smeg
INSTRUMENTS

Healthcare
SOLUTIONS FOR INTEGRATED WORKFLOWS

A global brand

Founded in **1948**, the SMEG Group, an acronym for **Smalterie Metallurgiche Emiliane Guastalla**, is a proudly Italian company renowned for the responsible production of domestic and professional appliances that embody the perfect balance between **technology** and **design**, fully expressing the essence of **Made in Italy**.

Having consolidated its leadership in the **household appliances** sector, since 1985 the Group has expanded its expertise into the **professional field**. Through the brand **Smeg Instruments and FRIMED S.r.l.**, the Group operates in the **medical**, **pharmaceutical**, **laboratory** and **care sectors**, offering **technologically advanced solutions** for refrigeration, washing, disinfection and sterilization.



Made in Italy tailor-made solutions for hospitals

Thanks to its long and consolidated experience in the **in-house production** of technologies for the treatment of medical instruments, Smeg guarantees **high-standard performances**.

Smeg has **5 production facilities**, two of which, **FRIMED** and **Bonferraro**, are dedicated to this division. **Know-how, creativity and sophistication** are the hallmarks of Smeg's Italian spirit and its commitment to creating **professional appliances** that meet market demands.

Not only efficient products that address diverse washing and storage needs, but also **robust machines** with a sophisticated design that enhance the workplace environment.

Engineering excellence

Certified laboratories, through advanced material knowledge and cutting-edge technology, interpret the needs of industry professionals, developing products that deliver **durability, safety, flexibility of use and efficiency**.

Constant and **rigorous testing** throughout production ensures **total reliability**. Moreover, thanks to advanced interfaces and flexible programming solutions, every Smeg product meets multiple professional needs, ensuring **ease of use** and **smart resource management**.

Responsible production

Smeg is committed to **responsible manufacturing**, ensuring full compliance with international standards and adopting processes that minimise energy waste.

Sustainability guides every stage of its supply chain, from selecting **environmentally certified suppliers** to using r**ecyclable packaging** and favouring **low-impact transport**. Over the past decade, the company has significantly reduced **emissions, water consumption** and **material use**, while increasing **waste sorting** and **recycling**.

This approach reflects a broader vision: developing low-impact appliances supported by production methods that exceed **environmental protection requirements**.

Smeg Instruments products embody this commitment, combining high performance with low consumption and prioritising **maximum energy efficiency** to protect the environment and enhance quality of life.

Global assistance for local expertise

Supported by a **widespread technical service** network in Italy and worldwide, Smeg assists customers throughout the entire **product lifecycle**.

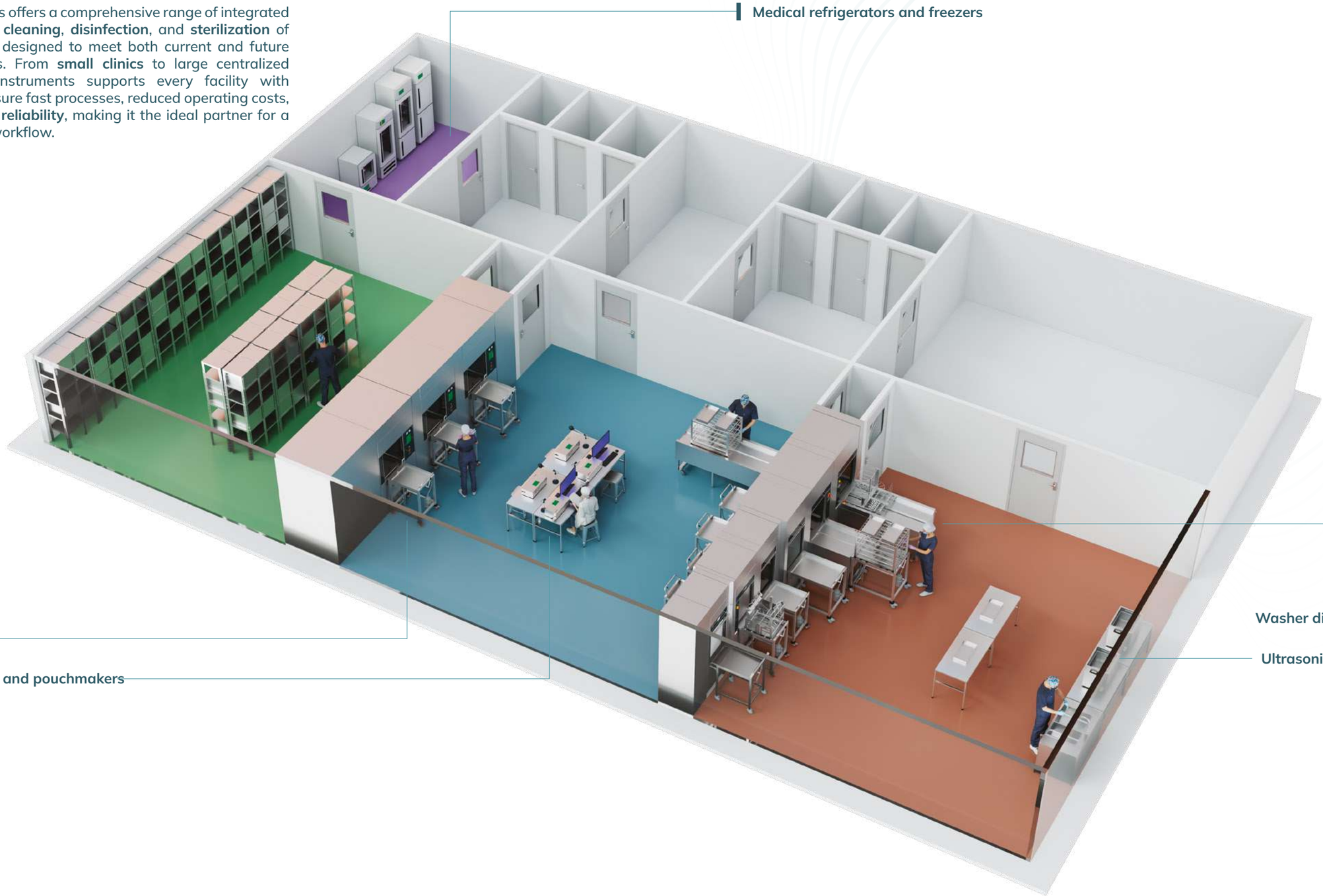
Commissioning and **staff training** are carried out by specialised personnel trained directly by Smeg, as is the **after-warranty service**.

The technical service centre provides **international training and support** through multilingual specialist teams. Choosing Smeg ensures access to **timely after-sales service, 24-hour spare parts delivery, and rapid problem resolution**.



The right partner for your integrated workflow

Smeg Instruments offers a comprehensive range of integrated solutions for the **cleaning**, **disinfection**, and **sterilization** of medical devices, designed to meet both current and future global standards. From **small clinics** to large centralized **CSSDs**, Smeg Instruments supports every facility with products that ensure fast processes, reduced operating costs, and outstanding **reliability**, making it the ideal partner for a fully integrated workflow.



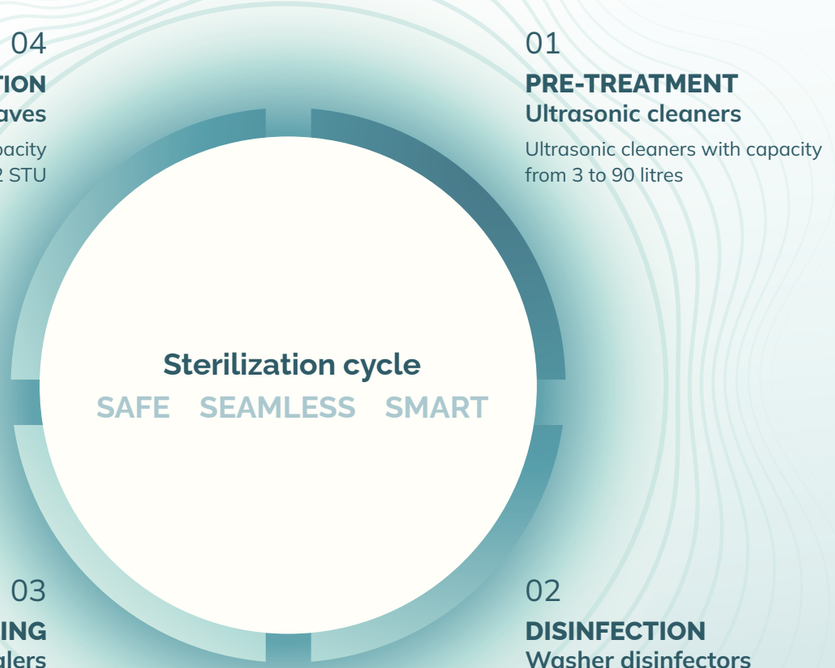
Solutions for infection control

Enter the cycle

Discover all-round solutions

Sterilization is a cornerstone of modern healthcare, ensuring the safety of patients and the reliability of medical procedures. By eliminating harmful microorganisms, sterilization not only prevents infections but also upholds the highest standards of hygiene and quality in clinical environments. Smeg Instruments is committed to offer innovative solutions and technologies designed to support medical professionals in maintaining a sterile, safe, and trusted setting for every patient.

A complete decontamination cycle consists of 4 essential phases, each designed to ensure instruments are safe for reuse.





01



02



03



04

01 PRE-TREATMENT

ULTRASONIC CLEANERS

The **pre-treatment** phase involves the immediate removal of residues, such as blood or tissue, supported by ultrasonic systems that perform effective pre-disinfection and prepare instruments for the next stage.

02 DISINFECTION

WASHER DISINFECTORS

In the **washing and disinfection** phase, washer disinfectors are employed to guarantee thorough cleaning and reliable thermal or chemical disinfection using specific detergents.

03 PACKAGING

THERMAL SEALERS

The **packaging** phase follows, where instruments are carefully dried and thermally sealed in sterilization pouches or wraps to maintain sterility until use.

04 STERILIZATION

AUTOCLAVES

The **sterilization** phase is the last one and it is carried out by autoclaves where controlled temperature, pressure, and exposure time ensure the complete elimination of microorganisms, including resistant spores.
A properly executed cycle is critical to safeguarding patient health, protecting healthcare personnel, and preserving the integrity of medical instruments.

01.
Pre-treatment

Ultrasonic cleaners

The pre-treatment phase involves the immediate removal of residues, such as blood or tissue, supported by ultrasonic systems that perform effective pre-disinfection and prepare instruments for the next stage.

EFFICIENCY

- Rapid self-degassing system to increase washing efficiency.
- Multi-frequency wash optimisation system (SWEEP function).
- System to boost the washing effect on particularly dirty materials (BOOST function).

RELIABILITY

- Safety switch off.
- Incorporated drainage system.

DURATION

- The life of the equipment is significantly extended thanks to the high-performance 40Khz frequency translator, and the materials used to build it.

TECHNOLOGY

The new range of Smeg ultrasonic cleaners, classified as Class I medical devices under the MDR (EU Regulation 2017/745), provides invaluable assistance in removing residues that are insoluble in water. They are useful for removing stubborn residues from work instruments, including small tools and those that make conventional cleaning difficult.

Easy to install and entirely made of steel, the new ultrasonic cleaners also feature ergonomic side handles for easy transportation and draining using a sturdy tap and drain hose, both included.

Functions

SWEEP SYSTEM

The frequency modulation reduces washing time and prevents damage to delicate parts.

JET PROGRAM

Factory preset fast washing program to save time and energy.

DEGASS FUNCTION

Eliminates microbubbles inside hollow objects and enhances the action of ultrasounds.

TIMER FUNCTION

It allows adjusting the washing duration between 0 and 99 minutes, in 1-minute increments.



Full range

Six models are available with tank capacities ranging from 3 to 90 liters.



VU03H1



VU06H1



VU14H1



VU28H1



VU45H1



VU90H1

Key features

Version	VU03H1	VU06H1	VU14H1	VU28H1	VU45H1	VU90H1
Capacity (litres)	3	6	14	28	45	90
Number of transducer(s)	2	3	4	10	12	24
Power	130W	180W	300W	500W	600W	1000W
Power with heating	305W	355W	800W	1500W	1600W	3000W
Peak power	260	360	600	1000	1200	2000
Panels and tank material	AISI 304	AISI 304	AISI 304	AISI 304	AISI 316	AISI 316
External dimensions (WxDxH)	270x170x260	325x270x260	440x340x425	600x330x425	600x340x525	660x560x525
Internal dimensions (WxDxH)	240x140x100	300x240x100	330x300x150	500x300x200	500x300x300	600x500x300
Water heating Temp.	0 – 70 °C					
Ultrasound frequency	39 kHz ± 1 kHz with SWEEP SYSTEM technology					
User interface	2-dgt display					
Electrical connection	230/240V - 50/60Hz					
CE conformity	EMC (EN 61326-1) LV (EN 61010-1 EN 61010-2-040) 2017/745/EU Medical Device Regulation Risk class I according to MDR rule 13					
Ambient conditions	Temperature from 5°C to 40°C Relative humidity 80% up to 31°C, decreasing linearly to 50% at 40°C					
Installation conditions	Class II in accordance with EN 61010-1					
IP Grade	IP22					

Optional accessories

For optimal use, the following optional accessories are also available:

- **LIDS:** covers that protect from splashes and help keep the liquid temperature stable.
- **BASKETS AND SMALL INSTRUMENT BASKETS:** specifically-designed baskets to optimise washing and drainage of items.
- **BEAKER SUPPORTS:** stainless steel supports for holding beakers during washing.
- **GLASS BEAKERS:** glass containers with adjustable rubber ring for a secure grip.







02. Washing and disinfection

Washer disinfectors and detergents

In the washing and disinfection phase, washer disinfectors are employed to guarantee thorough cleaning and reliable thermal or chemical disinfection using specific detergents.

Smeg washer disinfectors are equipped with specially designed features to facilitate and simplify washing. By using fast, intensive cycles or creating customized cycles, users can save time, water, energy and detergents.



COMPLIANCE

Smeg Quality System complies with ISO 9001:2015 and EN ISO 13485:2016/A11:2021 for medical device standards. The full quality management system established, documented and implemented by Smeg has been certified by Notified Body for the Regulation (EU) 2017/745 related to medical devices.

All washer-disinfectors employing thermal disinfection, for medical purpose, classified as class IIb medical devices, are CE certified and compliant to relative EN15883 standards.

A0 PARAMETER

Smeg washer disinfectors offer a wide choice of programs with pre-set or selectable A0 values depending on the type of instruments to be treated. The value of A0 displays in real time and/or is printed out.

TRACEABILITY

The Smeg WD range offers connections, data record and storage functionalities for traceability according to international standards and regulations.



High capacity washer disinfectors

Smeg high-capacity washer disinfectors are a state-of-the-art solution for medium to large hospitals that require advanced systems for disinfecting surgical instruments as well as robotic surgery devices on a daily basis.

Key features

- **FLEXIBILITY:**
  Thanks to a wide choice of trolley configurations all surgical instrumentation can be accommodated. Detergents can be easily stored in the lower compartment.
- **CUSTOM PROGRAMMES:**
  The operator has at his disposal a complete range of functionalities.
- **CONTROL PANEL:**
  The multi-language TFT colour touch display allows simple and intuitive daily use, complete with a wide range of 20 default and 20 customisable programmes.
- **USB PORT:**
  The machine's equipment includes a USB port for convenient and efficient hospital data recording as well as optional LAN port for machine monitoring.



Available versions

WASHER DISINFECTORS UP TO 12 DIN

Smeg washer disinfectors with a capacity of up to 12 DIN guarantee impeccable hygiene and effective disinfection of medical instruments, thus helping to raise safety and quality standards within healthcare facilities. Reliability and state-of-the-art technology combine to meet the professional needs of hospitals and CSSDs, ensuring smooth operations and optimal results.





WASHER DISINFECTORS UP TO 18 DIN

Smeg washer disinfectors with a capacity of up to 18 DIN offer high performance, precision and reliability, meeting the needs of modern healthcare facilities. Advanced technology combined with intuitive design makes every step of the disinfection process simple and effective, helping to ensure the safety of patients and staff.

Efficient solutions for CSSDs

Hospital sterilisation units play a crucial role in ensuring safety and hygiene within healthcare facilities, managing the disinfection of instruments and medical devices essential for patient care. In this context, Smeg Instruments offers cutting edge solutions designed to optimise the efficiency of daily procedures.



Automatic loading and unloading system

The loading and unloading trolleys, designed to serve double sliding door washer disinfectors, offer the possibility to optimise the management of the washing and disinfection process, with the accurate separation of the dirty and clean sides.

- **Increased autonomy of the process**
- **Reduced need for operator intervention**
- **Increased daily productivity**

Automatic trolley detection

The automatic trolley detection represents a significant evolution for CSSDs. This innovative functionality enables better trolley management, increasing the accuracy and efficiency of the daily washing procedures and minimising the margin of human error in the handling of medical instruments.

- **Automatic trolley detection and recognition**
- **Automatic program selection according to the trolley to be washed**
- **Automatic start of the washing cycle**

Accessories for high-capacity washer disinfectors



CSK1210FLEX
6 levels flexible multipurpose washing rack for simultaneous washing of standard and MIC surgical intruments.



CSKDIN
Instrument basket with handles. Suitable for holding medium-sized instruments.



CSK1815FLEX
6 levels flexible multipurpose washing rack for simultaneous washing of standard and MIC surgical intruments.



INSPMIC15
Stainless steel mini-invasive surgery trolley.



CSKDAVXISI15
Da Vinci surgery robot washing trolley - 12 positions - si and xi series. Suitable for automatic reprocessing and validated high level disinfection of Intuitive Surgical EndoWrist©.



CPCDIN415
Stainless steel trolley for washing containers. 4 containers capacity injection rack.

WD6010

Hight-capacity washer disinfector with drop-down door

- washing up to 95 °C - antibacterial thermal disinfection
- capacity of 12 DIN baskets
- functioning protected by different levels password
- integrated built-in panel printer (optional)
- Ethernet port for LAN connection (optional)
- electronic door lock system for user safety
- forced hot air-drying system with air pre-filter 98% DOP
- n. 2 spray arms, one on the top and on the bottom of the chamber
- high pressure hot air-drying system with absolute H14 HEPA filter
- high efficiency Ecoslim steam condenser (optional)
- peristaltic pump for liquid detergent and level sensor
- peristaltic pump for liquid neutralizer and level sensor
- possibility of installing up to 2 additional peristaltic pumps
- optional internal lighting system with no. 4 LED lights for the washing chamber (standard on specific versions - see table below)
- washing rack recognition system (optional on “T” versions) with double electronic board
- cold water, hot water and demineralized water connections
- floor drain connection
- wall drain connection with dedicated drain pump (optional)
- electrical connection: 3/N/PE 400 V - 50 Hz - 13 kW max
- 60 Hz version available
- pass-through hole to insert for validation external temperature probes - max diameter available 9,5 mm (3/8”)
- chamber capacity 234 litres

Version	SINGLE DROP DOWN DOOR	DOUBLE DROP DOWN DOOR	FAST CYCLES (*)	INTERNAL LED LIGHTING SYSTEM
WD6010	-	▪	-	▫
WD6010T	-	▪	▪	▪
WD6010M	▪	-	-	▫
WD6010TM	▪	-	▪	▪

▪ standard feature ▫ optional features (some can only be installed in the factory at the time of ordering)
- feature not provided and not installable

(*) Thanks to 2 pre-heating tanks for cold and demineralized water, the average cycle time is only 35 minutes

MULTI-LANGUAGE TFT COLOUR TOUCH SCREEN ON BOTH SEPTIC AND ASEPTIC SIDE (N.1 FOR SINGLE DOOR VERSIONS)

PROGRAMS AVAILABLE: 20 DEFAULT + 20 CUSTOM

WASHING CHAMBER MADE OF AISI 316L STAINLESS STEEL AND EXTERNAL PANELS MADE OF AISI 304 STAINLESS STEEL

DETERGENT CABINET WITH REMOVABLE TRAY FOR STORING UP TO 3X5 LITRES CANS + 1X1 LITRE CAN

USB PORT FOR DOWNLOADING WASHING CYCLES LOG



External dimensions WxDxH	650x720x1950 mm
Internal working dimensions WxDxH	550x620x685 mm

WD7010

Hight-capacity washer disinfector with sliding door

- washing up to 95 °C - antibacterial thermal disinfection
- capacity of 12 DIN baskets
- functioning protected by different levels password
- integrated built-in panel printer (optional)
- Ethernet port for LAN connection (optional)
- electronic door lock system for user safety
- n. 2 spray arms, one on the top and on the bottom of the chamber
- forced hot air-drying system with air pre-filter 98% DOP
- high pressure hot air-drying system with absolute H14 HEPA filter
- high efficiency Ecoslim steam condenser (optional)
- peristaltic pump for liquid detergent and level sensor
- peristaltic pump for liquid neutralizer and level sensor
- possibility of installing up to 2 additional peristaltic pumps
- optional internal lighting system with no. 4 LED lights for the washing chamber (standard on specific versions - see table below)
- washing rack recognition system (optional for “T” versions)
- cold water, hot water and demineralized water connections
- floor drain connection
- wall drain connection with dedicated drain pump (optional)
- electrical connection: 3/N/PE 400 V - 50 Hz - 13 kW max
- 60 Hz version available
- pass-through hole to insert for validation external temperature probes - max diameter available 9,5 mm (3/8”)
- chamber capacity 234 litres

Version	SINGLE SLIDING DOOR	DOUBLE SLIDING DOOR	FAST CYCLES (*)	INTERNAL LED LIGHTING SYSTEM
WD7010	-	▪	-	▫
WD7010M	▪	-	-	▫
WD7010T	-	▪	▪	▪
WD7010TM	▪	-	▪	▪

▪ standard feature ▫ optional features (some can only be installed in the factory at the time of ordering)
- feature not provided and not installable

(*) Thanks to 2 pre-heating tanks for cold and demineralized water, the average cycle time is only 35 minutes

MULTI-LANGUAGE TFT COLOUR TOUCH SCREEN ON BOTH SEPTIC AND ASEPTIC SIDE (N.1 FOR SINGLE DOOR VERSIONS)

PROGRAMS AVAILABLE: 20 DEFAULT + 20 CUSTOM

WASHING CHAMBER MADE OF AISI 316L STAINLESS STEEL AND EXTERNAL PANELS MADE OF AISI 304 STAINLESS STEEL

USB PORT FOR DOWNLOADING WASHING CYCLES LOG

DETERGENT CABINET WITH REMOVABLE TRAY FOR STORING UP TO 3X5 LITRES CANS + 1X1 LITRE CAN



External dimensions WxDxH	780x800x1950 mm
Internal working dimensions WxDxH	550x620x685 mm

WD7015

Hight-capacity washer disinfector with sliding door

- washing up to 95 °C - antibacterial thermal disinfection
- capacity of 18 DIN baskets
- functioning protected by different levels password
- integrated built-in panel printer (optional)
- Ethernet port for LAN connection (optional)
- electronic door lock system for user safety
- n.2 spray arms, one on the top and on the bottom of the chamber
- n.2 motors forced hot air-drying system with air pre-filter 98% DOP
- high pressure hot air-drying system with double absolute H14 HEPA filters
- high efficiency Ecoslim steam condenser (optional)
- peristaltic pump for liquid detergent and level sensor
- peristaltic pump for liquid neutralizer and level sensor
- possibility of installing up to 3 additional peristaltic pumps
- optional internal lighting system with no.4 LED lights for the washing chamber (standard on specific versions - see table below)
- washing rack recognition system (optional)
- cold water, hot water and demineralized water connections
- n.2 independent washing pumps
- ready for connection to automatic loading/ unloading system for washing trolleys (optional)
- floor drain connection
- wall drain connection with dedicated drain pump (optional)
- electrical connection: 3/N/PE 380-400 V - 50 Hz - 20 kW max
- 60 Hz version available
- pass-through hole to insert for validation external temperature probes - max diameter available 9,5 mm (3/8")
- chamber capacity 348 litres

Version	SINGLE SLIDING DOOR	DOUBLE SLIDING DOOR	FAST CYCLES (*)	INTERNAL LED LIGHTING SYSTEM
WD7015	-	▪	-	▫
WD7015M	▪	-	-	▫
WD7015T	-	▪	▪	▪
WD7015TM	▪	-	▪	▪

▪ standard feature ▫ optional features (some can only be installed in the factory at the time of ordering)
- feature not provided and not installable

(*) Thanks to 2 pre-heating tanks for cold and demineralized water, the average cycle time is only 35 minutes

MULTI-LANGUAGE TFT COLOUR TOUCH SCREEN ON BOTH SEPTIC AND ASEPTIC SIDE (N.1 FOR SINGLE DOOR VERSIONS)

PROGRAMS AVAILABLE: 20 DEFAULT + 20 CUSTOM

WASHING CHAMBER MADE OF AISI 316L STAINLESS STEEL AND EXTERNAL PANELS MADE OF AISI 304 STAINLESS STEEL

USB PORT FOR DOWNLOADING WASHING CYCLES LOG

DETERGENT CABINET WITH REMOVABLE TRAY FOR STORING UP TO 3X5 LITRES CANS + 1X1 LITRE CAN



External dimensions WxDxH	900x1000x1950 mm
Internal working dimensions WxDxH	626x826x685 mm

WD7015TECO

Hight-capacity washer disinfector with double sliding door, fast cycle and eco system

- washing up to 95 °C - antibacterial thermal disinfection
- capacity of 18 DIN baskets
- equipped with FAST cycles
- functioning protected by different levels password
- integrated built-in panel printer (optional)
- Ethernet port for LAN connection (optional)
- n.2 doors interlocked for complete separation dirty/clean side
- n.2 spray arms, one on the top and on the bottom of the chamber
- n.2 motors forced hot air-drying system with air pre-filter 98% DOP
- high pressure hot air-drying system with double absolute H14 HEPA filters
- high efficiency Ecoslim steam condenser (optional)
- peristaltic pump for liquid detergent and level sensor
- peristaltic pump for liquid neutralizer and level sensor
- possibility of installing up to 3 additional peristaltic pumps
- internal lighting system with no. 4 led lights for the washing chamber
- washing rack recognition system (optional)
- cold water, hot water and demineralized water connections
- n.2 independent washing pumps
- ready for connection to automatic loading/ unloading system for washing trolleys (optional)
- floor drain connection
- wall drain connection with dedicated drain pump (optional)
- electrical connection: 3/N/PE 380-400 V - 50 Hz - 20 kW max
- 60 Hz version available
- pass-through hole to insert for validation external temperature probes - max diameter available 9,5 mm (3/8")
- chamber capacity 348 litres

ECO SYSTEM

With its efficient heat exchanger, the WD7015TECO achieves optimal results while minimizing its impact on the environment and increasing the CSSD's daily washing capacity.

-55% **-40%** **-33%**

*Comparison made performing a same three-phase wash cycle on standard version WD7015

INNOVATIVE ECO HEAT ECHANGER WITH ENERGY RECOVERY AND CONSUMPTION REDUCTION FUNCTION

MULTI-LANGUAGE TFT COLOUR TOUCH SCREEN ON BOTH SEPTIC AND ASEPTIC SIDE (N.1 FOR SINGLE DOOR VERSIONS)

PROGRAMS AVAILABLE: 20 DEFAULT + 20 CUSTOM

WASHING CHAMBER MADE OF AISI 316L STAINLESS STEEL AND EXTERNAL PANELS MADE OF AISI 304 STAINLESS STEEL



USB PORT FOR DOWNLOADING WASHING CYCLES LOG

DETERGENT CABINET WITH REMOVABLE TRAY FOR STORING UP TO 3X5 LITRES CANS + 1X1 LITRE CAN

External dimensions WxDxH	900x1000x2170 mm
Internal working dimensions WxDxH	626x826x685 mm

Undercounter washer disinfectors

The daily disinfection of surgical instruments in an effective and safe manner is a fundamental prerogative of hospitals. Smeg washer disinfectors ensure optimal hygienic conditions for CSSDs.

Key features

- **LCD DISPLAY:**
  The user interface with colour touch on glass display allows for simple and intuitive daily use.
- **CUSTOM PROGRAMMES:**
  The operator has at his disposal a complete range of 20 default and 20 customisable programmes to meet every need.
- **SAFE OPERATIONS:**
  The AISI316 internal washing chamber and the electronic door lock system ensure safe operations daily also, an electronic control system signals any cycle execution errors.
- **USB PORT:**
  The machine's equipment includes a USB port for convenient and efficient hospital data recording as well as optional RS232 port for printer connection.



Available versions

GLASS DOOR WASHER DISINFECTORS

The Concept Line washer disinfectors with glass door combine the strength of stainless steel with the transparency of glass, providing a clear view of the washing process and simplifying the control of the operation.





STAINLESS STEEL DOOR WASHER DISINFECTORS

The Concept Line washer disinfectors with stainless steel door guarantee a long service life thanks to the quality of the materials used. The stainless steel door gives the machine a modern and professional look, perfect for any health center looking for reliability and optimum performance.

Accessories for undercounter washer disinfectors



CSK4BMIC
Two-level washing trolley suitable for disinfection of specific supports and/or baskets holding instruments.



KITMIC10
Cannulate instruments basket.



CSK8B
Four-level washing trolley suitable for disinfection of specific support and/or baskets holding instruments.



ZCS3B
Two-level trolley for operating room shoe washing. Up to 14 pairs – maximum shoe size 45.



AE2BDS
Anesthesia set washing trolley with drying system.



EF5DS
Rigid videolaparoscope and endoscope trolley with drying connector.

Key features of the full range

HIGH-CAPACITY WASHER DISINFECTORS

Technical features	WD6010	WD7010	WD7015	WD7015TECO
External dimensions (WxDxHmm)	650x720x1950	780x800x1950	900x1000x1950	900x1000x2170
Internal dimensions (WxDxHmm)	550x620x685	550x620x685	626x812x685	626x812x685
TFT display/control panel	▪	▪	▪	▪
Door	2 glass, drop-down doors	2 glass, sliding doors	2 glass, sliding doors	2 glass, sliding doors
AISI 304 stainless steel external panels and AISI 316L stainless steel washing chamber	▪	▪	▪	▪
Detergent cabinet	▪	▪	▪	▪
Absolute H14 HEPA filter	▪	▪	▪	▪
Washing chamber net volume (L)	234	234	348	348
Electronic door lock, for user safety	▪	▪	▪	▪
Cycle progress light and end-of-cycle sound indication	▪	▪	▪	▪
ECO system for energy saving and consumption reduction	-	-	-	▪
Switchable from three-phase to threephase without neutral 230 V 3~ / PE / 50 Hz / 19 A 7.0 kW (**);	-	▪	▪	▪

UNDERCOUNTER WASHER DISINFECTORS

Technical features	WD1245 CONCEPT LINE	WD1260 CONCEPT LINE	WD4260 CONCEPT LINE	WD4290 CONCEPT LINE	WD5090T PROFESSIONAL LINE
External dimensions (WxDxHmm)	450x620x850	600x600x850	600x600x850	900x600x1950	900x640x850
Internal dimensions (WxDxHmm)	370x480x570	525x490x570	525x490x570	525x490x570	525x490x570
Front panel in glass with LCD display and USB frontal port	▪	▪	▪	▪	-
Available with glass door	-	-	▪	▪	-
AISI 304 stainless steel external panels and AISI 316L stainless steel washing chamber	▪	▪	▪	▪	▪
Detergent cabinet	-	-	-	▪	▪
Absolute H14 HEPA filter	-	-	▪	▪	▪
Integrated water softener	▪	▪	▪	▪	▪
Electronic door lock, for user safety	▪	▪	▪	▪	▪
Cycle progress light and end-of-cycle sound indication	▪	▪	▪	▪	▪
Installable peristaltic pumps	2	UP TO 3	UP TO 3	UP TO 4	UP TO 5
Switchable from three-phase to threephase without neutral 230 V 3~ / PE / 50 Hz / 19 A 7.0 kW (**)	-	▪	▪	▪	▪

▪ present feature - not present feature

WD1245

Concept line compact washer disinfector - 45 cm

- washing up to 95 °C - antibacterical thermal disinfection
- user interface with touch on glass colour display, simultaneous display on three independent levels of the operating parameters (program, progress status, temperature/remaining time/ Ao/peristaltic pumps dosage, etc.)
- provided with a visual and acoustic communication system for operativity and alarms
- microprocessor electronic control provided with 3 safety levels for parameters editing and adjusting
- internal memory for cycles, parameters and alarms datalogging
- provided with software to connect the device and monitoring cycles and parameters
- RS232 port (printer connection) optional
- active thermodynamic drying
- high efficiency steam condenser Ecoslim, with cold water injection
- peristaltic dosing pump for liquid detergent, with level sensor and dosing control (flow switch)
- peristaltic dosing pump for acid liquid neutralizer, with level sensor - dosing control (flow switch) optional
- incorporated high efficiency water softener with salt sensor
- communication via display of the progressive status of the washing cycle
- possibility to cool the drain water up to 65°C
- electronic door lock system for user safety
- cold water and demineralized water connections as default configuration
- chamber capacity 101 litres
- electrical connection: 1/N/PE 230 V - 50 Hz - 2,8 kW max
- 60 Hz version available
- Schuko plug 16 A - 250 V included
- chamber configuration with rails
- upper and lower trolleys D-CS1 and D-CS2 included



D-CS1
Upper trolley with sprayer 45 cm.
Suitable for holding of supports and baskets.



D-CS2
Lower trolley 45 cm.
Suitable for holding of supports and baskets.

DISPLAY FRONT PANEL IN GLASS WITH LCD DISPLAY AND USB FRONTAL PORT FOR CONNECTIVITY

PROGRAMS AVAILABLE: 20 DEFAULT + 20 CUSTOM + 3 FOR SERVICE

WASHING CHAMBER AND INTERNAL DOOR IN AISI 316L STAINLESS STEEL AND EXTERNAL PANELS MADE OF AISI 304 STAINLESS STEEL



External dimensions WxDxH	450x620x850 mm
Internal working dimensions WxDxH	370x480x570 mm

WD1260

Concept line washer disinfector

- washing up to 95 °C - antibacterical thermal disinfection
- user interface with touch on glass colour display, simultaneous display on three independent levels of the operating parameters (program, progress status, temperature/remaining time/ Ao/peristaltic pumps dosage, etc.)
- provided with a visual and acoustic communication system for operativity and alarms
- programs available: 20 default + 20 custom + 3 for service
- microprocessor electronic control provided with 3 safety levels for parameters editing and adjusting
- internal memory for cycles, parameters and alarms datalogging
- provided with software to connect the device and monitoring cycles and parameters
- RS232 port (printer connection) optional
- active thermodynamic drying
- high efficiency steam condenser Ecoslim, with cold water injection
- peristaltic dosing pump for liquid detergent, with level sensor and dosing control (flow switch)
- peristaltic dosing pump for acid liquid neutralizer, with level sensor - dosing control (flow switch) optional
- possibility of installing 1 additional peristaltic pump with related level sensor - dosing control as optional
- incorporated high efficiency water softener with salt sensor
- communication via display of the progressive status of the washing cycle
- possibility to cool the drain water up to 65°C
- electronic door lock system for user safety
- cold water and demineralized water connections as default configuration
- hot water connection (optional)
- default electrical connection: 3/N/PE 400 V - 50 Hz - 7 kW max
- convertible in single phase: 1/N/PE 230 V - 50 Hz - 2,8 kW max with dedicated optional kit. Art. WD-EC-1
- convertible in tri-phase w/o neutral: 230V 3~ - 50Hz - 19A - 7 kW max with dedicated optional kit. Art. WD-EC-3
- 60 Hz version available
- chamber capacity 147 litres
- chamber configured without rails

DISPLAY FRONT PANEL IN GLASS WITH LCD DISPLAY AND USB FRONTAL PORT FOR CONNECTIVITY

PROGRAMS AVAILABLE: 20 DEFAULT + 20 CUSTOM + 3 FOR SERVICE

WASHING CHAMBER AND INTERNAL DOOR IN AISI 316L STAINLESS STEEL AND EXTERNAL PANELS MADE OF AISI 304 STAINLESS STEEL



Version	FORCED HOT AIR-DRYING SYSTEM	NEUTRALIZER DOSING PUMP	DETERGENT DOSING PUMP	ADDITIONAL DOSING PUMP	STEAM CONDENSER	GLASS DOOR
WD1260-SC-000	-	▪	▪	▫	▪	-

▪ standard feature ▫ optional features (some can only be installed in the factory at the time of ordering)
- feature not provided and not installable

External dimensions WxDxH	600x600x850 mm
Internal working dimensions WxDxH	525x490x570 mm

WD4260

Concept line washer disinfector with drying system

- washing up to 95 °C - antibacterial thermal disinfection
- user interface with touch on glass colour display, simultaneous display on three independent levels of the operating parameters (program, progress status, temperature/remaining time/ Ao/peristaltic pumps dosage, etc.)
- provided with a visual and acoustic communication system for operativity and alarms
- microprocessor electronic control provided with 3 safety levels for parameters editing and adjusting
- internal memory for cycles, parameters and alarms datalogging
- provided with software to connect the device and monitoring cycles and parameters
- RS232 port (printer connection) optional
- forced hot air-drying system with air pre-filter 98% DOP
- absolute HEPA filter H14
- high efficiency steam condenser Ecoslim, with cold water injection
- peristaltic dosing pump for liquid detergent, with level sensor and dosing control (flow switch)
- peristaltic dosing pump for acid liquid neutralizer, with level sensor - dosing control (flow switch) optional
- possibility of installing 1 additional peristaltic pump with related level sensor - dosing control as optional
- incorporated high efficiency water softener with salt sensor
- communication via display of the progressive status of the washing cycle
- possibility to cool the drain water up to 65°C
- electronic door lock system for user safety
- cold water and demineralized water connections as default configuration
- hot water connection (optional)
- default electrical connection: 3/N/PE 400 V - 50 Hz - 7 kW max
- convertible in single phase: 1/N/PE 230 V - 50 Hz - 2,8 kW max with dedicated optional kit. Art. WD-EC-1
- convertible in tri-phase w/o neutral: 230V 3~ - 50Hz - 19A - 7 kW max with dedicated optional kit. Art. WD-EC-3
- 60 Hz version available
- chamber capacity 147 litres
- chamber configured without rails

Version	FORCED HOT AIR-DRYING SYSTEM	NEUTRALIZER DOSING PUMP	DETERGENT DOSING PUMP	ADDITIONAL DOSING PUMP	STEAM CONDENSER	GLASS DOOR
WD4260-SC-000	▪	▪	▪	▫	▪	-
WD4260-SC-00G	▪	▪	▪	▫	▪	▪

▪ standard feature ▫ optional features (some can only be installed in the factory at the time of ordering)
- feature not provided and not installable

DISPLAY FRONT PANEL IN GLASS WITH LCD DISPLAY AND USB FRONTAL PORT FOR CONNECTIVITY

PROGRAMS AVAILABLE: 20 DEFAULT + 20 CUSTOM + 3 FOR SERVICE

WASHING CHAMBER AND INTERNAL DOOR IN AISI 316L STAINLESS STEEL AND EXTERNAL PANELS MADE OF AISI 304 STAINLESS STEEL



External dimensions WxDxH	**600x600x850 mm**
Internal working dimensions WxDxH	**525x490x570 mm**

WD4290

Concept line washer disinfector with drying system and detergent cabinet

- washing up to 95 °C - antibacterial thermal disinfection
- user interface with touch on glass colour display, simultaneous display on three independent levels of the operating parameters (program, progress status, temperature/remaining time/Ao/peristaltic pumps dosage, etc.)
- provided with a visual and acoustic communication system for operativity and alarms
- microprocessor electronic control provided with 3 safety levels for parameters editing and adjusting
- internal memory for cycles, parameters and alarms datalogging
- provided with software to connect the device and monitoring cycles and parameters
- forced hot air-drying system with air pre-filter 98% DOP
- absolute HEPA filter H14
- high efficiency steam condenser Ecoslim, with cold water injection
- peristaltic dosing pump for liquid detergent, with level sensor and dosing control (flow switch)
- peristaltic dosing pump for acid liquid neutralizer, with level sensor - dosing control (flow switch) optional
- possibility of installing 2 additional peristaltic pumps with related level sensor - dosing control (for P3 only) as optional
- incorporated high efficiency water softener with salt sensor
- communication via display of the progressive status of the washing cycle
- possibility to cool the drain water up to 65°C
- electronic door lock system for user safety
- cold water and demineralized water connections as default configuration
- hot water connection (optional)
- default electrical connection: 3/N/PE 400 V - 50 Hz - 7 kW max
- convertible in single phase: 1/N/PE 230 V - 50 Hz - 2,8 kW max with dedicated optional kit. Art. WD-EC4290-1
- convertible in tri-phase w/o neutral: 230V 3~ - 50Hz - 19A - 7 kW max with dedicated optional kit. Art. WD-EC4290-3
- chamber capacity 147 litres
- chamber configured without rails

Version	FORCED HOT AIR-DRYING SYSTEM	NEUTRALIZER DOSING PUMP	DETERGENT DOSING PUMP	ADDITIONAL DOSING PUMP (*)	STEAM CONDENSER	GLASS DOOR
WD4290-SC-000	▪	▪	▪	▫	▪	-
WD4290-SC-00G	▪	▪	▪	▫	▪	▪

▪ standard feature ▫ optional features (some can only be installed in the factory at the time of ordering)
- feature not provided and not installable

(*) peristaltic pump for lubricant - peristaltic pump for disinfectant

DISPLAY FRONT PANEL IN GLASS WITH LCD DISPLAY AND USB FRONTAL PORT FOR CONNECTIVITY

PROGRAMS AVAILABLE: 20 DEFAULT + 20 CUSTOM + 3 FOR SERVICE



WASHING CHAMBER AND INTERNAL DOOR IN AISI 316L STAINLESS STEEL AND EXTERNAL PANELS MADE OF AISI 304 STAINLESS STEEL

DETERGENT COMPARTMENT WITH FRONT TELESCOPIC OPENING, CAPACITY OF 2 5-LITRE CANISTERS (UP TO 4 CANISTERS WITH OPTIONAL ITEM TANKBSK)

External dimensions WxDxH	900x600x850 mm
Internal working dimensions WxDxH	525x490x570 mm

WD5090T

PROFESSIONAL LINE

Concept line washer disinfector with drying system and detergent cabinet

- washing up to 95 °C - antibacterial thermal disinfection
- programs: 20 default + 10 custom
- n. 3 microprocessors programmable electronic control
- multi-language LCD graphic display, 128x64 pixel
- serial port RS232 for connection to external printer or PC
- forced hot air-drying system with air pre-filter 98% DOP
- absolute HEPA filter H14
- high efficiency steam condenser Ecoslim, with cold water injection
- peristaltic pump for liquid detergent and level sensor
- peristaltic pump for liquid neutralizer and level sensor possibility of installing up to 3 additional peristaltic pumps
- upper level can holder basket for detergent compartment optional (art. TANKBSK)
- incorporated high efficiency water softener with salt sensor
- possibility to cool the drain water up to 65°C
- double drain valve (optional)
- conductivity sensor (optional)
- cold water, hot water and demineralized water connections
- electronic door lock system for user safety
- default electrical connection: 3/N/PE 400 V - 50 Hz - 7 kW max
- cold water and demineralized water connections as default configuration
- convertible in single phase: 1/N/PE 230 V - 50 Hz - 2,8 kW max
- 60 Hz version available
- chamber capacity 147 litres
- chamber configured without rails

Version	NEUTRALIZER DOSING PUMP	DETERGENT DOSING PUMP	ADDITIONAL DOSING PUMP (*)	STEAM CONDENSER	UPPER-LEVEL CAN HOLDER BASKET	INTEGRATED PRINTER
WD5090T	▪	▪	▫	▪	▫	▫
WD5090TFO	▪	▪	▪	▪	▪	▪

▪ standard feature ▫ optional features (some can only be installed in the factory at the time of ordering)
- feature not provided and not installable

(*) peristaltic pump for lubricant - peristaltic pump for disinfectant

FORCED HOT AIR-DRYING SYSTEM WITH ABSOLUTE H14 HEPA FILTER

POSSIBILITY OF INSTALLING UP TO 3 ADDITIONAL PERISTALTIC PUMPS



WASHING CHAMBER AND INTERNAL DOOR IN AISI 316L STAINLESS STEEL AND EXTERNAL PANELS MADE OF AISI 304 STAINLESS STEEL

DETERGENT COMPARTMENT WITH FRONT TELESCOPIC OPENING, CAPACITY OF 2 5-LITRE CANISTERS (UP TO 4 CANISTERS WITH OPTIONAL ITEM TANKBSK)

External dimensions WxDxH	900x640x850 mm
Internal working dimensions WxDxH	525x490x570 mm

Detergents

The use of specific chemical products is essential to obtain accurate washing of any surgical device. Detergents and neutralizing agents are especially studied to answer all kind of washing needs, thus ensuring quality of the result, consumption decrease and environment safeguard.

HIGH LEVEL OF CLEANLINESS AND PERFORMANCE

Smeg's range of specific detergents combined with specific programmes guarantee high standards of cleanliness and, consequently, excellent performance in medical applications, pharmaceutical production and labs.

ENVIRONMENTAL SUSTAINABILITY

The entire Smeg supply chain follows sustainability criteria, choosing to develop new products with Green principles, reducing components that pollute or can harm humans.

WASHING QUALITY

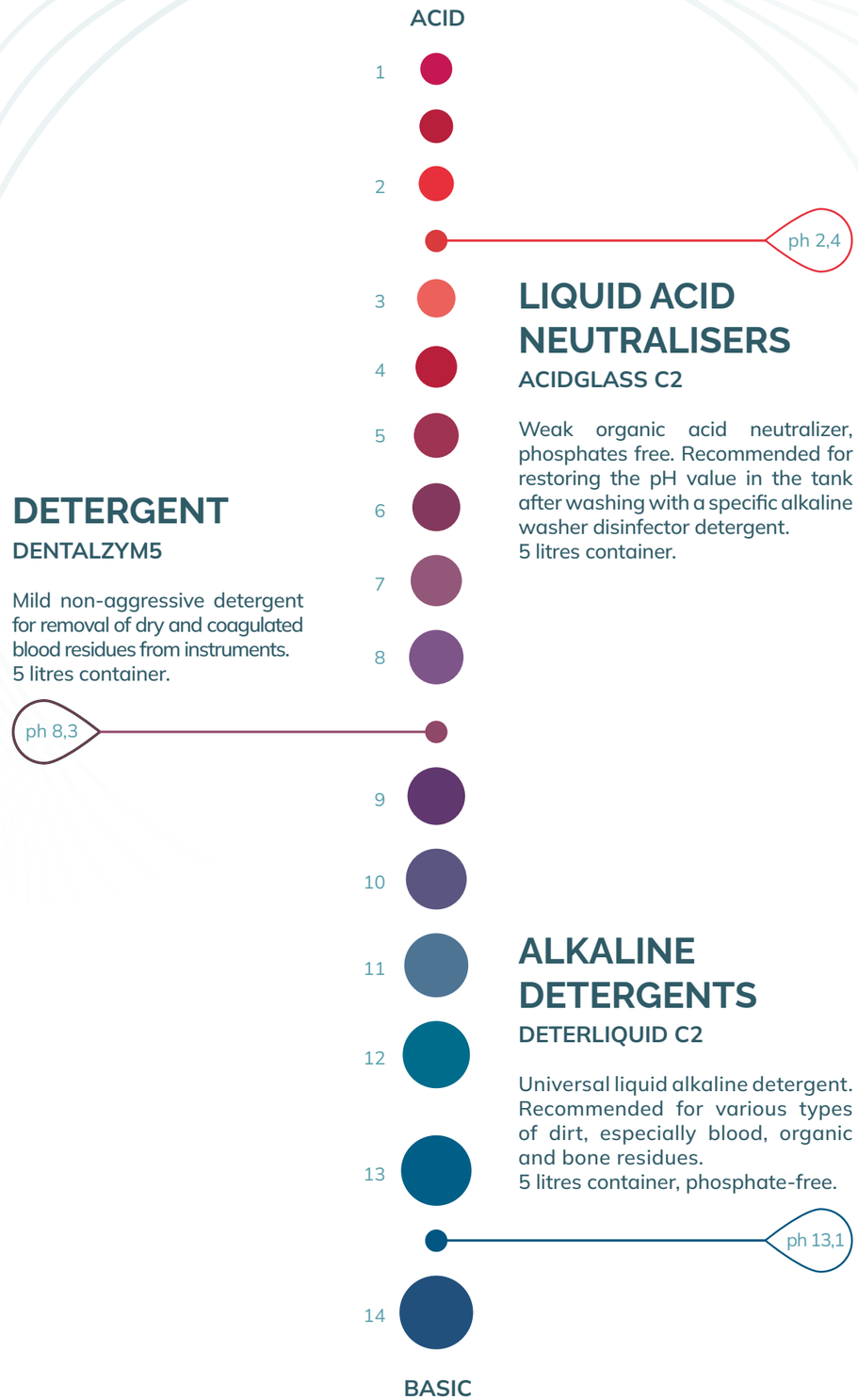
The use of specific detergents is essential to achieve thorough washing of instruments, bedpans, bed urinals and glassware. For this, Smeg has a complete range specially designed for these appliances.

HIGH LEVEL OF DISINFECTION

Smeg also offers a disinfectant dedicated to the treatment of thermolabile instruments, such as clogs, and anaesthesia tools, which assists the thermodisinfectant process of specific dedicated programmes.

DETERGENTS AND NEUTRALISING AGENTS ARE SPECIALLY DESIGNED TO MEET ALL DIFFERENT TYPES OF WASHING NEEDS.

- Product (M.D.) designed for the medical sector
- Product designed for the laboratory and pharmaceutical sector
- Product designed for washing in bedpan washer disinfectors



LIQUID ACID NEUTRALISERS

ACIDGLASS C2

Weak organic acid neutralizer, phosphates free. Recommended for restoring the pH value in the tank after washing with a specific alkaline washer disinfector detergent.
5 litres container.

DETERGENT

DENTALZYM5

Mild non-aggressive detergent for removal of dry and coagulated blood residues from instruments.
5 litres container.

ALKALINE DETERGENTS

DETERLIQUID C2

Universal liquid alkaline detergent. Recommended for various types of dirt, especially blood, organic and bone residues.
5 litres container, phosphate-free.

Detergents



DETERLIQUID C2

A multifunctional detergent with a very basic pH ideal for washing surgical instruments in instrument washer disinfectors but also glassware in glassware washers.
Its flexible formula allows the removal of various types of residues.
Do not use on anodised aluminium.
Available in 5 l canister.



DETERLIQUID I2

A chlorine-based detergent specifically designed for washing in glassware washers. Its very basic pH composition is ideal for washing glassware and removing stubborn dirt. The combined action with chlorine allows sanitising of the treated objects.
Do not use on anodised aluminium.
Available in 5 l canister.



DENTALZYM5

An enzyme-based detergent specifically designed for washing in instrument washer disinfectors.
The action of the water combined with the product allows dirt to be removed and all surgical and general instruments to be washed effectively and non-aggressively.
Available in 5 l canister.



DETERLIQUID SP2

Detergent specifically designed for washing in glassware washers. Its basic pH composition is ideal for washing glassware and removing non particularly stubborn dirt.
The special formula of Deterliquid SP2 prevents residues from being deposited on glassware, so it is highly recommended in the case of glassware that have to contain substance that is to be analysed in laboratories, so as not to interfere with the final test results.
Do not use on anodised aluminium.
Available in 5 l canister.

Neutralising agents



ACIDGLASS C2

Green acid neutraliser specially designed for neutralisation steps characterised by the need for a gentle action of the product on the components in the washing chamber. Because of this, it can be used on a wide range of materials. It is also a phosphate-free product. Excellent for both instrument and glassware washer disinfectors.
Available in 5 l canister.



ACIDGLASS P2

An acid-based neutraliser that combines two active ingredients in order to remove residues in the wash chamber more effectively after the cleansing phase. Ideal especially for the laboratory sector where its special formula allows a stronger neutralisation than a classic single-component product.
Available in 5 l canister.

Check with the manufacturer of the instrument/glassware/tools whether it can be washed in automatic machines and whether it is compatible with Smeg products.

03. Packaging

Thermal sealers and pouchmakers

During the packaging phase, the instruments are carefully dried and thermally sealed in dedicated sterilization pouches or wraps, ensuring their sterility is preserved until the moment of use.

Smeg Instruments offers a range of different products, such as thermal sealers and pouchmakers crafted specifically for this stage.

FUNCTIONALITY

Sealing systems featuring electronically controlled temperature management, compatibility with rolls of different widths, clear acoustic and visual signals at the end of the sealing cycle, and high-speed continuous sealing for efficient workflow.

DESIGN

Compact, space-saving layouts where stainless steel and high-quality plastics are combined with attention to detail and ease of use.

SAFETY

Sealing performance complies with EN868-4/5 and DIN 58953-7 standards. All solutions are CE certified to ensure full reliability.

SERVICEABILITY

Durable materials, easy-to-clean surfaces, and accessible components that minimise maintenance and support long-term performance.

General features of thermal sealers

- Automatic control of temperature and pressure parameters during the sealing process, ensuring optimal and consistent quality.
- Automatic stop system if predefined limits for sealing parameters are exceeded, preventing errors and ensuring process safety.
- Printing of traceability data directly on the pouch, simplifying management and ensuring compliance with regulations.
- Advanced process controller, fully manageable through an intuitive user interface.
- Traceability system for PC connection, enabling digital data management.
- Optional barcode reader, enhancing operational efficiency.
- Automatic activation of the sealing system for practical and efficient use.

Traceability

Available in both impulse and rotary versions, they meet the diverse needs of dental and medical practices.

Impulse models offer simple and efficient operation, activating heat only at the moment of sealing. **Rotary sealing machines**, made of stainless steel, provide continuous and uniform sealing, making them ideal for environments with high sterilization volumes.

They allow the temperature to be set between **0 and 220°C** and feature a **drag speed up to 13 m/min.**



Full range



SGI100S-00
Impulse heat sealer



SGR100S-00
Rotary heat sealer



SGR200S-0V
Rotary heat sealer with 5” touch screen display and EN 11607-2 conformity



SGR300S-PV
Rotary heat sealer with 5” touch screen display, integrated printer and EN 11607-2 conformity

Key features

Version	SGI100S-00	SGR100S-00	SGR200S-0V	SGR300S-PV
Sealing type	Impulse	Rotary	Rotary	Rotary
Validatable sealing process according to EN ISO 11607-2	-	-	▪	▪
Display	LCD 7-segment	LCD	Touch Screen 5”	Touch Screen 5”
Sealing seam width (mm)	8	12	12	12
Maximum sealing length	250 mm	Unlimited	Unlimited	Unlimited
Sealing temperature	Pre-set	Max. 220°C	Max. 220°C	Max. 220°C
Sealing speed (m/min)	-	10	5-13	5-13
Automatic start	-	▪	▪	▪
Automatic stand-by	-	-	▪	▪
Integrated printer	-	-	-	▪
USB, RS 232 Port, Ethernet and WLAN for PC connection	-	-	▪	▪
Programmable via barcode reader	-	-	▫	▫
Dimensions WxDxH (mm)	420x360x220	565x255x155	565x255x155	610x255x155
Electrical connection	115/230 V – 50/60 Hz	115/230 V – 50/60 Hz	100/240 V – 50/60 Hz	100/240 V – 50/60 Hz

▪ standard feature
▫ optional features
- feature not provided and not installable

Accessories

A comprehensive range of accessories for heat sealers completes the Smeg Instruments offering, ensuring consistent performance and accuracy over time.

Available heat sealer accessories include:

- **Seal quality tester** (pack of 250 tests). Cod. SGCHECK
- **Stainless steel sterilization pouch cutter**. Cod. SGROL/SGROL-DSP
- **Roller conveyor for pouch sliding** (only for SGR thermal sealers). Cod. SGTRAR
- **Tray for pouch sliding** (only for SGR thermal sealers). Cod. SGTRAY
- **Printer ink** (individually packaged cartridge). Cod. SGRINK
- **Barcode scanner** (only for SGR200/300). Cod. SGR-SCAN





Pouchmakers for accurate packaging

A pouchmaker is a strategic investment in **packaging precision**, workflow efficiency and sterility assurance. For CSSDs seeking to elevate their process quality -from instrument protection to process documentation- the pouchmaker serves as **a cornerstone technology that unites automation**, **safety and smart resource management**.

In today's **Central Sterile Services Departments (CSSDs)**, packaging is more than a preparatory step - it is a decisive contributor to patient safety, workflow optimisation and cost management.

A pouchmaker is a dedicated machine designed to **produce sterile barrier system** pouches directly from standard flat or gusseted reels. Instead of relying solely on pre-made bags, the pouchmaker transforms continuous reel material into custom-length pouches, ready for sealing and sterilisation.

When combined with professional heat-sealing equipment, the pouchmaker becomes a powerful ally in CSSD operations: it ensures that every instrument set receives a perfectly dimensioned pouch, reduces material consumption, and significantly accelerates packaging throughput. This synergy allows teams to tailor packaging to the instrument size, streamline the loading–sealing sequence, and maintain compliance with international standards for sterile barrier systems.



General features

- **AUTOMATIC PRODUCTION OF POUCHES:** the machine cuts and seals reels into three-sided pouches with remarkable accuracy, allowing custom lengths that perfectly match instrument dimensions.
- **HIGH-VOLUME THROUGHPUT:** advanced models can process up to hundreds of cycles per hour, supporting large daily workloads and enabling CSSDs to keep pace with increasingly complex instrument flows.
- **COMPATIBILITY WITH MEDICAL PACKAGING MATERIALS:** designed for flat and gusseted reels made of paper/plastic, Tyvek®/plastic and other validated barrier materials, ensuring compliance with EN ISO 11607 and related standards.
- **COMPACT, ERGONOMIC DESIGN:** built for seamless integration into sterile packaging workstations, with minimal footprint and intuitive operator interfaces that reduce strain and support consistent workflow.
- **PRECISION AND REPEATABILITY:** monitored parameters such as sealing time, temperature and pressure help ensure uniform, high-quality results. This is essential for maintaining sterility assurance across all produced pouches.
- **CONNECTIVITY AND DOCUMENTATION READINESS:** USB and serial interfaces allow integration with batch documentation systems and optional label printers, supporting traceability and regulatory compliance.

Key features of the full range

Version	SGT300S-0V
Productivity	▪
Validatable sealing process according to EN ISO 11607-2	LCD
Display	LCD 7-segment
Sealing seam width (mm)	12 ± 1
Maximum sealing length	Unlimited
Sealing temperature	Max. 220°C
Sealing time	0.5 - 10 s
Adjustment quantity of pouches	1 – 1.000
Adjustment pouch lenghts (mm)	100 – 2.500
Variable sealing distance (mm)	5 – 50 mm
Computer interface	USB, RS 232 port
Reel holder	▪
Programmable via barcode reader	▫
Label printer	▫
Dimensions WxDxH (mm)	740x355x240
Electrical connection	100/240 V – 50/60 Hz

▪ standard feature
▫ optional features
- feature not provided and not installable

04. Sterilization

Autoclaves

Designed for large clinics, hospitals, and CSSDs, the HMS high-end autoclaves deliver fast, reliable, and high-professional sterilization cycle after cycle.

QUALITY AND DURABILITY

The sterilization chamber and process piping are made of high-quality **AISI 316L stainless steel**, ensuring exceptional durability, reliability, and steam purity. CFC-free thermal insulation provides efficient protection and cleanliness, while the use of stainless steel **tri-clamp piping** allows quick and easy maintenance operations.

ADVANCED CONTROL SYSTEM

The intuitive display provides real-time cycle updates and alerts, and all data is securely stored on the **PLC** for **easy access** and **printing**. HMS user-friendly control system with Multi-Color Touch Display features:

1. **Multiple access levels** for controlled operation.
2. **Diagnostic In / Out test** for individual component testing and service configuration.
3. **Ethernet connection** port PC and network access (option).
4. **Independent recording** of **temperature** and **pressure** with optional data archiving to integrated memory.
5. **Off-site remote service access** (only with network access).
6. **Adjustable parameters** for each program, locally or remotely (with network access).
7. **Output of process data** via built-in printer.

FULL TRACEABILITY

The autoclave supports remote access and monitoring via local network or secure internet connection, using wired or wireless setups. Units provided with integrated router can create a dedicated **Wi-Fi network** for direct access from smartphones or tablets.
Through the **VNC application**, operators can manage all functions remotely, while, for extended monitoring needs, **EasyAccess 2.0 software** enables centralized supervision of multiple units, an ideal tool for service teams to maximize uptime and efficiency.

Process effectiveness

Fully compliant with EN 285 standards, HMS sterilizers combine flexibility and reliability with a range of **pre-set** and **customizable cycles** designed to meet every customer's need. Jacketed chambers ensure even heat distribution for consistent, safe, and effective sterilization every time.



Features

- available capacities from 4 to 12 STU, single-door or double-door configuration
- operating temperature range 110–136 °C
- pass-through version for clean/dirty area separation
- sterilization chamber and jacket in AISI 316L stainless steel
- AISI 316Ti stainless steel available as option
- external panels in AISI 304 stainless steel
- stainless steel piping with optional Tri-Clamp fittings for quick and easy maintenance
- jacketed chamber for uniform heat distribution and process stability
- high-efficiency water ring vacuum system for optimal steam penetration
- fractional vacuum cycles for complex and porous loads
- 21 pre-set programs (including test cycles) and 10 customizable programs
- 9.7” colour LCD touch screen display on loading side
- 7” colour LCD touch screen display on unloading side (optional for double door version)
- real-time temperature and pressure graph display
- acoustic and visual alarm system
- vertical sliding doors with pneumatic opening/closing system
- automatic electronic door locking system for operator safety
- integrated stainless steel steam generator with overheating protection
- automatic steam generator cleaning system
- HEPA air intake filter for drying phase protection
- multiple temperature (PT100) and pressure sensors for continuous monitoring
- pass-through ports for external validation temperature and pressure probes
- cycle and alarm data download via printer or PC connection
- Ethernet port for LAN connection (optional)
- remote monitoring and off-site service access (with network connection)
- compatible with advanced cycle traceability and reporting systems

ANALOG PRESSURE CONTROL WITH FRONT PANEL PRESSURE GAUGES

9.7” COLOUR LCD TOUCH SCREEN DISPLAY WITH PLC CONTROL SYSTEM

STERILIZATION CHAMBER AND JACKET IN AISI 316L STAINLESS STEEL

INTEGRATED PANEL PRINTER AND INTERNAL DATA LOGGER FOR FULL TRACEABILITY



NCG Sensor

Smart control for every sterilization cycle

The **NCG (Non-Condensable Gases) sensor** enables **continuous**, **real-time monitoring of steam sterilization**, ensuring **high safety**, **efficiency**, and **sustainability**. By directly measuring steam quality in every cycle, it provides constant confidence in sterilization performance.

Why continuous monitoring

Residual air or non-condensable gases can impair steam penetration and reduce sterilization effectiveness. Standards such as **EN 285** and **ISO 17665** state that each sterilization cycle is a unique event and must be verified individually. Unlike traditional periodic tests, the NCG sensor provides **continuous verification during every cycle**, ensuring reliable and consistent compliance.

How it works

The NCG sensor performs **direct, automated, real-time measurement of non-condensable gases inside the sterilizer chamber**. It operates independently, without consumables or manual intervention, and is fully compliant with **EN 285:2015**.

Key benefits

- **Improved patient safety** through continuous verification of steam quality
- **Safer workflows** by eliminating manual test handling
- **Increased productivity** by reducing daily and weekly routine tests
- **Time and cost savings** through automated monitoring
- **Reliable performance** with consistent, evidence-based measurements
- **Eco-friendly operation** with lower water, energy, and waste consumption
- **Long service life** of up to 20,000 cycles
- **Easy retrofit** on steam sterilizers with a free Tri-clamp validation port
- **Predictive maintenance** enabled by continuous NCG trend analysis



By measuring sterilization conditions **in every cycle**, the NCG sensor goes beyond minimum regulatory compliance, delivering **greater transparency, simpler validation, and long-term operational confidence**.

Full range

Available in 5 models (4–12 STU) with single or double doors, HMS autoclaves ensure top safety, intuitive operation, and maximum efficiency across all professional settings.



	HMS04	HMS06	HMS08	HMS10	HMS12
Capacity in sterilization units	4 STU	6 STU	8 STU	10 STU	12 STU
Chamber volume					
double door version	334 l	459 l	605 l	756 l	897 l
single door version	375 l	499 l	646 l	-	-
Sterilization temperature range	110 - 136°C				
Overall dimension					
width	1170 MM				
height	1900 MM				
depth - double door version	970 MM	1225 MM	1525 MM	1835 MM	2125 MM
depth - single door version	1060 MM	1315 MM	1615 MM	-	-

PROTOTYPE CURRENTLY UNDERGOING MDR



Key features

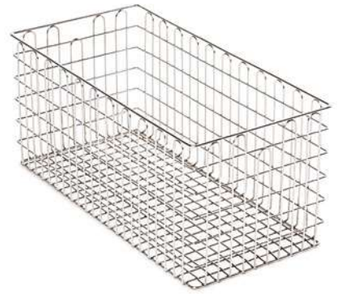
Chamber	
AISI 316 L	▪
AISI 316 Ti	▫
Mirror polishing	▪
Jacket for efficient heat distribution	
AISI 316 L	▪
AISI 316 Ti	▫
Door(s)	
Single or double door, with vertical opening	1/2
AISI 316 L	▪
AISI 316 Ti	▫
Steam source	
Built-in steam generator	▪
Automatic blow down	▪
External steam supply	▫
Dual steam source valve switch	▫
Load capacity	
Number of STU	4/6/8/10/12
Number of loading levels	1/2
Loading cart	▫
Transport trolley	▫
Automated loading / unloading	▫
Control system and traceability	
Touch screen graphic LCD display	9.7”
Integrated printer	▪
Data logger	▫
Ethernet port	▫
Process cycles	
Test programs (Bowie Dick / Leak)	▪
Custom cycles	▪
Number of cycles (process + test)	19 + 2
ECO options	
Cooling water saving system	▪
Compliance with standards	
EN 285	▪
93/42/EC	▪
2014/68/EU (Pressure Equipment Directive)	▪

▪ standard
▫ optional

Accessories



HMS-LCB04
Loading cart with basket frame (4 STU version).



HMS-STU
1 STU unit basket.



HMS-LCB04RP2
Loading cart with 2 perforated sheet metal shelves (4 STU version).



HMS-LCB04RP2
Loading cart with 2 perforated sheet metal shelves complete with STU baskets (4 STU version).



HMS-LCB04NET2
Loading cart with 2 wire metal shelves (4 STU version).



HMS-LCB08RP2
Loading cart with 2 perforated sheet metal shelves (8 STU version).

Founded in 1948, SMEG, whose name stands for ‘Smalterie Metallurgiche Emiliane Guastalla’, is a proudly Italian company renowned for the responsible production of creations that combine Made in Italy technology and design. Having consolidated its position in the household appliances sector, Smeg has expanded its business with 2 professional divisions.

The Instruments division, dedicated to professionals in the medical, pharmaceutical, laboratory and care sectors, offers technologically advanced solutions for refrigeration, washing and disinfection.

The Professional division, dedicated to professionals in the Ho.Re.Ca. sector, offers a wide range of high performance washing, cooking and refrigeration solutions.

The SMEG S.p.A. Group is today recognized internationally as a point of excellence of Made in Italy.

smeg
INSTRUMENTS

Smeg S.p.A.

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