

011987-02

QUICK SCAN REPORT		Technology name:	BacTerminator® Dental	
Verification body		Proposer		
Name:	DS Certification	Name:	Adept Water Technologies A/S	
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Quick scan		Previous quick scan					
Date:	07052013	Yes		Date:		No	Х

Technology description

The BacTerminator Dental includes several water treatment steps to ensure clean water to the dental unit water line:

- 1. Pre-filtering a 100 micron filter stops all major particles
- 2. Softening An ion exchanger removes all scaling from the system, meaning the dental unit will no longer clog up with scaling
- 3. Carbon filter removes old chlorine and odor from the incoming water
- 4. *Fine filtering a 1 micron filter removes finer particles*
- 5. Chlorination In-line electrolysis produces an adjustable amount of chlorine that disinfects the water
- 6. Bio Reaction Zone A specially designed feature that seize all microorganisms large enough not to be immediately killed by the chlorine, thus ensuring that no living microorganisms are sent into the dental unit water line.

The lightly chlorinated water emerging from the BacTerminator Dental will prevent growth of bacteria in the dental unit water line, and thus also ensure the patient's health.

Intended Use

This product has the following intended use:

The unit is to be used for dental unit water lines or similar applications for following purposes:

- prevention of live bacteria and microorganisms in the water.
- removal of particles and prevention of scale build up in the water line.

The treated water will not be harmful to the health of patients or dentists.

The unit has a residual and preventive effect on growth of bacteria and microorganisms in connected subsequent equipment.

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Date: 03-05-2013

Operational conditions:

The inlet water shall be of a quality fulfilling WHOs guidelines for drinking-water quality regarding chemistry. The pH is lowered in the treatment unit to by one pH unit in the outlet water. Conductivity and chlorine shall be sufficient for production of a free chlorine concentration in the outlet water of 0.5-1.0 ppm.



Quick scan check list



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	outlet water.					
	No biofilm is generated in new dental chair piping systems.					
	Existing biofilm is removed from old dental chair piping systems. This is done according to the system is able to produce 0,5 – 1.0 ppm free chlo- rine measured at the outlet of the system.					
Definitions						
Matrix:	Puplic drinking water -The inlet water shall be of a quality fulfilling WHOs guide- lines for drinking-water quality regarding chemistry.					
Purpose:	The unit is a medical device for use in connection with the Dental Init Water Line. The BacTerminator Dental will offer immediate improvement of water quality.					
Initial perfor- mance claims	Removal or killing of pathogenic bacteria (<i>Legionella</i> and <i>Pseudomonas aeru- ginosa</i>) to undetectable levels (< 1/ liter), and heterotrophic plate count (incu- bated at 36 °C in 48 hours) < 200 CFU/ml in the outlet water. No biofilm is generated in new dental chair piping systems. Existing biofilm is removed from old dental chair piping systems. This is done according to the system is able to produce 0,5 – 1 ppm free chlo- rine measured at the outlet of the system.					
Previous tests p	Previous tests performed No					
Test body:						
Test reports provi the verification bo						



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Evaluation by verification body

Technology description clear		Performance claims clear					
Yes	Х	No		Yes	Х	No	

Exist	ting test data				
Tests performed			Test body qualified		
Yes	N	o X	Yes	No	
Test report available		Test report qua	Test report qualified		
Yes	N	o X	Yes	No	
Test methods available		Test methods adequate			
Yes	N	o X	Yes	No	
Raw data available			QA of raw data adequate		
Yes	N	o X	Yes	No	
Performance claims sustained			Performance claims relevant		
Yes	N	o X	Yes	No	

Conclusions quick scan (incl. estimated cost range for a verification)

The technology is suitable for verification under the EU ETV pilot programme.

[budget information not disclosed]

Date	Name	Signature
2013.05.13	Peter Fritzel	Original signed by Peter Fritzel

DS Certificering A/S

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