

PlasmaBiotics System

The unique solution for fast drying and active storage of endoscopes



The PlasmaBiotics System, comprising the PlasmaTYPHOON and the PlasmaBAG, offers a unique and innovative combination for fast drying and active storage of endoscopes aiming to reduce the risk of infections.

Complete,
active and versatile

Fast*

- 2 x 2 min 30 sec for EUS scopes
- 2 min 30 sec for colonoscopes, gastroscopes and duodenoscopes
- 1 min 30** sec for bronchoscopes, cystoscopes and ureteroscopes
- 1 min*** for pediatric bronchoscopes



*The PlasmaBiotics System is compatible for all major endoscopy brands.
**Channel diam. > 1.5 mm
***Channel diam. < 1.5 mm

Research shows that to create and maintain an endoscopy's disinfected status, complete drying is an absolute necessity¹.

Perfect drying

PlasmaTYPHOON is designed to reduce the risk of infection by perfectly drying the scopes. Insufficient drying can be a source for microbial contamination and the transmission of infectious material.

Controlled storage

The active storage in PlasmaBAG allows the storage of endoscopes, preserving the disinfection level already achieved, up to 31 days* according to NF EN 1644 norm. Inadequate storage can be a source of microbial contamination and transmission.

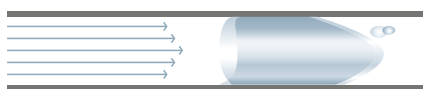
*The maximum storage time may be subject to local regulations on endoscope storage.

Fully adaptable

The PlasmaBiotics System fulfills your needs by adapting to the number of scopes. It requires only limited working space and can help you to increase hospital efficiency.

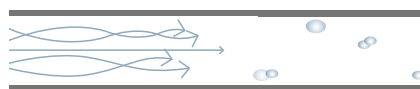
The PlasmaTYPHOON uses an innovative approach to offer complete drying, quickly and efficiently: two different levels of airflow, resulting in perfectly dry channels. While high velocity flow would break fluid, making it more difficult to dry, PlasmaTYPHOON uses a combination of different level of flows (laminar and turbulent) and temperature to completely dry endoscopes.²

STEP 1: Laminar flow



eliminates most of the residual fluid
in the channel

STEP 2: Turbulent flow



evaporates the fluid remains
after step 1 in the channel

Result



perfectly dry
channel

After the completion of the drying process, the single-use PlasmaBAG comes into play: Plasma, containing ozone molecules, is insufflated into the bag ensuring the dry and disinfected state of the endoscope is maintained. It allows safe endoscope transportation while at the same time reducing the need for repeated reprocessing.

¹Julia Kovaleva, a Frans T. M. Peters, b Henny C. van der Mei, c John E. Degener, w April 2013 Volume 26 Number 2 Clinical Microbiology Reviews, *Transmission of Infection by Flexible Gastrointestinal Endoscopy and Bronchoscopy*

²Biotech-Germade report, January 2015, *Evaluation of the Efficacy of a Drying Unit for internal Channels of Endoscopes* The unit's drying efficacy is validated by microbiological tests performed on different endoscope types, according to European standards, as well as visual observation of a stripped endoscope.



PlasmaBiotics S.A.S
116 Quai de Bezons 95106
Argenteuil Cedex FRANCE
www.plasmabiotics.com

Distributor:
PENTAX Medical India Pvt. Ltd.
Unit No. 505 and 506, Suncity Success Tower,
Golf Course Extension Road, Sector 65, Gurgaon,
Haryana 122005, India
Tel: +91-124-2841380 | Fax: +91-124-2841107
Email: inquiry_indiaSA@pentaxmedical.com
India Toll Free No: 1800 102 6257

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