Instructions for use

PROPHYflex 4

KAVO
Dental Excellence
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<td>31</td>
</tr>
</tbody>
</table>
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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KaVo Technical Service

If you have any questions or complaints, please contact the KaVo Technical Service:
+49 (0) 7351 56-1000
service.instrumente@kavokerr.com

KaVo Repair Service

For repairs, please contact your local dealer or the KaVo Repair Service directly:
+49 (0) 7351 56-1900
service.reparatur@kavokerr.com

Target group

This document is intended for dentists and their assistants. The startup section is also intended for service technicians.

General marks and symbols

| ![Warning] | Refer to the chapter on Safety/Warning symbol |
| ![Information] | Important information for users and service technicians |
| ![Action request] | Action request |
| ![CE mark] | CE mark (European Community). A product bearing this mark meets the requirements of the applicable EC directive. |
| ![Steam sterilisation] | Can be steam-sterilised at 134 °C -1 °C / +4 °C (273 °F -1.6 °F / +7.4 °F) |
| ![Thermodisinfectable] | Thermodisinfectable |

Information on the packaging

| REF | Material number |
| SN | Serial number |
| ![Legal Manufacturer] | Legal Manufacturer |
| ![CE mark] | CE mark according to Medical Devices Directive EC 93/42 |
1 User instructions

Please note the electronic instructions for use

Note: observe accompanying documents

EAC conformity mark (Eurasian Conformity)

GOST R certification

Transportation and storage conditions (Temperature range)

Transportation and storage conditions (Air pressure)

Transportation and storage conditions (Humidity)

Protect from moisture

Protect from impact

HIBC Code

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 – directly 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 carefully prior to use and be accessible at all times. The device may only be used in accordance with the intended 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 initial startup and after each use, reprocess the product and accessories appropriately.
▶ Carry out the reprocessing as described in the instructions for use. The procedure has been validated by the manufacturer.
▶ If you deviate from this procedure, it is essential to make sure that the reprocessing is effective.
▶ Reprocess the product and accessories appropriately before disposal.
▶ In the case of injury to soft tissue, do not continue treatment in the oral cavity with compressed air-driven instruments.

2.2 Air embolism and skin emphysema

There is a danger that the insufflation of spray can cause air embolisms and skin emphysema.

▶ Avoid the insufflation of spray in open wounds.

The improper use of the product might lead to emphysema. Emphysema may arise in extreme individual cases, especially in the presence of pathological gingival pockets (> 3 mm), mucosal lesions, direct skin contact or contact with soft tissue and/or improper handling.

▶ The powder jet device must be used as briefly as possible.
▶ The PROPHYflex perio tip may be re-used for up to 10 times.
▶ After the treatment, unscrew the empty powder container and rinse the PROPHYFLEX perio tip with air and water for approx. 10 seconds.
▶ For safety reasons, the torque wrench should be placed on the perio tip as protection against injuries when the is PROPHYflex in the holder.
2.3 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.
▶ Have parts with sites of breakage or surface changes checked by the Service.
▶ If you notice any of the following defects on the product or accessories, stop working and have the service personnel carry out repair work.

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

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

2.5 Qualification of personnel

Application of the product by users without the appropriate medical training could injure the patients, the users or third parties.
▶ Make sure that the user has read and understood the instructions for use.
▶ Only employ the device if the user has the appropriate medical training.
▶ Observe national and regional regulations.

2.6 Application

The use of the product might lead to discoloration of the teeth. Following the treatment, the teeth are absolutely clean and all of the dental pellicle (cuticula dentis) is removed. The dental pellicle is restored only some 2 to 3 hours later due to the protein content of saliva. During this time, the teeth are not naturally protected from discoloration.
▶ Tell your patients not to smoke, drink tea or coffee and not to consume any other discolouring foods for 2 to 3 hours after treatment.
2.7 Service and repair

Repairs and servicing 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 according to the Medical Product Operator Ordinance.
- 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.

Cleansers and disinfectants that have not been approved can damage the plastic housing leading to hairline cracks and other damage which can ultimately lead to hazards.

2.8 Protective equipment

PROPHYflex Powder and other powders may get in the eyes or mouth of the user or patient during treatment.

- Both patient and user have to wear protective goggles during the treatment.
- KaVo recommends the use of dust extraction equipment and mouth protection during the treatment with PROPHYflex.
3 Product description

PROPHYflex 4 Wave (Mat. no. 3.002.8000)
PROPHYflex 4 Lime (Mat. no. 3.002.8200)
PROPHYflex 4 Flamingo (Mat. no. 3.002.8800)
PROPHYflex 4 S Wave (Mat. no. 3.004.5900)
PROPHYflex 4 S Lime (Mat. no. 3.004.5930)
PROPHYflex 4 S Flamingo (Mat. no. 3.004.5950)

3.1 Purpose – Intended use

Indications for use:

This medical device is
- intended for dental treatment only. All other types of use or modifications of the product are not permitted and can be hazardous. The medical device is intended for the following applications: Removal of discolouration and bacterial plaque, orthodontics, cleaning prior to fissure sealing, prosthetics, conservative and aesthetic dentistry. Please refer also to the Instructions for Use.
- A medical device according to relevant national statutory regulations.

Proper use:

According to these provisions, this medical device may only be used for the described application by a properly trained 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:
- to only use equipment that is operating correctly,
• adhere to the specified intended use
• to protect him or herself, the patient and third parties from hazards, and
• to prevent contamination from the product

### 3.2 Technical data

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Drive pressure</strong></td>
<td>3.2 - 5 bar (46 - 73 psi)</td>
</tr>
<tr>
<td><strong>Air consumption</strong></td>
<td>10 - 13 Nl/min</td>
</tr>
<tr>
<td><strong>Water pressure</strong></td>
<td>1.0 - 2.5 bar (15 - 36 psi)</td>
</tr>
<tr>
<td><strong>Spray water flow</strong></td>
<td>approx. 35 - 80 cm³</td>
</tr>
<tr>
<td><strong>Spray air pressure</strong></td>
<td>1.0 - 2.5 bar (15 - 36 psi)</td>
</tr>
</tbody>
</table>

Attachable to all MULTIflex (LUX) / MULTIflex LED couplings.
### 3.3 Scope of delivery

The set consists of:

<table>
<thead>
<tr>
<th>No./ Item no.</th>
<th>Description</th>
<th>Mat.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 x ①</td>
<td>PROPHYflex 4 with:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Long gripping sleeve</td>
<td>3.003.0520</td>
</tr>
<tr>
<td></td>
<td>Cannula</td>
<td>3.003.1138</td>
</tr>
<tr>
<td></td>
<td>Powder container</td>
<td>3.002.8136</td>
</tr>
<tr>
<td>1 x ②</td>
<td>Short gripping sleeve</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cannula</td>
<td>3.003.2607</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3.003.1138</td>
</tr>
<tr>
<td>1 x ③</td>
<td>Powder container ⑤</td>
<td>3.002.8136</td>
</tr>
<tr>
<td></td>
<td>Rubber cover supra ④</td>
<td>3.004.4708</td>
</tr>
<tr>
<td>1 x ⑥</td>
<td>Cleaning drill</td>
<td>0.573.0321</td>
</tr>
<tr>
<td>1 x ⑦</td>
<td>Nozzle pin</td>
<td>0.573.6052</td>
</tr>
<tr>
<td>1 x ⑧</td>
<td>Wrench for cannula</td>
<td>3.004.6351</td>
</tr>
<tr>
<td>1 x ⑨</td>
<td>O-rings for powder container and coupling interface to the gripping sleeve</td>
<td>can be ordered individually</td>
</tr>
</tbody>
</table>

See also:

- 8 Tools and consumables, Page 29
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).

<table>
<thead>
<tr>
<th>Condition</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>-20°C to +70°C (-4°F to +158°F)</td>
</tr>
<tr>
<td>Relative humidity</td>
<td>5% RH to 85% RH absence of condensation</td>
</tr>
<tr>
<td>Air pressure</td>
<td>700 hPa to 1060 hPa (10 psi to 15 psi)</td>
</tr>
<tr>
<td>Protect from moisture</td>
<td>-</td>
</tr>
</tbody>
</table>
4 Start up and shut down

**WARNING**

**Hazard from non-sterile products.**
Infection hazard for dentist and patient.
▷ Before first use and after each use, prepare and sterilise the medical device and accessories appropriately.

**WARNING**

**Dispose of the product in appropriate manner.**
Infection hazard.
▷ Before disposal, reprocess and sterilise the product and accessories appropriately.

**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 EN ISO 7494-2.

4.1 Installing the MULTIflex coupling

**WARNING**

**Detachment of the medical device during treatment.**
A medical device that is not properly locked can release from the MULTIflex coupling during treatment.
▷ Before each use, check if the medical device is securely locked onto the MULTIflex coupling.
▷ Screw the MULTIflex coupling onto the turbine hose.

▷ Open the water supply all the way using the spray ring on the MULTIflex coupling.

4.2 Check the O-rings (MULTIflex)

**NOTICE**

**Missing or damaged O-rings.**
Malfunction and premature failure.
▷ Make sure that all O-rings are on the coupling and are undamaged.

Number of available O-rings: 5
5 Operation

Note
At the beginning of each workday, the water-conducting systems should be rinsed for at least 2 minutes (without transmission handpieces being attached) and if there is a risk of contamination from reflux or back suction, the system may also need to be rinsed for 20 to 30 seconds after each patient.

5.1 Attaching the medical device

⚠️ WARNING
Detachment of the medical device during treatment.
A medical device that is not properly locked can release from the MULTIflex coupling during treatment.
- Before each use, check if the medical device is securely locked onto the MULTIflex 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.
- Check if the medical device is securely seated on the coupling by pulling on it.

5.2 Remove the medical device
- Grasping the coupling, twist the medical device slightly and pull it off.

5.3 Filling the powder container

⚠️ CAUTION
Open powder container.
Infection hazard from contaminated powder.
- Only use original KaVo powder.
- Reprocess and refill the powder container before each patient.
- Comply with the safety data sheets for KaVo powders.
- Safety data sheets are available for inspection at www.kavo.com, "Safety data sheets".
5.3 Filling the powder container

▶ Unscrew the powder container anticlockwise.

▶ Before filling the powder container, shake the powder in the refilling bag well.
▶ Fill the powder container up to the marking.

▶ Keep the powder container closed by the rubber cover until the powder is used on the patient.
▶ Remove the rubber cover before use.
▶ To screw-on the powder container and to tighten it keep the container upright and turn to the right.

Adjusting the powder volume

The powder quantity can be controlled at 3 levels using the adjusting ring:

▪ The highest level is suitable for supragingival treatment and offers full cleaning power
▪ The medium level is suitable for sub- and supragingival treatment and enables gentle cleaning at a reduced powder quantity
▪ The lowest level helps rinsing the powder off the tooth and blowing the powder from the system after the treatment; it is nearly free of powder
5.4 Mounting the gripping sleeve

The gripping sleeve is available in two different lengths.

- Long gripping sleeve: 3.003.0520
- Short gripping sleeve: 3.003.2607
  ▶ Mount the ergonomically fitting gripping sleeve on the instrument without tilting it.

5.5 Screwing-in the cannula

![CAUTION]

Cannula falls off during the treatment.
Detachment of the cannula is a hazard for patient and user.
Visual inspection after each time the cannula is inserted with the wrench for the cannula.
Before commencing the treatment, check that there is no gap between the cannula and the gripping sleeve.

▶ Insert the cannula in the gripping sleeve with the wrench for the cannula and screw it in clockwise while holding on to the gripping sleeve.

5.6 Unscrewing the cannula

▶ Unscrew the cannula in counterclockwise direction using the wrench for the cannula.
5.7 Instructions for use for PROPHYflex Powder, PROPHYpearls®, PROPHYflex Perio Powder

<table>
<thead>
<tr>
<th>PROPHYflex powder</th>
<th>PROPHYpearls®</th>
<th>PROPHYflex Perio Powder</th>
</tr>
</thead>
<tbody>
<tr>
<td>When:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Conservative and aesthetic dentistry</td>
<td>- Subgingival treatment</td>
</tr>
<tr>
<td></td>
<td>- Cleaning of tooth surfaces</td>
<td>- Removal of periodontal biofilm</td>
</tr>
<tr>
<td></td>
<td>- Removal of stains and plaque</td>
<td>- For follow-up treatment after the initial use in periodontal therapy</td>
</tr>
<tr>
<td></td>
<td>- Orthodontics and prosthetics (pre- and after-treatment of adhesive surfaces)</td>
<td>- Preservation of dental implants (including titanium polish)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PROPHYflex powder</th>
<th>PROPHYpearls®</th>
<th>PROPHYflex Perio Powder</th>
</tr>
</thead>
<tbody>
<tr>
<td>from red to white working</td>
<td>from red to white working</td>
<td>any direction of work</td>
</tr>
<tr>
<td>water-soluble</td>
<td>slightly water-soluble</td>
<td>water-soluble</td>
</tr>
</tbody>
</table>

**NOTICE**

Do not run the instrument with RONDOflex powder. Defects on the PROPHYflex.

**See also:**
- Instructions for use PROPHYflex powder, PROPHYpearls®, PROPHYflex Perio Powder
6 Troubleshooting

Preventive measures

▶ After each treatment and before each sterilisation, unscrew the powder container in an anticlockwise direction and replace it with a clean powder container.
▶ Mount the PROPHYflex on the MULTIflex coupling and blow through the air and water channels.
▶ Switch the water off and blow through the air and water channels again.

6.1 Cleaning a blocked cannula

▶ Unscrew the cannula in anticlockwise direction using the wrench.

▶ Slide the nozzle needle into the cannula from the front while rotating it.

▶ Then slide the nozzle needle into the cannula from the back while rotating it.

▶ Then remove the nozzle needle, and blow out the cannula with compressed air.
6.2 Cleaning a clogged main body

▶ Pulling off the grip sleeve with cannula.

▶ Unscrew the powder container anticlockwise.

▶ Push the nozzle needle through the aperture of the nozzle.

▶ Use the cleaning drill to clean or remove obstructions from the media tube.

▶ Then blow through with compressed air.

If the clogging persists:
▶ Use the wrench for cannula to unscrew the nozzle by placing the lateral recess of the wrench on the nozzle and unscrewing the nozzle.
6 Troubleshooting | 6.2 Cleaning a clogged main body

▶ Use the cleaning drill to clean or remove obstructions from the media tube from the front and the back.

▶ Tighten the nozzle with the wrench again.

▶ Blow compressed air through.
7 Reprocessing steps in accordance with ISO 17664

7.1 Preparation at the site of use

**WARNING**

Hazard from contaminated products.  
Contaminated products are associated with an infection hazard.  
- Take suitable personal protective measures.
- Reprocess the medical device as soon as possible after treatment.
- The medical device must be dry when transported to reprocessing.
- To minimise the risk of infection during reprocessing, always wear protective gloves.
- Remove all residual cement, composite or blood immediately.
- Do not place in solutions or similar substance.

7.2 Disassembly

**WARNING**

Incomplete reprocessing.  
Infection hazard.  
- To ensure complete reprocessing of all parts, the medical device needs to be disassembled before reprocessing.

- Unscrew the powder container.
- Pull the gripping sleeve off.
- Remove the cannula from the gripping sleeve.

7.3 Manual Reprocessing

**NOTICE**

Never reprocess this medical device in an ultrasonic device.  
Malfunction and material damage.  
- Clean manually or in a washer disinfector only.

7.3.1 Manual external cleaning

Accessories required:
- Tap water 30 °C ± 2 °C (86 °F ± 4 °F)
- Brush, e.g. medium-hard toothbrush
- Brush off under flowing tap water.
7.3.2 Manual internal cleaning

Manual internal cleaning of the PROPHYflex 4 is not applicable. For effective reprocessing, the inside of the device must be subjected to automated cleaning in a cleaning and disinfection unit in accordance with ISO 15883-1.

7.3.3 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.

**NOTICE**

Never disinfect the handpiece with chloride-containing products. Malfunction and material damage.
- Only disinfect in a washer disinfector or manually.

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.

Approved disinfectants:
- Mikrozid AF made by Schülke & Mayr (liquid or cloths)
- FD 322 made by Dürr
- CaviCide made by Metrex

Consumables required:
- 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.

7.3.4 Manual internal disinfection

Manual internal disinfection of the PROPHYflex 4 is not applicable. For effective reprocessing, the inside of the device must be subjected to automated cleaning in a cleaning and disinfection unit in accordance with ISO 15883-1.

7.3.5 Manual drying

Manual drying of the PROPHYflex 4 is not applicable. For effective reprocessing, the inside of the device must be subjected to automated cleaning in a cleaning and disinfection unit in accordance with ISO 15883-1.
7.4 Automated reprocessing

**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.

**NOTICE**

Never disinfect the handpiece with chloride-containing products.
Malfunction and material damage.

- Only disinfect in a washer disinfector or manually.

**NOTICE**

Never reprocess this medical device in an ultrasonic device.
Malfunction and material damage.

- Clean manually or in a washer disinfector only.
7.4.1 Overview of the reprocessing options

<table>
<thead>
<tr>
<th></th>
<th>Pre-cleaning</th>
<th>Automated external cleaning</th>
<th>Automated internal cleaning</th>
<th>Automated internal and external disinfection</th>
<th>Sterilisation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main body</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Gripping sleeve</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Cannula / Adapter + Perio Tip</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Gripping sleeve and cannula / Adapter + Perio Tip</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Powder container</td>
<td>✓</td>
<td>✓</td>
<td>not applicable</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Cover for powder container</td>
<td>✓</td>
<td>✓</td>
<td>not applicable</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Wrench for cannulas</td>
<td>✓</td>
<td>✓</td>
<td>not applicable</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

✓ possible

**Note**

Adapters are needed for automated cleaning.
Order adapter separately.

See also:

8 Tools and consumables, Page 29
7.4.2 Pre-cleaning

Accessories required:

- Tap water 30 °C ± 2 °C (86 °F ± 4 °F)
- Brush, e.g. medium-hard toothbrush
  - Disassemble the instrument completely.
  - Brush off all individual parts under running tap water.

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

<table>
<thead>
<tr>
<th>Miele Series G 7881/7891</th>
<th>Main body</th>
<th>required material:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Cleaning cover PROPHYflex 4 (3.004.6658)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Reprocessing with Miele AUF Adapter</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Gripping sleeve</th>
<th>required material:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Cleaning in Miele sieve basket</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cannula / Adapter + Perio Tip</th>
<th>required material:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Cleaning adapter PROPHYflex 4 long (3.004.6640)</td>
</tr>
<tr>
<td></td>
<td>Reprocessing with Miele AUF Adapter</td>
</tr>
</tbody>
</table>

| Gripping sleeve and cannula / Adapter + Perio Tip | Reprocessing with Miele AUF Adapter |

<table>
<thead>
<tr>
<th>Powder container</th>
<th>required material:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Reprocessing in Miele sieve basket</td>
</tr>
</tbody>
</table>
7.4.4 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 11. The validation was conducted with a Miele washer disinfector using the "VARIO-TD" programme, the "neodisher® mediclean forte" cleaning agent, the neodisher® Z" neutralisation agent and the "neodisher® mielclear" rinsing agent.

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

7.4.5 Automated drying

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

Note
Please observe the instructions for use of the thermodisinfector.

▶ 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.

7.5 Care products and systems - Servicing

NOTICE
Improper care.
Malfunction or property damage.
▶ Do not clean the PROPHYflex with oils or care spray.

7.6 Packaging

Note
The sterilisation bag must be large enough for the instrument so that the bag is not stretched.
The quality and use of the sterilisation packaging must comply with applicable standards and be suitable for the sterilisation procedure!

▶ The medical device must be packed before sterilisation.

<table>
<thead>
<tr>
<th>Miele Series G 7881/7891</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cover for powder container</strong></td>
</tr>
<tr>
<td><strong>Wrench for cannulas</strong></td>
</tr>
</tbody>
</table>
7.7 Sterilisation

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

**NOTICE**

**Contact corrosion due to moisture.**
Damage to product.
- Immediately remove the product from the steam steriliser after the sterilisation cycle.

**Note**
Prior to attaching the powder container, all powder-conducting parts and air channels must be absolutely dry. Screw together the powder container and handpiece only in the cold state.

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

Select a suitable procedure (depending on the available autoclave) from the following sterilisation processes:
- Steriliser with triple pre-vacuum:
  - at least 3 minutes at 134 °C -1 °C / +4 °C (273 °F -1.6 °F / +7.4 °F)
- Steriliser using the gravity method:
  - at least 10 minutes at 134 °C -1 °C / +4 °C (273 °F -1.6 °F / +7.4 °F) or alternatively
  - at least 60 minutes at 121 °C -1 °C / +4 °C (250 °F -1.6 °F / +7.4 °F)
- Use according to the manufacturer's Instructions for Use.

7.8 Storage

Reprocessed products must be stored appropriately such that they are 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.
## 8 Auxiliary equipment

Available from dental suppliers.

<table>
<thead>
<tr>
<th>Item</th>
<th>Mat. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cannula</td>
<td>3.003.1138</td>
</tr>
<tr>
<td>Powder container</td>
<td>3.002.8136</td>
</tr>
<tr>
<td>Rubber cover supragingival</td>
<td>3.004.4708</td>
</tr>
<tr>
<td>Rubber cover subgingival</td>
<td>3.004.4709</td>
</tr>
<tr>
<td>Cleaning drill</td>
<td>0.573.0321</td>
</tr>
<tr>
<td>Nozzle pin</td>
<td>0.573.6052</td>
</tr>
<tr>
<td>Nozzle</td>
<td>3.004.2324</td>
</tr>
<tr>
<td>Long gripping sleeve</td>
<td>3.003.0520</td>
</tr>
<tr>
<td>Short gripping sleeve</td>
<td>3.003.2607</td>
</tr>
<tr>
<td>Cleaning adapter PROPHYflex 4 long</td>
<td>3.004.6640</td>
</tr>
<tr>
<td>Cleaning cover PROPHYflex 4</td>
<td>3.004.6658</td>
</tr>
<tr>
<td>Cleaning adapter PROPHYflex 4</td>
<td>3.004.8509</td>
</tr>
<tr>
<td>Cleaning adapter PROPHYflex 4 S</td>
<td>3.004.8523</td>
</tr>
<tr>
<td>PROPHYflex 4 Perio Kit</td>
<td>1.011.9403</td>
</tr>
<tr>
<td>O-ring for powder container</td>
<td>3.003.0608</td>
</tr>
<tr>
<td>O ring for coupling interface to gripping sleeve, rear</td>
<td>1.004.2776</td>
</tr>
<tr>
<td>O ring for coupling interface to gripping sleeve, front, and cannula</td>
<td>0.200.6084</td>
</tr>
</tbody>
</table>
## Instructions for use PROPHYflex 4

### 8 Auxiliary equipment

<table>
<thead>
<tr>
<th>Product Description</th>
<th>Material Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROPHYflex Powder orange, Pack of 80 sticks</td>
<td>Mat. no. 1.007.0014</td>
</tr>
<tr>
<td>PROPHYflex Powder, berry, Pack of 80 sticks</td>
<td>Mat. no. 1.007.0015</td>
</tr>
<tr>
<td>PROPHYflex Powder, cherry, Pack of 80 sticks</td>
<td>Mat. no. 1.007.0016</td>
</tr>
<tr>
<td>PROPHYflex Powder, mint, Pack of 80 sticks</td>
<td>Mat. no. 1.007.0017</td>
</tr>
<tr>
<td>PROPHYpearls® neutral, Pack of 80 sticks</td>
<td>Mat. no. 1.010.1826</td>
</tr>
<tr>
<td>PROPHYpearls® mint, Pack of 80 sticks</td>
<td>Mat. no. 1.010.1828</td>
</tr>
<tr>
<td>PROPHYpearls® peach, Pack of 80 sticks</td>
<td>Mat. no. 1.010.1829</td>
</tr>
<tr>
<td>PROPHYpearls® orange, Pack of 80 sticks</td>
<td>Mat. no. 1.010.1830</td>
</tr>
<tr>
<td>PROPHYpearls® black currant, Pack of 80 sticks</td>
<td>Mat. no. 1.010.1831</td>
</tr>
<tr>
<td>PROPHYpearls® neutral, 4 bottles containing 250g each</td>
<td>Mat. no. 1.010.1798</td>
</tr>
<tr>
<td>PROPHYflex Perio Powder, 4 bottles containing 100g each</td>
<td>Mat. no. 1.009.3732</td>
</tr>
</tbody>
</table>
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 12 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 chemical 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.