

# PlasmaTYPHOON and PlasmaBAG

*The unique solution for fast drying and active storage of endoscopes*



Product Overview



Hygiene Commitment



Triple Aim

# PlasmaTYPHOON and PlasmaBAG

## The unique solution for fast drying and active storage of endoscopes

Research shows that to create and maintain an endoscope disinfected status, complete drying is an absolute necessity\*.

As part of its Triple Aim program, PENTAX Medical continues to act for improved hygiene control, reduced infection and patient risk with the PlasmaTYPHOON and the PlasmaBAG. Combined, the two components form a unique and innovative system for fast drying and active storage of endoscopes.



Find more information on:

[Triple Aim](#)

[Hygiene Commitment](#)

[PlasmaTYPHOON](#)

[PlasmaBAG](#)



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

# PlasmaTYPHOON and PlasmaBAG

## The unique solution for fast drying and active storage of endoscopes

### Perfect drying

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

[Click for more information](#) >

### Controlled storage

The active storage in PlasmaBAG allows the storage of endoscopes, preserving the disinfection level already achieved. Inadequate storage can be a source of microbial contamination and transmission.

[Click for more information](#) >

### Fully adaptable

PlasmaTYPHOON and PlasmaBAG fulfill your needs by adapting to the number of scopes. It requires only limited working space and can help you to increase hospital efficiency.


[Click for more information](#) >



# PlasmaTYPHOON

## Perfect drying

**PLASMA BIOTICS®**  
IN ASSOCIATION WITH **PENTAX** MEDICAL



*“Accurate endoscope drying is crucial, whereas a humid environment facilitates microbial growth during storage. The final drying steps greatly reduce the risk of remaining pathogens.\*”*



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

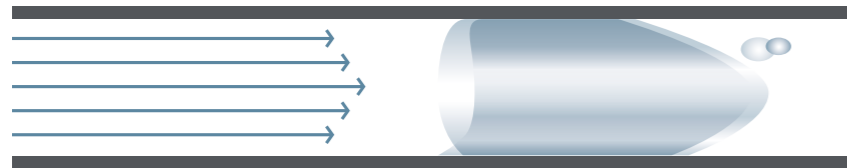
# PlasmaTYPHOON

## Perfect drying

Reaching a perfectly dry status for endoscopes is crucial for ensuring greater hygiene and potentially lowering infection. The PlasmaTYPHOON uses an innovative approach to offer complete drying, quickly and efficiently.

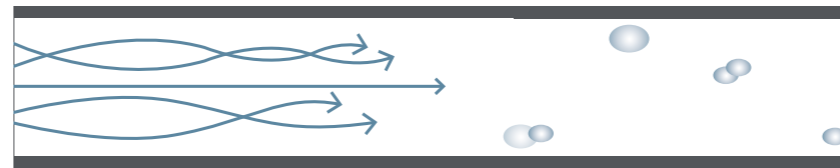
One to five minutes (depending on the model of the scope) is all that is needed to completely dry an endoscope.

### 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

While high velocity flow would break fluid, making it more difficult to dry, PlasmaTYPHOON uses a combination of different levels of flows (laminar and turbulent) and temperature to completely dry endoscopes.\*

# PlasmaBAG

## Controlled storage

**PLASMABIOTICS®**  
IN ASSOCIATION WITH **PENTAX** MEDICAL

*“The plasma contains ozone molecules, which allows the endoscope to maintain its disinfected state up to 31 days.\*”*



\*Validated for up to 744 storage hours (31 days) according to NF EN 16442 norm.  
The maximum storage time may be subject to local regulations on endoscope storage.

# PlasmaBAG

## Controlled storage

**Preserving endoscopes' dry and disinfected state is as important as reaching that status in the first place.** A humid storage environment facilitates microbial growth and the transmission of infectious material: only by actively storing endoscopes can this be overcome.

The PlasmaBAG stores the dry endoscopes in their disinfected state by insufflating plasma containing ozone molecules into the storage bag, thus ensuring the disinfected state is maintained. It allows safe endoscope transportation, while also reducing the need for repeat reprocessing.



# PlasmaTYPHOON and PlasmaBAG

## **Fully adaptable**

**PLASMA BIOTICS®**  
IN ASSOCIATION WITH **PENTAX** MEDICAL

*Get the most out of your time and space while also improving hygiene control.*

*Managing endoscopic fleets today is highly complex. This is why PlasmaTYPHOON and PlasmaBAG were developed to optimize your efficiency.*





# PlasmaTYPHOON and PlasmaBAG

## Fully adaptable

PlasmaTYPHOON and PlasmaBAG are a versatile solution with the ability to reprocess scopes efficiently at higher numbers, as well as to be transported easily and safely.

As drying and storage are applied to the scope singularly and not as an array, it is more flexible than standard methods, such as a drying cabinet, avoiding any duplication of processing endoscopes, and thus providing an optimized workflow.

COMPATIBLE WITH ALL  
MAJOR ENDOSCOPY BRANDS



REDUCE REPEATED  
REPROCESSING



SAFE  
TRANSPORTATION



FLEXIBLE STORAGE  
CAPACITY



# PlasmaTYPHOON

## For ultra-fast and complete drying

**PLASMA BIOTICS®**  
IN ASSOCIATION WITH **PENTAX MEDICAL**

### Simple:

Fully automatized drying process  
at the push of a button



### 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



# PlasmaBAG

## For actively storing endoscopes

**PLASMA BIOTICS®**  
IN ASSOCIATION WITH **PENTAX MEDICAL**



The dried endoscope is placed in a PlasmaBAG (single use)

Plasma, generated by PlasmaTYPHOON, is then insufflated into the bag (6 sec.)

## Hygiene commitment

PENTAX Medical is using innovative products, optimizing processes, and integrating feedback from the market to directly tackle patient safety and infection prevention.

By offering solutions like the DEC™ Duodenoscope, the PlasmaTYPHOON, and the PlasmaBAG, we are reinforcing our strong commitment to these vital topics. But real change comes from understanding the landscape – and reshaping it. Which is why improved hygiene and safety are the pillars that support all our research and development.

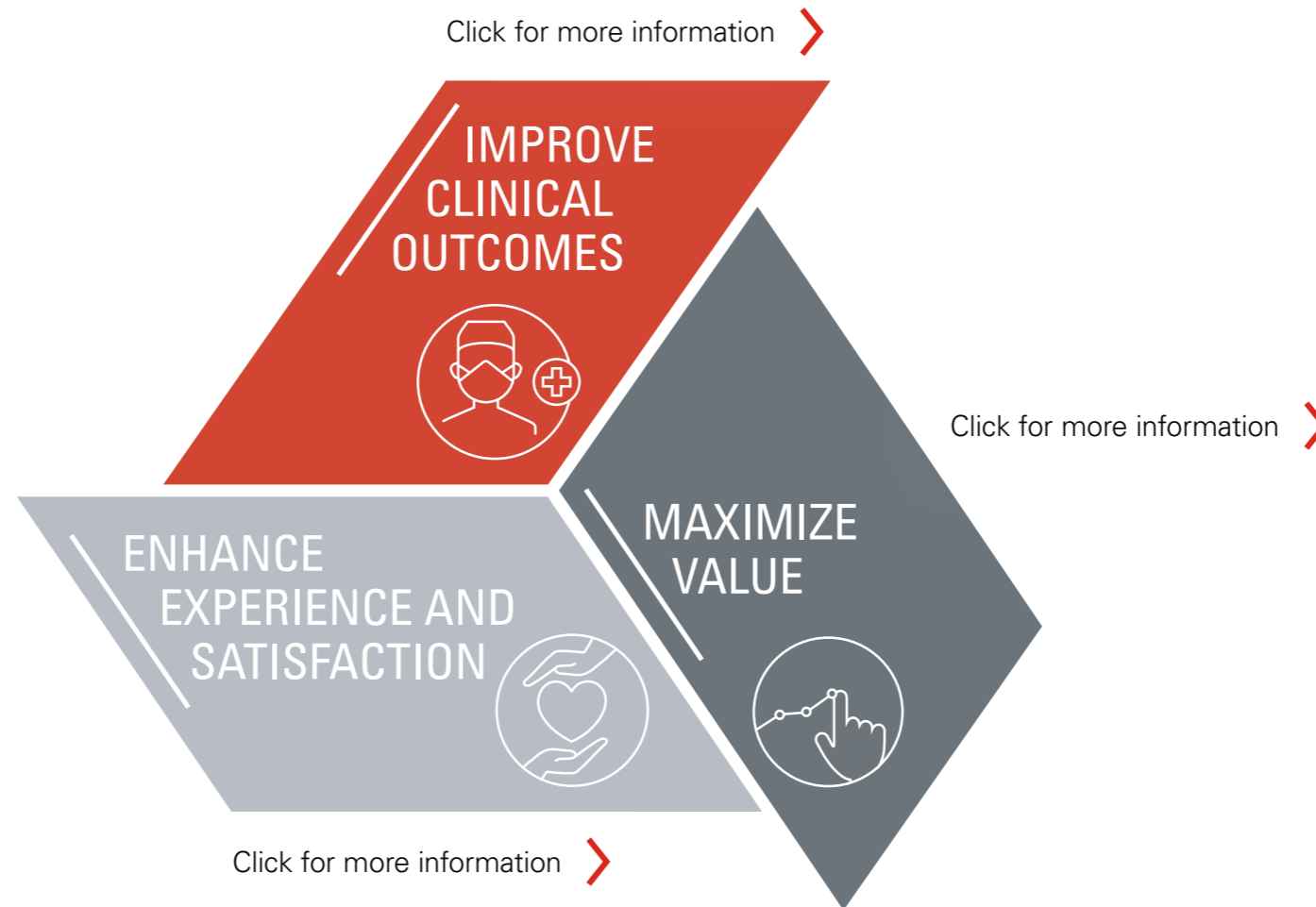
We work closely with experts for market insight to ensure that all products are directly based on this need. Then we innovate for even better clinical outcomes – because a commitment is nothing without action.



## PENTAX Medical's Triple Aim

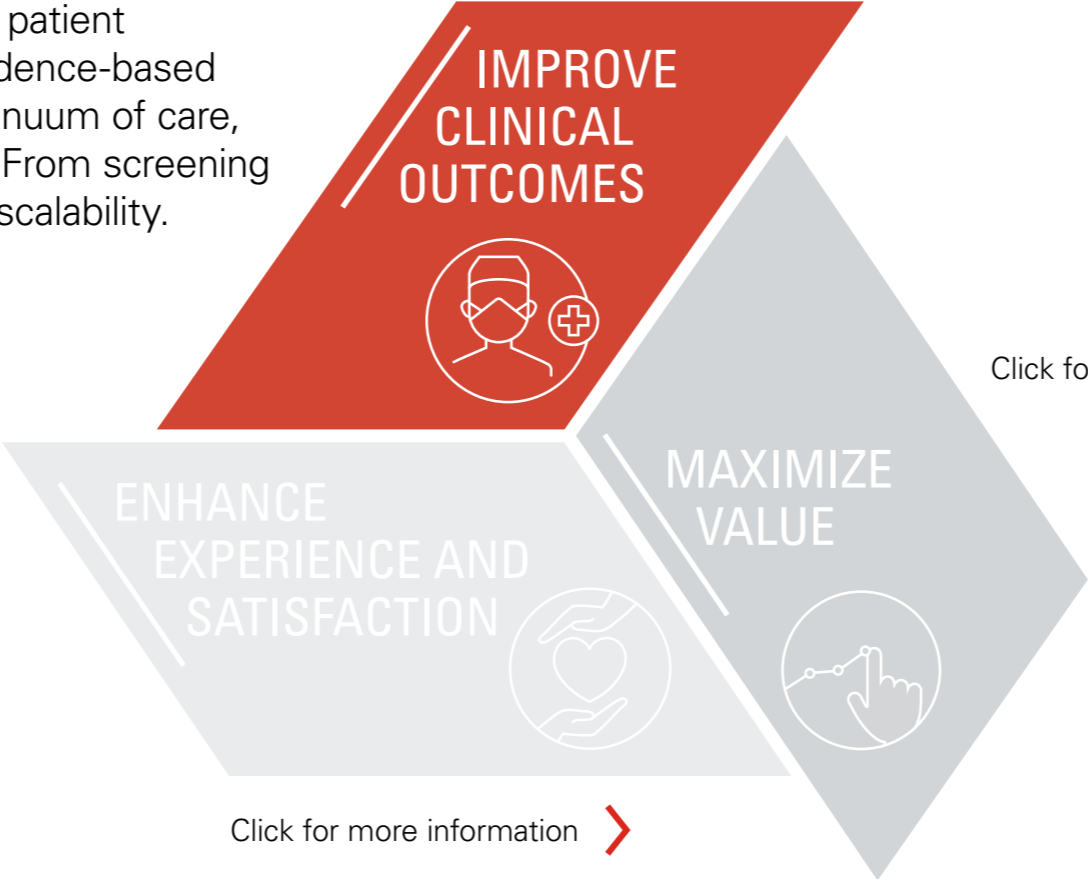
Our **Triple Aim** program is designed to deliver on our commitment to support you and your healthcare organization's wider objectives by providing programs, products, and solutions to help you reach your goals.

FIND OUT HOW  
**PlasmaTYPHOON**  
AND **PlasmaBAG**  
SUPPORTS TRIPLE AIM



# PENTAX Medical's Triple Aim

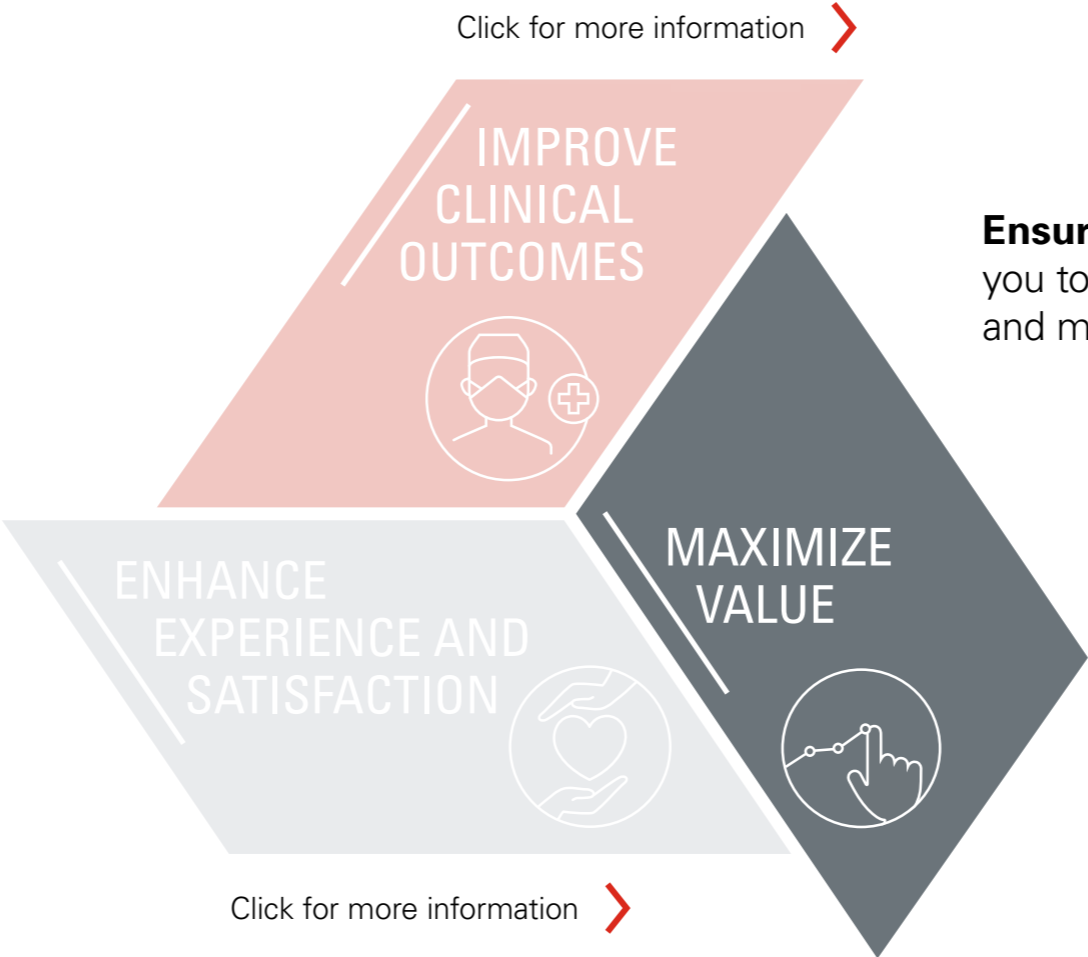
**Enabling** you to improve patient outcomes by offering evidence-based solutions across the continuum of care, dedicated to your needs. From screening through therapy with full scalability.



FIND OUT HOW  
**PlasmaTYPHOON**  
AND **PlasmaBAG**  
SUPPORTS TRIPLE AIM

# PENTAX Medical's Triple Aim

FIND OUT HOW  
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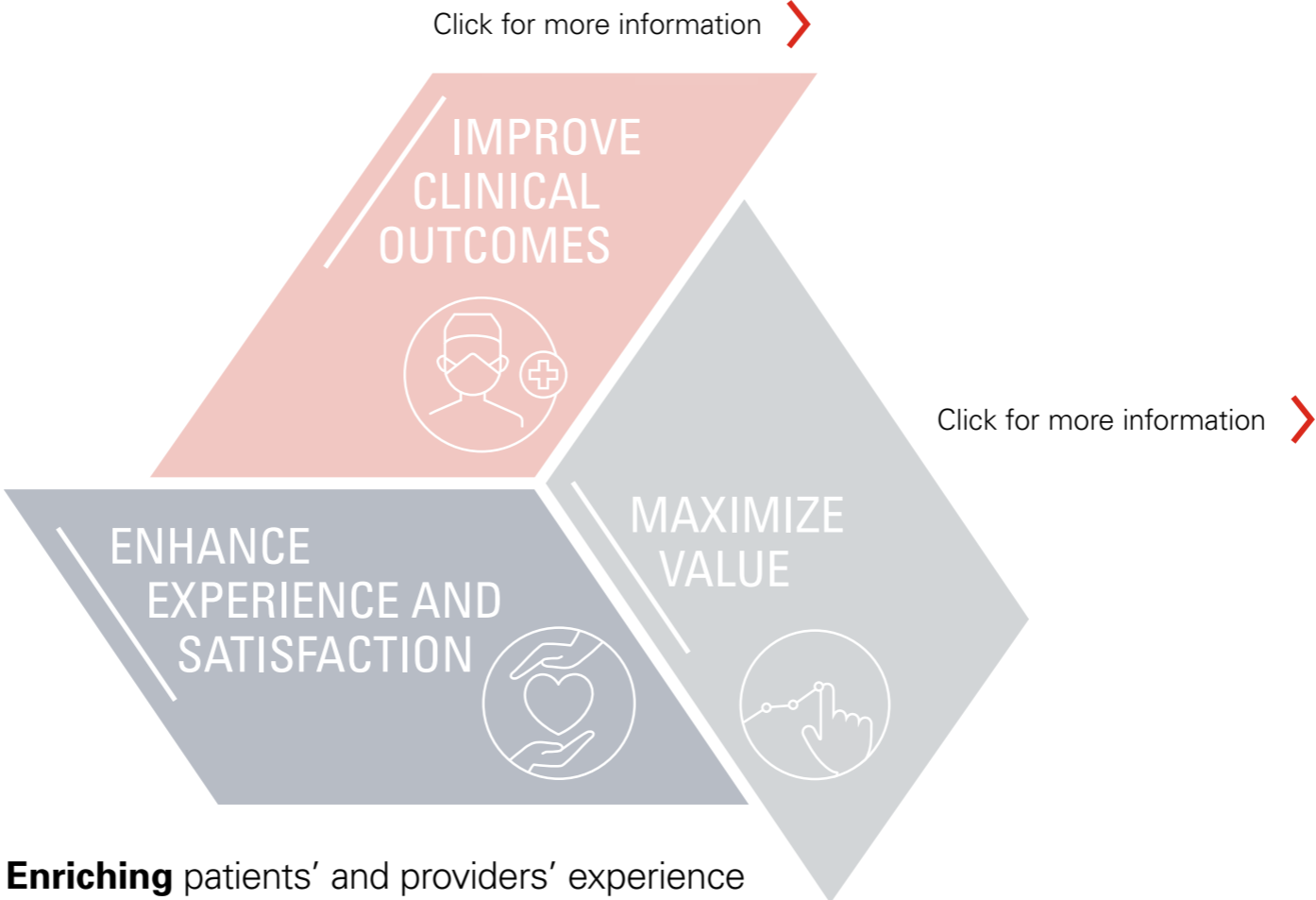


**Ensuring** value by enabling you to improve your efficiency and minimize healthcare costs.

# PENTAX Medical's Triple Aim



FIND OUT HOW  
**PlasmaTYPHOON**  
AND **PlasmaBAG**  
SUPPORTS TRIPLE AIM



**Enriching** patients' and providers' experience by empowering every member of your care team to achieve optimal outcomes through products, education, and support.

[www.training-for-excellence.eu](http://www.training-for-excellence.eu) >



# Your needs shape our service

**PROXIMITY WITH MULTILEVEL EXPERTISE**

- 150+ Technicians across Europe
- Regional and local repair centers
- Service engineers for maintenance
- 360 Days a year repair center
- 43 Service partner and certified repair center
- Multilingual customer service

**TRANSPARENCY AND PREDICTABILITY**

- IMPROVE CLINICAL OUTCOMES
- ENHANCE EXPERIENCE AND SATISFACTION
- MAXIMIZE VALUE
- 2000+ Up to date loaner fleet
- 24/7 Information available and online traceability
- 15 days average repair time
- Service KPI reports

**MAXIMIZE VALUE**

- Hygiene and application personalized support
- On-site training with application specialists
- Flexible contract options
- Original spare parts

For PENTAX Medical Service, our partnership means your success.



**PLASMABIOTICS®**

IN ASSOCIATION WITH **PENTAX** MEDICAL

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French Patent FR3026303B1, further applications pending • Medical device class: I • This product must be used only by healthcare professionals. Before use and for detailed product specifications, please refer to the instructions for use. In the interest of technical process, specifications may change without notice.

**PENTAX**  
**MEDICAL**  
*Excellence in Focus*