

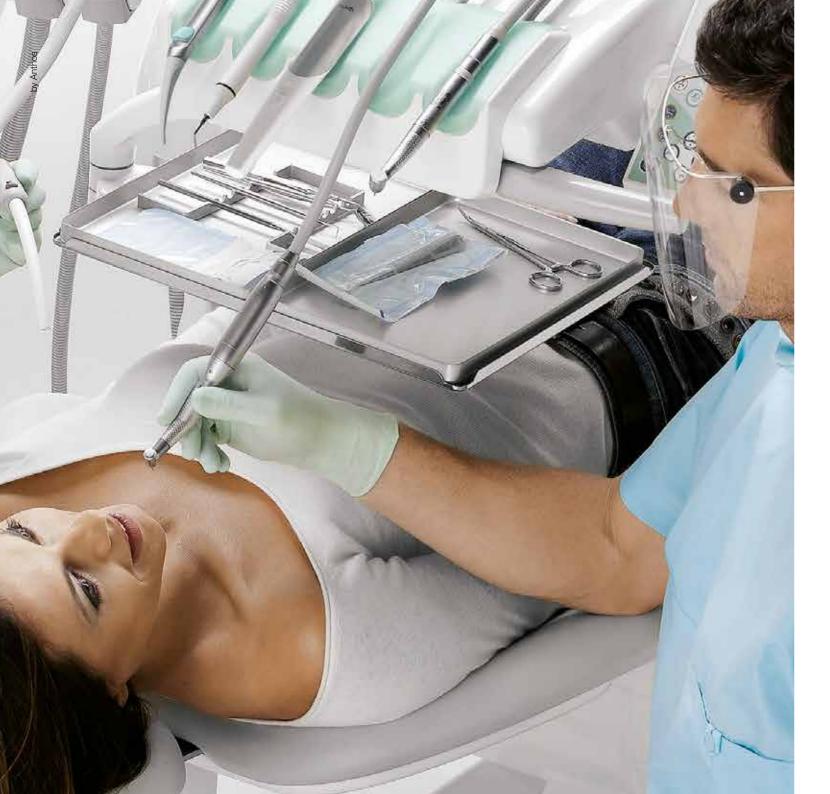


Integrate solutions for dental sterilization centrals



For over 30 years, Smeg Instruments has been recognized for its excellence in the medical instrument field. The vast experience gained in sterilization centers in hospitals and private medical facilities is adopted in the dental field where avant-garde equipment for instrument treatment constructed in compliance with the latest standards is offered on a smaller scale.

Smeg Instruments: a reliable partner at the service of dental studios.



### SERVICE



Smeg Instruments has numerous highly specialized service centers located in Italy and throughout the world. Our customer support number assures prompt and qualified technical support for all your product needs. Replacement parts are despatched within 24 hours of placing the order.

### **INNOVATION**



Smeg Instruments offers avant-garde products carefully overseen in the finest details and developed by a team of engineers with the aid of the latest tools and instruments. International patents guarantee the innovative features that make Smeg Instruments brand exclusive.

### **WARRANTY**

# CE

Boasting tens of thousands of machines installed worldwide, Smeg Instruments has acquired vast experience in the medical field. For more than 30 years Smeg Instruments has offered the world of dental instrument disinfection a complete range of technologically advanced products that meet and exceed the most recent safety standards.

### **RELIABILITY**

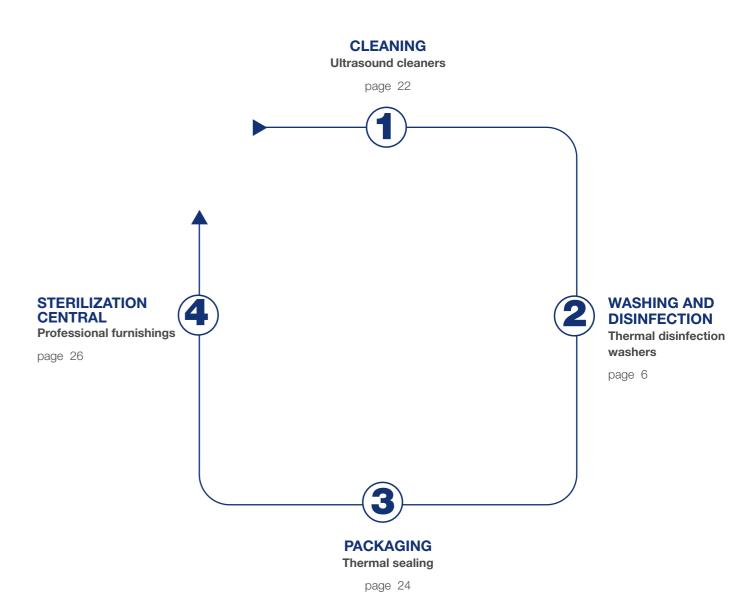
### MADE IN ITALY

Smeg group today has 2000 employees and 18 branches worldwide, the excellence of Made in Italy. Smeg Instruments has successfully become a renown leader in the market of manufacturers of professional equipment with its unique profile thanks to the supreme quality of its products, synonym of innovation, design and technology.

Smeg Instruments offers a range of products that regard the entire instrument sterilization process. It is therefore able to supply dental offices all the equipment needed for sterilization: from thermal disinfection washers, to ultrasound tanks and heat sealers, up to professional-grade stainless steel healthcare furniture.



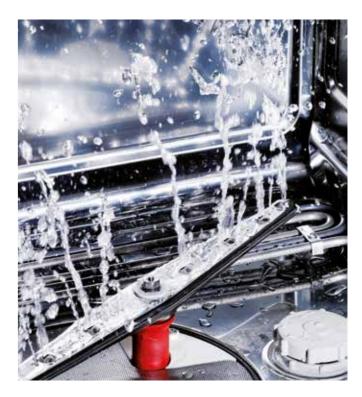
### **INTEGRATE SOLUTIONS FOR DENTAL STERILIZATION CENTRALS**





A remarkable advantage of thermal disinfection washers is the ability to repeat medical instrument treatment under the same conditions in terms of performance and safety while, at the same time, preventing the possibility of errors occurring during sterilization cycles. Supreme performance, reliability, cost-effectiveness and full safety are just a few of the features that make thermal disinfection washers manufactured by Smeg Instruments unique.

- Technology
- Precision
- Traceability
- Conformity
- Compact size
- Environmental awareness







### Technology

Thermal disinfection washers manufactured by Smeg Instruments are equipped with two temperature sensors. Two PT1000 probes, placed on the bottom of the washing well, permit the temperature to be crosschecked. An electronic monitoring system assures that the water temperature never exceeds the maximum allowable values.

### **Precision**

All models come with two high precision peristaltic pumps and efficient level sensors. Employing peristaltic pumps for metering assures, in accordance with current standards, precise measuring of the additives used.

### Safety

An electric locking system prevents the door from being accidentally or forced opened while it is automatically released at the end of the cycle, moving it a few centimeters away from the tank body. This solution assures the instrument handled is almost completely dried.

### **Traceability**

The printer provides a detailed report containing all the information about the completed cycle. Thermal disinfection washers manufactured by Smeg Instruments are also equipped with an RS232 output for connection to a PC to download all the information regarding the washing and thermal disinfection programs performed.

### Conformity

The new generation thermal disinfection washers manufactured by Smeg Instruments are class IIB medical devices, constructed in compliance with the technical requirements set forth by standard **EN15883**.

### Compact size

The compact dimensions of the thermal disinfection washers manufactured by Smeg Instruments allow it to be easily placed in sterilization rooms. Model WD2145 (single phase) is 450 mm wide, model WD1160 (that works in single phase and three phase) is 600 mm wide and model WD4060 (that works in single phase and three phase) is 600mm wide with drying system included.

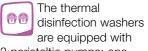
### **Environmental** awareness

The characteristics of the Smeg thermal disinfectors are low consumption and special attention for the reduction of environmental impact. Their use makes it possible moreover not to resort to massive quantities of disinfecting chemical and prevents the users from being exposed to these dangerous substances.

### Steam condenser

The steam condenser is a system that quickly vents the saturated steam created when the washing water is heated up and in particular during the thermal disinfection process. This device prevents condensate from forming near the instrument washers and exhalation of humidity and odors mainly in solutions in which the apparatus is placed under the counter. In addition, in air conditioned rooms, it reduces the air conditioning system's work load by limiting heat dispersion of the thermal disinfection washers.

### Peristaltic pumps



2 peristaltic pumps; one for metering the alkaline detergent during washing while the other is used to meter the acid detergent during the neutralization stage. Each pump comes complete with a level sensor to be placed directly in the canisters for the products used.



### Electric locking system

The electric locking system prevents the door from being accidentally or forced opened while it is automatically released at the end of the cycle, moving it a few centimeters from the tank body to keep condensate formation on the instruments handled down to minimum.

### **Printer**



The importance of tracing the washing and disinfection

cycles performed in professional instrument washers is essential for verifying whether the operations executed were successful or not. A printer is a necessary accessory, as it can provide a detailed report containing all the information regarding cycles that have already been executed.



### EN15883



The thermal EN 15883 disinfection washers meet standard

EN15883, that sets forth the technical requirements in terms of product and process quality assurance which professional-grade instrument washers and their accessories must satisfy to assure washing cycles that can be controlled, checked and repeated.

### Parameter A

different thermal disinfection

solutions and are able to

is shown directly on the

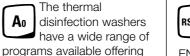
display screen and, if the

calculate parameter AO in

real time. The value obtained

printer is present, it is stated

on the end-of-cycle report.



One of the most important points required by the EN15833 standard is being

**Connection RS232** 

able to make a complete check of the executed thermal disinfection process using professional instrument washers. Therefore, the new generation of devices must include the equipment necessary for communicating all executed process information. The new generation WD range includes a RS232 output for PC connection. This permits all the executed washing and disinfection

program information to be

downloaded.

### **Drying System**



The forced air "Drying System" consisting of an

effective hot air generator and powerful blower fan, provides extremely efficient and quick drying. Air is collected through dual filtering, firstly by a class C pre-filter with 98% efficiency, and then by a class S HEPA absolute filter with 99.999% efficiency. This assures maximum sterility of the blown air on the treated instruments at all times.



















### WD2145



TECHNICAL FEATURES	
ELECTRONIC CONTROL	MICROPROCESSOR
STANDARD PROGRAMS STORED	15
CUSTOMISABLE PROGRAMS	6
DISPLAY WITH SEGMENTS AND COMMUNICATION LED ICONS	YES
TANK INTERNAL TEMPERATURE	FROM ROOM TEMPERATURE TO 95°C
TEMPERATURE SENSORS IN TANK	2 X PT 1000 CLASS B IEC 60751
DETERGENT DOSING SYSTEM	MAX. 2 LIQUID PUMPS
DETERGENT LEVEL SENSOR	YES
SAFETY LOCK	YES, WITH ELECTROMAGNETIC RELEASE AND AUTOMATIC OPENING
SAFETY DEVICES	SAFETY THERMOSTATS, DOOR INTERLOCK
TRACEABILITY	STORAGE OF DATA FOR 100 MOST RECENTLY RUN PROGRAMS
RS232 SERIAL PORT FOR PC CONNECTION/PRINTER	YES
CYCLE STORAGE	YES, WD-TRACE/EXCEL FORMAT
STEEL WASH CHAMBER/ EXTERNAL PANELS	AISI 316L/AISI 304
WATER SUPPLY	COLD AND DEMI WATER INLET
INCORPORATED WATER SOFTNER	YES
STEAM CONDENSER	YES
EXTERNAL DIMENSIONS (WITH TOP EMBEDDED)	450X620X850 (830) MM
INTERNAL DIMENSIONS	380X480X590 MM
ELECTRICAL POWER SUPPLY	1/N/PE 230V ~50Hz 3,3 kW
NOISE	MAX 50 dB











### **WD1160**



TECHNICAL FEATURES	į
ELECTRONIC CONTROL	_

MICROPROCESSOR
15
6
YES
FROM ROOM TEMPERATURE TO 95°C
2 X PT 1000 CLASS B IEC 60751
MAX. 3 LIQUID PUMPS
YES
YES, WITH ELECTROMAGNETIC RELEASE AND AUTOMATIC OPENING
SAFETY THERMOSTATS, DOOR INTERLOCK
STORAGE OF DATA FOR 100 MOST RECENTLY RUN PROGRAMS
YES
YES, WD-TRACE/EXCEL FORMAT
AISI 316L/AISI 304
COLD AND DEMI WATER INLET
YES
YES
600X605X850 (830) MM
520X515X545 MM
1/N/PE 230V ~50Hz 3,3 Kw 3/N/PE 400V ~50Hz 7,0 Kw
50 dB
MAX 50 dB













### **WD4060**



TECHNICAL FEATURES	
ELECTRONIC CONTROL	MICROPROCESSOR
STANDARD PROGRAMS STORED	15
CUSTOMISABLE PROGRAMS	6
DISPLAY WITH SEGMENTS AND	YES
COMMUNICATION LED ICONS	1E3
TANK INTERNAL TEMPERATURE	FROM ROOM TEMPERATURE TO 95°C
TEMPERATURE SENSORS IN TANK	2 x PT 1000 CLASS B IEC 60751
DETERGENT DOSING SYSTEM	MAX. 3 LIQUID PUMPS
DETERGENT LEVEL SENSOR	YES
SAFETY LOCK	YES, WITH ELECTROMAGNETIC RELEASE AND AUTOMATIC OPENING
SAFETY DEVICES	SAFETY THERMOSTATS, DOOR INTERLOCK
TRACEABILITY	STORAGE OF DATA FOR 100 MOST RECENTLY BUILDING PROGRAMS
RS232 SERIAL PORT	YES
FOR PC CONNECTION/PRINTER	
CYCLE STORAGE	YES, WD-TRACE/EXCEL FORMAT
STEEL WASH CHAMBER/ EXTERNAL PANELS	AISI 316L/AISI 304
DRYING SYSTEM	YES
PREFILTER CLASS C 98% AND HEPA FILTER CLASS S 99.999%	YES
WATER SUPPLY	COLD AND DEMI WATER INLET
INCORPORATED WATER SOFTNER	YES
STEAM CONDENSER	YES
EXTERNAL DIMENSIONS (WITH TOP EMBEDDED)	600 x 605 x 850 (830) mm
INTERNAL DIMENSIONS	520 x 515 x 545 mm
ELECTRICAL POWER SUPPLY	1/N/PE 230V ~50Hz 3,3 Kw 3/N/PE 400V ~50Hz 7,0 Kw

NOISE MAX 50 dB

The machine bodies in the WD series must be equipped with carriages and supports most suited to the specific treatment requirements of the different types of instruments/supports used in the medical sector. The various possible machine/carriage configurations described below are meant as a guide to help you choose the most appropriate solution for the type of instruments/ supports used.



### WD2145 CONFIGURATION

### UPPER LEVEL

### D-CS1 UPPER TROLLEY WITH:

- support for washing handpieces D-SM6
- 1 basket D-CM1
- 1 basket for CSMICRO2 rotary cutters

### LOWER LEVEL

### D-CS2 LOWER TROLLEY WITH:

- 1 vertical support D-SV
- 1 instrument basket CSK1/6
- 1 basket D-CM1



### WD1160 AND WD4060 CONFIGURATION

### UPPER LEVEL

### CS1-1 TROLLEY WITH:

- Support for washing handpieces D-SM8
- 1 instrument basket CSK1/3
- 1 vertical support D-SV

### LOWER LEVEL **CS2** TROLLEY WITH:

- 1 support D-ST10
- 1 support D-SIMS

### **ACCESSORIES**

### **BASIC TROLLEYS**

Basic basket and support-holding trolleys for washing surgical instruments used in the operating room. They include incorporated sprayers (on the upper level) and a sprayer on the bottom of the machine (lower level). Made in stainless steel.



### **D-CS1** BASIC UPPER TROLLEY 45CM

Basic upper trolley with sprayer for the WD2145 model. It holds baskets and supports for surgical instrument treatment.



### CS1-1 BASIC UPPER TROLLEY 60CM

Basic upper trolley with sprayer for the WD1160 and WD4060 model. It holds baskets and supports for surgical instrument treatment.



### D-CS2 BASIC LOWER TROLLEY 45CM

Basic lower trolley for the WD2145 model. It holds baskets and supports for surgical instrument treatment.



### CS2 BASIC LOWER TROLLEY 60CM

Basic lower trolley for the WD1160 and WD4060 model. It holds baskets and supports for surgical instrument treatment.



To meet these specific requirements of injection washing and disinfection of the instruments, Smeg has designed and produced accessories D-SM12E (WD2145) D-SM8 (WD1160 and WD4060) and D-SM1260EDS for WD4060 only (not in the picture). These accessories enable to wash the outer parts of the instruments, and delicately but thoroughly wash the inside ducts by forcing the washing solution into them.



### **D-SM12** HAND PIECE WASHING SUPPORT

Hand piece washing support for WD2145. It is supplied with a standard set consisting of 12 silicone rings, 12 filters. Made of stainless steel.



### D-SM12E+D-CS1 HAND PIECE ON

TROLLEY
Hand piece washing

support D-SM12E must be positioned on D-CS1 trolley as shown in the figure at the side.



### D-SM8 HAND PIECE WASHING SUPPOR

Hand piece washing support for WD1160 and WD4060. It is supplied with a standard set consisting of 8 silicone rings, 8 filters and 6 nozzles. Made of stainless steel.



### D-SM8+CS1-1 HAND PIECE ON TROLLEY

Hand piece washing support D-SM8 must be positioned on CS1-1 trolley as shown in the figure at the side.

### **SUPPORTS & BASKETS**



CSMICRO1 INSTRUMENT BASKET WITH HANDLES AND COVER

Suitable for dental instruments. 2x2 mm mesh.

Made of stainless steel.

Dimensions

Dimensions lxdxh 240x235x55 mm.



**CSK1/3** INSTRUMENT BASKET WITH HANDLES

Suitable for dental instruments. 5x5 mm mesh.

Made of stainless steel.

Dimensions lxdxh 435x160x50 mm.



CSMICRO2 AND CSMICRO3 FINE-DRAWN MESH BASKET WITH COVER

Suitable for housing rotary cutters and small instruments.

CSMICRO2 Dimensions lxdxh 100x80x45 mm.

Made of stainless steel.

CSMICRO3 Dimensions lxdxh 280x168x45 mm.



CSK2 INSTRUMENT BASKET WITH HANDLES

Suitable for dental instruments. 5x5 mm mesh.
Only for the WD1050D model.

Made of stainless steel.

Dimensions lxdxh 450x225x50 mm.



**CSK1/6** BASKET WITH COVER

Suitable for various instruments. 5x5 mm cover mesh. 3x3 mm basket mesh. Made of stainless steel. 

Dimensions

| lxdxh 130x225x50 mm.



**D-CM1** BASKET WITH HANDLES

Basket with handles, suitable for various instruments.

3x3 mm mesh.

Made of stainless steel.

Dimensions lxdxh 300x155x115 mm.



**D-SV** SUPPORT TO PLACE VARIOUS INSTRUMENTS

Support to place various instruments in the vertical position. Should be positioned on trolleys D-CS1 and D-CS2.

Made of stainless steel.

Dimensions
lxdxh 295x160x165 mm.



**D-ST10** TRAY/CONTAINER SUPPORT

Support for 10 basins/trays. Suggested position: standard bottom trolley D-CS2 or CS2.

Made of stainless steel.

Dimensions lxdxh 440x170x175 mm.



**D-SB2** BASKET SUPPORT

Support for two CSMICRO1 or two CSK1/6 or two IMS half units. Should be positioned on the upper trolley D-CS1 or CS1.

Made of stainless steel.

Dimensions lxdxh 415x130x150 mm.



D-SCT8I CONTAINER COVER SUPPORT

Support for 8 tray covers. Can be positioned on the lower level only. Occupies 2/3 of D-CS2 trolley; 1/2 of CS2 trolley.

Made of stainless steel.

Dimensions lxdxh 385x310x115 mm.



**D-SB3** BASKET SUPPORT

Support for three CSMICRO1 or three CSK1/6 or three IMS half units. Should be positioned on standard lower trolley D-CS2 or CS2.

Made of stainless steel.

Dimensions Ixdxh 300x130x145 mm.



**D-ST11** TRAY SUPPORT

Support for 11 trays. Can be positioned on the lower level only. Occupies: 2/3 of D-CS2 trolley; 1/2 of CS2 trolley.

Made of stainless steel.

Dimensions: lxdxh 335x305x115 mm.





#### **D-ST16** TRAY SUPPORT

Support for 16 trays. Can be positioned on the lower level only. Occupies: 2/3 of CS2 trolley; complete D-CS2 trolley. Made of stainless steel.

Dimensions: lxdxh 460x310x115 mm.



### **D-SIMS** SUPPORT FOR IMS UNITS

Support for 6 IMS units or 12. IMS half units. Can be positioned only on standard lower trolley D-CS2 or CS2. Made of stainless steel.

Dimensions: lxdxh 445x230x155 mm.



### **SPD** PLIERS SUPPORT

Support for forceps. Support for vertical positioning of forceps Made of stainless steel

Dimensions: lxdxh 305x150x135 mm.



### **B6040L** STAINLESS STEEL BASE

The frame, with detergent compartment, allows bringing the machine loading level up to an ergonomic height approximately 70 cm from the ground.

Made of stainless steel
Dimensions
I x d x h = 600x530x400 mm



### **D-SCT8S** SUPPORT FOR CONTAINER COVERS

Support for 8 tray covers. Recommended for the D-CS1 trolley. Made of stainless steel.

Dimensions: lxdxh 445x310x120 mm.



### **T6040 STAINLESS STEEL FRAME**

The frame allows bringing the machine loading level up to an ergonomic height approximately 70 cm from the ground. The frame also facilities cleaning the machine underneath.

Made of stainless steel
Dimensions
I x d x h = 600x530x400 mm

Specific detergents are needed to obtain accurate washing and the most effective thermal disinfection of the treated medical instruments with professional instrument washers. Smeg offers a complete range of alkaline detergents (to be used during the washing phase) and acid neutralizers (to be used during the neutralization phase) that are specially designed to guarantee efficient cleaning, so much so, that it favors a temperature disinfection action in the final thermal disinfection phase. Smeg also offers numerous disinfectants used for treating thermolabile instruments and anesthesia instruments to be used in the machine during the thermal chemical procedure. Special lubricants and additives that prolong the life of medical devices are available as well.



### **DENTALZYM5**

Weak alkaline liquid detergent for delicate washing of handpieces and instruments made of titanium, aluminium and stainless steel.

Package: one 5-litre can.



### **DENTALAC5**

Alkaline detergent powder to wash stainless steel instruments.

Package: one 5-litre can

The line of Smeg VU ultrasound cleaner constitutes an extremely useful aid in eliminating residues insoluble in water and represents the ultimate technology in ultrasonic cleaning.

They are available in different volumes (from 3 to 90 lt).

### **Technology**

- Electronic time and temperature control
- Electronically controlled adjustable heating stage

### **Efficiency**

- Fast self-degassing system to increase washing efficiency
- Optimization system for multi-frequency washing (SWEEP function)
- Power efficiency function for extra cleaning effect (BOOST function)

### Reliability

- Embebbed drain system
- Safety disconnect (Safety switch off)

### **Duration**

 The service life of the apparatus is notably extended thanks to the 38 Khz frequency high performance transducer provided and construction materials employed.

### **SERIE VU**



TECHNICAL FEATURES	VU03H	VU06H	VU13H
ULTRASOUND FREQUENCY	38kHz	38kHz	38kHz
MAXIMUM PEAK ULTRASOUND POWER	320W	600W	800W
HEATER POWER	200W	400W	800W
TOTAL POWER CONSUMPTION	280W	500W	1000W
ULTRASOUND INTENSITY	4,1W/cm <sup>2</sup>	2,6W/cm <sup>2</sup>	2,6 W/cm <sup>2</sup>
BOOST	YES	YES	YES
SWEEP	YES	YES	YES
DEGASIFICATION AUTODEGASIFICATION	YES	YES	YES
DIMENSIONS			
CHAMBER VOLUME	I 2,75	I 5,75	l 12,75
INTERNAL CHAMBER DIMENSIONS (I x d x h)	240x137x100mm	300x151x150mm	300x240x200mm
EXTERNAL CHAMBER DIMENSIONS (I x d x h)	300x179x214mm	365x186x264mm	365x278x321mm
NET WEIGHT	3,3kg	6,0 kg	7,5kg
HANDLE	YES	YES	YES
STAINLESS STEEL			
CHAMBER	AISI 304	AISI304	AISI 304
EXTERNAL HOUSING	AISI 304	AISI 304	AISI 304
POWER SUPPLY			
VOLTAGE	230V ~ 50Hz	230V~50Hz	230V ~ 50Hz

SG THERMAL SEALERS TECHNICAL DATASHEET

The instruments remain sterile only if the sterilized material is protected in a package that is perfectly airtight and durable in the surrounding environment. Smeg Instruments offers two solutions that differ from each other as concerns the sealing system employed: a model with impulse sealing and one with rotating sealing.

### Design

Space-saving compact models in which the materials employed (stainless steel and plastic) are elegantly combined, paying special attention to details.

### **Functionality**

The SGI250 model impulse sealer is able to hold rolls of different widths according to the objects to be bagged. The temperature of the heating element is electronically controlled and assures continuous sealing in little time. Both audible and visual signals are given to inform the user the sealing cycle has been completed. The SGR018S model automatic rotating sealer assures sealing at a speed of 18 mt/sec with electronic temperature control.

### Safety

The sealing process of model SGR018S satisfies the requirements of standard EN868-4/5, whereas model SGI250 also meets the requirements of standard DIN 58953-7. Both products are CE certified.

### Care

The supreme quality of the stainless steel and plastic materials used for the outside surfaces assure durability and easy cleaning. Care operations are reduced to minimum as the components can be easily reached.

### **SGI250**



### **TECHNICAL FEATURES**

SEAL MARGIN	-
SEALING TEMPERATURE	Automatic
SEALING SEAM WIDTH	8mm
SEALING SEAM LENGTH MAX	250mm
SEALING SPEED	-
POWER SUPPLY	
VOLTAGE	230 50Hz / 115 60Hz
POWER CONSUMPTION MAX	850W
TEMPERATURE CONTROL	Min 0 max 9
DIMENSIONS (I x d x h)	
EXTERNAL DIMENSIONS	420 x 360 x 220mm
NET WEIGHT	8kg
STAINLESS STEEL	
EXTERNAL HOUSING	AISI304

### SGR18S



#### TECHNICAL FEATURES

SEAL MARGIN	5 - 35mm	
SEALING TEMPERATURE	0 – 220°C	
SEALING SEAM WIDTH	12mm	
SEALING SEAM LENGTH MAX	unlimited	
TRACEABILITY DATA	printout on the packaging	
BARCODE SCANNER	optional	
SEALING SPEED	10m/s	
POWER SUPPLY		
VOLTAGE	230 50Hz / 115 60Hz	
POWER CONSUMPTION MAX	500W	
TEMPERATURE CONTROL	electronic	
DIMENSIONS (I $x d x h$ )		
EXTERNAL DIMENSIONS	500x 260 x 140mm	
NET WEIGHT	13kg	
STAINLESS STEEL		
EXTERNAL HOUSING	AISI304	



## Ease of disinfecting and sterilization

The material, single-piece work surfaces without any fissures, finely satin finished outside and mirror finished inside assure complete disinfection and sterilization.

### **Functionality**

The structures are designed based on modularity, strict ergonomic criteria and ease-of-use.

### Design

The design favors functional aspects and distinguishes itself for its thin essential appearance, suitable for all dental offices.

### Resistance

The sturdiness of stainless steel and expert workmanship offer unparalleled resistance over time.

### **Exclusivity**

The stringent concepts which Smeg Instruments integrated solutions are based on allow structures to be developed that clearly distinguish themselves from the other solutions present on the market.

### **INTEGRATE SOLUTIONS FOR DENTAL STERILIZATION CENTRALS**





### PROFESSIONAL FURNISHING

Smeg Instruments offers a number of integrated solutions that allow you to obtain a highly professional and functional sterilization area, constructed entirely in materials well known for ease of disinfecting and sterilizing: 18/10 stainless steel and corian. The professional furniture is designed to guarantee the correct flow in the instrument treatment process.

- Ease of disinfecting and sterilization
- Functionality
- Design
- Resistance
- Exclusivity



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