

S.H.O.W.

SAFETY HOSPITAL WORK

Closed-loop aspirator for large volumes of body fluids

Operating Theatres for surgeries in

- **Urology** - T.U.R.P., T.U.R.B., P.C.N.L.
- **Orthopaedics** - Shoulder, hip, knee arthroscopy

Wards

- **Intensive Care Units** - C.V.V.H. for emptying bags
- **Dialysis** - Emptying acid concentrate bags and other
- **Ward** - Emptying urine bags



GREATER SAFETY

COST REDUCTIONS

REDUCED WORKLOAD

OPTIMISED MANAGEMENT OF STAFF

S.HO.W. - DISINFECTION AND SAFETY

S.HO.W. - was designed to guarantee handling large volumes of body fluids for operators, in total safety, in compliance with the law **in order to avoid the risk of bacterial contamination.**

S.HO.W. - is equipped, during the aspiration, in case of **infected biological fluids**, of a real-time disinfection system with precision peristaltic pump for correct dosage of disinfectant.

International patent no. 12745521.0-1356.

S.HO.W. - avoid the continuous lifting of loads by operators (the liquid collection bags), **eliminating the risk of fluid loss due to accidental breakage due to handling.**



With its high level of auto-disinfection S.HO.W. ensures the safety of healthcare staff.

Disinfection is automatic and kills 99.6% of bacteria.

(Single-dose Disinfectant System). **Class II a Medical Device.**

BIOBURDEN (CFU/ml)			
RESULTS	"Pre Washing"	"Post Washing"	% Reduction
Total microbial charge (Bacteria + Fungi)	72000 (CFU/ml)	300 (CFU/ml)	99.6%

Bioburden Certificate No.: 97/2011

S.HO.W. - WORKFLOW OPTIMISATION

S.HO.W. - in the operating room, given the 60-litre tank, healthcare staff are not required to substitute containers used for collecting fluids during surgery, **so there is a reduced workload.**

S.HO.W. - in the wards it allows fast emptying of collection bags for body fluids, **optimising workflow and avoiding lifting heavy loads.**



S.HO.W. - COSTS AND ENVIRONMENTAL IMPACT

S.HO.W. - it significantly reduces the use of disposable containers, with reduced operating costs.

S.HO.W. - is a **"green"** device.

It reduces the cost of disposal of special waste.

Less plastic, Less pollution, Greater respect for the environment.

S.H.O.W. - PRACTICAL APPLICATIONS

UROLOGY OT



In endoscopic procedures (**T.U.R.P.**, **T.U.R.B.**, **P.C.N.L.**) where large quantities of body fluids are used and collected (e.g. 20-30 litres per operation).

Recommended for **Arthroscopy procedures (shoulder, hip, knee)** where large volumes of fluids are used in operations.

ORTHOPAEDIC OT



ADVANTAGES FOR OPERATING THEATRES

- **Closed-loop automatic aspiration** of body fluids without any contact by operators with aspirated fluids **which may be contaminated**
- **Optimising** the deployment of staff
- **Zero risks** due to the lifting and/or handling of heavy weights
- **Eliminating** the use of disposable containers

INTENSIVE CARE



In performing **C.V.V.H. (Continuous Veno-Venous Haemofiltration)** large volumes of fluids are collected (e.g. 40 l/24h).

ADVANTAGES

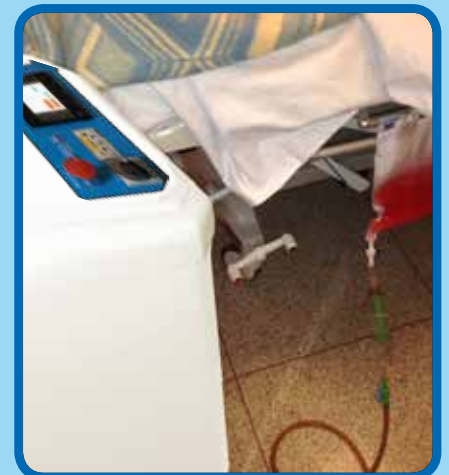
- Emptying takes place with a **9/10 litres** bag attached to the equipment, **without lifting heavy loads**, with the reuse of the emptied bag.

In post-operative when performing **continuous bladder washes** with large volumes of liquids and collection in 5/10 litre bags (e.g. 30-40 l/24h).

ADVANTAGES

- Quick, safe and clean aspiration, **no body fluid spills**, thus avoiding contact with patient fluids.

UROLOGY WARD



S.H.O.W. - TECHNICAL SPECIFICATIONS

Description

- **Closed circuit** aspirator for large volumes of body fluids. Suitable for OTs for: Urology, Orthopaedics, Intensive Care Units, Dialysis and Urology ward.

Operational modes

- **Battery-powered** suction at 5-10 litres per minute continuously or intermittently (50/10-40/20-30/30 sec. ON/OFF)
- **Suction with real-time disinfection** of the contaminated liquid from infected patients (International Patent no. 12745521.0-1356)
- **Automatic drain** of aspirated fluid (**drain** flow 20 l/min.)
- **Auto-disinfection** of tank and internal circuits (Certified), duration 25 min.

Operating specifications

- Aspiration flow in **continuous, and intermittent** mode at 5 or 10 l/min
- Graphic and numeric progress indicator of number of litres sucked on display
- Display of the partial/total volume of fluids sucked
- High **closed-loop** disinfection of tank and internal circuits
- **Neutralisation of aspirated infected fluid in real time**

Manufacturing specifications and details

- **Closed-loop** body fluid aspirator controlled by PLC for future software updates
- Touch Screen Panel for setting the operating mode and messages
- Multilingual interface software (Italian-English-German-French-Spanish)
- Tank moulded from rigid nylon with capacity of 60 litres
- Tank for concentrated disinfectant (capacity of 3.0 litres)
- N. 4 rotating antistatic wheels, 2 with brake
- Body in shockproof ABS
- Easy access for technical interventions

Alarms and safety features display

- Flashing alarm for tank nearly full (50 litres)
- Automatic STOP on tank full
- Emergency button for locking the device
- Operational, alarm and warning messages (e.g. preventive maintenance, last disinfection warning)
- Confirm correct insertion single-dose pod
- Emergency drain function for infected fluid
- Interface messages for operator
- Confirmation message for disinfection cycle finished

Standards and technical specifications

- Medical Device, according to European Directive 2007/47/EC
- Complies with European Directive EN 60601-1-2:2007 electromagnetic compatibility
- 8 hours battery life with lead batteries 12V/18Ah
- Automatic battery recharging from mains power in maximum 8 hours
- Power supply 220-230V-50/60Hz - request for drain and self-disinfection functions
- Consumption 50W
- Weight kg. 55
- External dimensions: (LxWxH) 410x567x833x (mm) height with handle 1113mm



Local dealer



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