

THE DENTAL
SOLUTIONS
COMPANY™



Treatment Centres

Waterline Maintenance and Biofilm Treatment
For Integrated Disinfection Systems



Biofilm in Treatment Centre Water Lines

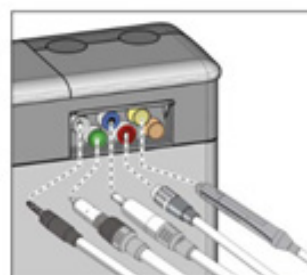
The treatment centre in your dental practice utilises water to cool a range of instruments such as dental handpieces, air/water syringes and ultrasonic scalers during various dental procedures. An intricate network of interconnected narrow-bore tubes called dental unit waterlines supplies water to all of these instruments and the cup filler on your dental unit. Over time a high density of micro organisms, primarily bacterial, can develop colony forming units known as biofilm in your water lines. This biofilm matrix is considered a form of contamination, and maintenance and treatment of the waterlines is paramount to patient protection and the long term maintenance of your treatment centre.

Water Line Maintenance Schedule for Integrated Disinfection Systems

1 Rinse: Rinse the waterlines prior to any patient appointment.

2 Purge*: Start by activating the cuspidor  and flushing for 1 min. Remove the individual instruments and connect to the integrated system. The purge or autopurge function   on your device can be set between 20-180 seconds on your treatment centre and should be completed:

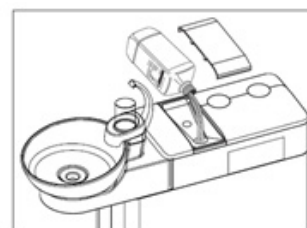
- Before starting work
- After each patient
- At the end of the workday



3 Sanitisation:** Sanitisation is the ongoing disinfection of the waterlines to aid in the prevention of biofilm in the treatment centres waterlines. Sanitisation takes about 24 hours and should not exceed 3 days. The display will advise how many days until the next sanitisation needs to be performed.  **San** 10:45:03 B Utilise the integrated instrument connections to perform the sanitisation utilising the full bottle of Dentosept S undiluted. Switch the treatment centre off to allow reaction time for at least 24 hours on the device.



4 Ongoing Disinfection Treatment: The disinfection tank located on the water tower should be refilled and will automatically dose Dentosept S in the correct ratio while in operation (1mL Dentosept S: 1 Litre Water). The Disinf will display on your treatment centre when this needs to be refilled.  **Disinf** 10:45:03 B This ratio is set to prevent the accumulation of biofilm overtime and is safe for use with your patients.



*For first time users please refer to the treatment centres user manual to learn about operating the purge function on your Dentsply Sirona treatment centre.

**For first time users please refer to the treatment centres user manual to learn about using the integrated sanitisation function on your device.

Conduct a Microbiological Water Test Regularly

Perform a microbiological test of the water from the treatment centre at regular intervals and after long periods of disuse to check the quality of the delivery systems water. All treatment centres will have some level of colony forming units (CFU). If a waterline test is completed and your dental treatment centres spore count is higher than 200 CFU, a waterline shock treatment will need to be performed on your device to clear the biofilm. **If your CFU count is too high and your dental chair has an integrated disinfection system, a technician will be required to complete the shock treatment.** Sometimes with very large CFU counts, multiple shock treatments may need to be performed to clear the waterlines. You will need to have enough biological spore tests to test each chair both before and after treatment to make sure that the treatment was successful. If the spore count is still high after treatment, repeat the shock treatment or contact your Dentsply Sirona technician. Only the BRS waterline system from Alpro is approved as a shock treatment for Dentsply Sirona treatment centres. Please refrain from using any other waterline treatments on your Dentsply Sirona treatment centre which can cause damage to the internal blocks. Damage caused by utilising unapproved shock treatment and disinfectant products will not be covered under your Dentsply Sirona warranty.

How to Conduct a Microbiological Spore Test

Please ensure the use of suitable Personal Protective Equipment (PPE), specifically gloves and eye protection.

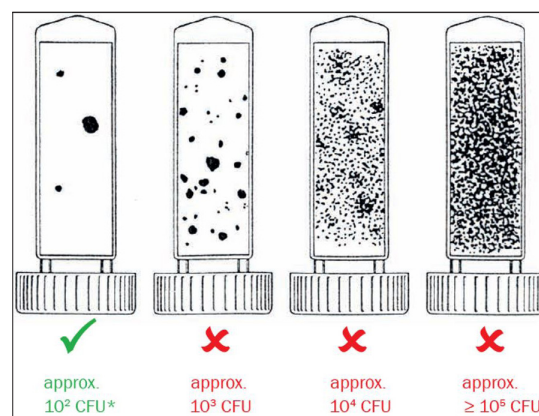
This step should be performed in advance of the full treatment to establish the need for shock treating the unit.

1. Take a water sample consisting of a mix of water from each instrument line into a separate cup.
2. Remove the dip slide from its tube and immerse in the collected water sample for a minimum of 10 seconds.
3. Place the slide back into its tube and secure tightly.
4. Fill in the label on the tube and the evaluation sheet (as primary sample or pre treatment).
5. Evaluation can be made after 24 hours in an incubator at 35°C to 40°C or after 3 to 7 days in a constant temperature (not lower than 22°C)*.



✓ If the sample passes, no further action is required

X If the sample fails, the treatment centre requires a shock treatment. This can be conducted by a Dentsply Sirona approved technician. Please contact the technical services department to book a shock treatment for your chair if you have an integrated disinfection device.



*When not using an incubator, warmer temperatures will give more accurate biotest readings. Fluctuations in temperature during incubation period may give incorrect readings, especially during winter months. If spores do not develop at all on the test you may have a false positive. Conduct a second test with better temperature controls to verify the findings.

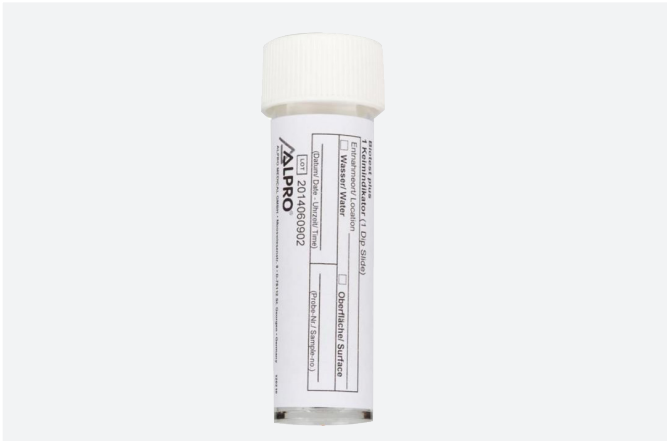
Waterline Maintenance and Treatment

Waterline Testing

Biotest

3079 | Alpro Dip slide Biotest pack of 10x

Dip slide for semi quantitative monitoring of microbial load of water and surfaces. The microbial count is measured in Colony-Forming Units (CFU) per mL.



DS Single Test

5853775 | DS Single Total Count Test

Dip slide for semi quantitative monitoring of microbial load of water and surfaces. The microbial count is measured in Colony-Forming Units (CFU) per mL.



Waterline Disinfecting Solution

Dentosept S

6610310 | Dentosept S 1 L

Disinfection Solution of Water Lines for internal use in treatment centres.

