



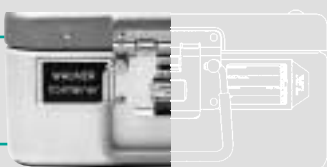
Safety Award



Honored as "Exemplary product for the Safety in Medicine"(*) in the "Golden SMM '98 competition".

(*) Note: SMM = German Society for Safe Materials in Medicine e.V. – a non profit organization.

Steriset Container System





The Steriset Container System

is a modern, light, aluminium sterile container system designed for (pulsing vac) steam-sterilization, storage, transport and sterile presentation of surgical instruments and linens.

50 years of market experience and the fact, that WAGNER has always remained open to new ideas and requirements which come from the hospital field, helped to create technical solutions which make Steriset a top quality system. Patent protected design characteristics address economical as well as ecological aspects of sterile supply - without ever forgetting the most important requirement: safety.

SteriSet Containers are available in a conventional filter type or their patented valve type. Both types allow effective (pulsing vac) steam sterilization and maintenance of sterility. The difference is in handling and costs per use: Valve containers introduce a totally reusable stainless steel biobarrier concept. Because they do not use disposable filters, there are no labor expenditures on the filter-exchange nor costs for disposables (no waste...)

Quality is when the product meets what we promise.

We put great effort into designing Steriset according to the rules of "passive safety": less or easier handling to reduce the potential for "human error" and increased protection against "unexpected" environmental challenge.

We are proud to report that this design was finally honored as

"Exemplary product for the Safety in Medicine" in the Golden SMM(*) '98 competition.

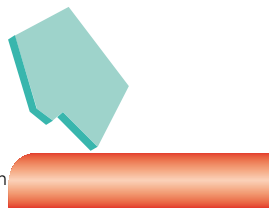


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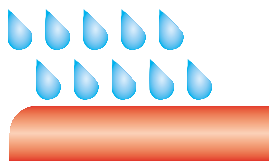
The "Protective lid" design

Besides the requirement to permit the effective sterilization of the packaged devices, a sterile packaging system shall also provide suitable protection to avoid the ingress of microorganism, therefore maintain sterility, once it is reached, until the point of use. This protection is mainly effected by the quality of the bio-barriers (filters or valves), but also by the package design itself. A standard barrier is good if it performs well under "normal conditions"; but what if it is challenged during sterilization, handling or storage by environmental conditions which might hamper the barrier properties and such sterility?

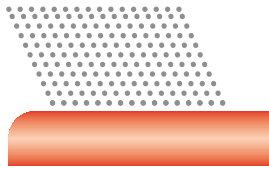
protection against mechanical perforation of the barriers



protection against direct contact of humidity or droplets



protection against dust sedimentation on the barriers during storage and handling



Steriset Containers do therefore introduce the "protective lid design", where a solid outer lid (without perforations) protects the real bio-barriers against harmful influence during transportation and handling procedures. This is in direct contrast to perforated filter holders of other companies or to soft disposable wraps...

The "protective" design principle has no negative influence on sterilization performance. During a steam sterilization cycle (differences of pressure), the exchange of steam and air is effected by the gap between the outer lid and bottom (see fig.)

The S-Model

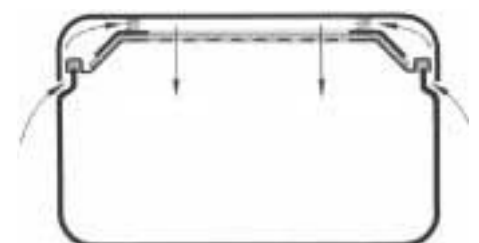
There can be no doubt that the external surface contamination of stored sterile packs will gradually increase over time as a result of exposure during storage. This external contamination represents a significant risk during opening and sterile presentation of the contents. Tearing open a pack or handling the lid of the sterilization container may spread particles from the contaminated surface into the air of the room (= generation of airborne contamination). These particles may then contaminate the now unprotected contents of the container.

SteriSets "normal" model, unlike perforated filter containers of other companies or soft disposable wraps, allow for wet disinfecting (for example, with alcohol) of the lid and side surfaces prior to, or at the time of opening – without any adverse effect on the barrier. This will prevent the generation of airborne particles, thus allowing risk free presentation of the sterile contents.

The "S" model is now designed in a way that these optimal presentation conditions are automatically achieved during opening. Instead of directly exposing the contents when the lid is removed, the S-model allows opening in two steps: the first step is removal of the outer protective lid. This will still leave the container sealed by the inner lid, which is itself still sealed to the base unit by means of additional closures that are exposed only after the outer lid is removed.



The second step is removal of this clean inner lid (which was protected against sedimentation throughout storage) only once the container is inside the operating room and without the risk of generation of airborne particles



The ThermoLoc closure

Without any doubt, sterility is broken when a sterile (sterilized) container is opened. This may turn out to become a risk if already opened containers could be merged with still sterile containers.

The "state of the art", especially the new European "Medical Device Directive" (enforced since Jan 1995) does therefore require means to avoid "unrecognized opening" or means to indicate the first opening.

SteriSet containers with standard closure may therefore be sealed by use of disposable plastic tamper seals which are applied manually before sterilization and destroyed manually when opening the container.

SteriSet containers with ThermoLoc closure offer a smarter solution for the sealing requirement: instead of using a manually applied disposable seal which needs to be destroyed in order to access the container, ThermoLoc offers the reusable, temperature activated, automatic sealing of the closure latches: no labor expenditures and no disposable parts!



Containers with the ThermoLoc seal have a red bar that slides down automatically as a result of the heat generated during the sterilization process. The lid latches are blocked against unlatching until someone manually pushes it back up.

To unseal after cool down, the ThermoLoc is pushed vertically upwards until the marking has disappeared. This automatically "reloads" the ThermoLoc for the next cycle and allows the lid to be unlatched for access to the contents.

ThermoLoc allows easy recognition of the first opening after cool down after a sterilization cycle - without consuming any disposables! No costs. No waste.

ThermoLoc
in sealed...



... and unsealed condition



SteriSet



The condensate drain

Standard SteriSet containers have a unperforated, seamless punched bottom.

Experience shows that with increasing load weight, the risk of remaining humidity after sterilization will increase. In cases where the load weight exceeds 10 KG, or where we find unfavorable sterilization conditions (old sterilizer, poor vacuum, wet steam ..), the optional "condensate drain type" can solve the problem.



A "drain" is a thermally activated valve, fitted on the deepest point of the container bottom. It opens when exposed to 130 C / 265 F during a sterilization

cycle and allows the removal of heavy condensation in liquid form from the container. The drain seals back when the cycle undergoes 110 C / 230 F in the drying vacuum phase, so that at the program end, before the door opens, the container is already sealed.



Kondensatablauf geschlossen (Funktionsschema)



Kondensatablauf geöffnet (Funktionsschema)

This option supports and increases the drying performance during instrument sterilization even under unfavourable conditions or in case of heavy loads.

Another patented solution from Wagner...



Our program

The wide range of SteriSet options allows individual users to define their optimal system by selecting from the different options available: half length, 3/4-length and full length types in 5 different heights, filters or valves as biobarrier, closure to be sealed by disposable locks or automatic ThemoLoc, seamless punched, unperforated bottoms or condensate drain types, color coded lids and/or handles...

To complete the container line, we offer in addition the SteriSet Small Set program (same design but no handles and different closure) and a full range of accessories. We have all you need to organize sterile supply; from disposables, inner perforated or wire mesh type trays and dividers to carts, trolleys and storage shelves.

Please let us know which catalogs you need on our specific product lines.



Steriset half-length filter container,
296 x 275 mm
(L x W)



Steriset 3/4-length valve container with drain, 456 x 280 mm (L x W)



Steriset full-length valve container, 596 x 275 mm (L x W)



Steriset Small Set containers, size range
285 x 135 x 60 mm (L x W x H) to
585 x 270 x 120 mm (L x W x H)



Accessories:
wire mesh trays (baskets), dividers...



Accessories:
container transportation trolley

The company

WAGNER GmbH is a family-owned German company founded 50 years ago, which has for the last 35 years specialized in reusable sterilization containers and accessories.

Our philosophy "finest quality in production, innovation in design and close cooperation with local distribution partners" makes us one of the leading suppliers of sterilization containers in the world. We offer a technically superior, high quality sterilization container system with many unique, patent protected and design awarded characteristics.

SteriSet containers meet the requirements of the European Medical Device Directive (CE mark) and of the relevant DIN (German) resp. EN (European) standards. They may legally be distributed in Europe, the US, Japan, Near and Far East and many other markets which require specific market release documents (like i.e. Russia's GHOST certificate...).

The product is "Made in Germany" by experienced, skilled craftsmen, with all activities being based on a formal, third party certified (TÜV) quality management system acc. DIN EN ISO 9002/46002.



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