

BOTTLE STERILIZER



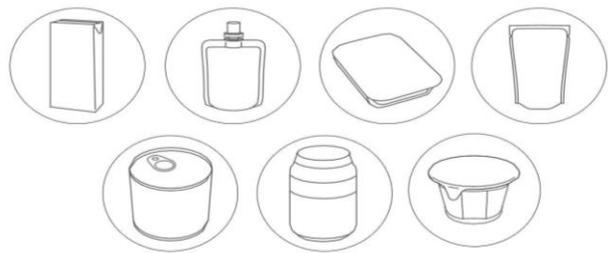
BOTTLE STERILIZER

- Bottle Sterilizer of 600 / 1200 / 1800 / 2400 / 3000 Bottles
- Made out of SS 304 / SS 316
- Pressurised hot water system
- State of construction
- World renowned instrument and controls
- PLC with proper logic systems



FEATURES

- ❖ Sterilization and cooling of shelf stable foods
- ❖ Pasteurization and chilling of refrigerated foods
- ❖ Steam and water spray technology
- ❖ Static, oscillating or rotary models
- ❖ Universal for all kind of containers



Steam and water spray technology is proven to be an energy efficient and effective process system to pasteurize or sterilize food products in all kind of cans, bowls, pouches or trays made of metal, glass, foil, plastic film or paperboard materials

TECHNOLOGY

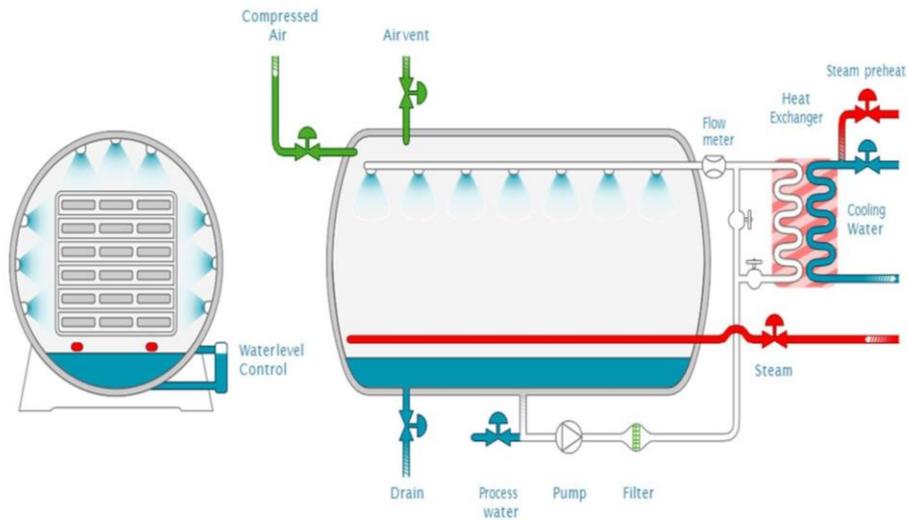


The system combines the steam-air mixture with superheated water spray, which is circulated at high speed by a pump through multiple spreaders over the top and at each side of the packages

The sprays mix the steam and the air and create a turbulent highly convective atmosphere
In the chamber

When the sterilization phase is finished, the water is re-circulated via a heat exchanger where external cold water will bring down the temperature of the retort water and the packages in very efficient and homogeneous way

PROCESS DIAGRAM



HIGHLIGHTS

THE HIGHLIGHTS OF THE STEAM AND WATER SPRAY TECHNOLOGY

Direct steam injection in combination with superheated top and side water spray ensures good heat distribution and safe process repeatability with minimum cleaning

Retort pressure is controlled by air injection and venting with high accuracy within the recipe settings to ensure perfect container integrity.

Water spray provides fast and even cooling . the water may come from a cooling tower or water chiller and it may be reclaimed for reuse.

The amount of water in the vessel is small and is re- circulated by a pump via a filter before reaching the spray muzzle. The flow is controlled by means of flow meter and the level via level control instrument. The process water may remain in the vessel for consecutive cycle

HIGH CLASS CONTROL

- ❖ PLC and HMI panel.
- ❖ Water re-circulation control by flow meter.
- ❖ All control instruments are selected from top brands.
- ❖ High accuracy and safety temperature transmitter are used.
- ❖ Steam flow control reputed make PID control valves



OPERATIONAL SAFETY

The equipment is also designed to meet all pressure vessel and machine safety regulations.



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Engineers

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