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.
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

**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.

**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.
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 channel 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
- Optimized water pressure for inner channel flushing
- Innovative, powerful air flush at the end of each process step
- Two powerful, monitored spray arms
- Excellent cleaning results
- Reduction of carryover effects
- High outer endoscope cleaning standards
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 workflow 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

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Details</th>
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<tbody>
<tr>
<td><strong>Type/versions</strong></td>
<td>ETD Double</td>
</tr>
<tr>
<td><strong>Capacity</strong></td>
<td>3 flexible medical endoscopes</td>
</tr>
<tr>
<td><strong>Process</strong></td>
<td>Compatible with Olympus PAA process chemistry</td>
</tr>
</tbody>
</table>
| **Programs** | · 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 |

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Details</th>
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<tbody>
<tr>
<td><strong>ETD Double unit</strong></td>
<td>W × D × H: 900 × 830 × 2140 mm</td>
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<tr>
<td><strong>Weight</strong></td>
<td>≤570 kg</td>
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<thead>
<tr>
<th>Water Supply</th>
<th>Details</th>
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</table>
| **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 |

<table>
<thead>
<tr>
<th>Electric Power Supply</th>
<th>Details</th>
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<tbody>
<tr>
<td><strong>Voltage / frequency</strong></td>
<td>400 V / 50 Hz</td>
</tr>
<tr>
<td><strong>Fuses</strong></td>
<td>3 × 16 A</td>
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<tr>
<td><strong>Power consumption</strong></td>
<td>10.5 kW</td>
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<table>
<thead>
<tr>
<th>Ambient Operating Conditions</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ambient temperature</strong></td>
<td>5–40°C</td>
</tr>
<tr>
<td><strong>Relative humidity</strong></td>
<td>10–80% at max. 30°C</td>
</tr>
</tbody>
</table>

<table>
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<tr>
<th>Discharge Connections</th>
<th>Details</th>
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</thead>
</table>
| **Height of discharge connection** | Floor-level drain or optional drain pump  
(height max. 1.5 m) |

<table>
<thead>
<tr>
<th>Compliance Status</th>
<th>Details</th>
</tr>
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</table>
| **Certificates** | · 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.

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