

As a result of constant technological updating, the technical data provided in the tables may be subject to change without prior notice. 02/2015 CSTEGB151500



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C-28 PLUS C-28
C-22 PLUS C-22
C-17 PLUS C-17

Premium sterilisation





C-17 PLUS, C-22 PLUS and C-28 PLUS

Castellini combines excellent materials, technology and intuitive controls to bring outstanding performance and ensure operative simplicity during sterilisation procedures in the dental surgery.

The new C-17 PLUS, C-22 PLUS and C-28 PLUS steam sterilisers, respectively with 17, 22 and 28-litre capacity, represent the most advanced equipment in terms of security, speed and traceability. Both sterilisers feature a colour LCD touch-screen display unit to facilitate cycle management and programming.



Adding value by details

In order to provide dental staff with the best functional solutions, Castellini implements a series of features designed to ensure greater security and quality throughout the sterilisation process. Furthermore, the modular concept on which this equipment is based, allows for later upgrading without the need to invest in special adapters or extra software. Stable process parameters are achieved thanks to a high-performance steam generator and double-head vacuum pump. The sterilisation chamber is made entirely of electro-polished stainless steel for longer life and a constantly high level of sterilisation quality. The locking mechanism is easy to use and extremely secure; it also allows emergency recovery of the load in the event of a power failure.

LED illumination on the front of the autoclave provides ergonomic lighting for staff in all environments. The fill and drain tanks are accessed via extra large doors making inspection and maintenance convenient. Another ergonomic feature regards the quick couplings for manual filling and draining procedures. An automatic water feed system is available taking demineralised water from an external tank. This can be set up as a permanent connection to the demineralisation device for additional efficiency and simplicity. An inbuilt conductivity sensor inside the fill tank automatically checks distilled water quality and advises staff via a special warning icon on the display when water quality is unsuitable for use, thus avoiding potential damage to the autoclave. Added protection is granted thanks to the anti-dust filter which protects the steam condensation system and the inside of the steriliser.

Technical assistance

Castellini technical service staff are available for customer requirements and will provide immediate support thanks to the remote connection capabilities that are incorporated into the steriliser.

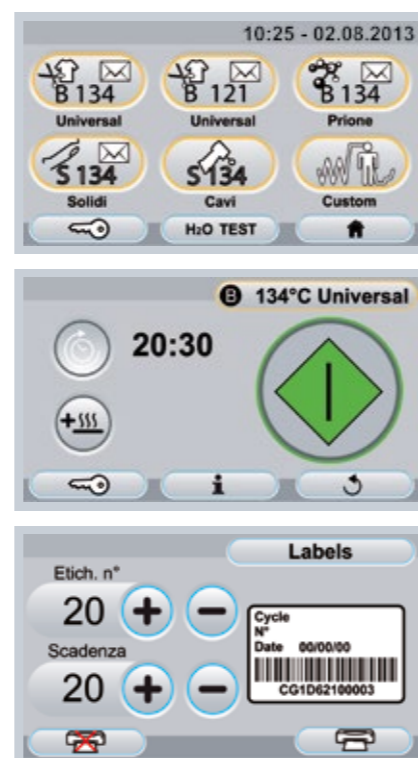
Touch-screen interface

Efficiency and clarity are key aspects when it comes to dealing with sterilisation and the touch-screen interface makes the process both faster and easier for surgery staff. Each program has an associated icon and staff can manage the equipment according to their specific needs and usage.

Considering the frequency with which sterilisation procedures are required, long-lasting efficiency becomes a key issue in any surgery. A warning icon warns staff whenever simple maintenance tasks are necessary to keep equipment in perfect conditions.

Fingertip simplicity

Enabling staff to optimise workflow is the primary advantage of the high-tech interface. Data management and traceability for any sterilisation cycle is easily achieved via the touch-screen display in full compliance with professional standards. Staff simply enter their personal identification code and obtain full process data after each cycle. Internal memory on each steriliser records cycle data which can be downloaded in PDF format via a USB port or Ethernet connection. The optional Wi-Fi module is a practical alternative to standard connectivity enabling cycle data transmission and cycle status to tablets and smartphones for remote monitoring. Sterilisation cycles can be pre-set during the day to start at night when energy costs may be lower, so that material is ready for use the next day. Staggered start times on separate devices will also help avoid overloading the electrical supply system instead of running several devices simultaneously. Furthermore, combined test cycles can be set to start prior to surgery opening times, as and when required.





C-17, C-22 and C-28

Maximum safety and maximum reliability are the primary characteristics of the C-17, C-22 and C-28 autoclaves. Both are achieved thanks to ease of use and exceptional practicality that arise from a down-to-earth concept. Attention to design details and simplicity make the 17, 22 and 28-litre models user-friendly and the ideal partner in the surgery. An LCD display features clear controls and provides essential information regarding cycle status and the integrated keypad allows staff to enter data and program the equipment as required.



Lifetime quality

Many aspects of these sterilisers have been implemented to guarantee long-life service and constant reliability. The steam generator and double-head vacuum pump, together with the superior quality of the sterilisation chamber, are the basis of both performance and durability. Also, thanks to the software and LCD interface, staff are advised when scheduled maintenance tasks are necessary to keep performance at top levels and provide quality results and equipment efficiency over time. Long-term safety is also ensured with the new door locking mechanism allowing for load recovery even in case of power cuts.

Select your ideal set-up

Each autoclave can be fitted with a series of features that improve surgery workflow as far as the sterilisation procedures are concerned. Water level sensors in the supply tank provide automation of the water feed system and the quality of the distilled water is checked by a conductivity sensor which will warn of unsuitable conditions for steam sterilisation. A quick coupling system assists in manual fill and drain procedures and speeds up the entire process. The autoclave can also be connected to a demineralisation device and water can be drawn from an external tank via an automatic filling system. An anti-dust filter ensures no impurities in the cooling air enter the autoclave or penetrate into the steam condensation system which would consequently compromise results to a certain extent.

Data transfer

Data regarding each completed sterilisation cycle are immediately recorded on the internal memory of the steriliser. Subsequently, these data can be downloaded and transferred to a PC using a simple USB storage device. Each operator uses their own personal ID code to interact with the autoclave via the LCD panel in order to select programs and retrieve data, making workflow simple and ensuring correct traceability.



A solution for each need

Fast and flexible, Castellini high-performance sterilisers not only guarantee optimum results and failsafe security, but provide technological solutions which cover all requirements and ensure worry-free workflow.

Equipment provided	C-17 PLUS C-22 PLUS C-28 PLUS	C-17 C-22 C-28
USB port	•	•
Ethernet (RJ 45 port)	•	-
Serial port (RS 232)	•	•
Anti-dust filter	•	•
Bacteriological filter	•	•
LED lighting	•	-
Trays	5 for C-17 PLUS and C-22 PLUS 6 for C-28 PLUS	3 for C-17 5 for C-22 6 for C-28
Tray extractor	•	•
Tray support	•	•

● = standard

– = unavailable



Technical data	C-17 PLUS	C-22 PLUS	C-28 PLUS	C-17	C-22	C-28
Power supply voltage	220/240 V (other voltages on request)	220/240 V (other voltages on request)	220/240 V (other voltages on request)	220/240 V (other voltages on request)	220/240 V (other voltages on request)	220/240 V (other voltages on request)
Mains frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Rated power	2300 W	2300 W	2300 W	2300 W	2300 W	2300 W
External dimensions WxHxD	480 x 500 x 600 mm	480 x 500 x 600 mm	480 x 500 x 600 mm	480 x 500 x 600 mm	480 x 500 x 600 mm	480 x 500 x 600 mm
Chamber dimensions Diam. x Depth	250 x 350 mm	250 x 450 mm	280 x 450 mm	250 x 350 mm	250 x 450 mm	280 x 450 mm
Total weight	51 kg	56 kg	60 kg	49 kg	54 kg	58 kg
Tank capacity	4,5 litres	4,5 litres	4,5 litres	4,5 litres	4,5 litres	4,5 litres
Autonomy	from 7 to 11 cycles	from 6 to 10 cycles	from 5 to 9 cycles	from 7 to 11 cycles	from 6 to 10 cycles	from 5 to 9 cycles
Sterilisable load *	6 kg	7,5 kg	9 kg	6 kg	7,5 kg	9 kg

* Maximum value refers to solid non-wrapped material

Cycle	Cycle type	Sterilisation time	C-17 PLUS	C-22 PLUS	C-28 PLUS	C-17	C-22	C-28
Overall cycle times including drying (min)								
134°C UNIVERSAL	B	4	31	36	45	37	41	48
121°C UNIVERSAL	B	20	46	51	60	52	56	63
134°C UNWRAPPED HOLLOW INSTRUMENTS	S	4	24	28	36	28	32	39
134°C WRAPPED SOLID INSTRUMENTS	S	4	24	28	36	30	32	39
134°C PRION	B	18	45	50	59	51	55	62
xxx° C CUSTOM	Cycle can be personalised by user with temperatures 134°C / 121°C and process times starting from 4' (134°C) to 20' (121°C) and settable drying							
VACUUM TEST	TEST		18	18	19	21	19	22
HELIX/B&D TEST	TEST		20	22	26	23	24	28
VACUUM + HELIX/B&D TEST (executed in sequence)	TEST		44	46	51	50	49	56

Integrated system

Castellini offers a series of useful accessories to personalise the autoclave even after purchase without need for adapters or additional software. Each surgery can therefore tailor their sterilisation solution to specific requirements and practical needs.



Technical data	Pure 100	Pure 500
Water input	Mains water	Mains water
Water output (conductivity)	< 15 µS/cm	< 15 µS/cm
Distilled water output (inlet water conductivity approx. 350 µS/cm)	120 litres	800 litres
Min. and Max. mains water pressure	1-5 bar	1-5 bar
Min. and Max. mains water temperature	+5°C to +40°C	+5°C to +40°C
Dimensions L x H x D	366 x 365 x 143 mm	461 x 328 x 206 mm
Weight	3.5 kg	5.5 kg



Accessories

Pure 500

The Pure 500 system provides an effective response to the needs of surgeries that carry out several daily sterilisation cycles. As the mains water passes through the osmotic membrane it eliminates organic and inorganic substances, producing a water with characteristics ideal for sterilisation.

Pure 100

The Pure 100 resin purifier consists of two ionic exchange resin cartridges. Pure 100 eliminates the ions that contaminate the mains water and produces high quality demineralised water.

External printer

Processes labels or thermal paper to record full cycle data. This printer can be connected to all Castellini sterilisers via an RS232 serial port.

External bar code printer

Self-adhesive bar code labels are printed to ensure permanent traceability of sterilisation cycle data. This printer is available with the C-17 PLUS, C-22 PLUS and C-28 PLUS sterilisers.

Wi-Fi module

Optional for real-time wireless transmission of data during sterilisation cycles to tablet, PC or smartphone, it also enables data transfer for completed cycles.

Front filling kit

If filling from above is a problem, this kit allows for frontal filling via a quick coupling device.

Automatic filling kit

This kit, including an external pump and connecting tube, draws demineralised water from a tank or recipient.

Stillo

High-quality automatic water distiller complete with 4-litre container. Time required to produce 4 litres: 6 hours.

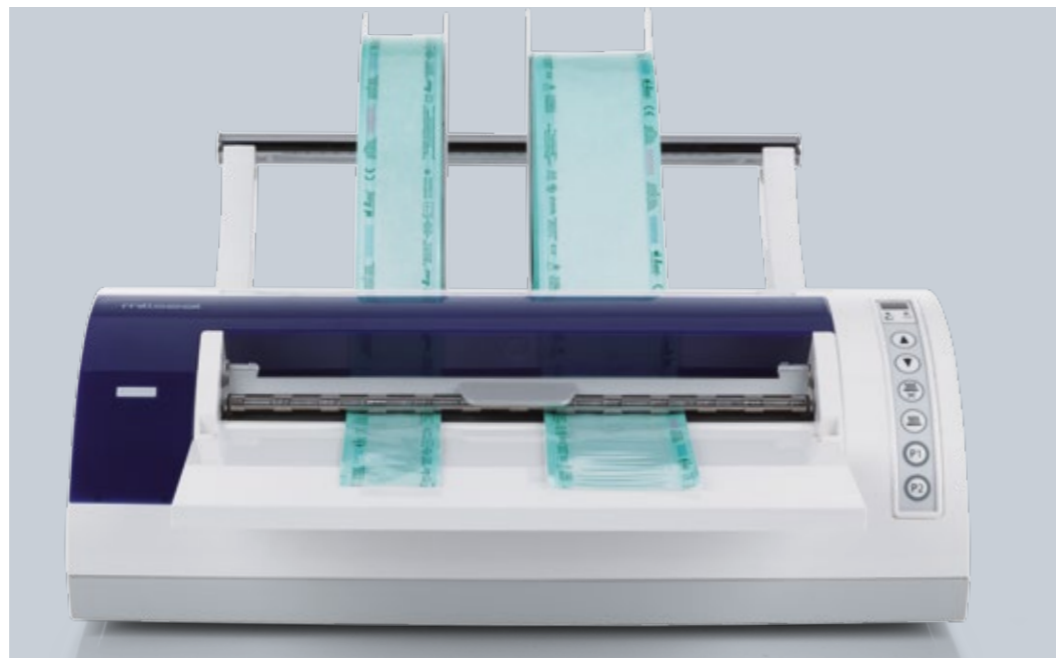
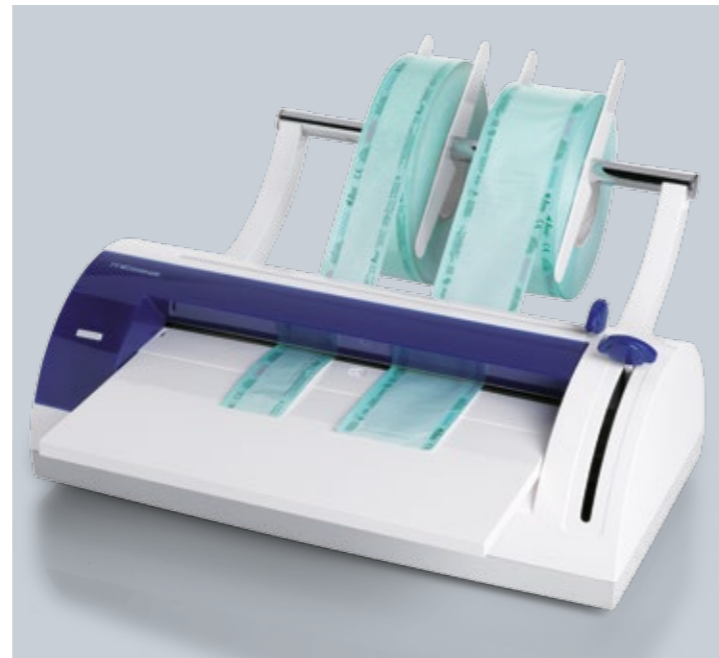
Accessories	C-17 PLUS C-22 PLUS C-28 PLUS	C-17 C-22 C-28
Pure 100	o	o
Pure 500	o	o
Automatic filling kit	o	o
Front filling kit	o	o
External printer	o	o
External bar code printer	o	-
Wi-Fi module	o	-

o = optional

- = unavailable

Lightening the workload

Castellini thermal sealers offer a convenient, reliable solution for all dental surgeries. The Millseal+ Manual and Millseal+ Evo models, which feature an incorporated cutter, are practical and ergonomic. More specifically, the Millseal+ Evo version features user-friendly automatic control to manage the cut and first seal of large numbers of bags. The Millseal Rolling thermal sealer completes the range: equipped with an automatic feed system, this unit is perfect for speeding up sealing tasks and ensuring substantial time savings for personnel in the sterilisation room.



Millseal+ Evo automatic thermal sealer

The display shows the length and number of bags. Two-way roller slide system. Cut and first bag seal key. Definitive bag seal key. Programme keys allow 2 different bag lengths to be saved and sealing/cutting tasks to be executed automatically.

Millseal+ Manual thermal sealer

Bag length is selected manually, as is the bag cut. To close the bag containing the material ready for sterilisation just press on the sealing lever until the "sealing complete" beep sounds. A positioning systems holds the paper in place to prevent rewinding of the roll after cutting and sealing.



Millseal Rolling thermal sealer

Roller-type thermal sealer with automatic feed system. Offering medical-standard quality, this unit is ideal for speeding up and optimising sealing of pre-cut bags sealed on 3 sides. A 15 mm sealing band ensures long-lasting sterility of bagged instruments. Temperature and pressure adjustment provides effective control over the sealing process, ensuring consistently first-rate performance. The large display allows the user to view and set working parameters simply and intuitively. Product practicality is enhanced even further by the availability of several accessories (roller, top, guillotine).



Technical data	Millseal+ Evo	Millseal+ Manual	Millseal Rolling
Power supply voltage	220/240 Vac	220/240 Vac	220/240 Vac
Mains frequency	50/60 Hz	50/60 Hz	50/60 Hz
Rated power	150 W - 0.45 A	150 W - 0.45 A	600 W
External dimensions (w/o roll)	474 x 374 x 200 mm (LxDxH)	474 x 374 x 200 mm (LxDxH)	512 x 236 x 145 mm (LxDxH)
Weight	6.5 kg	5 kg	10 kg
Type of sealing	Continuous cycle, constant temperature	Continuous cycle, constant temperature	Continuous cycle, constant temperature
Rated working temperature of heating element	180 °C	180 °C	140-190 °C
Sealing band height	12 mm	12 mm	15 mm
Maximum sealing band width	300 mm	300 mm	10 m/min
Materials that can be sealed	Paper/polypropylene laminates	Paper/polypropylene laminates	Paper/polypropylene laminates
Maximum roll diameter	200 mm	200 mm	

All Castellini sealers conform to the applicable standards:

• Application of CE 2006/42, CE 2006/95, 2004/108 Directives. • Reference standards EN61010-1:2001, EN61326-1:2006