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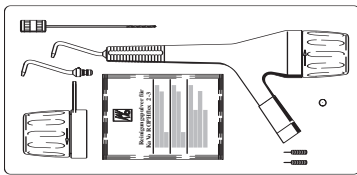
PROPHYflex 3 - 2018
 Mat.-No. 1.000.4672

INSTRUCTIONS FOR USE
 1.000.6601 - 07.03 - 5

Dear dentist:

KaVo hopes that you will benefit greatly from working with your new quality product, the **PROPHYflex 3 - 2018**.

Please observe the following notes to assure continued trouble-free, economical and safe product operation:



PROPHYflex 3 - 2018

The set comprises the following:

- 1 x PROPHYflex 3 - 2018
- 1 x cannula
- 1 x cleaning drill
- 1 x powder container
- 1 x silicone rubber cover
- 2 x nozzle pins
- 3 x PROPHY 2 - 3 powder bags
- 3 x PROPHYpeals
- 1 x P-nozzle ceramic white

Important Remarks

The PROPHYflex 3:

- only to be used by a qualified dental practitioner, in connection with the provision of dental treatment to dental patients, any other use may prove dangerous and is strictly forbidden,
- a medical product according to the applicable national provisions of law.

In conformity with these regulations, the PROPHYflex 3 may only be used by a competent person for the described application, and under consideration of:

- the valid regulations on work safety,
- the valid accident prevention measures,
- these operating instructions.

In conformity with these regulations it is the duty of the user:

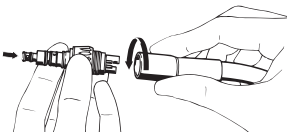
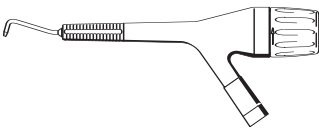
- to use only faultless tools,
- to ensure that it is used for the correct purpose,
- to protect patients and third parties from all dangers,
- to avoid any contamination by the product.



Technical Data

PROPHYflex 3 - 2018

- Drive pressure: **3.2 - 5 bar (46-72 p.s.i.)**
- Air consumption: **10 - 13 l/min**
- Water pressure: **1.5 ± 0.1 bar (21-1 p.s.i.)**
- Water volume: **approx. 40 cm³**
- Can be attached to any MULTIflex coupling



Putting Into Operation

It is imperative to provide absolutely dry, clean, uncontaminated compressed air.

Screw the MULTIflex coupling onto the turbine tube and tighten securely via the key.

-  **As the PROPHYflex 2018 does not require any light or aerospray, these functions will need to be deleted.**

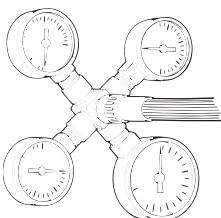
Checking the pressures with a test gauge

For operating the PROPHYflex 3 an operating pressure of **3.2 bar (46 p.s.i.)** is required. Fit test gauge between MULTIflex coupling and PROPHYflex.

Pressure readings for:

- Drive air **T.R.** = **3.2 - 5.0 bar (46-72 p.s.i.)**
- Water **W.** = **1.5 ± 0.1 bar (21-1 p.s.i.)**

Test gauge for all MULTIflex couplings,
 Mat.-No. 0.411.8731.



Checking the MULTiflex coupling

All O-rings (2 white and 3 black) must be inserted and may not be damaged.

⚠ Missing or damaged O-rings may result in premature wear and failure.

Changing the PROPHYflex

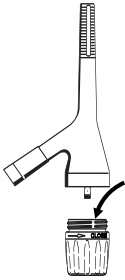
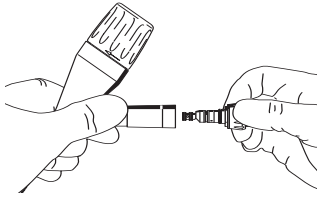
Connecting up

Press the PROPHYflex exactly onto the MULTiflex coupling and push until it clicks audibly into place.

⚠ Check for secure seating on the coupling by pulling on the PROPHYflex.

Disconnecting

Hold the MULTiflex coupling and pull the PROPHYflex forward while turning it slightly.



Filling the powder container

Unscrew the powder container anti-clockwise in relation to the direction of the arrow. Shake the powder thoroughly, prior to loading the powder reservoir. 1 bag is sufficient for one filling. Screw the powder container on vertically and in a clockwise direction in relation to the direction of the arrow. Tighten.

⚠ Please seal the powder reservoir with the silicon rubber cover, when not in use. Use only the original KaVo PROPHY 2 - 3 powder.

Inserting/extracting the cannula

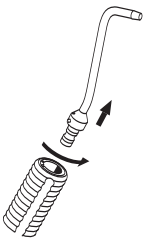
Inserting

Insert the cannula into the handpiece, and twist it clockwise against the direction of the arrow as far as the stop.

⚠ The markings must line up on top of one another as otherwise the cannula may become detached. Prior to each treatment, give the cannula a pull to check that it is firmly in place.

Detaching

Twist the cannula to the left in the direction of the arrow as far as the stop, then take it out.

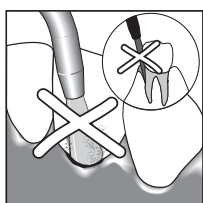
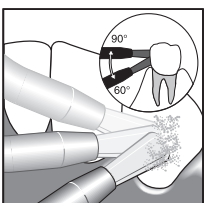
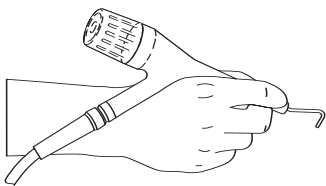


Working procedure

The front part of the instrument can be swivelled to provide the user with an optimal working position.

⚠ For safety reasons, always wear goggles (both the user and the patient).

Staining the "dental plaque" biofilm - for example with erythrosine solution - is a very efficient, striking aid for limiting treatment to just the time required locally for the visible red stain to disappear. Apply vaseline to the patient's lips to prevent the corners of his/her mouth from becoming too dry or to develop small cracks. Hold the handpiece tip at a distance of approx. 3 - 5 mm from the tooth surface.



The angle of inclination of the tip varies with the position of the teeth and the surface to be cleaned. For gentle treatment, an angle of incidence of 60° to 90° between powder jet and tooth axis should be chosen. Direct incidence of the polishing jet medium on the edge of the gingivae, exposed tooth necks and the mucous membrane should be avoided. Work from red towards white.

⚠ We also recommend the use of suctioning.

The removal performance can be adjusted in the case of appliances where a foot-operated starter permits the operational air to be adjusted.

Instruction to patients

⚠ Instruct your patients not to smoke, drink tea or coffee or consume any other foodstuffs that can cause discoloration, for 2 - 3 hours after treatment.

After completed treatment, the teeth are absolutely clean, and the cuticula dentis has been completely removed. Since the cuticula dentis will reappear only after 2 - 3 hours through the protein contained in saliva, the teeth have no natural protection against discoloration during this time.

Adjusting the powder volume

The throughflow volume of the powder can be adjusted by changing the P-nozzle 1.

P-nozzle ceramic blue = greater powder volume
P-nozzle ceramic white = smaller powder volume

Spray adjustment

The proportion of water contained in the spray can be adjusted by twisting the spray ring at the MULTIflex coupling. The water volume has a crucial effect on the cleaning efficiency and on dust development.

Small water volume = little cleaning efficiency and a lot of dust.

Large water volume = great cleaning efficiency and less dust.

Cleaning a blocked cannula

Remove the cannula.

Place the cleaning bur into one end of the handpiece, whilst rotating the tool clockwise. Repeat the process from the other end of the handpiece. Then extract the nozzle pin and blow compressed air through the cannula.

Preventive measures

After each treatment and prior to each sterilization, the powder reservoir has to be removed by unscrewing and substituted with a clean powder reservoir.

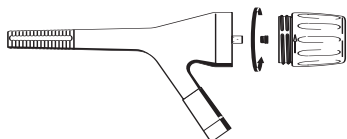
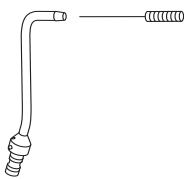
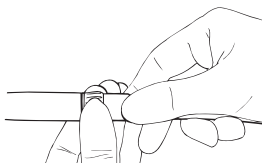
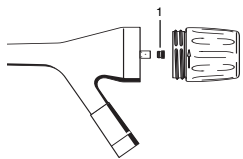
Mount PROPHYflex 3 on MULTIflex coupling and blow through the air and water channels.

The powder reservoir should be cleaned with a cloth **once per week**.

Cleaning the main body

To prevent blockages, we recommend cleaning the main body **once every week** and prior to each thermal disinfection or sterilization, resp. - Remove the cannula. By unscrewing in an anti-clockwise direction, remove the powder container.

Unscrew the P-nozzle in an anti-clockwise direction and push through the aperture with the nozzle pin. Clean the medium tube with a cleaning drill or remove obstructions. Then blow through with compressed air.



Maintenance instruction

External cleaning

The PROPHYflex 3 can be cleaned externally by using an alcohol solution.

⚠ The PROPHYflex 3 must not be lubricated with oil or with care spray. Do not place the PROPHYflex 3 and the powder container in ultrasonic cleaning units, since otherwise operating faults may occur.



Disinfection

The PROPHYflex 3 can be externally disinfected by using chemical disinfection agents (spray or wipe action disinfection).

⚠ Do not immerse the PROPHYflex 3 in a disinfection bath as this can lead to malfunctions.

Thermal disinfection

The PROPHYflex 3 can be washed in a thermodisinfectior.



Sterilization

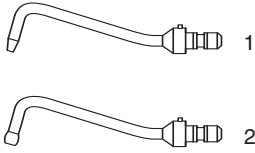
The PROPHYflex 3 can be autoclaved at temperatures of up to **135 °C (275 °F)**. It is essential to empty the powder container **before** each thermal disinfection or sterilization, to clean the container and to subject it to thermal disinfection or sterilization separately from the handpiece. At the same time, all residual powder has to be removed from the PROPHYflex 3, especially from the cannula, the tube, and the P-nozzle.

⚠ After each thermal disinfection and each sterilization cycle, the PROPHYflex 3 must be removed immediately from the unit, since otherwise there is a danger of contact corrosion.

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.

Accessories

Are supplied by your Dental Depot.



Description	Mat.-No.
Cannula 1	0.573.0151
Cannula 2	0.573.0181
O-ring cannula	0.200.6019
Powder container	0.573.6152
Silicone rubber cover	1.000.2678
Container washer	0.573.6072
PROPHYpearls 80 pcs.	1.002.0342
PROPHY 2 - 3 powder, pack of 100 units, orange flavour	0.489.0001
PROPHY 2 - 3 powder, pack of 100 units, neutral flavour	0.489.0020
Cleaning drill	0.573.0321
Nozzle pin	0.573.6052
P-nozzle ceramic blue	0.573.0412
P-nozzle ceramic white	0.573.0002

Further User and Safety Tips



If your PROPHYflex 3 with the powder container attached, or the powder container itself, accidentally drops to the floor, that powder container must no longer be used. The powder container must be subjected to a pressure test in our plant and - if necessary - replaced by a new one.

In the case of patients who are on a salt-free or salt-reduced diet the PROPHYflex 3 must not be used, the same applies in the case of patients who suffer from weak kidneys, chronic respiratory disease, or chronic diarrhea.

Patients wearing contact lenses should be advised to wear additional eye protection. We also recommend to apply a little vaseline to the patient's lips prior to the treatment.

In some extreme cases, if there are pathological periodontal pockets (larger than 3 mm), mucous membranes, or direct skin contact or other contact with skin tissue and/or incorrect handling there may be a risk of localised emphysema.

Remove any parts or products, resp., with sensitive surfaces from the area where treatment is carried out.

If the PROPHYflex 3 is not going to be used for some considerable time, it has to be cleaned externally and must be stored in a dry place. Do not carry on operating the PROPHYflex 3 in the case of malfunctions or other irregularities. To avoid further damage, please contact the KaVo After Sales Service at Biberach, or a KaVo authorised office or your Dental Depot.

In some rare cases, allergic reactions may occur because of the added orange flavour in the case of patients who suffer from a citrus-related allergy. Patients may present with an allergy, which would preclude the use of orange-flavoured PROPHY powder. For patients with a citrus allergy, the PROPHY 3 powder with a neutral flavour is available.

Do not direct the powder jet onto the gingiva, as damage to the gingiva may be caused by that. Always proceed with your work from red to white.

The time span for which the powder-blasting instrument is used should be kept to a minimum. Do not treat dentine, root cement, de-mineralized enamel, fillings, and filling edges with PROPHYflex 3 as this will have detrimental effects. We recommend that you work with mouth protection because inhaling the powder presents an unnecessary risk.

After the completed treatment with PROPHYflex 3 all tooth surfaces should be polished. At the completion of the treatment the patient should rinse his/her mouth with water.

Safety-technical check

Cleaning and disinfection agents may attack the casing made of synthetic material so that minute hairline fissures or other damage to the powder container could lead to a hazardous situation.

 For that reason, the PROPHYflex 3 must undergo a safety-technical check once every 2 years.

Send your PROPHYflex 3 to KaVo Biberach or to an inspection centre approved by KaVo.



KaVo. Dental Excellence.

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