

Design & construction of CSSD.

This standard guides CSSD design, workflow, and certain environmental controls requirements such as air changes, ventilation, and air conditioning [HVAC] parameters to facilitate effective and efficient processing, minimize environmental contamination and maintain processed items' sterility.

The central sterilization service design should support its function meeting the following requirements:

1. CSSD consisted of THREE physically separated zones (see Figure 1), Decontamination zone, Packaging and Sterilization Zone and Sterile store with the unidirectional flow of the traffic from decontamination zone to sterile store, traffic control signage's in place.
2. The decontamination zone is under negative pressure with a minimum of 12 air exchanges/hour with exhaust to the outside, temperature between 16°C-23°C. The clean zone is under positive pressure with a minimum of 10 air exchanges/hour with temperature 20°C- 23°C, and the sterile store has 4 air exchanges per hour.
3. CSSD is restricted to the authorized personnel with restriction signage's in place.
4. CSSD must be provided with a dedicated room with a shower, toilet facility, and staff lockers.
5. CSSD must be provided with a designated area for donning Personnel Protective Equipment before entering the CSSD.
6. CSSD must be provided with a store for CSSD equipment and supplies



Traffic Control & Workflow

- CSSD should be away from the main traffic pattern and restricted to the authorized personnel identified ONLY based on the facility's policies and procedures.
- Visitors must be accompanied by authorized personnel during their professional visit to the CSSD restricted areas (e.g., decontamination, preparation, packaging, sterile processing, and



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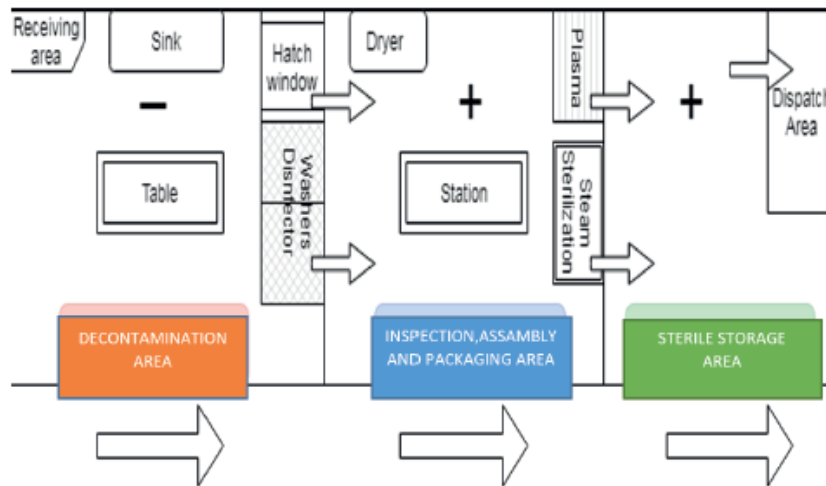
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sterile storage).

- Healthcare workers in these areas should wear medical attire (scrubs) and dedicated shoes, and their head and facial hair (except eyebrows and eyelashes) should be covered.
- Areas, including locker rooms, break rooms, meeting rooms, offices, and sterilizer service access rooms may be limited based on the facility's policies and procedures.
- CSSD areas must be physically separated at least two zones to prevent cross-contamination.
- This arrangement reduces the risk of cross contamination of areas and the items being sterilized, which both improves safety and increases the efficiency of sterile processing operations. In hospitals, the decontamination, packaging, sterilization, and sterile storage area/rooms should be physically separate to eliminate environmental contamination.



AREAS	TEMPERATURE	PRESSURE	EXCHANGES/HOUR	HUMIDITY
Decontamination Area	°16C - °18C	Negative	A Minimum 10 Air Exchanges/Hour	30%-60%
Inspection, Assembly, & Packaging (IAP) Area	°20C – 23 °C	Positive	A Minimum 10 Air Exchanges/Hour	30%-60%
Sterile Storage	°20C – 23 °C	Positive	A Minimum 4 Air Exchanges/Hour	30%-60%



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