

OLYMPUS

Your Vision, Our Future



ENDOSCOPIC REPROCESSING ETD DOUBLE

Advancing the Efficiency of Reprocessing.



ETD DOUBLE: INTRODUCING THE FIRST OLYMPUS PASS-THROUGH WASHER-DISINFECTOR

With the ETD Double, Olympus Has Advanced Its Long Tradition of ETD Machines, Enabling the Strict, Physical Separation of Clean from Dirty.

This new concept is designed to:

- Optimize your work flow
- Provide you with hygienic results at the highest level
- Ensure the safety of your patients and employees
- Protect sensitive, high-tech endoscope instruments

Reputable High Quality with a Tradition-Rich History

Olympus has broad experience in endoscope reprocessing that spans more than 25 years. We use that expertise to constantly optimize and facilitate endoscope reprocessing in your department.

Systematic Approach to Your Endoscope Reprocessing

The systematic Olympus approach to endoscope reprocessing offers all the solutions you need to cover the complete work cycle, from one patient to the next. From transport to automated reprocessing, from storage to documentation – you can count on a uniform, sophisticated concept that gives priority to endoscope hygiene and patient safety.



ADVANCING WORK FLOW EFFICIENCY

The ETD Double Enhances Your Daily routine for a Faster and Smoother Work Flow with a Range of Usability Features:

Simultaneous Reprocessing of up to Three Endoscopes

Meeting the requirements of your busy endoscopy unit, the ETD Double is the first Olympus washer-disinfector to reprocess up to three endoscopes simultaneously.

Loading of Baskets and Connection of Endoscope Channels Is Done Entirely Outside the ETD Double

- Placement of your endoscopes into the basket and connection of endoscope channels to the **ready-to-use adapter sets** is conducted entirely outside the ETD Double
- This allows you to prepare your endoscopes for automated reprocessing while your ETD Double is running a cycle
- Upon cycle completion, the loaded basket can simply be inserted and the next cycle can start
- **No additional manual connections** inside the washer-disinfector are required, speeding up your work flow significantly by decreasing the down time of your ETD Double to a minimum

Easy Placement and Connection of Endoscopes

The **universal one-fits-all basket** can reprocess any type of compatible endoscope.

Ready-to-use adapter sets for Olympus endoscopes and other compatible endoscope brands allow straightforward connection of **up to seven endoscope channels**. The specially developed quick-connect technology allows rapid, individual connection of all endoscope ports.

This innovative principle significantly simplifies the connection of endoscope channels.



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Loading of baskets and connection of endoscope channels fully outside the ETD Double.



Easy connection of endoscopes.



ADVANCING SAFETY

The highest level of safety for your patients, users, and endoscopes is our primary focus. The ETD Double comes equipped with additional, sophisticated safety and monitoring benefits for your endoscope reprocessing. These include:

- Advanced leakage test technology
- Enhanced RFID-based tracing technology
- A sophisticated, independent monitoring system
- Color- and mechanically coded adapter sets

Color- and Mechanically Coded Adaptation Principle

Every single adapter is color-coded to facilitate a straightforward connection of endoscope ports to the ready-to-use innovative adapter sets, with the same color scheme for all dedicated adapter sets.

Furthermore, many connecting pieces are equipped with a laser-engraved icon displaying the suitable endoscope port. Together, these significantly increase secure and rapid connection of adapter sets. Incorrect connection of Olympus endoscopes is prevented by a mechanical lock, enhancing safety during adaptation.

Comprehensive Leakage Test Functionality

The automated leakage test of the ETD Double provides you with precise and stable sensors and pumps for high detection rates of even the finest leaks.



Mechanically coded adapter with laser-engraved icon.



Color-coded adaptation principle.

Ergonomic Machine Loading

The ETD Double washing chamber is positioned at a comfortable, accessible height for users, while the Olympus ETD Double loading trolley allows for height-adjustable placement of endoscope baskets.

Real-Value Documentation

With the ETD Double, you can document the real values of your reprocessing cycle. You can monitor your values during each process on the user-friendly touch display, and this data is also available upon cycle completion in the process-specific record.

Independent Monitoring of Process-Critical Parameters

The ETD Double's innovative independent monitoring system enables supervision of process-critical parameters, such as temperatures and dosage volumes, completely isolated from the main control system. This two-sensor system leads to excellent standards of safety for your patients and your endoscopes.

Compliance with EN ISO 15883

The Olympus ETD Double is fully compliant with EN ISO 15883 -1 and 15883-4. This has been proven with type testing and thorough microbiological testing at a variety of independent hygiene institutes.



ENDOALPHA
DOCUMENTATION

Enhanced RFID-Based Tracing Technology

Olympus RFID-based tracing technology helps to significantly enhance your process safety by extending traceability and transparency:

- The ETD Double is compatible with a variety of traceability solutions, including Olympus ENDOALPHA Documentation
- This enables the clear identification of your endoscopes, users, and chemicals
- Three antennas inside the washing chamber allow the accurate identification of your endoscopes
- Your users conveniently scan their RFID cards before the start and after the completion of a reprocessing cycle
- This ensures the allocation of reprocessing sequences to the executing team member in order to highlight their respective responsibilities

ADVANCING HYGIENE

The ETD Double Is Your Reliable Partner in Endoscope Reprocessing. Thanks to Individual Channel Monitoring in up to Seven Channels and an Advanced Air- and Water-Pressure Principle for Inner and Outer Endoscope Reprocessing, Excellent Hygienic Results Can Be Achieved.

Detection of Blockages at the Individual Channel Level

The ETD Double allows the separate connection of up to seven endoscope channels, so even the most complex endoscopes can be connected. A completely new flow-control system has been developed to effectively detect faulty reprocessing conditions inside function-compatible endoscopes, which include:

- Blocked channels
- Incorrectly connected adapters
- Unconnected adapters

The preinstalled set of reference data for each individual endoscope channels omits the need for manual entry of reference volumes for your endoscopes. This reference data is updated regularly during maintenance or servicing to ensure availability of the latest information.

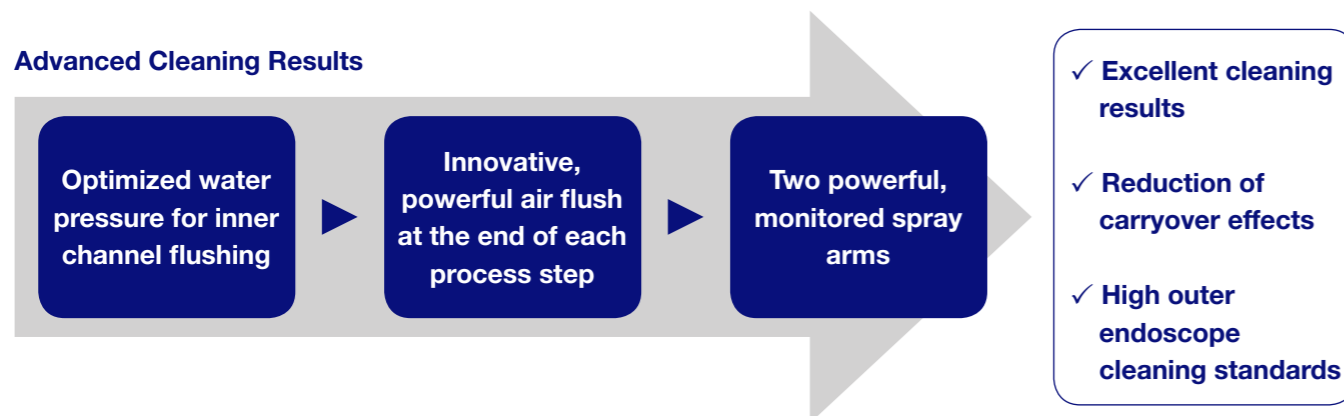
Flow monitoring is applied in every process step, ensuring comprehensive screening throughout the entire process.

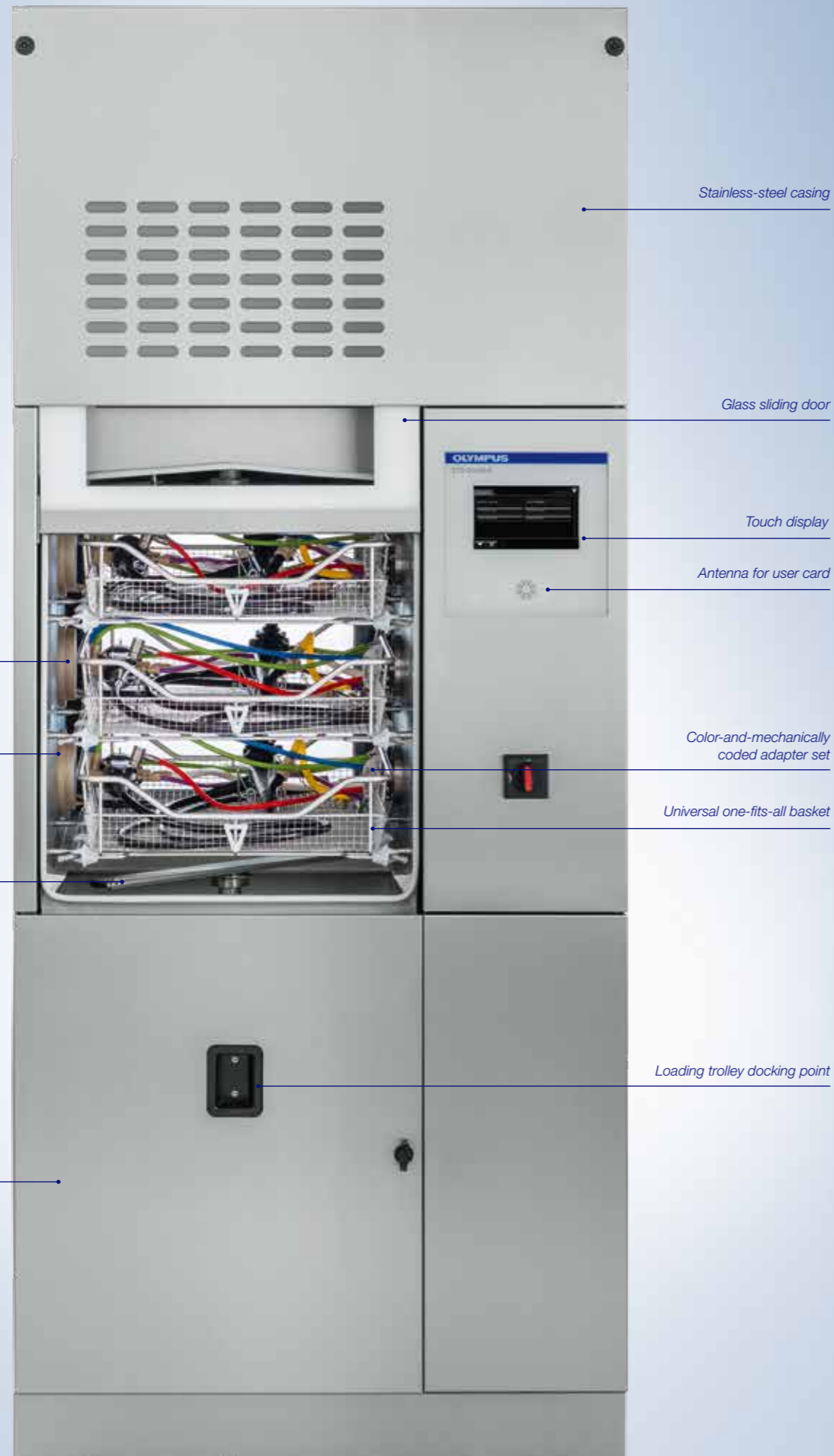
Effective Self-Disinfection

ETD Double's self-disinfection process:

- Operates daily
- Is automatic
- Can be preprogrammed
- Can be activated automatically prior to your daily work schedule
- Guarantees a safe start to your day from the very first cycle

Advanced Cleaning Results





Stainless-steel casing

Glass sliding door

Touch display

Antenna for user card

RFID antenna for endoscope Detection

Up to three endoscopes can be loaded

Color-and-mechanically coded adapter set

Universal one-fits-all basket

Lower spray arm

Process chemistry and RFID antennas for canister detection

Loading trolley docking point

CUSTOMIZED SERVICE AND SUPPORT

Modular Olympus Services

With the ETD Double, Olympus offers a high-quality solution in combination with a well-conceived service portfolio.

With this modular approach, you can:

- Create the solution that fits your work flow
- Increase efficiency
- Reduce costs

Expert Maintenance

You will also benefit from the expert Olympus support service that is always on hand for preventive or corrective maintenance. Detecting minor damage before major repairs are required maximizes uptime while minimizing costs.

Essential Validation

The validation module includes the full range of operational and performance qualification tests in compliance with the requirements of EN ISO 15883-1 and 15883-4. These tests monitor and document the reliability and security of your endoscope reprocessing work flow end-to-end.

Convenient Remote Service

The remote service module gives our engineers efficient remote access to your equipment. Troubleshooting can be performed centrally, minimizing downtime due to on-site visits to your facility.

Expert Help-Desk Support

The Olympus help desk is here during business hours to answer all your queries, troubleshoot problems with you, and, when needed, refer you to the right Olympus specialist to help you.

Focused Training

All relevant staff members receive dedicated modular training in how to handle Olympus equipment, so you can be sure that you are getting the best from your ETD Double at all times.



ETD DOUBLE

ETD Double		
	Type/versions	ETD Double
	Capacity	3 flexible medical endoscopes
	Process	Compatible with Olympus PAA process chemistry
Specifications	Programs	<ul style="list-style-type: none"> · Standard programs for flexible medical endoscopes with different drying options · Thermoprogram for rigid instruments · Thermal self-disinfection
	Outer casing and frame	Stainless steel
	Interfaces	LAN printer port
	User interface	7-inch multicolor touch displays on both sides
	Dimensions	ETD Double unit
Weight	ETD Double unit	≤570 kg
Water Supply	Process water: Cold water and/or demineralized water and/or cold water (drinking water according to microbiological quality)	Water hardness: Max. 4°dH Temperature: Max. 30°C
	Water for optional steam condenser (cooling circuit is also possible)	Tap water Temperature: Max. 20 °C
Electric Power Supply	Voltage / frequency	400 V / 50 Hz
	Fuses	3 × 16 A
	Power consumption	10.5 kW
Ambient Operating Conditions	Ambient temperature	5–40°C
	Relative humidity	10–80% at max. 30°C
Discharge Connections	Plumbing	DN50
	Height of discharge connection	Floor-level drain or optional drain pump (height max. 1.5 m)
Compliance Status	Certificates	<ul style="list-style-type: none"> · Manufactured according to DIN EN ISO 13485 · Manufactured according to DIN EN ISO 9001 · Manufactured according to DIN EN ISO 14001 · CE marking according to 93/42/EWG, Class IIb · Fulfills DIN EN ISO 15883-1/2/4
	Safety	Fulfills DIN EN 61010-2-40
	EMC	In accordance with 2004/108/EC directive Fluid category 5
	Protection against pollution of potable water	Fulfills DIN EN 1717
	RoHS	In accordance with 2011/65/EC RoHS directive

Specifications, design, and accessories are subject to change without any notice or obligation on the part of the manufacturer.