



Quality-Water
SPECIALISTS



② Alpron & The Biofilm Removal System | User Guide



IMPORTANT INFORMATION

Health and Safety Considerations

Prior to implementing the Alpron and Biofilm Removal System please fully read the enclosed instructions.

If you have any questions about Health and Safety please speak to your internal health and safety representative.

Pay particular attention to the Material Data Safety Sheets and adherence to these are the responsibility of the practice (Health and Safety Legislation).

Staff should ensure compliance to the guidance for the use of **goggles, gloves and masks** during decontamination.

In addition the room should be well ventilated.



Alpron and BRS Introduction

This user guide has been designed to be as clear and as simple as possible to follow. Simply follow the steps as written to administer the various chemicals to the dental unit, record any relevant information and keep track of progress throughout.

If at **any** time during this process you are unsure about what the instructions are asking you to do then please call our Clinical Support Team who will be able to talk you through the Instructions on the phone. This guide is designed for units/chairs with a clean water bottle system.

Clinical Support Team
01833 630393
csd@qwsonline.co.uk

**If your unit has a built in
decontamination system please call us
for special instructions prior to use.**

**Instructions now available in video!
Search "Aura Infection Control"
on YouTube.**



Follow Aura Infection Control Online



Step 1 / Check Kit

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If you are using a **Starter Kit** or **BRS+ Kit** we recommend you perform the procedure on a Friday afternoon. This is so Bilpron has time to disinfect the tubes over the weekend.

If any items are missing call us immediately.
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01833 630393

Have you got all these items in your Starter Kit?

- ☒ **1 Ltr Alpron Concentrate.**
- ☐ **1 Packet of BRS® Remover & 1 Bottle of BRS® Activator.**
- ☐ **1 Sachet of BRS® PreCleaner (10g).**
- ☐ **1 Mixing Jug (2 Ltr), Funnel & Storage Canister (5 Ltr).**
- ☐ **1 Bottle of Bilpron (250ml).**
- ☐ **1 Bottle of BC-SAN100 (100ml).**
- ☐ **1 Red Sampler with labels.**
- ☐ **User Guide, Reference Manual and Sampler Audit Booklet.**

Or

Have you got all these items in your Clean & Clear Kit?

- ☐ **1 Packet of BRS® Remover & 1 Bottle of BRS® Activator.**
- ☐ **1 Sachet of BRS® PreCleaner (10g).**
- ☐ **1 Bottle of BC-SAN100 (100ml).**
- ☐ **1 Bottle of Bilpron (250ml)** **(Included in BRS+ Only).**
- ☐ **1 Red Sampler with labels.**
- ☐ **User Guide, Reference Manual and Sampler Audit Booklet.**



Step 2 / Surgery Preparation

Remove all instruments from the dental unit. This includes 3in1 syringes, turbines, motors, scalers and any other instrument. Also ensure that any filters in the water system are removed. If large pieces of biofilm come loose you will prevent potential blockages in the fine lumen of the instruments by following this step.

Surgery Preparation Actions

- ☐ Remove all instruments and filters.
- ☐ Turn pressure on and up for all outlets.



Are you using all your outlets?

Dead legs on dental units can harbour biofilm. When completing the BRS process all outlets must be 'on' with the water flow turned up. If any outlets don't work, are blocked or tips cannot be removed these can hinder the BRS process.



Step 3 / BRS® PreCleaner



Introduce the BRS® PreCleaner to the unit through the clean water bottle

- ☐ **Empty the BRS® PreCleaner into the mixing jug.**
- ☐ **Fill up to the 2 ltr mark with HOT tap water (at 50°C).**
Use a thermometer to ensure correct temperature. Ensure you have a water source that can reach this temperature (you may need to boil a kettle).
- ☐ **Using the funnel provided, pour the solution into the water bottle.**
Do not fill the bottle all the way to the top.
- ☐ **Operate all outlets in turn to pump the solution into the water lines.**
When you see the bright red solution coming out of the outlet, Stop.
- ☐ **Leave the solution in place for **EXACTLY** 15 Mins.**

Time after 15 min wait

- ☐ **After 15 mins flush all remaining solution through the unit, switching between outlets.**
Remember to use all of the mixed solution even if it means refilling the bottle several times.
- ☐ **As the bottle empties, continue to flush the solution through until air is purging from the outlets. Then rinse the clean water bottle.**
Continue for 30 seconds using a pulsed action on the foot control. This will ensure any loose biofilm is forced from the waterlines. Then rinse the water bottle to remove any trace of the BRS® PreCleaner.

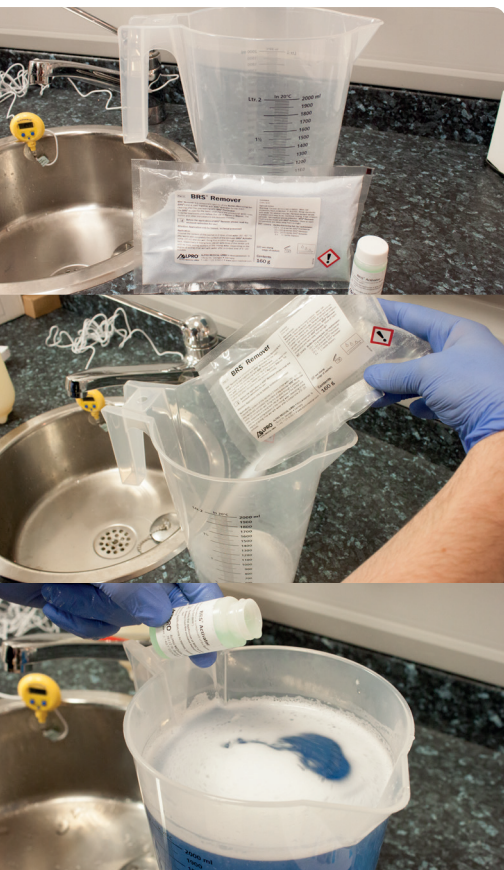
Problems? Questions?
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Step 4 / BRS® Remover 4



Introduce the BRS® Remover the same way

- ☐ **Rinse the mixing jug to remove all traces of the BRS® PreCleaner.**
- ☐ **Pour the BRS® Remover (blue powder) into the mixing jug.**
- ☐ **Fill up to the 2 Ltr mark with HOT water. (50 - 60°C).**
Use a thermometer to ensure correct temperature. Again ensure your water source can reach this temperature.
- ☐ **Mix to ensure the crystals fully dissolve.**
- ☐ **Add the BRS® Activator (small green solution) and fully mix again.**
- ☐ **Using the funnel fill up the water bottle with the mixed blue solution.**
- ☐ **Operate all outlets in turn to pump the solution into the water lines.**
When you see the bright blue solution coming out of the outlet, Stop.
- ☐ **Leave the solution in place for **EXACTLY** 20 Mins.**

Time after 20 min wait

- ☐ **After 20 mins flush all remaining solution through the unit, switching between outlets.**
Remember to use all of the mixed solution even if it means refilling the bottle several times.
- ☐ **As the bottle empties, continue to flush the solution through until air is purging from the outlets. Rinse water bottle.**
Continue for 30 seconds using a pulsed action on the foot control. This will ensure any loose biofilm is forced from the waterlines. Once again, rinse the water bottle.

Problems? Questions?
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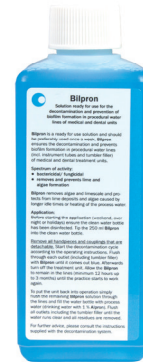


Optional Step - Using Bilpron

The following instructions are for both an intensive DUWL disinfection using Bilpron as well as the holding procedure. Bilpron 250ml is supplied only with the Starter Kit and BRS + Kit. If you have a standard BRS kit, skip to step 5. We recommend doing this procedure on a Friday afternoon so Bilpron can intensively disinfect the tubes over the weekend.

Bilpron intensive disinfection & mothballing

- ☐ **After using the BRS Kit empty the clean water bottle & rinse with tap or distilled water. Then refill with 250ml of NEAT Bilpron.**
- ☐ **Re-fit the water bottle to the unit.**
- ☐ **Flush a small amount of Bilpron through each outlet.**
You will see the **Blue** coloured Bilpron coming through each of the outlets.
- ☐ **Make sure Bilpron is in all the outlets.**
- ☐ **Leave in Situ over the weekend, if performing an intensive clean. Or leave in for up to 3 months if you are holding the chair.**



Chairs treated with Bilpron MUST NOT be used for treatment of patients until the final procedure (Step 6). Use the LABELS PROVIDED to mark the chair as being treated with Bilpron.

Optional Step - Removing Bilpron

This step is to be performed on the Monday morning after an intensive clean. Alternatively perform this step when you wish to recommission the chair after holding it for an extended period.

Problems? Questions?
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Recommissioning the Chair for use

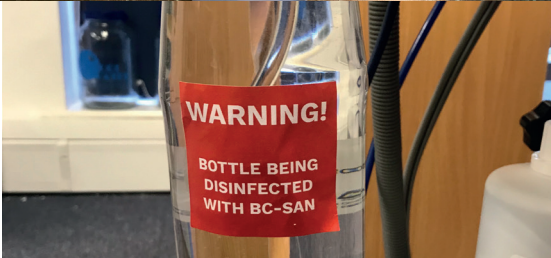
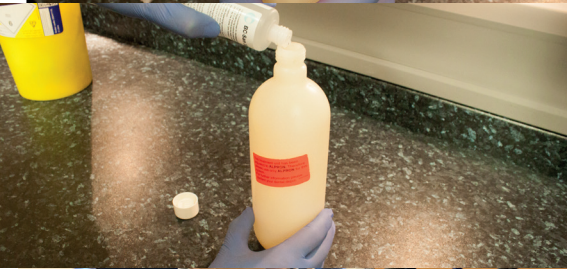
- ☐ **Flush all Bilpron out of each outlet i.e your clean water bottle should be empty and no fluid is coming from your outlets.**
- ☐ **Remove the clean water bottle and rinse thoroughly with clean water. Tap or distilled will work.**
- ☐ **Refill the water bottle with your normal solution of 1% Alpron.**
- ☐ **Purge at least half of this full bottle of Alpron through the unit & outlets.**
This will remove any trace amounts of Bilpron that may still be in the unit.
- ☐ **Refill the bottle fully with 1% Alpron until the clean water bottle is full. The chair is now ready for use.**

Please Refer to step 8 for instructions on how to mix the 1% Alpron solution.



Step 5 / Clean Water Bottle

5



Decontaminate and disinfect the physical water bottle & 5 Litre Storage container using BC-SAN100 to ensure there is no recontamination from the bottle itself. We recommend this step is carried out **weekly** to ensure no recontamination from the bottle. Remember the bottle is a part of the system that is physically touched so is a high risk area for recontamination.

Disinfection of the Clean Water Bottle & Storage Container

- ☐ Use a small amount of neat solution on a clean paper towel and wipe the external surface of the bottle or storage container and the bottles thread.

For Clean Water Bottle: Pour around 100ml of BC-san into the clean water bottle, fill with potable water and leave overnight or at least 6 hours.

- ☐ This contact time will disinfect your bottle. This should be done with the bottle on the bracket table to disinfect the inlet tube. The unit must not be pressurised and clearly signed.

- ☐ **For the 5 Litre Storage Container: Pour 300ml of BC-San into the Storage container, fill with potable water and leave over night or at least 6 hours.**

- ☐ **Following contact time discard the solution and rinse with potable water. Your bottle and container are now disinfected and ready to use.**

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Step 6 / Mixing Alpron Solution



Mix up the Alpron Maintenance Solution at a 1% concentration

- ☐ **Using the Alpron measuring cup add 50ml to the 5 Ltr storage canister.**
- ☐ **Fill the canister to the 5 Ltr mark with distilled water if available, potable tap if not.**
- ☐ **Label the canister with the date the mixture was made.**
We recommend only making enough Alpron for a weeks use. Ensure you rinse the container thoroughly before refilling with fresh Alpron.
- ☐ **Fill the clean water bottle using the mixed Alpron solution.**
- ☐ **Operate the equipment until half of the Alpron solution has passed through the unit. Include the tumbler filler if connected to the unit.**
This will remove any residual chemicals.

Your dental unit is now ready for use. Reattach all filters and hand pieces. Remember to conduct your post treatment Sampler test after using the Alpron for 7 days. Fill in the sampler due date below to help you remember.

Alpron is a continuous application product. Remember do not empty your bottle at night or at weekends. Leave diluted Alpron Solution in the system continuously. HTM01-05 States "Follow the manufacturers instructions"

- Do not empty bottle and invert.
- Do not remove from dental unit, unless refilling.
- Do not air purge.

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01833 630393

Post treatment Sampler due date



Step 7 / Morning Surgery Prep

7

Morning Surgery Preparation Actions

Flush each line for 30 seconds to refresh the Alpron solution in the dental unit water lines. Always flush between patients for 30 seconds, this is to ensure no oral bacteria is transferred between patients as anti-retraction valves have been shown to fail on a regular basis, so should be checked every month.

Check stock of Alpron solution & make fresh when required



Top Tip

Make a weeks supply to avoid wastage.

Problems? Questions? Call us immediately.

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Step 8 | Post-Treatment Sampler

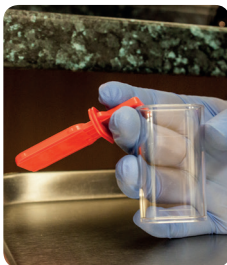
Please follow these steps to correctly use the Sampler to complete a water assessment. This test will inform you if the process has been successful. Compare this result to your pre-treatment result. Note that in some rare cases a particularly contaminated unit may require treating more than once, so if this result is still not classed as a pass call us immediately for advice.



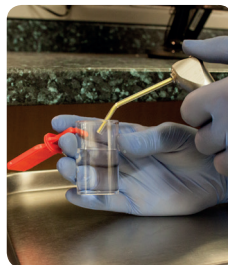
Locate the 18ml fill mark on the outside of the sampler container.



Reverse your palm and grip the handle of the paddle between your first and second fingers. Pull the sampler from the pot.



Hold the pot between your thumb and remaining two fingers of the same hand.



Express a water sample from the 3in1 up to the 18ml mark.



Replace the sampler in the pot and secure firmly. Lay the Sampler flat on a surface **RED SIDE UP** for 30 seconds.



Loosen and remove sampler and discard water.



Replace sampler securing firmly and label.

Incubation | Samplers

We suggest incubation at 20°C (Approx Room Temperature). Make sure that you record the incubation temperature used and the incubation time when you record your results. Record your results below for reference before transferring them to a dedicated log book or sheet. **Always read your Samplers under a magnifying lamp.**

Date Tested

DD/MM/YYYY

Result Date

DD/MM/YYYY

Result c.f.u

c.f.u





Mixing the Alpron solution to get a 1% concentration is crucial. Please refer to the chart below.

Mixed Solution(ml)	Alpron	Water	Mixed Solution (Ltr)
500 ml	5 ml	495 ml	0.5 Ltr
750 ml	7.5 ml	742.5 ml	0.75 Ltr
1000 ml	10 ml	990 ml	1.0 Ltr
1500 ml	15 ml	1485 ml	1.5 Ltr
2000 ml	20 ml	1980 ml	2.0 Ltr
2500 ml	25 ml	2475 ml	2.5 Ltr
3000 ml	30 ml	2970 ml	3.0 Ltr
3500 ml	35 ml	3465 ml	3.5 Lt
4000 ml	40 ml	3960 ml	4.0 Ltr
4500 ml	45 ml	4455 ml	4.5 Ltr
5000 ml	50 ml	4950 ml	5.0 Ltr



Congratulations! You have successfully completed a Biofilm Removal on your chair!

Your post treatment sampler should be clear or show a reduction in colonies. If so you are now ready to start routine monitoring of your chair quarterly with Samplers. Please log the results in the "Sampler Audit Booklet" which is supplied with your kit. All the information you need to join compliance club & apply for your certificate is inside the audit booklet.

If for any reason your sampler is a fail (100+ c.f.u) after a biofilm removal, please contact us on 01833 630393 and we will guide you through what to do next.



Need help with any aspect of infection control? Get in touch with our compliance experts.



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Search "Aura infection Control" on YouTube for this guide in video.



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