

# OLYMPUS

Your Vision, Our Future

Endoscope Reprocessing

miniETD2

Automatic Endoscope Reprocessor



miniETD2 – the small reprocessor with the big performance.



Covering all requirements in endoscope reprocessing.

Hygienic safety for patients and medical staff as well as legal safety at the highest level is a demanding challenge. With the miniETD2, Olympus provides the latest innovations in endoscope reprocessing for smaller endoscopy departments and private practitioners.

The miniETD2 not only offers an ETD System for single scope reprocessing, but also provides more flexibility for endoscopy units seeking to gain more reprocessing capacity. The outstanding disinfection characteristics of peracetic acid (PAA) provide doctors, medical staff and hospital administrators with a new dimension in single scope reprocessing.



#### A cooperation of excellence.

With Miele Professional and Ecolab, Olympus has two partners who offer the best in automated reprocessing and infection control. The combination of unparalleled experience and expertise in all relevant areas of hygiene in endoscopy make this cooperation highly effective – to your advantage and safety.



Thanks to extensive testing, all components of the system are perfectly tuned.

Highest quality standards for smaller endoscopy units.

The PAA process prevents any formation of biofilms, is not volatile, does not harm users' and patients' health and the process runs faster and more effectively!

Designed for smaller endoscopy units with the need to reprocess one endoscope at a time.

The miniETD2 is compact in size. Only 60 cm in width, the miniETD2 saves space.

Endoscan2 option provides comprehensive documentation.



# The Peracetic Acid process: 100 % glutaraldehyde-free and 100 % peace of mind.



PAA – outstanding chemical properties for excellent results.



**Improved chemicals provide enhanced protection.**  
The peracetic acid process combines numerous advantages and gives doctors, nurses and hospital administrators peace of mind.

This process marks a new level in endoscope reprocessing:

- Prevents any formation of biofilms
- Not volatile
- Does not harm users’ and patients’ health
- Runs faster and more effectively

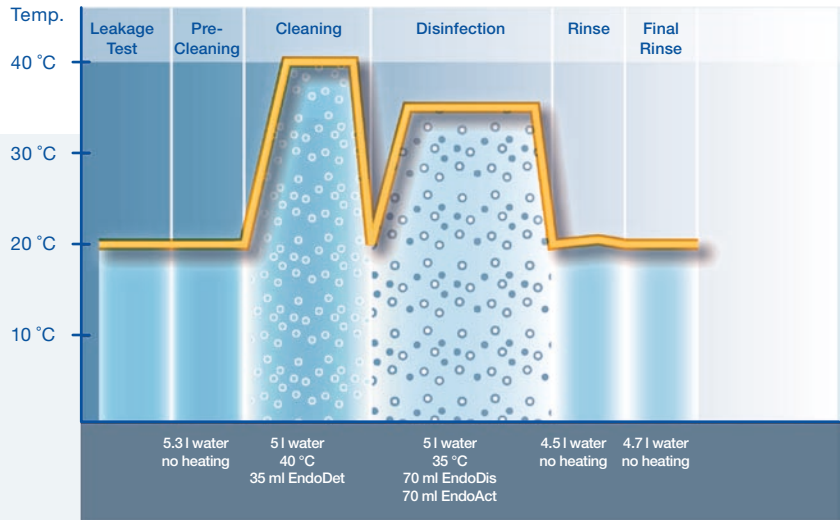


The ETD System provides full compatibility with Olympus endoscopes.



## Save time and money with shorter reprocessing cycles.

The excellent disinfection characteristics of peracetic acid allow the miniETD2 to perform the disinfection at a temperature of just 35 °C. This considerably reduces the amount of time it takes for the water to heat up and thus significantly shortens the entire reprocessing cycle. The endoscope is ready for use more quickly, and the cost-effectiveness of your investments noticeably increases.



The PAA process disinfects at a process temperature of only 35 °C.

# No room for speculation: Verified quality and effective prevention of repairs.



## Reliable disinfection results confirmed by laboratory reports.

Independent hygienic expert reports have verified the reprocessing results of the miniETD2. The test results confirm the reliable cleaning, disinfection and hygienic safety of the miniETD2 system according to state-of-the-art international standards.

Tests of miniETD2 with peracetic acid (PAA) process	Laboratory
1. Type testing acc. to EN ISO 15883 (in progress)	Institute of Technical Hygiene, Charité Berlin (Germany) Institute of Hygiene, Gelsenkirchen (Germany)
2. Bactericidal, mycobactericidal, yeasticidal, virucidal and sporicidal efficacy of PAA process chemicals	Ecolab (Germany)
3. Efficacy against Clostridium difficile spores	Institute of Hygiene, University Bonn (Germany)
4. Non-sensitising effect of rinse water	Henkel KGaA (Germany)
5. Ecological evaluation of EndoDet, EndoDis and EndoAct	Ecolab (Germany)
6. Hazard assessment EndoDet, EndoDis and EndoAct	Ecolab (Germany)

The miniETD2 is also available with the Olympus glutaraldehyde process instead of the PAA process.

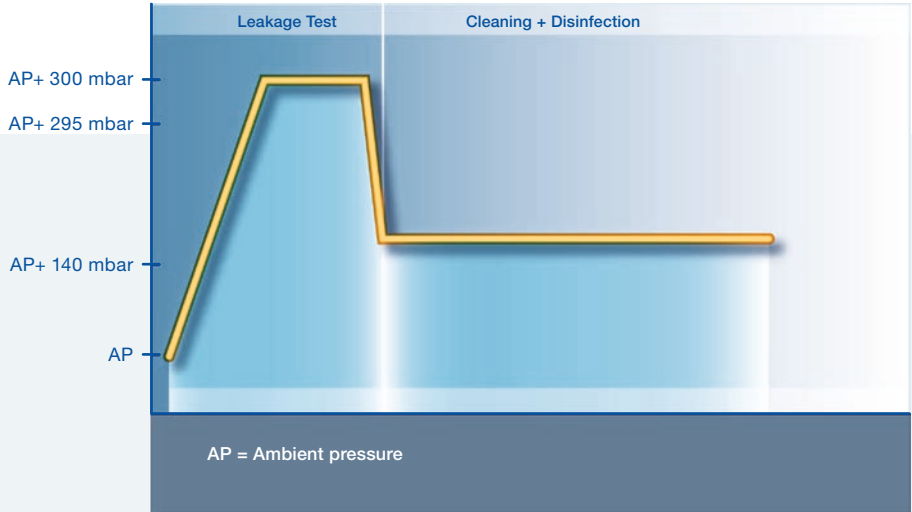


## Detects the slightest leakage before it causes major damage.

The leakage tester checks all endoscopes thoroughly for leakage, thereby identifying potential problems before they are able to cause serious damage. This is an effective way of preventing the need for repairs, since damages due to fluids entering the endoscopes are the most common cause for costly repairs.



The leakage tester helps to prevent repairs.



The leakage tester prevents fluids from entering your endoscopes.

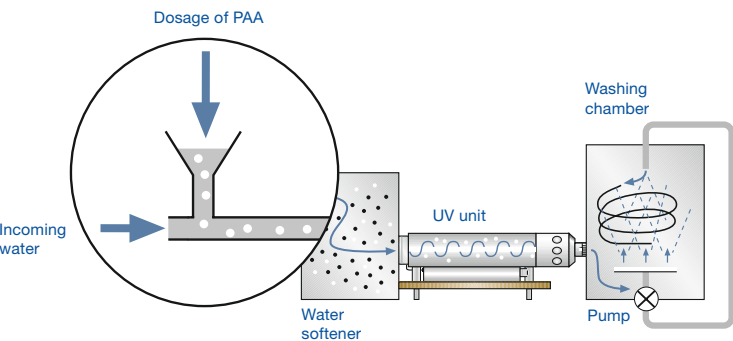


A new meaning of decontamination.



Revolutionizing the decontamination of the rinse water.

Using PAA also revolutionizes the decontamination of the rinse water in the miniETD2. Just a small amount of peracetic acid in the rinse water has a bacteriostatic effect. In conjunction with the UV light unit, this innovative concept prevents the endoscope from being recontaminated by the rinse water. As there is no more need for heating the rinse water, this method contributes substantially to the reduction of the overall cycle time.



Small quantities of PAA in conjunction with the UV unit prevent recontamination of endoscopes.



Improved rinse water treatment with UV unit.

The miniETD2 comes with a UV unit and assures high water quality at all times. An effective reduction of water bacteria is achieved in combination with the addition of PAA to the rinse water. Together, these two methods ensure that the chemical and microbial quality of the rinse water do not impair the standard of cleanliness and disinfection of the endoscopes.

It’s the small details that make the difference.

The correct disinfection concentration is ensured at all times!

With volumetric dosage monitoring, the proper dosage of chemicals in the miniETD2 is constantly monitored. The dosage quantities of all chemicals are measured using an impeller rotation counter. This direct volumetric control guarantees the correct and precise dosage of chemicals and consequently the correct concentration of the disinfection solution.



Fully automatic process.



Reprocessing reports provide legal and hygienic safety.

Endoscan2 option is available for more legal protection.

With the Endoscan2 option, you can upgrade your miniETD2 system and produce a report for each cycle. This includes:

- serial number of the miniETD2
- type and serial number of the reprocessed endoscope
- name of the person who started the miniETD2 cycle
- all process parameters
- report that all reprocessing parameters were correct and that a proper reprocessing result has been achieved


A new dimension of safety and technology.

Scope capacity	Reprocessing of one endoscope per cycle	
Safety features	<ul style="list-style-type: none"><li>• Permanent level control of cleaner, disinfectant and activator containers and processing water in the washing chamber</li><li>• Independent temperature control</li><li>• Volumetric dosage control of chemicals</li><li>• Validation of disinfection result</li><li>• Automatic leakage testing and permanent pressure monitoring</li><li>• Safety stop for critical air/water temperature</li><li>• Electronic safety door lock</li></ul>	
Data interfaces	RS 232 serial interface	
Power supply miniETD2 with single heater	Voltage: AC 230 V; Frequency: 50 Hz; Voltage fluctuations: -10 %/+6 % Power consumption: 3.3 kW; Heating capacity: 3.1 kW	
Power supply miniETD2 with double heater	Voltage: 2NAC 400 V; Frequency: 50 Hz; Voltage fluctuations: -10 %/+6 % Power consumption: 6.3 kW; Heating capacity: 6.1 kW (only with 400 V)	
Ambient operating conditions	Ambient temp.: 5–40 °C Relative humidity: 30–85 %	
Water supply	Warm/cold water (drinking water quality) PAA process: up to 30 °C controlled by thermostat or cold fill Glutaraldehyde process: up to 35 °C or cold fill Water pressure: 2–10 bar Flow rate: 4.9 l/min Water consumption: STDRD ENDODIS: 24.5 l*) Max. water hardness: *) according to standard settings; without additional rinsing phases and regeneration 35° dH	
Discharge connections	Connection via: odour free lock, to be used separately Hose type: Poly-Rex hose, diam.: 22 mm Hose length: can be extended to 4 m	
Dimensions	Width: 600 mm Depth: 600 mm Height: 850 mm	
Net weight	miniETD2 with water softener: 80 kg	
Max. floor loading	In operation: 950 N	


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




Maximum features for maximum results.




ETD System




Easy Installation




Easy Operation




Verified Quality




Time Saving




PAA Process




UV Disinfection



Endoscopy Systems Integration



Leakage Tester



Rinse Water Treatment

miniETD2

Your Olympus partner

