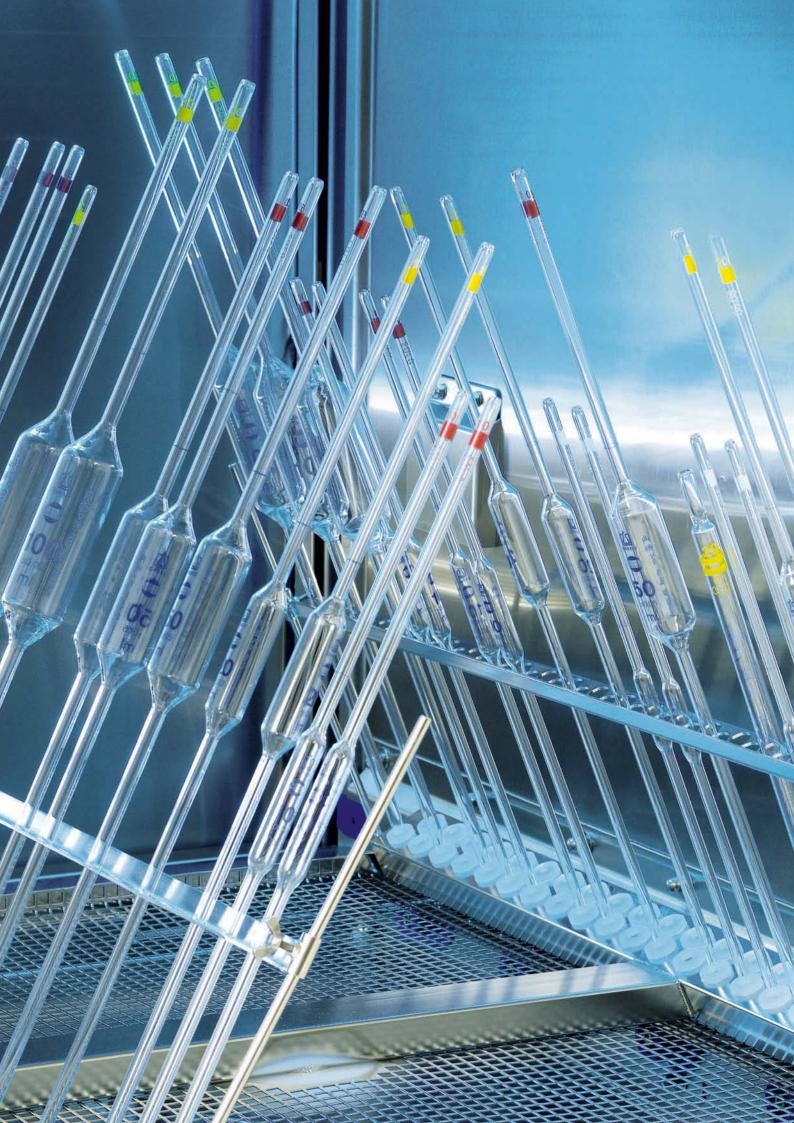
Safe and efficient cleaning and sterilisation of laboratory devices



Commited to quality in laboratory applications





Competence in laboratory applications

Efficient reprocessing requires adequate equipment and accessories. Belimed knows the requirements of reprocessing laboratory devices and supplies future oriented system solutions. Our customers can rely on Belimed's outstanding products and first class after sales service.

Belimed - Competence in laboratory applications

Thanks to many years of experience in automatic cleaning, disinfection and sterilisation Belimed is the optimal partner for reprocessing of laboratory devices as well as for medical applications. Every day, Belimed machines and accessories are in operation all over the world. Customers trust in Belimed quality.

Broad product portfolio

To meet all requirements in laboratory applications, Belimed continuously updates the product line. There are many different wash chamber sizes available to match capacity needs, and well-designed racks have been adapted to fulfil the unique properties of laboratory devices. Belimed laboratory solutions are custom designed and thoroughly tested for accuracy.

More than 30 years of experience and the commitment to innovation are the basics for successful solutions. That's the way we create added value for our customers.

Niklaus Sauter, Managing Director Belimed Group



Perfect interaction of machines and accessories guarantees smooth workflows and optimal wash results.

More capacity on smallest footprint

Capacity, quality, economics and flexibility – these are the key figures of our laboratory washers. Developed according to the all new EN ISO 15883 guidelines reproducible results in reprocessing are guaranteed in cell- and microbiological labs as well as in chemistry laboratories.

Outstanding features

- **Space-saving:** wash chambers of up to 350 litres within a total width of the machine of 90 cm only marks the most outstanding ratio of capacity versus space requirement.
- **Best quality:** Belimed machines and accessories are made of high quality materials and components. For example the wash chamber is made of stainless steel 1.4404 (316L). Belimed machines are self-cleaning and include a complete drainage after each step.
- Powerful wash pump guarantee excellent wash results.
- **Accurate dosing** of the assigned detergents by up to 5 dosing pumps monitored by flow meters.
- Thermal disinfection: wash programs with temperature profiles of up to 93°C enables reprocessing of bacteriological contaminated items.

- **Flexibility:** Belimed machines can be heated up electrical or by steam and may be equipped with several smart options including independent data archiving system, exhaust air condenser even in combination with a heat recovery system, and much more.
- **Heavy duty drying unit** allows very short program cycle times.
- The **smart control unit** including program library and data storage is fully network compatible and offers remote access, i.e. for immediate diagnosis.
- Compliance with norms and regulations:

 Belimed machines fulfil all common regulations and directives, are type tested i.e. according to EN ISO 15883 and bear the CE mark.

Wash racks

An unobjectionable wash result is the outcome of perfect interaction of all elements and parameters. The correct positioning of the wash goods inside the wash chamber is essential. To guarantee this, the items must fit exactly into the racks and the inserts. Belimed took great care to develop high-quality stainless steel accessories specially adapted to the sizes of common laboratory devices such as flasks, beakers, conical flasks, test tubes, cuvettes, cells, vessels, pipettes and many others.

Wash process

After a loaded wash rack is inserted into the wash chamber, automatic docking ensures a tight connection between the machine and wash rack. This is essential to guarantee perfect transfer of the water and the air to the wash good carrier and finally to the wash goods. One touch of a program key starts the wash program. In addition to the standard programs custom designed multistep programs can be designed. Process steps are shown as they occur on the display. Each process is monitored and process data can be printed or can be sent to an external computer by local network.

Flexible wash programs and high process reliability

Wash programs are started easily by a touch on the button or by automatic program start, if the optional rack coding is available. 12 validated factory settings cover all applications. For special requests custom designed programs can be arranged and validated on site. All process relevant parameters like program number, step number, actual temperatures, running time, etc. are monitored constantly and displayed at the user interface. To guarantee data traceability process data can be printed or processed at an external computer, if a network connection is set up. High process reliability is ensured by a very comprehensive error message system.

Data integrity and traceability

For full data integrity the optional Independent Process Data Monitoring System (IPD) is available. All relevant process parameters are monitored by an additional set of sensors, which record independently. At a computer these values are compared with the values measured by the control unit. If the deviation exceeds a safety tolerance, an error message is displayed and the reprocessing cycle is aborted. Data traceability is ensured by archiving all data.

A big variety of specially shaped laboratory utensils asks for a big variety of wash good carriers, holders and inserts. Belimed provides the best solution for each application.









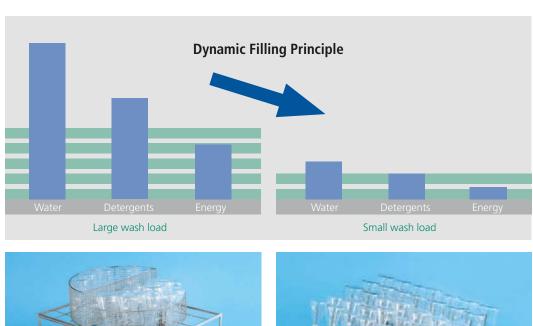
Efficient and economical operation

Belimed's commitment to high economic efficiency includes a focus on cost savings and protecting investments. Our systems feature economical use of resources including water, detergents and energy.

Dynamic Filling: saves up to 20% of resources per cycle

Belimed's Dynamic Filling contributes to high economic efficiency and environmental protection in laboratory operation. The washer's water intake is monitored to the actual rack that is to be processed.

If there is a small load, water consumption is reduced automatically. This also cuts the demand for energy and detergents accordingly.







RO water preheating:

25% increase in productivity

When the final rinse of thermal disinfection begins, the required RO water is already provided at the required thermal disinfection temperature. This is achieved by preheating it in a separate tank. This feature substantially cuts the cycle time, corresponding to a 25% increase in productivity. This advantage is fully in compliance with EN ISO 15883: the tank is positioned above the wash chamber, to ensure no pipework dead legs and complete draining of the tank.

Exhaust air heat recovery:

20% reduction in energy consumption

The principle of RO water preheating and vapor condensation may be taken one step further. The RO water is heated via the machine's exhaust to reduce the energy consumption. The incoming RO water also cools the exhaust air at the same time, saving up to 40 litres of cooling water per cycle. The RO water heated via the vapor condenser is supplied to the RO water preheating tank and used for thermal disinfection in the machine. Exhaust air heat recovery reduces energy consumption by up to 20%. The financial savings achieved by this option means that investment costs are recouped within a very short period of time.

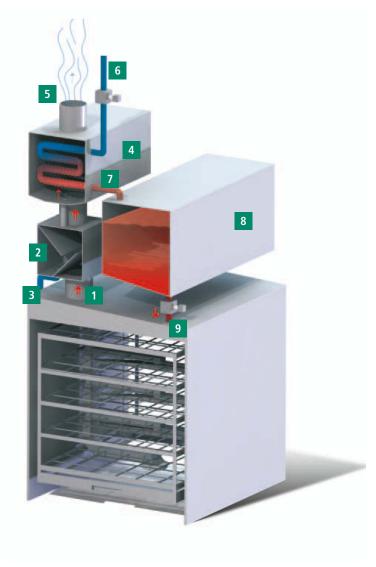
Exhaust air flap with condensate drain: shorter cycle times and less energy

Belimed systems provide an effective solution to capture heat resulting from high washing temperatures. The washer-disinfectors feature a dynamic exhaust air flap that opens only in the event of excess pressure in the chamber. This means that the heating energy for washing is not tapped from the exhaust air. CSSDs benefit from real energy savings and shorter cycle times. Another feature, the condensate drain, reliably prevents condensate backflow into the machine, routing condensate from the exhaust air pipe directly into the drain instead.

- 1 Exhaust air hot
- 2 Exhaust air flap
- 3 Condensate drain
- 4 Condenser with heat recovery system
- 5 Exhaust air cold
- 6 RO water cold
- 7 RO water preheated
- 8 RO water tank with heating elements
- 9 RO water hot

High-performance drying: effective yet gentle

Two powerful turbines are used in the high-volume Belimed dryers. Although the drying is twice as strong as on comparable units, it achieves an unrivalled performance in efficiency and time. Operating noise levels are kept to a low level. The large air volume and dual circulation dry even the critical inner lumens of cannula instruments within a very short time. The air used for drying is provided by an upstream HEPA filter. Fast, yet gentle drying maintains serviceability of high-value medical devices in the long term.



WD 130 / WD 170

The automatic washing and disinfecting machines WD 130 and WD 170 are designed to satisfy all hygiene requirements in hospital or laboratory environments. The WD 170 is a free-standing all-purpose washing, disinfecting and drying machine. The WD 130 is designed as an under the counter version. Racks and accessories are compatible with both models due to the identical construction of the wash chamber.

Features

- Solid construction
- Easy loading / unloading
- Built in water softener
- High capacity wash pump
- Heavy duty drying unit
- Storage area for detergents (WD 170)

- Large program library
- Short reprocessing cycles
- High processing reliability
- Convenient servicing

Technical dataOuter dimensions

- Printer for batch documentation
- Broad range of wash good carriers for all applications

900 x 900 x 700 mm

Outer dimensions WD 170 (H x W x D) Chamber dimensions, usable (H x W x D) Chamber volume 210 litres	WD 130 (H x W x D)	300 X 300 X 700 IIIII
usable (H x W x D) Chamber volume 210 litres	Outer dimensions WD 170 (H x W x D)	1400 x 900 x 700 mm
	Chamber dimensions, usable (H x W x D)	510 x 540 x 510 mm
	Chamber volume	210 litres
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WD 130 with upper and lower basic racks

Racks and accessories

The construction of the WD 130 and WD 170 wash chamber allows reprocessing of lab utensils by single or multi-level regular racks or by separate basic racks for upper and lower level, which can be handled individually.

By combining various racks and inserts, all utensils and items including test tubes, flasks, bottles, measuring devices and Petri dishes can be arranged for efficient cleaning.



Basic top level rack, art. no. 820 361 Basic bottom level rack, art. no. 820 360 Basket rail set for top level rack, art. no. 820 368



Jet spray rack, art. no. 820362Jet spray racks are necessary for intensive cleaning. They can be equipped with various jets of different sizes and lengths, depending on the application and the customer needs.

Jet spray rack with 32 jets (up to 56 possible) equipped with: 4 jets Ø 6 x 200 mm, 6 jets Ø 6 x 150 mm, 6 jets Ø 5 x 150 mm and 16 jets Ø 5 x 110 mm



with bottom level rack, art. no. 820 550
Special insert for cleaning of pipettes in combination with basic bottom level rack. Capacity approx. 50 pipettes, max. length of pipettes: 450 mm



Pipette cleaning rack, art. no. 820 366 Individual cleaning of 60 pipettes, also for special lengths up to 580 mm



Needle Inserts
Rilsan-coated inserts to secure glassware in basic racks
Art. no. 820 556 15 needles for upper basket
Art. no. 820 560 15 needles for lower basket
Also available with 6 or 10 needles



Jets for the jet spray rackDifferent sizes and shapes are available to match all applications.

WD 230 / WD 250

With many years of successful operation in hospitals all over the world, the WD 230 / WD 250 perform each day with unobjectionable wash results. The WD 230 is equipped with manually operated hinged doors. The WD 250 features fully automatic vertical sliding glass doors.

To allow the use of this high capacity washer in the laboratory, special accessories were adapted. Conductivity Control, a specific feature used in laboratories for the final rinsing step, was implemented. If the conductivity of the final rinsing water exceeds a certain limit, the final rinsing step is repeated.

Features

- High-capacity on small footprint
- Excellent wash results due to a powerful wash pump
- Manually operated hinged door(s) with optional glass window (WD 230)
- Automatic vertical sliding glass doors (WD 250)
- Heavy duty drying unit
- Pump pressure monitoring with foam control
- Validation port and sampling removal valve
- Easy to use: control panel with push buttons
- Very short process cycles
- Validated factory settings
- Network compatible control unit
- Remote access for easy diagnosis
- Conductivity control for final rinsing step (optional)
- Heat recovering with RO water preheating for fast cycles (optional)
- Full process monitoring and independent data archiving (optional)

Technical data	
Outer dimensions (H x W x D)	1840 x 900 x 800 mm
Chamber dimensions, usable (H x W x D)	670 x 610 x 610 mm
Chamber volume	286 litres



WD 230 with ergonomic transport dolly

Racks for general applications

By combining one or two level-basic racks with inserts and holders, all common laboratory devices can be properly positioned to enable unobjectionable cleaning. Racks and accessories are made of high-quality stainless steel.



Basic 1 level rack, art. no. 814 506



Basic 2 level rack, art. no. 814 456

Jet spray racks

Jet spray racks are necessary for intensive cleaning, and can be equipped with various jets of different sizes and lengths depending on the application and the customer needs.



Jet spray rack, 1 level, art. no. 817 471 Capacity: up to 56 jets of different sizes. As standard, equipped with 36 jets, rest locked by sealing screws



Jet spray rack, 1½ level, art. no. 835 109
Direct injection cleaning on 1 ½ levels enables reprocessing of large and small items. Smart construction allows easy loading. High capacity: up to 86 jets



Jet spray rack for infusion and injection bottles Art. no. 835 111

Multi-level jets enable the reprocessing of infusion and injection bottles on one same rack concurrently. Capacity: 56 bottles up to 1000 ml



Pipette cleaning rack, art. no. 835 043Smart design considers the unique shape of pipettes and allows them to be properly cleaned. Capacity: up to 74 pipettes and additional open space for other items

WD 290

In high-capacity laboratories Belimed's WD 290 is the best solution. As single door model, or for special applications as fully automatic double door machine, the WD 290 meet highest laboratory standards.

30% more wash chamber volume than the wash chamber of the WD 250, but still extremely compact and space saving. With a chamber volume of 350 litres and a width of only 90 cm, the machine achieves an excellent ratio of useful space to footprint.

Features

- High-capacity on small footprint
- Excellent wash results due to a powerful wash pump
- Automatic vertical sliding glass doors
- Automated loading and unloading
- Heavy duty drying unit
- Pump pressure monitoring with foam control
- Validation port and sampling removal valve
- Easy to use: control panel with push buttons
- Very short process cycles
- Validated factory settings
- Network compatible control unit
- Remote access for easy diagnosis
- Conductivity control for final rinsing step (optional)
- Heat recovering with RO water preheating for fast cycles (optional)
- Full process monitoring and independent data archiving (optional)

Technical data	
Outer dimensions (H x W x D)	1840 x 900 x 940 mm
Chamber dimensions, usable (H x W x D)	670 x 610 x 750 mm
Chamber volume	350 litres

Jet spray and standard racks

To achieve the highest possible throughput of the WD 290 specially designed racks are necessary. Belimed jet spray racks can be equipped custom designed with various jets

of different sizes. General laboratory items and devices can be reprocessed easily and efficient by 1- or 2-level standard racks in combination with several inserts and holders.



Jet spray rack, 1 level Art. no. 815 787 Capacity: up to 80 jets; equipped with 50 jets, rest locked Art. no. 817 161 Capacity: up to 64 jets; equipped with 40 jets, rest locked



Jet spray combi rack, 1½ levels, art. no. 815 711 Combination of jet spray rack and 2 level rack for the simultaneous reprocessing of different laboratory devices, 37 jets for small to medium items; 4 jets for large items, Second level with wash arm for various goods



Jet spray rack for infusion and injection bottles
Multi-level jets enable the reprocessing of infusion and injection
bottles on the same rack concurrently.

Art. no. 817 031 Capacity: 48 jets/bottles up to 1000 ml **Art. no. 817 033** Capacity: 99 jets/bottles up to 100 ml



Jet spray rack for bottles (Schott), art. no. 817 568 Specially designed for bottles with narrow necks. Slight inclined position of jets prevents from water accumulation at the bottom of the bottles. Capacity: 35 bottles up to 1000 ml



Pipette cleaning rack, art. no. 817 569Capacity: up to 94 pipettes and additional open space for other items such as test tube baskets



Basic rack
Different combinations of baskets and inserts allow all common laboratory devices to be reprocessed
Art. no. 814 493 Basic rack, 1 level
Art. no. 814 284 Basic rack, 2 levels

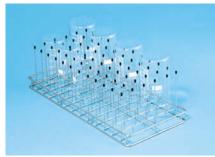


Standard baskets and inserts

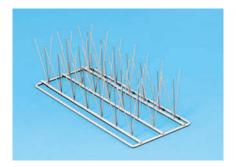


Open basket, art. no. 772 999 570 x 340 x 185 mm, 1–2 baskets per level

Cover for basket, art. no. 771 303



Universal carrier, art. no. 815 962 with 72 pins to hold glassware and utensils Dimensions: 560 x 255 x 166 mm, 2–3 carriers per level



Needle insert, art. no. 820 564 for reception of up to 21 medium flasks. Dimensions: 480 x 205 x 155 mm, Stainless steel 18/8, coated, 2–3 inserts per level



Round basket, art. no. 592 805 ø 570 mm, 1 basket per level

Cover for round basket, art. no. 440 130 g 570 mm



Half basket ø 570 mm, 2–3 baskets per level Art. no. 440 090 Height 120 mm Art. no. 592 806 Height 180 mm Art. no. 440 087 Cover for half basket Art. no. 684 040 Cover fixing device



Universal carrier, art. no. 440 085 with pins for holding glassware and utensils, ø 570 mm, h 183 mm, 2–3 carriers per level



Quarter basket

ø 570 mm, 4–6 baskets per level Art. no. 440 079 Height 126 mm Art. no. 440 078 Height 185 mm Art. no. 440 089 Cover to quarter basket

Divider insert for quarter basket Art. no. 440 093 Height 75 mm **Art. no. 440 092** Height 115 mm



Test tube basket

ø 145 mm, with cover and needle guide for height adjustment. Capacity: 63 test tubes Ø 16 mm, 6-20 inserts per level

Art. no. 820 542 Large for test tubes up to 210 mm **Art. no. 820 543** Small for test tubes up to 150 mm



Jets for jet spray racks

WD 230 / WD 250 / WD 290 Art. no. 685 960 ø 3 x 110 mm Art. no. 685 958 ø 4 x 140 mm Art. no. 813 414 ø 4 x 180 mm Art. no. 813 416 ø 6 x 240 mm Art. no. 814 860 ø 8 x 300 mm Art. no. 814 861 ø 8 x 400 mm



Belimed's approach: Always being close to the wash goods — and even closer to the customer needs.

Belimed, your reliable partner for reprocessing of laboratory devices

Technical data

Machine features	WD 130	WD 170	WD 230	WD 250	WD 290
Double door pass through model with door interlock					
Single door model with door interlock					
Hinged doors made of stainless steel				_	_
Hinged doors made of stainless steel with glass window	_	_	0		
Vertical sliding doors made of safety compound glass					
Wash chamber made of high-quality stainless steel 1.4301 (304)					
Wash chamber made of high-quality stainless steel AISI 316L					
High-capacity valves for fast filling with temperature control					
during filling for hot, cold and RO water (l/min)	16	16	40	40	40
Dynamic filling system to reduce consumption up to 20%					
Dosing units for detergents (standard/additional as option)	2/2	2/2	3/2	3/2	3/2
Flow control for dosing units	0	0			
Wash pump power	0,73 kW	0,73 kW	1,1 kW	1,1 kW	2,2 kW
Wash pump capacity (I/min)	650	650	900	900	1000
Pump pressure monitoring (wash dynamic)					
High-capacity drain valve 5 l/s					
Drain pump		0	0	0	0
Electrically heated wash chamber; heating power	9,5 –12,5 kW	9,5 –12,5 kW	15 kW	15 kW	22,5 kW
Steam heated wash chamber			0	0	0
Manual or automatic switch wash chamber heating electric/steam			0	0	0
Electrically heated RO water tank 10,5 kW			0	0	0
Heavy duty drying ventilators with HEPA filter H14 (capacity; m ³ /h)	150	150	500	500	500
Electrically heated drying unit 3,5 kW					
Electrically heated drying unit 10,4 kW					
Steam heated drying unit 16,5 kW			0	0	0
Sterile filter monitoring by pressure measurement					
Exhaust air condenser operated either by fresh water or by cooling water loop			0	0	0
Heat recovering system by condenser and RO water pre-heating			0	0	0
Exhaust air flap to prevent thermal energy loss					
User interface with 12 keys and touch response					
Recognition of coded racks	0	0	0	0	
12 validated factory settings, programmable by user interface or by external computer					
Disinfection by A ₀ -value					
Temperature monitoring during complete cycle					
Thermal protection of wash goods					
2 line VFD Display at loading and unloading side					
Interfaces: RS 232 for printer					
RS 485 for PC cycle documentation, RS 232 for barcode reader					
Barcode reader for registering wash goods	0	0	0	0	0
Built in cycle printer (WD2X0: clean or decontam side)	0	0	0	0	0
PC cycle documentation system ICS 8535 to acquire all relevant process data			0	0	0
Independent process documentation (IPD) to monitor process data by independent sensors					
(water and air temperature, pump pressure and detergent dosing)			0	0	0
Conductivity control for final rinsing phase			0	0	0
Acoustic signal at program end	0	0			
Peak load cut-off for electrical heater					
Validation port for external measuring devices and sample drawing tap					
Modem connection for remote access and diagnosis			0	0	0
Automatic maintenance reminder					
Front covers made of stainless steel AISI 304, grinded 4N					
Side panels (left/right) and base panels made of stainless steel AISI 304, grinded 4N			0	0	0
Floor tube made of stainless steel with drain and leakage sensor			0	0	0
Automatic rack transport within the machine				0	0
Automatic loading/unloading units for 1 or 2 wash racks					0

^{■ =} Standard O = Optional Subject to modification

Sterilisation in laboratories

With over 2000 sterilisers installed worldwide in leading laboratories, in pharmaceutical and biotechnology sectors and hospitals, Belimed possesses the experience and knowledge to efficiently solve all kind of sterilisation specifications.

To complete the laboratory product range we also provide you with high-quality sterilisers — specially designed and equipped for standard laboratory needs as well as for special custom designed applications in laboratories, microbiological labs and research plants.

Bellyned

Steam steriliser LST-V

Features

- Noiseless water ring vacuum pump incl. cooling water saving system
- Optimized and validated standard programs
- Deep running costs, low consumption
- Easy to operate by touch screen display and operating panel
- Built-in printer for lot documentation
- Sophisticated control electronics for sterilising process
- Special documentation for sterilisers and washers for a central documentation
- Highest reliability thanks to high-quality materials and components
- Customised accessories (batch carts und transport trolley, etc.)
- Built-in steam generator
- Jacket cooling
- Filter in-line-sterilisation
- Vacuum filter and condensate sterilisation

Steam steriliser LST-V, single- or two-door

LST-V Steam steriliser for laboratory applications with vertical sliding doors. Our product range consists of models with a volume of 300 to 870 litres. All purpose steam steriliser for lab and research applications.

Steam steriliser LST-H, single- or two-door

Beside the LST-V models we provide you with our well established high-quality laboratory sterilisers with automatic horizontal sliding doors: The LST-H sterilisers are constructed with chamber capacities of 300 up to 9000 litres — or according to customer specifications.

Applicable for the sterilisation of:

- Instruments
- Liquids
- Glass bottles
- Culture media
- Containers
- Waste
- Textiles
- Animal cages



High quality materials combined with smart construction lead to sophisticated system solutions for efficient and economic operation.

Belimed, your reliable partner for reprocessing of laboratory devices

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