

Reliable, Performance Driven and Resource Responsible: The WD Family of Washer-Disinfectors



WD 230 / WD 250 / WD 290
Cabinet style washer-disinfectors for all applications



Better, More Consistent Results

Belimed's focus is ensuring that the two critical functions of a washer, cleaning and disinfecting, are performed to maximize safety and efficacy for staff and patients.

Soaking, penetrating wash: Higher performance cleaning

Belimed washers use a high volume flow, low impingement approach to ensure that the items to be cleaned are thoroughly soaked. This is accomplished by circulating a small amount of water, at a rapid rate through wash arms with many large holes, allowing the water, and detergents, to get into all areas of the item so the cleaning agents can do their job. The result - a deep, consistent cleaning action.

Compared to a high impingement wash approach, which uses a lower volume water flow and a higher pressure spray arm, the Belimed philosophy ensures that more water washes over and through the items, taking away loosened soils during wash, and detergent residue during rinse.

Effective cycle times: No shortcuts

The standard 30 to 32 minute cycle includes a full 5 minutes of wash, 2.5 minutes of thermal disinfection and 8 minutes of dry time - almost twice as much time as some competitive models. Why risk results, with a significantly cut-down cycle, which may leave un-clean or wet instruments, creating the need for additional manual drying or even reprocessing. Our full cycle ensures clean, dry items on a consistent basis - no compromise.

Stringent disinfection: A0 value of 3000

The A0 value, part of the international ISO/EN155883 standard, is a measure of the effectiveness of thermal disinfection, and is a function of temperature and time. Belimed's programmable microprocessor control and sensor system ensures that an A0 value of at least 3000 is attained during the disinfection step.

While most washer-disinfectors attain a theoretical A0 value of 600, the minimum for instruments per ISO/EN155883, Belimed washers set the bar higher for increased effectiveness against heat resistant organisms. Added assurance that clean side personnel are provided instruments that are safe to handle.

Complete system drainage: Minimizes cross contamination

The design and construction of Belimed washer chambers, associated piping, and valves virtually eliminates the risk of carryover between each phase of the cycle. By locating the drain at the lowest point of the water circulation the entire system is drained completely after each step. All the water, along with any contaminants, is sent to the drain, leaving no water behind to contaminate the next step or cycle.

Resource Responsible Design

The Belimed commitment to efficient and effective use of all resources is a 40 year legacy of reducing operational cost through minimizing the use of utilities, improving space utilization and maximizing personnel efficiency.

SmartFill Technology: Reduces resource use up to 20%

Belimed's unique "SmartFill" technology is able to actively assess the amount of goods to be washed and then adjusts the water intake to the minimum needed for an effective step. The result is that water consumption is automatically reduced with smaller loads. Water use, per cycle, is a general indicator of the use of other resources, such as detergents, steam and electricity used to heat the water, so these are also reduced with SmartFill.

Lowest water use per tray

Through the combination of SmartFill technology and our soaking penetrating wash approach, water use per cycle is reduced considerably. The WD 290, with up to a 50% larger chamber capacity of 15 DIN trays and water use as little as 8 gallons per fill, delivers the lowest water use and highest productivity in the industry.

Space saving design

With a width of only 35.4" (900 mm) and a maximum height of 72.4" (1840 mm), the Belimed WD family of washer-disinfectors achieves the smallest footprint to capacity ratio of any unit on the market.

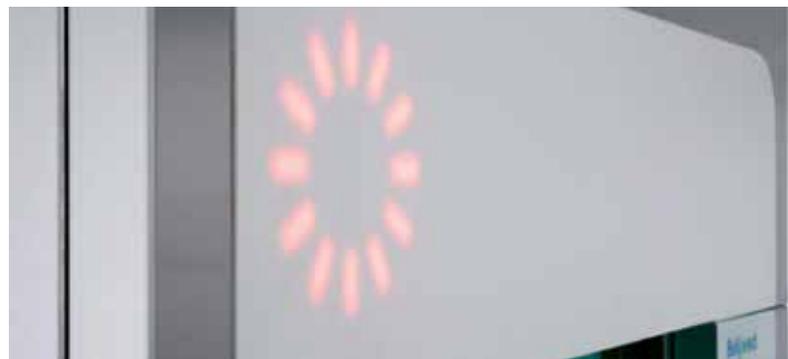
Brightly lit cycle indicator: Time saving and easy to see

The large, illuminated cycle countdown indicator, located up high on the WD 290 washer, is a quick and easy way for personnel to quickly determine, from across the room, the amount of time remaining in the cycle. When complete, the indicator will flash white until the load is removed, and the operator will be immediately alerted to take action. By promptly unloading the washer valuable time can be saved, increasing the throughput of each washer.

Additionally, if an error situation occurs the indicator will flash bright red, quickly alerting the operator to take action.

High-performance drying: Effective and quiet

Two powerful blowers are used in the high-volume flow Belimed dryers. Before being circulated through the chamber, the air used for drying is first pulled through an in-line HEPA filter to remove particulates and other contaminants. Although the drying achieves an unrivaled performance in efficiency and time, operating noise levels are kept to a low level, for a more comfortable work environment.





Automation helps streamline the decontamination process and increase productivity. Operating staff are able to prepare several racks at once and time is saved as loading and unloading of the washers is carried out automatically, without personnel involvement.

Automation systems improve work efficiency

Automation and queuing options for the WD 250 and WD 290 provide flexibility for work flow design and an effective solution for surges in daily re-processing demands.

Automation and queuing provide greater efficiency

The fundamental requirement for a return on investment is to maximize the washer-disinfecter's throughput capabilities. With automation systems, several racks can be queued simultaneously on the loading conveyors. The rack is automatically transported into the next available washer and the rack's cycle code is read by the washer to select the proper cycle. Once the cycle has been completed and verified, the rack is automatically unloaded to the clean side conveyor system. At peak flow times, the queuing ability ensures that the washer-disinfecter is constantly in use, avoiding lost processing time. An automated washer system allows operating staff to focus their efforts in areas other than the loading and unloading of washers.

In addition, the CSSD gains valuable operating time as the system can independently handle the queued racks at the end of the working day without personnel involvement.

Solution Options: Matching your processing needs

Belimed has the solution to improve your washing and personnel efficiency with a variety of automation and queuing options. From a power assisted load from a cart coupled with automatic unload, to a straight-in straight-out (SISO) conveyor system or a fully automated closed loop system with integrated return conveyors and single point load, all WD290 options boast a 270 lb rack capacity.

Ergonomic and efficient staff interaction

The Semi Automatic load and unload option for the WD 290 washer provides ideal ergonomics for loading and unloading, in a space efficient package.



Assisted load from the transport cart

Simply docking the cart to the washer will start the loading process. The washer automatically senses the cart and opens the glass door in preparation for loading. The operator begins the assisted load by pushing the rack a couple of inches. The washer then picks up the rack and completes the loading, automatically, closes the door and starts the cycle indicated by the wash rack coding.

Automatic unload

When the cycle has completed the washer will automatically flash the countdown indicator, open the clean side door and unload the clean, dry instruments onto a conveyor. The decontamination side personnel can then load the next rack, maximizing their productivity.

Ergonomic and economical

With the WD 290's increased load, and larger weight capacity, proper ergonomics becomes a critical factor for the operators. The power assisted load eliminates the most challenging portion of the process; pushing a heavily loaded rack far away from the body. The fully automatic unload completely eliminates the strain of pulling the rack out of the washer after the cycle has completed.

This unique option also provides an economical approach to improving the efficiency of the CSSD. In a CSSD with limited space on the decontamination side the semi-automatic option adds efficiency when a fully automated system will not fit. And, depending upon available space on the clean side, the unload conveyor can be increased to a two rack capacity for times when the decontamination side team is tasked with re-processing large amounts of instruments through to the clean side as quickly as possible.

Setting higher expectations for Sterile Processing

Advanced engineering in the WD family of washer-disinfectors created an efficient, compact, and user-friendly product line, setting new standards in terms of reliability, performance, and resource consumption.



Three models for greater flexibility

Belimed offer three models: WD 290, WD 250 and WD 230 each available with either steam or electric heating. This allows you to match the features and performance of the washer-disinfectors precisely to your specific requirements.

Maximum performance, minimum footprint

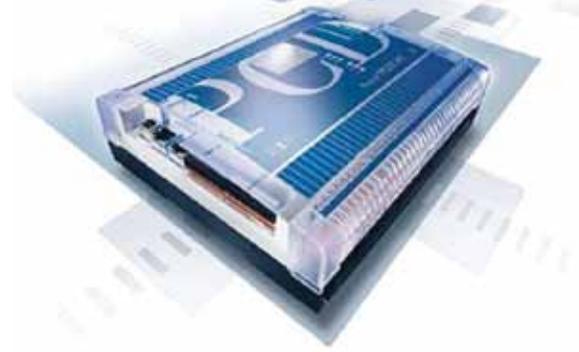
High productivity is combined with minimal space requirements, taking full advantage of the typically limited space available in the CSSD. With capacities of up to 10 DIN trays for the WD 230 and WD 250, and up to 15 DIN trays for the WD 290, the WD family is the most efficient and compact washer/disinfector in its class.

Lowest water consumption

The WD family of washer-disinfectors achieves maximum resource efficiency through inventive engineering design. Our innovative technologies, including our unique SmartFill technology, reduce per tray water consumption to the lowest levels in the industry.



A state-of-the-art PLC facilitates access to sterilizer data and integrates seamlessly with Belimed ICS 8535 for user-friendly data archiving



Simple documentation and fully integrated data solutions

As part of their quality management system more and more hospitals need to generate and store detailed, seamless data cycles performed by their CSSD equipment. With the Belimed ICS 8535 cycle documentation system, which is compatible with all Belimed washers and sterilizers, we offer an IT-based solution for ensuring seamless traceability of medical devices between reprocessing and use in the operating room.

Cycle documentation with integrated printer

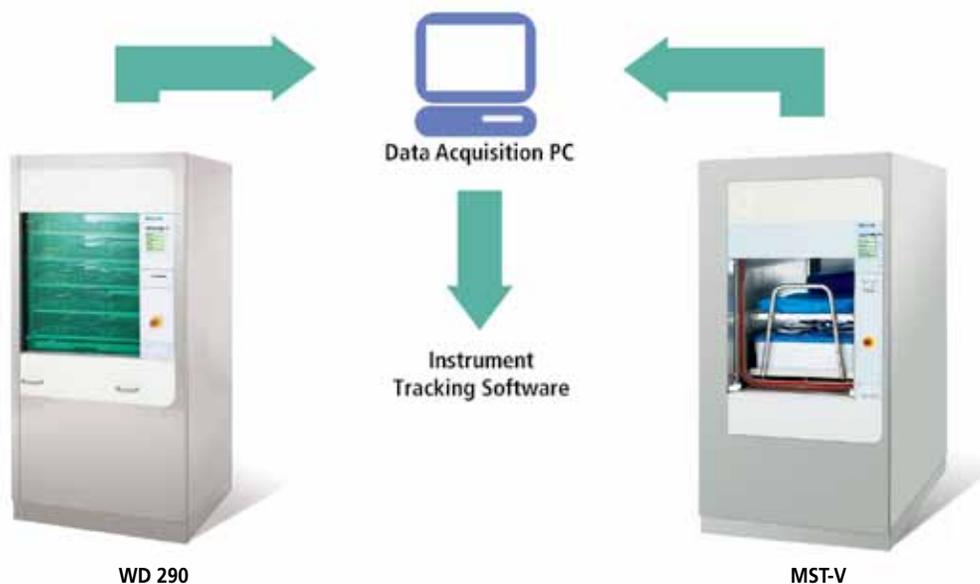
An optional integrated printer records and prints key cycle data on a paper strip. The basic requirements for documentation can be met without the need for any additional software.

Seamless data traceability

The Belimed ICS 8535 cycle documentation system can be integrated into existing IT systems, such as instrument management or tracking software. Through open architecture software design, the cycle data can be sent directly to all current software systems on the market, allowing for full traceability of instruments from CSSD to the OR and to the patient. Belimed has extensive experience in implementing systems with the leading instrument tracking providers.

Detailed cycle reports for seamless documentation

All the necessary process data and information is recorded by the optional Belimed ICS 8535 cycle documentation system and archived on an external data storage device. The data can be retrieved at any time to print out detailed cycle reports.



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