

Quality-Water

SPECIALISTS

① Alpron & The Biofilm Removal System | Reference Manual



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Introduction | Alpron & The Biofilm Removal System

The build up of biofilm within a dental unit waterline is a natural phenomenon that results in bacterial contamination of the water expressed from the waterlines. This contamination results in the water not meeting the minimum standard to be considered "drinking quality".

This system has been designed to eliminate the biofilm, prevent its regrowth and therefore ensure drinking quality water from the unit.

The system has been clinically proven to be both effective and materially compatible in terms of the unit and materials used in procedures. Improvements have been made to the system over the years and it is now recognised as a "Product of Choice" in all areas of dentistry.

HTM01-05 Guidance | Alpron & The Biofilm Removal System

Aura Infection Control Ltd are the developers of the QWS Alpron & BRS System, manufactured by Alpro Medical GMBH in Germany.

When using our system please ensure you read the attached instructions fully, as any deviation from them may result in a unsuccessful application of the system. Recently, there has been some confusion over application of the system and specifically within the context of the HTM 01-05 Guidelines.

In an effort to help make things much more explicit please read the following information.

Within the current version of the HTM01-05 the following statement is made:

Point 6.83 " Self contained water bottles (Bottled Water System) **should be removed, flushed with distilled or RO water and left open to the air for drying overnight. They should be Stored Inverted.** "

This is not the case when using the Alpron & The Biofilm Removal System as the following points illustrate.

Point 6.84 " Where visual contamination is present, flushing with a suitable disinfectant followed by a thorough washing is necessary. *The manufacturers instructions will specify the disinfectant to be used and may also require the continuous presence of antimicrobial agents to prevent the build up of biofilms* "

Point 6.86 " Disinfection of DUWLs should be carried out periodically. *In all cases, the manufacturers instructions should be consulted...* "

Point 19.35 " In addition to residual biocidal techniques, there are other manufacturer-specified treatments that are developed for use on DUWLs and other associated dental equipment. *Refer to the manufacturers instructions for their correct use.* "

HTM01-05 Guidance (Cont.) | Alpron & The Biofilm Removal System

When using the Alpron system, please read and follow the instructions supplied, this includes leaving the bottle on the system overnight and at weekends. It is only removed to refill with the diluted Alpron or for cleaning.

A Biofilm Removal should always be carried out before using Alpron for the first time. This is also necessary for newly fitted dental units given they are wet tested by manufacturers and could have

been stored for prolonged periods of time.

A sampler test should be done every 3 months to show compliance to the EU Directive 98/83 for potable water (< 100 cfu per ML Colony Forming Units).

If you have any other questions relating to this or any other part of the HTM 01-05 please call our Clinical Support Department.

Protocol | Alpron & The Biofilm Removal System

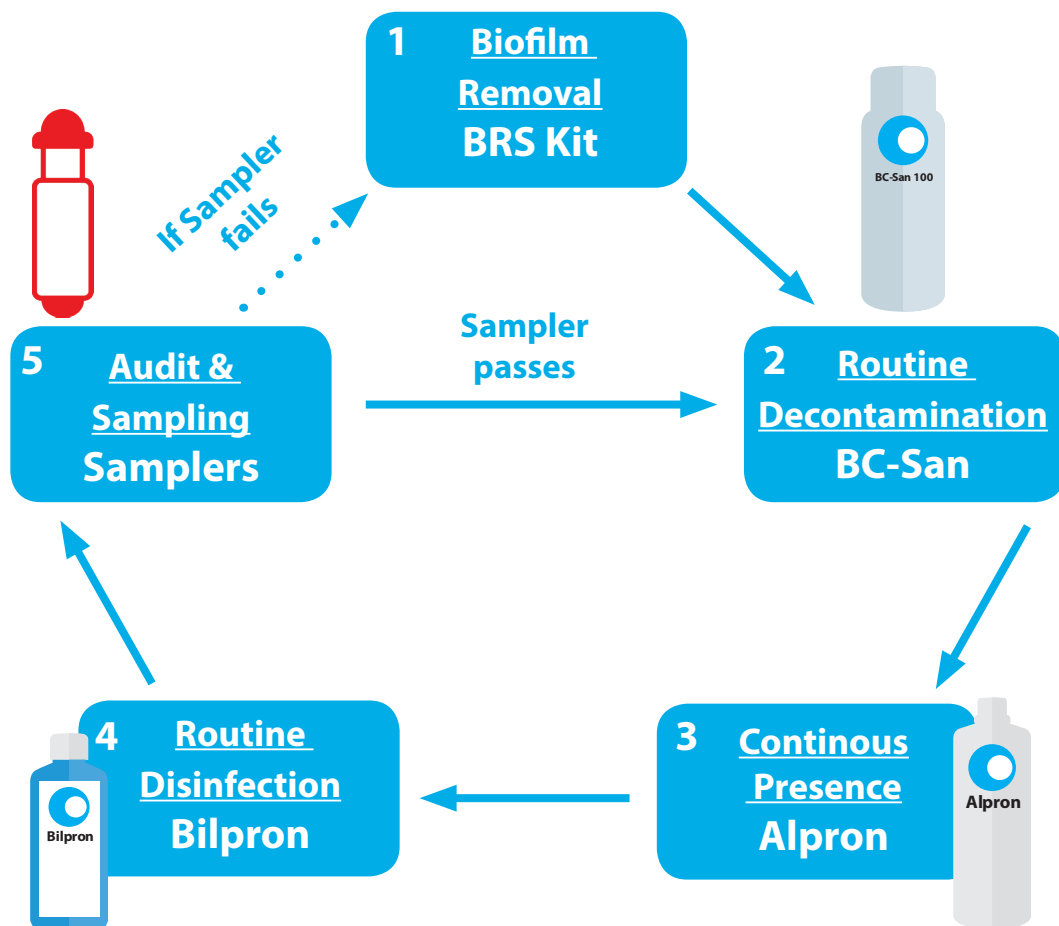
Stage 1 - Initial Water Sampling and Biofilm Removal | When switching onto the Alpron system, bringing new chairs into service or treating contaminated units, a biofilm removal must be completed. The Biofilm Removal system includes Bilpron to be applied after the BRS process overnight to disinfect the lines following cleaning. The contact times, temperatures and method must be strictly adhered to in order for the treatment to work correctly. Please note more than one application may be necessary if the biofilm is aggressive or calcified. Use Samplers to assess water quality of your unit and of your source water (the water you will mix Alpron with).

Stage 2 - Routine decontaminate your clean water bottle & 5 litre container | This should be done weekly (over the weekend) or as often as is practical and certainly when new bottles are to be used prior to use. 100ml of BC San with 900ml of potable water and leave for at least 6 hours ideally over the weekend with the bottle attached to the unit so the inlet tube is also cleaned. Do not pressurise. Appropriate signage should be used to ensure this is removed before flushing with Alpron prior to treatment.

Stage 3 - Continuous presence of Alpron | – Alpron should be diluted to a 1% concentration with potable water (RO, Distilled or Tap that is showing CFU count less than 100 on a Red Sampler) and used in the DUWL at all times. Under dosing will result in ineffective treatment and overdosing can result in foaming during treatment. Alpron is effective against Legionella and prevents limescale build up in the lines which contributes to biofilm build up. Alpron inhibits bacteria and prevents a biofilm from forming. The bottle must remain on the chair unless being refilled or cleaned. You can turn the chair off at night and leave in situ.

Stage 4 - Routine disinfection and downtime | Bilpron should be used for routine disinfection weekly or as specified by chair manufacturer, or during any period where regular flushing is not possible. This could be due to a closure, a long bank holiday or for mothballing of a chair. Bilpron is used as a concentrated application flushed into the lines and can be left in situ for up to 3 months.

Stage 5 - Audit and Sampling | Samplers should be used prior to treatment commencing, after treatment has been completed and quarterly thereafter to monitor the trends of water quality within the DUWL. Sampling should also be done on the source water to ensure it remains potable during its use.



Mixing Alpron | Alpron & The Biofilm Removal System

In order for the Alpron to be an effective preventative measure it is important that the correct concentration of solution is mixed. If the concentration is too high, the taste could be strong for patients, if its too low it won't be effective in its role to stop Biofilm Reforming.

The concentration you are looking to achieve is 1%. To make this easier to figure out we have included a conversion chart showing how much Alpron and water is required for a given amount of mixed solution.

Amount of Mixed Solution (Ltr)	0.5	0.75	1.0	2.0	5.0
Amount of Neat Alpron (ml)	5	7.5	10	20	50
Amount of Potable Water	495 ml	742.5 ml	990ml	1.98 Ltr	4.95 Ltr



To mix the solution up you will need the following items:

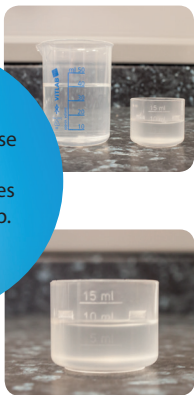
- 1 | 1 Ltr Alpron Concentrate
- 2 | Water - Ideally Distilled but Tap will work - Must be less than 100cfu per ml
- 3 | 5 Ltr Storage Canister (Or Alternative Size)
- 4 | 2 Ltr Measuring Jug
- 5 | 50ml Measuring Cup

Measure out the correct amount of Alpron concentrate using the bottle cap or beaker supplied. Remember to use a solid flat surface and measure accurately, inaccuracy can lead to re-contamination.

Pour the Alpron into your storage canister and use the 2 Ltr measuring jug to accurately measure out the right amount of water before pouring into the storage canister.

Alpron / Top Tip

When measuring out neat Alpron, use a hard flat surface and move your eyes in line with the cup. Accuracy is key!



Auditing | HPC Samplers

Our red Samplers offer accuracy down to 1 c.f.u (Colony Forming Unit) per ml and a quantifiable reading.

The media is dehydrated allowing for a longer shelf life. It is designed for the culture of chlorine stressed, heterotrophic, water borne bacteria, not dissimilar to R2A.

The construction of the sampler involves the intimate contact of a 0.45um membrane filter to a nutrient pad and an air vent on the upper back portion of the paddle. This allows for the draw through of 1ml of water sample to affix micro-organisms to the filter surface for subsequent culturing within its transparent plastic case.

The filter is grid marked to help in counting the bacterial colonies that may grow on its surface.

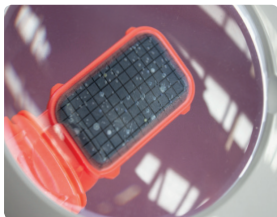
The plastic tube around the sampler has a mark to show the 18ml fill level.

Ideally Samplers should be used on the day they are received. If necessary, remove from the outer packaging and store in a dark place at room temperature (a cupboard is ideal).

We recommend that given the relatively short shelf life (9 Months approx) you only ever purchase enough slides to complete the required testing, don't bulk buy. We offer compliance club to make this process easy and straight forward Ensure the Sample is used before the expiry date.



Test



Count



Record

Bilpron | Alpron & The Biofilm Removal System

Bilpron is a ready for use disinfection chemical that forms part of the QWS Alpron & BRS Biofilm Removal and Maintenance System. Bilpron can be used in 2 ways.

- 1. Routine disinfection procedure.
- 2. Mothballing / holiday holding solution.



Bilpron | Routine Dental Unit Water Line Treatment

Is This the first time treating your chair? (i.e you have never performed a biofilm removal?)

Yes - If you are new to the Alpron system, we advise a BRS + Bilpron procedure to remove hardened Biofilm and disinfect the tubes prior to starting on the Alpron System.

No – Bilpron should be used weekly, or as specified by chair manufacturer as a routine disinfection procedure. In addition, use Bilpron for any chair downtime.

Bilpron | “Mothballing” a Dental Unit

Are you planning on mothballing the chair after cleaning? (i.e the chair will not be used for several weeks / months?)

Yes - Follow the Mothballing / Holiday Holding Solution protocol and leave Bilpron in the chair for up to 3 months.

No – Complete a BRS or BRS +(Inc Bilpron) and then revert back to Alpron at 1% concentration for normal use. Keep your Bilpron for your next holiday or closing period.

FAQ | Alpron & The Biofilm Removal System

“ Do I need to repeat the biofilm removal stage? ”

No under normal circumstances you will only need to use the biofilm removal kit once providing an accurately measured 1% Alpron solution is used in the lines **at all times and the protocol is followed correctly.**

“ Do I use Alpron everyday? ”

Yes, you use Alpron 1% solution and potable water on a continuous basis in the clean water bottle fitted to the chair.

“ Will it harm my patients? ”

No, the Alpron solution is physiologically harmless, CE marked and validated as a medical device.

“ Will it effect my clinical work? ”

No, Alpron has been used in Dentistry since 1995 with no reported cases of any interference to any clinical work.

FAQ | Samplers & Certification

“ When do I use the Samplers? ”

You use Samplers in the kit to check the water quality following treatment. Thereafter you need to audit each unit every 3 months. Compliance Club membership keeps this simple.

“ Where do I send my certificate application? ”

Please send your certificate application to csd@aiconline.co.uk. The application form is located in the Sampler Audit Booklet.

“ What items do I need to get a certificate? ”

To certify your practice, you need to send your completed audit booklets including cfu count, dates, Alpron Lot and signature.

“ How long will I be waiting for my certificate? ”

We aim to get your certificate to you in 5 working days once we receive all of the required paperwork. If you have an inspection looming however please tell us and we can fast track your certificate. All certificates are emailed back to the email address provided in the audit booklet.

Reordering | Dental Unit Water Lines

Reordering your supply of dental unit water line products couldn't be easier. Simply call us or log onto our website and place your order. Please check up to date pricing when ordering.

	Description	Code
	Alpron Concentrate Maintenance Solution 1 Ltr	3184
	Red Water Testing Samplers (Singles or Pack of 10)	MHPC-01/10
	BC-SAN Clean Water Bottle Disinfectant (Pack of 12)	3199-12
	Bilpron 250ml	4433-QWS
	QWS Alpron & BRS Starter Kit	D1-1017
	QWS Biofilm Removal Kit PLUS (Including Bilpron for intensive weekend treatments)	D1-1018
	QWS Biofilm Removal Kit	D1-1013



DUWL Auditing Made Easy!

Simplify your audit routine with Compliance Club

The Compliance Club is our FREE service that assists practices in maintaining a quarterly audit routine for dental unit waterlines. Quarterly auditing shows you are being proactive with your dental unit waterline management, and provides evidence your dental units are producing drinking quality water.

You pay for Samplers, BC-San and Alpron at a reduced rate, saving money and reducing human error (I forgot to order them).

Benefits

- Samplers arrive automatically
- Eliminates Human Error ("I Forgot to Order Them")
- Peace of Mind
- QWS Water Quality Certificate to display in practice
- Dedicated Clinical Support Team
- 15% Discount off the full infection control range
- Certification Fee & Subscription fee: £0.00

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Aura infection control are a great company to use for water quality control. I run a dental surgery and they have been so helpful in helping me maintain my dental unit waterlines and helping me ensure that my patient and staff safety is taken care of." T. Martin ||

Membership Levels

You can choose to add as many Samplers as you need onto your Compliance Club package. In addition you can also add other DUWL essentials on.



CC Standard

1 Sampler per chair, per quarter. You can also add additional samplers for additional test points, such as RO machines.



CC Plus

1 Sampler and 12 BC-San bottle cleaner per chair, per quarter.



CC Gold

1 Sampler 12 BC-San, and 1 bottle of Alpron per chair per quarter.

Price Comparison

Price Comparison - 1 Chair Practice

Non Member	CC Gold Member
1 x Sampler	1x Sampler
12 x BC-SAN	12 x BC-SAN
1 x Alpron	1 x Alpron
Total Cost = £138.45	Total Cost = £85.43*

To join or find out more please email csd@aiconline.co.uk

