

WD 430

Endoscope reprocessing with single-channel control.
For maximum safety of patients and users.

Fully automated reprocessing of flexible thermolabile endoscopes* – hygienic and safe

Endoscopic examinations are an integral part of everyday clinical practice. They make a valuable contribution to the early detection of diseases and facilitate their treatment. The complexity is comparatively low and the method is considered particularly safe. The efficient cleaning and disinfection of flexible endoscopes can effectively minimize the risk of infection transmission – for maximum safety of patients and device users.

Complete hygiene

Manual precleaning directly after use on the patient still forms the basis for hygienic reprocessing of flexible endoscopes. This is emphasized for example by the applicable WHO guideline (Decontamination and Reprocessing of Medical Devices for Healthcare Facilities, 2016).

The standardized and reproducible processes of fully automated chemothermal endoscope reprocessing achieve far more reliable results than manual or semi-automated processes. Thermally disinfected final rinsing water significantly contributes to this process.

Fast and resource-saving thermal self-disinfection

The EN ISO 15883 standard prescribes regular self-disinfection of cleaning and disinfection systems. The thermal self-disinfection program of the WD 430 doesn't require any chemicals and only takes 40 minutes. This not only saves a lot of time, but also reduces costs.

Affordable safety

Professional washer-disinfectors are worth the investment. With the growing number of endoscopic interventions, the need for safe reprocessing is increasing. Such reprocessing minimizes the risks and optimizes overall costs thanks to reproducible and reliable processes.

Dimensions	WD 430
Outer dimensions, single-door model with top cover and door handle, H x W x D (mm)	910 x 900 x 640
Outer dimensions, double-door model with top cover and door handle, H x W x D (mm)	910 x 900 x 740
Washing chamber dimensions, H x W x D (mm)	300 x 590 x 480
Capacity per load	
Flexible endoscopes (pieces)	max. 2



*For better readability, flexible endoscopes are used below



The washer-disinfector WD 430 – a benchmark for patient safety

Our developments focus on the safety of patients and medical staff. The WD 430 washer-disinfector, with maximum process quality, reliably prevents the transmission of infection caused by contaminated endoscopic instruments.

Endoscope reprocessing with single-channel control

Belimed FlowControl is a unique channel flushing system. It guarantees reproducible cleaning and disinfection of each channel. The automatic single channel control function measures and monitors the flow of liquid in all channels – including the jet and Albarran channels. This enables the WD 430 to detect blocked or unconnected channels.

Protection against recontamination

The complete separation of clean and unclean areas provides effective protection against cross-contamination. This is why the WD 430 is also available as a dual-door version with two-way door lock.

Redundant control mechanisms

Separate monitoring and control, dual sensors: thanks to redundant control mechanisms, the WD 430 features maximum possible process reliability. If relevant performance parameters deviate from set values, the WD 430 generates a fault message and, if necessary, aborts the program immediately.

If the conductivity value of the final rinse water does not meet the specifications, the system performs a further rinse cycle. All data is recorded automatically, enabling seamless tracking and evaluation of all processes. This also reduces the effort and complexity required for operationally prescribed routine tests.

Maximum performance in minimum space

The WD 430 is a highly efficient and compact washer-disinfector. With tangible benefits – improved ergonomics, a smaller footprint, and maximum flexibility during installation.

Small footprint

The WD 430 washer-disinfector features advanced technology in an extremely compact housing. With a width of only 900 mm and a depth of 575 mm (615 mm with the two-door version), the unit meets any spatial challenge effortlessly.

Ergonomic use

The WD 430 is available as an under-bench variant or with a base. The base allows users to operate the unit at an optimal working height. A comfortable, ergonomic position is thus possible, especially when loading and removing the endoscopes.

Easy installation

The WD 430 cleaning and disinfection device is quick and easy to install. Only connections for water, DI water, and electricity are needed. The exhaust air condenser is already integrated. Seamless installation in a CSSD by connection to on-site exhaust air is also possible.

Convincing economic efficiency

With Belimed, you save costs and protect your investments. The WD 430 is characterized by economical use of water, detergents, disinfectants, and energy.

Flawless reprocessing and low consumption

With the WD 430, Belimed makes an active contribution to the cost-effectiveness of endoscope reprocessing. Optimally designed washing arms enable outstanding cleaning performance with low water consumption. The detergents can be stored in two 5-liter canisters directly in the unit. The need for long supply lines is thus eliminated. If the unit is configured with an optional base, up to three 10-liter canisters can be stored and connected inside it.

Effective final rinsing – recontamination eliminated

The final rinse is performed with thermally disinfected water in accordance with the recommendations by the Robert Koch Institute (RKI). This ensures a consistent quality of the final rinse water and effectively prevents endoscope recontamination. The heating process including indirect recooling is performed simultaneously with the ongoing cleaning process.

Safe and gentle reprocessing

The leak tightness of the endoscopes is continuously monitored during reprocessing, effectively preventing damage caused by water penetration. The test pressure can be set individually for all endoscope types and saved in the control system. To protect against overheating, the WD 430 relies on triple temperature control: via the control, via separate sensors, and via a safety thermostat.



Standard-compliant reprocessing of flexible endoscopes

Our WD 430 washer-disinfector for commercially available flexible endoscopes stands for performance, quality, and safety. All requirements of EN ISO 15883-1, -2*, and -4 are fully met in the tested configurations. This ensures the safe reprocessing of your endoscopic instruments.

Hygienic safety

The WD 430 is always in a microbiologically flawless condition. We guarantee this with automatic self-cleaning and self-disinfection after defined downtimes. All flushed components are thermally disinfected, completely drained, and dried.

High-quality materials

The WD 430 is well equipped for intensive use. The washing chamber is constructed of high-quality 316L stainless steel as standard. The use of robust machine components, from pumps and valves to ventilation fans, makes the unit particularly durable, along with low-fault operation.

Compliant with standards – current norms are fully met

Tested and certified by accredited, independent hygiene institutes: the WD 430 fulfills the requirements of all applicable guidelines, both country-specific and international, and is fully compliant with EN ISO 15883-1, -2*, and -4.

*EN ISO 15883-2 only valid for thermostable endoscopy auxiliaries

Versatile in application, simple in operation

User-friendly endoscope connection concept

The preconfigured Belimed adapter system ensures reliable connection of your endoscopes. Tubes and adapters can be clearly identified by color coding. Thanks to the continuously updated reference database, new endoscopes can be integrated into the system quickly and easily.

Ease of operation

High user comfort and intuitive operation are ensured by clear menu navigation and an illuminated display. Important process data, such as remaining running time, readiness for loading, or removal and fault messages, are displayed on the clearly visible status display.

Wide range of applications

Thanks to high-quality materials, components, and parts, flexible endoscopes can be reprocessed with peracetic acid or glutaraldehyde in the WD 430. The unit is suitable for the reprocessing of flexible endoscopes from all common manufacturers.

Clear identification

The WD 430 washer-disinfector for flexible endoscopes is supplied as standard with a barcode reader. This provides additional speed and security with data acquisition: the barcodes on the endoscopes can be read in seconds. The data is recorded and documented automatically and is thus clearly traceable.

Seamless traceability

Belimed software solutions provide an optimal interface between our devices and your instrument tracking system. This allows you to provide proof of proper endoscope reprocessing without having to invest any additional time. Data is reliably delivered in real time, enabling paperless quality documentation. The cycle documentation can be retrieved in the form of a PDF via a network PC and printed on any network printer.

During each service visit, we store the device data as a backup copy for performance analysis. This means you benefit directly from our knowledge of the performance of your devices and systems.

Clearly arranged storage of adapters

A qualitative adapter system also includes proper storage solutions. With the Belimed wall holder, endoscope adapters are stored simply, clearly, and ready to use.

Compatible with: Drying and storage cabinet with controlled environmental condition

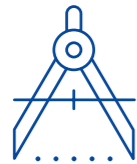
Smartline Medical's drying and storage cabinets have a fully independent ventilation system, therefore no additional hospital infrastructure is required. Installation runs on a "plug & play" principle, without additional requirements. A touch screen displays the storage time and environmental condition of the endoscope. In addition, remote access enables all service functions as well as round-the-clock monitoring of the environment. The products comply with all relevant standards including EN 16442.



Specifications	RotaScope (IQ)	SlidaScope (IQ)
Dimensions, H x W x D (mm)	2,363 x 600 x 600	1,862 x 600 x 600
Weight	130 kg	150 kg
Capacity	9 endoscopes	8 endoscopes
Storage type	vertical/hanging	horizontal/tray
Air supply	Integrated air system; HEPA filter	Integrated air system; HEPA filter
Power supply	240 V/10 A	240 V/10 A
Power consumption	180 Watts	180 Watts
Noise level	47 dB	47 dB

Belimed supplies systematic solutions

The washer-disinfector WD 430 is the machine for efficient reprocessing in your CSSD or endoscopy department. As Engineers of Confidence, we at Belimed think even further than that. We offer a perfectly tailored approach in the areas of planning, technology and service.



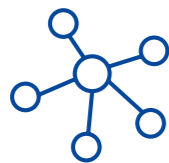
Belimed Blueprint

The planning and design team develops tailor-made solutions for various needs, goals and space requirements – from analysis to installation.



Belimed Protect™

Our detergents guarantee optimal cleaning and disinfection performance and outstanding material compatibility.



Belimed Connect

Our digitalization portfolio enables us to guarantee perfect documentation of automatic cleaning and disinfecting thanks to complete connectivity.



Belimed Prevent™

With our service packages, we offer preventive maintenance and provide you with comprehensive support. Our focus is on ensuring your success.



Belimed Academy

The training we provide enables us to pass on the knowledge needed by our customers and partners to get the most out of their CSSD.



Matching auxiliaries

Matching racks, adapters and auxiliaries provide you with even greater flexibility.

The WD 430 – an overview

The WD 430 washer-disinfector is used for reprocessing flexible endoscopes in hospitals (CSSDs and endoscopy units). The appliance cleans and disinfects flexible endoscopes of various types and manufacturers. The WD 430 can reprocess two endoscopes with up to five channels, or one endoscope with up to ten channels. With extremely small dimensions (900 mm), the unit ensures process throughput in the smallest of spaces.

Developed for patient safety

- The highly functional single-channel control unit guarantees that each individual channel in the endoscopes is reproducibly cleaned and disinfected (Belimed FlowControl).
- Independent process control (IPD), dual execution of process-relevant sensors, signal processing on separate CPU.

Tested safety for highest cleaning and disinfection performance

- Compliance with EN ISO 15883-1, -2* and -4, verified by accredited, independent hygiene institutes. The WD 430 type test, which also included the endoscope, adapter and chemistry components, showed the highest effectiveness of the cleaning and disinfection processes.

*EN ISO 15883-2 only valid for thermostable endoscopy auxiliaries

Protection against recontamination

- Genuine room separation into clean and unclean work areas with dual-door design.

User-friendly endoscope adapter connection concept

- Preconfigured adapter system guarantees the safe connection of flexible endoscopes from all common manufacturers.

High-quality, durable design with minimum footprint

- Durable stainless steel components enable thermal disinfection of the AER. Extremely compact design, available with a base or as an under-bench unit.

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Belimed
Infection Control

Engineers of Confidence.