

## Product Specification

# WD 750 Washer / Disinfector

### Product Description

The WD 750 Large Scale Instrument Washer / Disinfector and Cart Washer is designed to effectively, and quickly, wash and dry instruments, case carts, containers, basins and utensils while using minimal water. The WD 750 is available in one chamber length with dual glass sliding doors. A specialty instrument cart is needed to wash instruments.

### Application

Sterile Processing Departments

### Models & Dimensions

Model	Usable Chamber Size H x W x D (mm)
WD 750 L	79" x 32.3" x 116" (2000 x 820 x 2950)

**Note:** For reference only. Refer to cut sheet for construction purposes

### Options & Accessories

#### Options

- No Pit Option, with ramps
- Seismic Anchoring Kit
- Drain Discharge Cool Down
- Left or right service area

#### Accessories

- Container Wash Cart
- Instrument Wash Cart, 24 tray capacity

### Automation

*Not available with this model*

### Standards

- EN 61010-1, EN 61010-2-040
- EN ISO 15883-1, -2
- EN ISO 13485
- EN 55011
- DIN ISO 60204-1
- EN 60601-1-2
- EN 60601-4-X
- EN ISO 14971

### Standard Features: Construction / Design

#### Loading Height

Standard configurations require a pit mount for ground level loading. A no pit option, with load and unload ramps, is available when a pit cannot be constructed.

#### Chamber

The stainless steel floor pan is designed as the water sump area during operation. The roof is designed as a ridged structure to support the additional components. External surfaces, top and sides, are insulated.



#### Chamber Ceiling

A pitched angle ceiling directs water to the sides of the chamber and minimizes dripping on the washed goods, aiding in reduction of the dry time

#### Floor

A perforated stainless steel floor allows fast draining of water back to the sump as well as a solid surface for walking. Each floor section can be hinged up to gain access to the pan below.

#### Doors

Sliding, glass door with an inflatable, air actuated water tight seal. In operation mode only one door can be open at any time.

#### Control System

An SAIA unit is used to control machine functions. Messages are displayed on a color LCD TFT panel and capacitive sensitive input touch areas around the display are used to input information and start the cycle.

#### Spray Bars

24 vertical spray pipes, 12 on each side of the chamber, each holding 8 fan spray nozzles rotate to ensure complete coverage. Nozzles are easily removed, through a quarter turn, for ease of maintenance.

#### Tilt Mechanism

Pneumatically driven cylinders tilt the floor to approximately a 6 degree pitch. The inclined position minimizes formation of water puddles on flat cart surfaces and improves rinsing and drying effectiveness. The tilt function can be programmed into any step; wash rinse and dry.

#### Dryer System

A 43.4 kW heater provides hot dry air which is circulated within the chamber and exhausted to ductwork. A HEPA filter is included for air filtration.

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## WD 750 Washer / Disinfector

### Standard Features: Construction / Design (continued)

#### Storage Tank

For cart washing only, the wash water is refreshed to the storage tank where about 80% is recycled to minimize water use. It is programmed to dump and refill once a day, at the programmed time. Tank water temperature is programmable.

#### Thermal Disinfection Pre-Heat Tank

Water, preferably, DI or RO, is pre-heated during an instrument cycle to reduce the heating time needed to reach the set temperature for the thermal rinse disinfection step in the instrument cycles. This reduces overall cycle time.

#### Process Status Display

A large, round, segmented LED backlit display, located on both sides of the machine above the control and display panel indicates remaining time in the cycle. It also indicates errors by flashing red when a fault occurs. Each segment indicates 5 minutes of cycle time remaining. When the cycle is complete the entire display will flash until the unload side door is opened.

### Cycle Description - Instruments

*Note: Belimed does not in any way intend, recommend or represent that this WD 750 instrument, cart and utensil washer be used for the terminal decontamination of any regulated medical device.*

*If there is any doubt about the use of a specific material or product contact the manufacturer of the product for their recommended cleaning process & techniques.*

**Pre-Wash** - Cold water is sent to the chamber sump and circulated for the set program time. After completion it is sent to the drain.

**Wash** - Hot water is sent to the chamber sump, dosed, heated to the programmed set temperature and circulated for the set program time. After completion it is sent to the drain.

**Rinse** - Hot water is sent to the chamber sump and circulated for the set program time. After completion it is sent to the drain.

**Thermal Disinfection Rinse** - Water (preferably DI or RO) is sent to the pre-heat tank at the beginning of the cycle and heated to the set temperature during the cycle. It is then sent to the chamber sump and circulated, and heated if necessary, for the set time. After completion the water is sent to the drain. A default A<sub>0</sub> of 3000 is reached.

**Drying** - After thermal rinse is completed the chamber is exhausted to remove moist vapor. Fresh air is then pulled in through a HEPA filter, heated and sent to the chamber. The air is vented through a damper to the exhaust system. The exhaust fan remains on after the clean side doors are opened to minimize travel of warm, moist air into the room.

#### Cycle Time

Model	Cycle Time (Min)*
WD 750 Instrument Cycle	50 - 55

\*Cycle time is for typical utility conditions and may vary based on the extent to which actual utilities adhere to specifications.

#### Emergency Stop Buttons

Located on each side next to the door as well as two located inside the chamber.

#### Drain Discharge Cool Down

Additional cold water will be mixed with drain water, when necessary, to reduce drain discharge temperature below 140° F.

#### Instrument Cart Coupling

The instrument cart is aligned with this coupling, when placed in the chamber, to enable water to flow through to the wash arms located on the cart. Two couplings are included which allows two specialty instruments carts, for a total capacity of up to 48 instrument trays per cycle.

#### Dosing Pumps

4 included

### Cycle Description - Carts

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**Wash** - Hot water is filled, dosed, and heated in the chamber sump and circulated for the programmed set time. After completion it then sent to the wash tank, as a refresh, and is dosed with detergent.

**Rinse / Thermal Rinse** - Fresh hot water is sent to the chamber sump, heated to the programmed set temperature and circulated for the set time.

**Drying** - After rinse is completed the chamber is exhausted to remove moist vapor. Fresh air is then pulled in through a HEPA filter, heated and sent to the chamber. The air is vented through a damper to the exhaust system. The exhaust fan remains on after the clean side doors are opened to minimize travel of warm, moist air into the room.

#### Cycle Time

Model	Cycle Time (Min)*
WD 750 Cart Wash Cycle	15 - 18

\*Cycle time is for typical utility conditions and may vary based on the extent to which actual utilities adhere to specifications.

### Preventive Maintenance

Belimed recommends regular preventive maintenance to ensure proper operation of the equipment. Belimed maintains a nationwide, factory trained Service Technician Group who can perform this maintenance and/or train Biomedical staff on the proper procedure. Belimed also offers a number of PM and Service Plans.

**Contact Belimed Technical Service for more details.**

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