CSSD

HP MEDIZINTECHNIK

MOBILE REPROCESSING UNITS FOR MEDICAL DEVICES

CSSD as modular system
CSSD as interim solutions for hospitals



CSSD

CSSD as modular system

HP Medizintechnik GmbH offers standard-compliant, flexible, and mobile reprocessing units for medical devices (CSSD) in tent and container structures. These units are designed specifically for use by the military, non-governmental organizations (NGOs), or as interim solutions for hospitals.

Our mobile CSSD units are exclusively equipped with an internal processing system for demineralized water. They require only a drinking water supply and a wastewater drain.

- The systems are designed to minimize resource usage.
- They have very low water and electricity consumption.
- They are suitable for operation in various climate zones.





50 years of expertise in sterilization technology

The mobile CSSD units ensure a very rapid response time. On-site requirements include:

- 1 week for setup, integration, installation, and approval
- 1 week for commissioning, disinfection, cleaning and validation

Mobile CSSD units delivered to the German Armed Forces have been deployed under partially extreme conditions in Afghanistan (Kabul and Kunduz), Kosovo (Prizren), and Mali.





In the CSSD units, a reproducible and validated cleaning, disinfection, and sterilization process is implemented.

A cleaning and disinfection area (contaminated area), a packing and sterilization area (clean area), and a personnel entry/exit zone are appropriately utilized.

A comprehensive validation concept for temporary mobile use ensures consistently high quality at any time and location.

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The well-designed, air-conditioned mobile CSSD, housed in a climate-controlled container, is dust-protected, heat-insulated and equipped for both cold, and warm climate zones.



Maximum safety with exceptional mobility

The systems are highly flexible, quick to set up, resource-optimized, and can operate autonomously. Specially adapted packaging concepts have proven effective in both cold and warm climates.

They enable transportation of the systems by land, sea and air. A container that can dock to the packing and sterilization area is equipped with stainless steel cabinets for the long-term storage of sterile goods.



Additionally, the systems are designed with structural measures to withstand extreme environmental conditions, such as frost protection during air transport, as well as durability during storage and operation.



The modules provide ample work surfaces and high-quality equipment, including cleaning and disinfection devices, self-sufficient steam sterilizers, and systems for producing partially demineralized and fully demineralized water.

Short, intersection-free pathways support and ensure an optimal workflow, facilitating efficient tasks and minimizing strain on operating personnel.



Access to the „cleaning and disinfection area“ and „packing and sterilization area“ is provided through a personnel entry/exit zone.



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CSSD as an interim solution

HP Medizintechnik GmbH also offers these units as interim CSSD solutions on a rental basis.

Hospital and clinic operators whose sterile reprocessing departments are temporarily unavailable can combine the modular components, either in mobile containers or fixed building structures, to create a stationary CSSD.

The modules are ideally suited for temporarily established hospital areas or larger field hospitals, allowing multiple operating rooms to be supplied with sterile goods simultaneously.



PROFESSIONAL WORKPLACE IN CHALLENGING ENVIRONMENTS



A mobile CSSD as an on-site interim solution offers numerous advantages:

- No need for additional instruments to be provided
- Existing quality management can be continued with minimal adaptations
- Short pathways without significantly increased hygiene or organizational effort
- No need for additional rooms within the hospital
- No additional structural foundation required for setup
- Minimal construction planning required

Reliable reprocessing of medical devices and a powerful, effective supply of sterile goods are essential for a seamless medical operation.

Current hospital staff, including technicians and users, receive appropriate training and can seamlessly continue their work in the mobile CSSD.

A specialized training team from HP Medizintechnik GmbH provides targeted instruction on using the CSSD. The modules can be integrated into the hospital's existing process documentation and communication systems.

German Federal Institute for Drugs and Medical Devices

The recommendations of the Commission for Hospital Hygiene and Infection Prevention at the Robert Koch Institute (RKI) and the Federal Institute for Drugs and Medical Devices (BfArM) on the „Hygiene Requirements for the Reprocessing of Medical Devices" are strictly followed.



MOBILE REROCESSING UNIT FOR MEDICAL DEVICES AS MODULAR SYSTEM

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All tables, cabinets, and work surfaces in each area are made of stainless steel. This allows for the highest standards of hygiene, ensuring impeccably hygienic final processing and sealing.

State-of-the-art reprocessing systems, up to four powerful and flexible sterilization devices, and innovative procedural techniques enable a high throughput in a professional workspace.

Additionally, to expand capacity, an extra 2x4 StU sterilization container can be docked as needed.

STAINLESS STEEL IN ALL WORK AREAS

All necessary utilities and requirements for the standard-compliant operation of the CSSD are provided autonomously on-site:

- Demineralized water
- Medical compressed air
- Sterile steam
- Climate control, etc.

Only fresh water, electricity, a wastewater connection, and, if needed, a data line (for connecting process documentation to the facility's server) are required.

The entire equipment is packed into three specially designed ISO 20 ft. transport containers:

- Room Module Container (CSE)
- Sterilization Container 2×4 StU (CST)
- Sterile Goods Storage Container (CLS)





A container that can dock to the packing and sterilization area is equipped with stainless steel cabinets for the long-term storage of sterile goods.



Quality - Made in Germany

CSSD-LSE

LSE – for quick, highly mobile deployment

Mobile CSSD as tent system

The highly compact tent solution can be deployed in challenging areas and perfectly adapted to the location.

These systems, due to their high flexibility and mobility, are ideal for military users, as well as for civilian disaster response and temporary medical centers.



- The modular components can be assembled and dismantled quickly
- Rapid operational readiness of the equipment is ensured even in areas with limited infrastructure.
- The packaging concept allows for setup in “two phases,” meaning that, if necessary, a reprocessing operation can begin quickly with half capacity.



The operating resources required for the equipment, such as demineralized water, pure steam, cooling water, and climate control, are generated within the tent. Data recording is managed through a process documentation system.

All equipment is securely packed in 16 climate-protected aluminum transport cases.

Total weight (max.):	2,950 kg
Setup dimensions (min.):	5.6 m x 8.5 m
Usable area:	42 m²



VARIOKLAV®

EXCELLENCE IN AUTOCLAVES



Mobile Reprocessing of Medical Devices in Crisis Areas

HP MEDIZINTECHNIK

These tent systems can be equipped with up to two powerful pass-through washer-disinfectors and up to three sterilizers (1 StU). Cooling water for sterilizer operation is not required.

Ample stainless steel work surfaces are provided for cleaning, maintenance, and packaging of instruments.

In the configuration with two sterilizers, the system's weight remains below 2,950 kg.







The equipment and supplies for the CSSD are packed in 16 cases. These cases are stackable, suitable for air transport, and can be secured for rough road transportation.

Interior tent dimensions (L x W): 8.3 x 5.0 m



VARIOKLAV® Steam sterilizers for mobile use



These units can be installed in mobile settings such as hospitals or medical support services, including containers, tents, ships, and vehicles, to quickly provide sterile and medical products for healthcare needs.

- Compact design, lightweight, and large usable capacity
- Low requirements for utilities, allowing easy setup and rapid commissioning
- Optional water supply from built-in reservoir or direct feed of demineralized water (65 TC)
- Minimal water consumption: tank supply is sufficient for multiple cycles
- Suitable for operation in both low and high ambient temperatures and high humidity conditions

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HP Medizintechnik GmbH

HP Medizintechnik GmbH develops, manufactures, and distributes equipment for laboratory, analytical, and medical applications.

With over 50 years of expertise in producing laboratory equipment and medical devices, the company has an optimized development and manufacturing structure tailored for medical products.

Additionally, HP Medizintechnik GmbH has successfully completed numerous system integrations for the German Armed Forces in the area of “Mobile Reprocessing Units for Medical Devices (CSSD).”








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