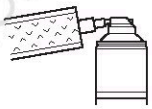
- Regularly perform proper care.

Note

KaVo only guarantees that its products will function properly when the care products are used that are listed as accessories since they were tested for proper use on our products.

7.4.1 Servicing with KaVo Spray

KaVo recommends servicing the product as part of the reprocessing after each use, i.e. after each cleaning, disinfection, and before each sterilisation.



- Remove the cutter or grinder.
- Cover the product with the Cleanpac bag.
- Plug the product onto the cannula, and press the spray button for one second.

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Care of clamping chuck

KaVo recommends cleaning and servicing the chuck system once a week.

- Remove the cutter or grinder, place the spray nipple tip in the opening and spray.
- Carry out the servicing according to the instructions in the section, "Care with KaVo Spray".

7.4.2 Servicing with KaVo QUATTROcare 2104 / 2104A



Note

QUATTROcare 2104 / 2104 A is no longer included in the current delivery programme.

Follow-up product:

- QUATTROcare PLUS 2124 A

Servicing and cleaning device with expansion pressure for the interior cleaning of inorganic residues and optimum care.

(no validated cleaning of the interior in accordance with German RKI requirements)



KaVo recommends servicing the product as part of the reprocessing after each use, i.e. after each cleaning, disinfection, and before each sterilisation.

- Remove the cutter or grinder.
- Servicing the product.

See also:

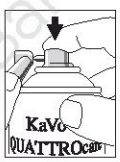
Instructions for use KaVo QUATTROcare 2104 / 2104A

Servicing the clamping chuck

KaVo recommends cleaning and servicing the chuck system once a week.

See also:

Instructions for use KaVo QUATTROcare 2104 / 2104A



- Remove the cutter or grinder, place the spray nipple tip in the opening and spray.
- Subsequently treat with the specified care products and systems.

See also:

Servicing with KaVo QUATTROcare 2104 / 2104A

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7.4.3 Servicing with KaVo QUATTROcare PLUS 2124 A

Servicing and cleaning device with expansion pressure for the interior cleaning of inorganic residues and optimum care.

(no validated cleaning of the interior in accordance with German RKI requirements)



- Remove the cutter or grinder.

- Servicing the product in the QUATTROcare PLUS.

See also:
Instructions for Use KaVo QUATTROcare PLUS 2124 A

Servicing of the clamping chuck

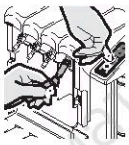
KaVo recommends cleaning and servicing the chuck system once a week using the collet servicing program integrated in the device.

See also:
Instructions for Use KaVo QUATTROcare PLUS 2124 A

Note

Handpieces must be taken off the service couplings before the chuck service can be started and performed.

- Remove the service coupling chuck from the side hatch of the QUATTROcare PLUS and attach it to coupling service point four, on the far right. A MULTIflex adaptor must be mounted there.



- Press the handpiece together with the guide bush of the chuck to be serviced against the tip of the service coupling.

- Press the button marked with the chuck service symbol.

Note

Close the chuck service mode.

Option 1: Place the dental handpieces in the QUATTROcare PLUS 2124 A, close the front door and start theservice procedure.

Option 2: After three minutes with no service procedure running, the device automatically switches back to normal service mode.

See also:
Servicing with KaVo QUATTROcare PLUS

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7.5 Packaging

Note

The sterilisation bag must be large enough for the handpiece so that the bag is not stretched.

The quality and use of the sterilisation packaging must satisfy applicable standards and be suitable for the sterilisation procedure!

- ▸ Individually seal the medical device in the sterilised item packaging.

7.6 Sterilisation
Sterilisation in a steam steriliser (autoclave) in accordance with ISO 17665-1

NOTICE

Improper service and care.

Premature wear and reduced product service life.

- ▸ Before each sterilisation cycle, service the medical device with KaVo care products.

NOTICE

Contact corrosion due to moisture.

Damage to product.

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



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

Select a suitable procedure (depending on the available autoclave) from the following sterilisation processes:

- Autoclave with pre-vacuum:
  - at least 3 minutes at 134 °C -1 °C / +4 °C (273 °F -1.6 °F / +7.4 °F)

- Drying time: 16 min.
- Autoclave using the gravity method:
  - at least 10 minutes at 134 °C -1 °C / +4 °C (273 °F -1.6 °F / +7.4 °F)
- Drying time: 30 min.
- ▸ Use according to the manufacturer's Instructions for Use.

7.7 Storage

Prepared products must be stored, protected from germs (as far as possible) and dust, in a dry, dark, cool room.

Note

Comply with the expiry date of the sterilised items.

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8 Tools and consumables

Available from dental suppliers.

Material summary	Mat. No.
Spare turbine without key	3.001.9915
Key for cover	1.008.6133
Replacement filter	1.002.0271
Wrench for water filter	1.002.0321
Instrument stand 2151	0.411.9501
Nozzle pin	0.410.0921
Cleanpac 10 units	0.411.9691
Yoshida spray head	1.005.8289

Only for the USA

Material summary	Mat. no.
KaVo Spray America 2113 A	0.411.9660
QUATTROcare plus Spray America 2141 P	1.005.4524

9 Terms and conditions of warranty

The following warranty conditions apply to this KaVo medical device:

KaVo provides the end customer with a warranty of proper function and guarantees zero defects in respect of material and processing for a period of 24 months from the date of the invoice, subject to the following conditions:

In case of justified complaints, KaVo will honour its warranty with a free replacement or repair. Other claims of any nature whatsoever, in particular with respect to compensation, are excluded. In the event of default, gross negligence or intent, this shall only apply in the absence of mandatory legal regulations to the contrary.

KaVo shall not be liable for defects and their consequences that have arisen or may arise from natural wear, improper handling, cleaning or maintenance, non-compliance with operating, maintenance or connection instructions, calcination or corrosion, contaminated air or water supplies or chemi-

cal or electrical factors deemed abnormal or impermissible in accordance with KaVo's instructions for use or other manufacturer's instructions. The warranty granted does not usually extend to lamps, light conductors made of glass and glass fibres, glassware, rubber parts, and the colourfastness of plastic parts.

All liability is excluded if defects or their consequences originate from manipulations or changes to the product made by the customer or a third party that is not authorised by KaVo.

Warranty claims will only be accepted if the product is submitted along with proof of purchase in the form of a copy of the invoice or note of delivery. The dealer, purchase date, type, and serial number must be clearly evident from this document.

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