

LEGIO.ball dental



Control the water quality in your treatment unit or ensure simple and cost-effective microbial disinfection even before commissioning.

It is a fact that the water supply routes for dental treatment units contain microbiological colonies, which cannot be prevented without a suitable hygiene management system. The "typical" water microbes (e.g. legionella, pseudomonae, staphylococci, streptococci and fungi) always occur in varying concentrations within the water supply of dental practices.

Due to the installed equipment and electrical parts which give off heat, as well as the additional heat often emitted from underfloor heating, the water warms to a long-term temperature of 25-30 degrees C. Perfect conditions for bacterial multiplication. If plasticisers from plastics or phosphates from water softening/disinfection systems, as well as air, are added, bio-films can grow rapidly where the bacteria take up residence and can multiply at leisure. Once this biofilm has formed fully it is extremely difficult to remove it.

Studies have shown that as well as the water treatment and disinfection systems and the chemical flushing of internal water pipes, a treatment unit is required. This time- and cost-intensive as well as environmentally harmful activity can be substantially reduced in conjunction with the installation of a membrane filter.

The LEGIO.ball acts as a barrier and can therefore filter polluted water from the main water supply grid, i.e. the dental unit is protected against bacteria and sediments, making it more difficult for biofilms to develop. As a side benefit, the high-tech and sensitive devices are also protected against particles which can cause damage to the materials and therefore have a longer service life.





LEGIO.ball dental

- Proven effectiveness against the entry of legionella and other bacteria
- Certified by German and European institutes
- Long service life of up to 120 days' usage (depending on the quality of the incoming water)
- Simple filter replacement
- Versatile installation due to connection adapter and brackets for all applications
- Housing "Made in Germany", filter module "Made in Holland"

LEGIO.ball dental

Inline filter dental

Technical data filter cartridges & performance data

Model number	41.2.501	32.1.500
		
Type	LEGIO.ball dental Starter set incl. membrane cartridge	dental Replacement cartridge Standard
Max. dimensions	Ø 110 x 87 mm	Ø 80 x 75 mm
Weight approx.	398 gr.	110 gr.
Integrated Metal thread	in M22 internal thread out M24 internal thread	Application
Volume flow at 2 bar	up to 12 l/min ⁽¹⁾	up to 12 l/min ⁽¹⁾
Service life ⁽²⁾	4 months	4 months
Retention of bacteria and fungi ⁽³⁾	Bacteria >LOG 7 fungi >LOG 4	Bacteria >LOG 7 fungi >LOG 4

⁽¹⁾ Flow limiter 6 and 8 l possible. ⁽²⁾ of the dental replacement cartridge

⁽³⁾ Further information can be found in the validation report.

Materials and technical data for the membrane cartridge

Filter material	Capillary micro-filtration membranes
Micron size	0,2 µ
Max. operating pressure	5 bar
Operating temperature	0 – 60 °C ; 70 °C for 30 min at 2 bar during service life
Chlorine absorption	1,200 ppm, in total 10 hours during service life
Flow throughput	3,000 l during service life
Storage & handling	<ul style="list-style-type: none"> • store in a dry place, protect against frost after first use • handle with care; do not expose to severe shocks or vibration • disinfection of the surface with all common disinfectants • can be disposed of with general waste after use
Cartridge replacement	Please note separate information regarding cartridge replacement
Contents	Inc. cartridge replacement calendar and waterproof replacement sticker
Recommendation	Remove LEGIO.ball dental during thermal disinfection

A membrane filter combined with thermal/chemical disinfection

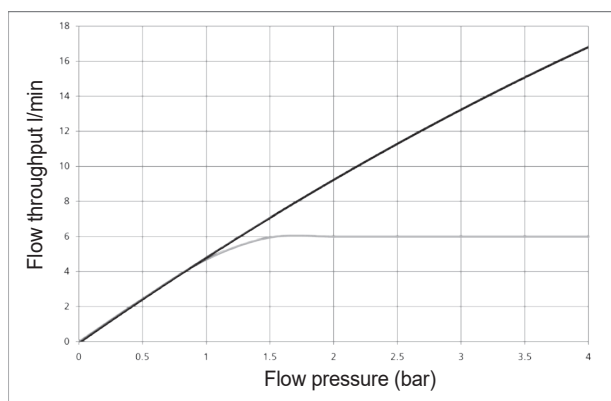
improves compliance with the limit values for the number of colony-forming

units per millilitre (CfU/ml) according to the Drinking Water Directive

(compared with purely thermal/chemical disinfection methods).

Product certification

The LEGIO.ball dental meets the requirements of the Medical Devices Directive 93/42/EEC, Annex VII, and is registered as a Class I, Standard I product.



The membrane unit was tested by the independent Dutch test laboratory Vitens regarding legionella retention (as well as other bacteria) and complies with all applicable water industry standards. An overview of the test results and the technical specifications for the membrane unit can be found in the validation.

All LEGIO components and products are subject to strict quality controls. Every product is tested for its function and effectiveness.

The plastic materials of the casing and the membrane unit comply with the KTW guidelines.

The brass adapters comply with the latest guidelines from the German Copper Institute with respect to the absence of lead.

Disclaimer:

The information and data provided in this document are based on our general experience and are considered to be correct. They are provided to the best of our knowledge and are intended to serve as guidance for the selection and application of our products. Since the conditions in which our products are used are outside of our control, this information does not constitute a warranty for the final performance of the product, and we accept no liability for the use of our products. The quality of our products is guaranteed in accordance with our terms of sale. Existing (commercial, intellectual or other) property rights must be respected.



Distributed by LEGIO.tools GmbH
Schlattgrabenstr. 10 • DE-72141 Walddorfhäslach • Germany
T +49 (0) 7127 1806-0 • F +49 (0) 7127 1806-222
E info@legio.com • www.legio.com

