

Biofilm-Removing (BRS) with ALPRO BRS plunger type pump

Application of the Biofilm-Removing-Set with **Alpron/Bilpron**



Field of application:

The Biofilm-Removing-Set (BRS) provides cleaning (removal of biofilm) of dental unit waterlines **before** using **Alpron/Bilpron**.

The Biofilm-Removing-Set (BRS) consists of the three individual products **BRS PreCleaner**, **BRS Remover** and **BRS Activator**.

ATTENTION: Prior to application please note safety instructions on page 2!



Preparation:

- ❖ Remove all hand pieces and contra-angles, scalers, multifunction syringes etc. **completely**, in order to prevent blockage of the water lines in these instruments by the cleaning process.

1st Step (pre-cleaning):

- ❖ Mix 1 sachet of BRS PreCleaner with 2 litres of warm water (approx. 50° C) until you get a clear **red** solution. Pump the ready for use solution via a pressure tank system or the **ALPRO reciprocating plunger type pump** with pressure (max. 2,5 bar) into the procedural waterlines (at the water inlet of the dental unit, 3/8" connection).

Attention: It is essential to remove the input filter of the dental unit before rinsing!

- ❖ For flushing the whole procedural waterlines pull the instrument tubes and press the foot switch resp. press the buttons of the tumbler filler and spittoon bowl rinsing on the key panel. Continue the flushing until the red rinsing solution comes out clear and without any residues. **Contact time of the solution: max. 15 minutes.**

2nd Step (main cleaning):

- ❖ Dissolve the contents of the sachet labelled **BRS Remover** in 2 litres of warm water, approx. 50°C - 60° C, add the total quantity of the **BRS Activator** and stir. Fill the solution (blue coloured) into the procedural waterlines as described in **1st Step**.
- ❖ As soon as the blue coloured solution **comes out of all tube ends, the tumbler filler and the spittoon bowl rinsing without any residues*** - stop the process and let it take effect.
- ❖ Allow the **BRS Remover** to take effect for **20 minutes***.

***If there are still visible residues coming out with the final flushing of the blue solution, repeat the cleaning until the corresponding remover solution comes out of the instruments, the tumbler filler and the spittoon bowl rinsing without any residues.**

3rd Step (rinsing):

- ❖ Disconnect the external pressure system (**BRS-reciprocating plunger type pump**) and restore the connection with the water supply network.

Attention: Before reconnecting the incoming waterline (town water) to the water supply network it is strongly recommended to flush it for 2 – 3 minutes (20 - 30 litres of water – via the "reinforced hose"). This prevents recontamination of the dental unit by residues from the incoming water.

- ❖ Thoroughly rinse all instrument tubes, the tumbler filler and the spittoon bowl rinsing (for 2 - 3 min. at a time) with water.

4th Step (disinfection):

- ❖ Fill the disinfectant tank of Weekend System II, BCS or external pump with **Alpron-concentrate/Bilpron**. Adjust the dental unit for intensive decontamination and start the flushing with the disinfection solution. Operate all instrument tubes until **Alpron-concentrate/Bilpron** comes out of the tube ends and the tumbler filler.
- ❖ **Let the Alpron-concentrate take effect for 60 minutes/Bilpron for 12 hours!** The best results are achieved with a contact time overnight (max. 50 hours respectively during the weekend).

Note: Only **Bilpron** is suitable for the long term disinfection/preservation (more than 4 days) of the procedural waterlines.

- ❖ After the contact time rinse with water.

5th Step adjustment of settings (rinsing out the concentrate):

(e. g. Sirona up from M1/90 – serial number 9000, E, C and Spirit series)

- ❖ For rinsing switch to normal dosage (switch position 1). Control the “jumper” on the control board (white injection bloc on 2 + 6, black injection bloc on 3 + 7). Then operate each instrument tube for 2 - 3 minutes (rinse). Press also the key for the tumbler filler approx. 5 times until clear water comes out.
- ❖ Now all waterlines have been cleaned, decontaminated and filled with the appropriate quantity of **Alpron**-concentration for the treatment of patients.

Remarks:

If **Alpron** is used (without disinfection with **Bilpron** at weekends and on holidays), we recommend carrying out an intensive decontamination after or during longer break times (e.g. during the weekend, after holiday periods) – at least, however, 4 times a year.

When **Bilpron** is used (without continuous addition), a long term disinfection (overnight, during weekend or holiday period) has to be carried out 1 - 2 times a week.

Do not use the **BRS PreCleaner** solution after the expiry date.

Important remarks regarding the various older versions of Sirona devices

- Check whether the injection valves are well-functioning.
- If PL is used you should pay attention that the O-rings are controlled at the plunger as well as at the tank, as these can easily swell from the PL and for this reason cannot supply the necessary quantity of disinfection concentrate.
- In order to avoid blockages, before the application of the Biofilm-Removing-Set the water inlet filter and surface filters have to be removed. Replace filters afterwards (before the application of **Alpron/Bilpron**).
- **Alpron/Bilpron** can be applied in all Siemens/Sirona treatment units with disinfection device (Sirona M1 up from M1/ 90 - serial number 9000, E and C). **Alpron/Bilpron** can be given into every kind of tank (dual-tank, black tank respectively white tank).
- Devices up from M1/ 90 – serial number 9000: To carry out an intensive decontamination remove the green plug from one of the control boards.

Attention: To achieve optimal results by application of BRS we recommend the usage of the ALPRO-BRS-reciprocating plunger type pump (REF 8591).

Application: **Sirona up from M1/ 90 – serial number 9000, E, C and the Spirit series**
(via the disinfectant tank)

For Sirona up from M1/90 – serial number 9000 and E

- ❖ Drain the disinfectant tank completely (we recommend the removal of the tank filter) by means of the saliva ejector. Fill the tank with **BRS PreCleaner solution** (1 sachet with warm water, max. 1,4 ltr.) and let it take effect for 1 - 5 min. Then close the tank. Remove the plastic tube with the filter integration from the injection bloc. Now press the **BRS PreCleaner solution** through the tube out of the tank by means of compressed air. Repeat the process with warm water. Now the tank is cleaned and free from residues.

For Sirona C and Spirit series:

- ❖ In case of non-pressurized systems drain the disinfectant tank and rinse with water. Remove the tube from the dosing valve and rinse with water as well.