Hygiene in Reprocessing

Plasma TYPHOON+

PlasmaBAG

References

Technical Data

Triple Aim

REDUCE ENDOSCOPE DRYING AND STORAGE TO JUST 1–3 MINUTES



PLASMATYPHOON+

POWERED BY **PENTAX MEDICAL**

Boosting endoscope reprocessing to enhance patient safety and hospital efficiency

At a glance



What's new?





Hygiene is essential for patient safety



Hygiene in Reprocessing

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References

Technical Data

Triple Aim

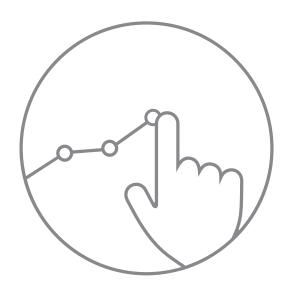
PENTAX Medical strives to continuously improve patient safety and infection prevention in endoscopy. That's why we revolutionised endoscope reprocessing procedures to achieve three major goals:



To enhance patient safety by reducing the risk of infection.



To **boost efficiency** and **reduce wait times** between procedures.



To maximise hospital productivity in endoscope reprocessing.



The fastest endoscope drying and storage, ever



Hygiene in Reprocessing

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PlasmaBAG

References

Technical Data Ask your reprocessing staff:
PlasmaTYPHOON+ and PlasmaBAG
system dries and stores endoscopes
faster than any other system, ever.

- Ultra-fast and complete drying in just 1 to 3 minutes¹⁾
- **Ultra-fast storage** in just 5 seconds¹⁾



1) see technical data section

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Plasma TYPHOON+

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References

Technical Data

Triple Aim

Small dimensions – unlimited capacity



¹⁾ see technical data section

²⁾ 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.

PlasmaTYPHOON+

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Hygiene in Reprocessing

> Plasma TYPHOON+

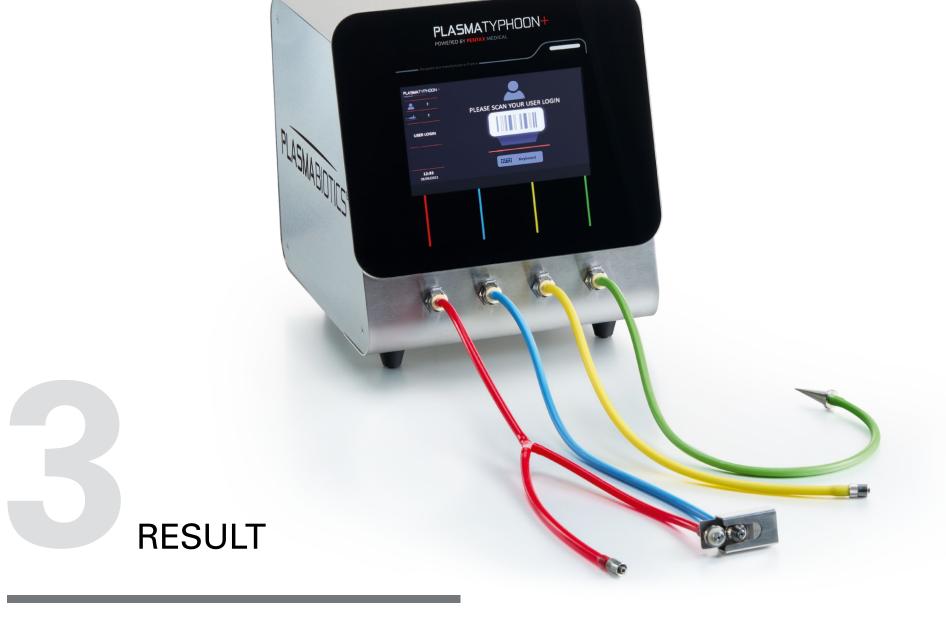
PlasmaBAG

References

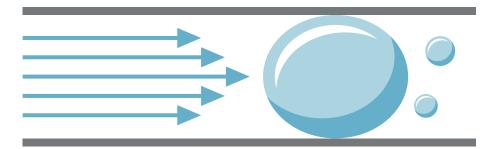
Technical Data

Reduces drying times from hours to minutes

A specific airflow process ensures each individual endoscope channel is perfectly dried:

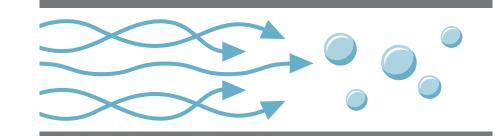


LAMINAR AIRFLOW



Eliminates most of the residual fluid in the channels

TURBULENT FLOW OF HEATED AIR



Evaporates the remaining droplets on channel walls

Produces perfectly dried channels

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Making reprocessing procedures easier and safer

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Handling is optimised to make daily routines simpler:

Intuitive software

guides procedure flow on a touch screen interface



Visual guidance and colour-coded tubing improve process flow

PlasmaTYPHOON+

Full-blown attention for every move



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Plasma TYPHOON+

PlasmaBAG

References

Technical Data

Triple Aim

PlasmaTYPHOON+ provides additional support and safety in daily processes:

- Automatic validation with integrated alarms
- Full traceability
 with both printed and digital
 audit-ready data-records
- Connection to hospital network and data management systems enables drying and storage cycles to be linked to patient data



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PlasmaBAG

Safe, mobile, and space saving storage



PlasmaBAG offers you safe and active endoscope storage with many benefits:

- Prevents infection risks upon storage and transportation
- Maintains disinfected state of endoscopes upon storage for up to 31 days¹⁾
- Labelled for traceability and safety check support
- Certified sustainability
 made with 80% recycled
 Polyethylene, holding the
 German eco label 'Blue Angel'
 (PlasmaBAG ECO)



- Allows safe transportation of endoscopes from centralised reprocessing centers to satellite locations
- Space saving storage of ready-to-use endoscopes with no restriction on the number able to be stored
- Ensuring endoscopes are available anytime, anywhere

1) 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.

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Plasma TYPHOON+

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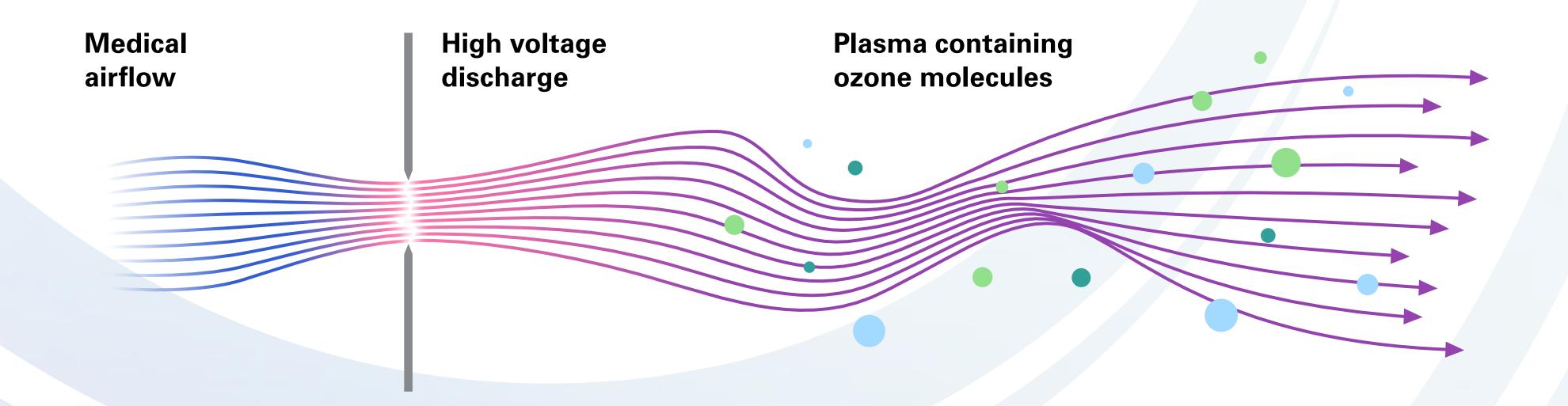
Sustaining the disinfected state with plasma

with plasma

After the completely dried endoscope has been placed in the PlasmaBAG, the bag



is insufflated with plasma containing ozone molecules. In conjuction with complete drying, the active storage environment in the PlasmaBAG ensures the disinfected state of the endoscope is maintained for up to 31 days¹⁾.



¹⁾ 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.

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PlasmaBAG

Caring for environment

PENTAX Medical aims to support the UN Sustainability Development Goals. PlasmaBAG is one example of our continuous journey to sustainability:



Carbon emissions in production are compensated for with a reforestation project in Togo¹⁾, making PlasmaBAG carbon neutral.

trees planted²⁾
for PlasmaBAGs
in Ω 3 + Ω 4 2021



PlasmaBAG ECO™, the latest generation PlasmaBAG™, is produced with 80% recycled Polyethylene, holding the German eco label 'Blue Angel'.







- 1) Until 2021, Project Togo has planted more than 1,500,000 new trees in total, binding approx. 400,000 tons of atmospheric carbon annually. www.natureoffice.com/en/carbon-offset-projects/project-togo
- 2) Equivalent trees and compensated volume of carbon according to calculation of L.E.S.S. FRANCE

What experts say about the system



Hygiene in Reprocessing

Plasma TYPHOON+

PlasmaBAG

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Triple Aim



Prof. Rocco Trisolini – Head of the Interventional Pulmonology Unit Policlinico Universitario Agostino Gemelli Rome, Italy

"The PlasmaTYPHOON+ is the perfect compact solution for us, contributing to an overall reduction in time, cost and space needed. Being able to store the endoscope in the PlasmaBAG for up to 31 days, the endoscope is ready to use for our patients at any time."



Anne Hillion – Health executive for GI endoscopy & pulmonology Hôpital Européen Georges Pompidou, Paris, France.

"Since we have had the PlasmaTYPHOON+ and PlasmaBAG system, we have not only improved our reprocessing efficiency but also the hospital efficiency. With the improved endoscope turnover, we are able to reduce waiting times between procedures and therefore schedule more patient procedures."



Patrizia Porta – Head Nurse Policlinico Universitario Agostino Gemelli, Rome, Italy

"With PlasmaTYPHOON+ and PlasmaBAG, we can guarantee the safety of each patient in bronchoscopy. The PlasmaTYPHOON+ completely dries the scope and the PlasmaBAG provides a safe environment for endoscope storage and transport after reprocessing."

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What experts say about the system

Hygiene in Reprocessing

Plasma TYPHOON+

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Technical Data



Marion Peukert – Nursing Director Endoscopy Unit, Stauferklinikum, Schwäbisch-Gmünd, Germany

"Fast and efficient endoscope drying, contamination proof storage as well as documented evaluation are very important to us. PlasmaTYPHOON+ meets all these requirements. A high hygiene standard brings safety for our patients – and peace of mind for us!"



Danilo Fabretti – Reprocessing Operator Policlinico Universitario Agostino Gemelli, Rome, Italy

"The system of PlasmaTYPHOON+ and PlasmaBAG gives us confidence to reduce the risk of infection for our patients. We are now able to transport the endoscope in the Plasma-BAG from the reprocessing room to endoscopy suite without risk of recontamination."

Hygiene in Reprocessing

Plasma TYPHOON+

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References

Technical Data

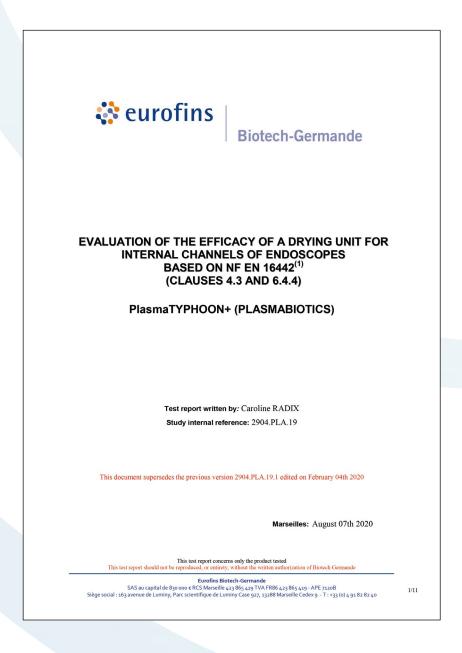
PlasmaTYPHOON+ and PlasmaBAG system

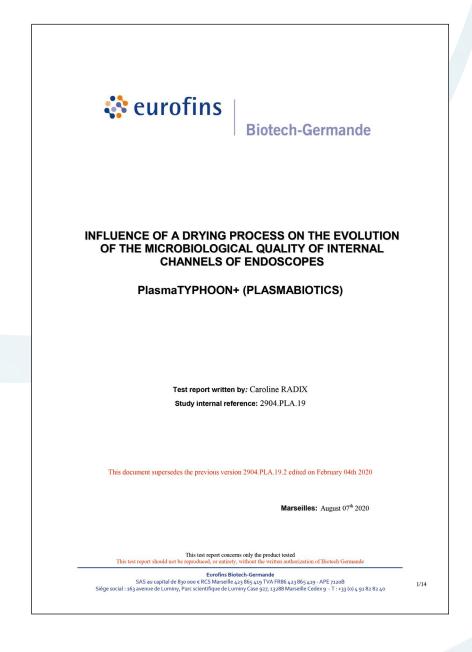
Independently tested



PlasmaTYPHOON+ and PlasmaBAG have been thoroughly tested by **Eurofins Biotech Germande Laboratory** having Cofrac accreditation.

The system is certified to comply with the **EN 16442 standard** for drying and storage of flexible endoscopes, contributing to improved hygiene and patient safety.











Supports every department in your hospital or clinic

The system fulfills your departments' needs and can help you increase hospital efficiency and productivity. With the PlasmaBAG ECOTM, it offers physicians, nurses, reprocessing staff and hospital staff a solution that supports reaching your sustainability goals, as well:

Hygiene in

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TYPHOON+

Plasma

PlasmaBAG

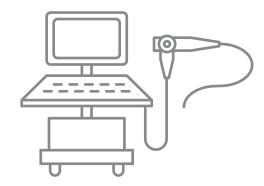
References

Technical Data



EMERGENCY ROOM AND ICU

Immediate access to ready-to-use endoscopes thanks to unlimited drying capacity and storage for up to 31 days¹⁾



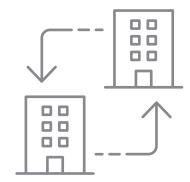
ENDOSCOPY UNIT

Reduced waiting times between procedures thanks to improved endoscope turn-around time and no need to reprocess endoscopes again after storage



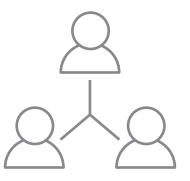
REPROCESSING UNIT

Efficient workflows
with seamless and fully
traceable processes.
Contribution to the
sustainability goals
using endoscope
storage bags made of
recycled material.



SATELLITE CENTERS

Risk free transport between centralised reprocessing center and satellite locations such as Pulmonology, Cardiology, Urology, etc.



HOSPITAL MANAGEMENT

Saving cost, space and time whilst increasing productivity. Achieving hospital's sustainability goals using PlasmaBAG ECOTM solution.

¹⁾ 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.

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PlasmaTYPHOON+ and PlasmaBAG system

Ultra-fast drying and storage times



The system is fully compatible with all major endoscope brands.

ENDOSCOPIC DEVICES	CYCLE TIME CHANNEL DRYING	CYCLE TIME STORAGE
Ureteroscope, cystoscope	1 min	5s
Bronchoscope, ultrasound bronchoscope (EBUS), nasolaryngoscope	1 min 30 s	5s
Gastroscope, duodenoscope, enteroscope, colonoscope	2 min 30 s	5s
Gastrointestinal ultrasound endoscope (EUS)	3 min	5s
Endoscopes without channels and transeophageal (TEE/TOE) ultrasound probes	-	5s

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PARAMETERS	VALUES	
Power supply/electrical network	etwork 110 – 240 V	
Frequency	50/60Hz	
Dimensions (L×W×H)	300/280/260 mm	
Net weight	10.7 kg	
Pressure of medical air at gas inlet	3 bar	
Minimal gas flow rate	601/min	

PlasmaBAG and PlasmaBAG ECO

REFERENCE	DIMENSIONS	PACKAGING
Standard PlasmaBAG	600×500mm	400 pcs
XL PlasmaBAG	700×640 mm	250 pcs
XXL PlasmaBAG	840×600 mm	300 pcs
PlasmaBAG ECO (Blue Angel certified)	620 × 520 mm	400 pcs





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PENTAX Medical Triple Aim

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



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

Enhancing hygiene and patient safety

The PlasmaTYPHOON+ and PlasmaBAG system helps reduce the risk of infection in two ways. It rapidly and thoroughly dries endoscope channels preserving the disinfected state. Through active storage in the PlasmaBAG, this state can be maintained for up to 31 days¹⁾. This eliminates further risk of recontamination upon storage or transport.



¹⁾ 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.

PENTAX Medical Triple Aim



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Triple Aim

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



Boosting hospital efficiency and traceability

The PlasmaTYPHOON+ greatly increases reprocessing efficiency and improves endoscope turnover, thereby reducing wait times between procedures, allowing for more patient treatments. The PlasmaBAG removes the need for additional reprocessing after storage and ensures the endoscopes are immediately available at the point of care, anywhere, anytime. Furthermore, the system provides full traceability and connectivity to hospital networks.

ПОПП

Hygiene in Reprocessing

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PENTAX Medical Triple Aim



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Maximising productivity in endoscope reprocessing

PlasmaTYPHOON+ accelerates endoscope reprocessing by substantially reducing drying times from hours to just minutes. The small footprint required for endoscope drying and storage greatly reduces cost and space required. Overall, with its unlimited drying and storage capacity, ease of use, embedded automatic validation and enhanced intuitive touch panel, the PlasmaTYPHOON+ provides a seamless user experience and process control.

Triple Aim

At a glance

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Ultra-fast and complete drying in just 1 to 3 minutes¹⁾

Full traceability with both printed and digital, audit-ready data-records

Automatic validation with integrated alarms



Reduced wait times between procedures and after storage.

Safe transportation to make ready-to-use scopes available anywhere, anytime.



Sustainable solution, certified eco-balance

Safe storage of ready-to-use scopes for up to 31 days²⁾

Space saving storage of endoscopes with no restriction on number

Prevents infection risks in storage and transport

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Triple Aim

MEDICAL

¹⁾ see Technical Data section

²⁾ 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.

PlasmaTYPHOON+

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The PlasmaTYPHOON just got even better

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What's new with our premium solution PlasmaTYPHOON+?



Enhancing hygiene and patient safety

Accelerated drying for EUS scopes in just 3 minutes



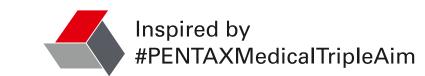
Boosting hospital efficiency and traceability

Full traceability and connectivity to hospital networks and data management systems



Maximising productivity in endoscope reprocessing

- Intuitive touch panel with guided process control
- Improved embedded automatic validation with integrated alarms
- Connector tubes can remain attached between drying and storage cycles, accelerating turnover time and reducing the need for additional maintenance





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CE Medical device class I

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