

## BP 100 HE

### Frontal opening bedpan washer



**BP 100 HE** is a multi-functional aid capable of holding all the receptacles commonly used in hospitals such as bedpans, urine bottles, suction bottles, buckets....

With the use of a removable dedicated rack on slides, this device can be also used for washing and disinfecting small objects.

This bedpan washer disinfector is available in 3 models differing for manual or automatic door operation.

The full manual or full automatic door opening versions are also available for wall installation and prepared for the toilet bowl connection.



**BP 100 HE**  
manual door opening /  
manual closing

**BP 100 HSE**  
automatic door opening /  
manual closing

**BP 100 HAE**  
full automatic door



### General description

#### Dimensions

External WxHxD:

545mm x 1630mm x 475mm  
(21.45" x 64.17" x 18.7")

Chamber volume: 65 lt (17 gal.US)

#### Capacity

Simultaneous treatment of 1 bedpan with lid and 2 urine bottles or 3 urine bottles. Capacity depends on the size and shapes of the items that have to be treated

**Net weight** : 77,5 kg

**Sound level**: < 70 dB(A)

#### Standard compliant

BP 100 HE is designed and constructed to comply with the latest European and UK guidelines on decontamination EN ISO 15883-1/3

Steelco Flusher Disinfectors are classified CE Medical Device (Community rule 93/42/CEE) with code nr. 0051 EN 1717 compliant.

cUL Listed versions are available

## Standard features

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### Frame and external panels

- Frame and external panels are made in AISI 304 stainless steel Scotch Brite finish
- Easy access to all inner components for easy maintenance

### Door opening system

- The door is made of AISI 304 stainless steel mirror polished on the internal side
- Door closing is waterproof. The double wall construction isolates the washing chamber to reduce heat loss and noise
- Soiled goods, without any previous emptying, are loaded at an ergonomic working height. The door acts as a loading platform and supports the bedpan/urine bottles holder. The closing of the door, automatically tips and empties pans and bottles

#### BP 100 HE model

- Manual door opening and closing. The door is spring counterbalanced for ease of operation

#### BP 100 HSE model

- Foot operated automatic door opening, manual closing. The door opening is controlled by a spring and counterbalanced for manual closing ease of operation

#### BP 100 HAE model

- Foot operated automatic door opening and closing. The door opening and closing are controlled by a gear motor

### Multifunction support

- The washer is equipped with a universal holder. Different racks and holders are available for special needs

### Components

- Constructed using stainless steel and other materials which are resistant against the effects of aggressive chemicals

### Washing system

- Water accumulator tank provided with level controls
- Tank water filling with "air break" system
- Washing chamber, washing circuits, tank and spraying nozzles made of high quality AISI 304 stainless steel

- Wash chamber press-forged in a single piece, with rounded edges to guarantee the perfect flow of the liquids. The construction with smooth edges and corners removes areas where dirt can accumulate allowing bacterial growth
- Optimal washing capacity thanks to 7 rotating nozzles, 4 fix, 2 central rotating with four jets each and 1 washing arm with 12 jets dedicated to washing the chamber and to reach all the recesses of the bedpans/urine bottles

### Washing pump

- High efficacy centrifugal washing pump 250 l/min (66.04 gal.US/min) flow feeding washing circuit
- Pump power 730 W

### Incorporated steam generator

- 4.5 kW electric heating elements steam generator allowing to quickly reach the thermodisinfection temperature inside the chamber
- Steam is distributed inside the chamber through the washing circuits and nozzles to assure at every cycle a perfect disinfection of the treated items, of the chamber and of the hydraulic circuits
- At each cycle the steam generator guarantees a high level of hygiene of the entire washing circuit
- Thermal disinfection temperature settable. Standard setting is 91°C (195.8°F)
- PT1000 temperature probe with boiler safety over-temperature cut-out

### Water inlet system

- Filters are installed on all incoming water lines. Filters can be easily removed for cleaning

### Washing chamber cooling system

- Prevents vapors from entering into the washing area, operates at the end of the disinfection cycle by water nebulizing to cool down washing chamber at a set temperature (programmable)
- Max drain water temperature: 60°C 140°F)

### Chemical dosing

- Adjustable limescale dosing pump
- Automatic system for injecting limescale-remover into the generator in the case of long stoppages

- Chemical tanks can be stored inside the lockable cabinet on the machine basement

### Microprocessor control System

- Machine functions are controlled by a programmable microprocessor
- 24V control panel with digit pressure function buttons
- 3 pre-setted programs: short, standard and intensive. All programs perform washing, rinsing and thermal disinfection phases
- A0 value can be displayed during the disinfection phase and is shown at the end of the cycle. A0 is settable according to different needs

### System Monitoring

- 3 characters monochrome LED display shows at every moment of the ongoing treatment the indication of the treatment program, the working phase, the chamber temperature, A0 value during disinfection phase until the reach of the cycle completion



- Audible and visual alarms provide quality control for each wash cycle. Every alarm status is indicated by a numeric code
- RS 232 Port for printer connection to monitor and validate washing cycles

### Safety features

#### Locking Door

- The machine door is safely locked when the machine is in operation
- Door opening is possible only when the cycle has been positively completed or when the whole process has been manually aborted by the operator

#### Machine clogged drain prevention

- The machine drain is monitored by a dedicated sensor to stop cycle execution in case of clogged drain

### Optional features

#### Foot operated semi-automatic door: automatic opening, manual closing

- The door opening is controlled by a spring and counterbalanced for manual closing ease of operation

#### Foot operated fully automatic door: opening and closing

- The door opening and closing are controlled by a gear motor

#### Infra red proximity switch (for fully automatic door option)

- Infra-red proximity switch on the machine front panel allows machine door opening, closing and cycle start totally avoiding operator physical contact

#### Detergent dosing pump

- One additional peristaltic pump for dosing a liquid chemical to meet specific washing requirements. Detergent injection is adjustable. If the machine is equipped with the optional LCD control panel, detergent injection can also be temporarily excluded

#### Electrical heated drying and cooling fan system

- Allows all receptacles to be rapidly and hygienically cooled down

#### Hepa H14 air filtering system for air drying and cooling system

#### Racks and holders

- The machine is equipped with a universal holder. Different racks and holders are available for washing and disinfecting small objects or other special needs

#### System Monitoring

- 32 characters monochrome LCD display shows at every moment of the ongoing treatment the indication of the treatment program, the working phase, the chamber temperature, A0 value during disinfection phase until the reach of the cycle completion. Indications are displayed by text descriptions



- Audible and visual alarms provide quality control for each wash cycle. Every alarm status is indicated by number and description
- RS 232 Port for printer connection to monitor and validate washing cycles
- Up to 1000 events memorization capability of the system for a standalone machine

### Emergency stop button with key

### Printer

- For validating treatment/disinfection phases with detailed information

### Independent monitoring system

### IP44 Protection

### Seismic Tie Down

- Anchors washer to floor

### Emptiers

- Steelco emptiers are available in manual or automatic versions. The automatic version works by a control on the BP 100 front panel providing automatic drain and water sink rinsing

## Cycle operation

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7 pre-setted programs:

- Short (plus half load cycle)
- Standard (plus half load cycle)
- Intensive (plus half load cycle)
- Clostridium

All programs perform several washing, rinsing and thermodisinfection phases and differ for the number and time length of the phases

**Thermal disinfection** – thermal disinfection phase is factory set at 91°C wash chamber temperature for 60 seconds. Parameters can be modified

3 customizable washing programs

1 program to clean and flush external emptiers

## Required utilities

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Refer to installation drawings for complete description of the required utilities

### Warm water

### Cold Water

- Drain Connection

### Electrical requirements

- Total maximum power 5.05 kW
- 400V/3~+N/50Hz
- 208V/3~+N/60Hz
- 480V/3~+N/60Hz
- Other electrical connections are available to match electrical requirements of installation site
- cUL Listed version available