



Vita

Sterilisation Room Solution

Solution created for specific needs of sterilisation department

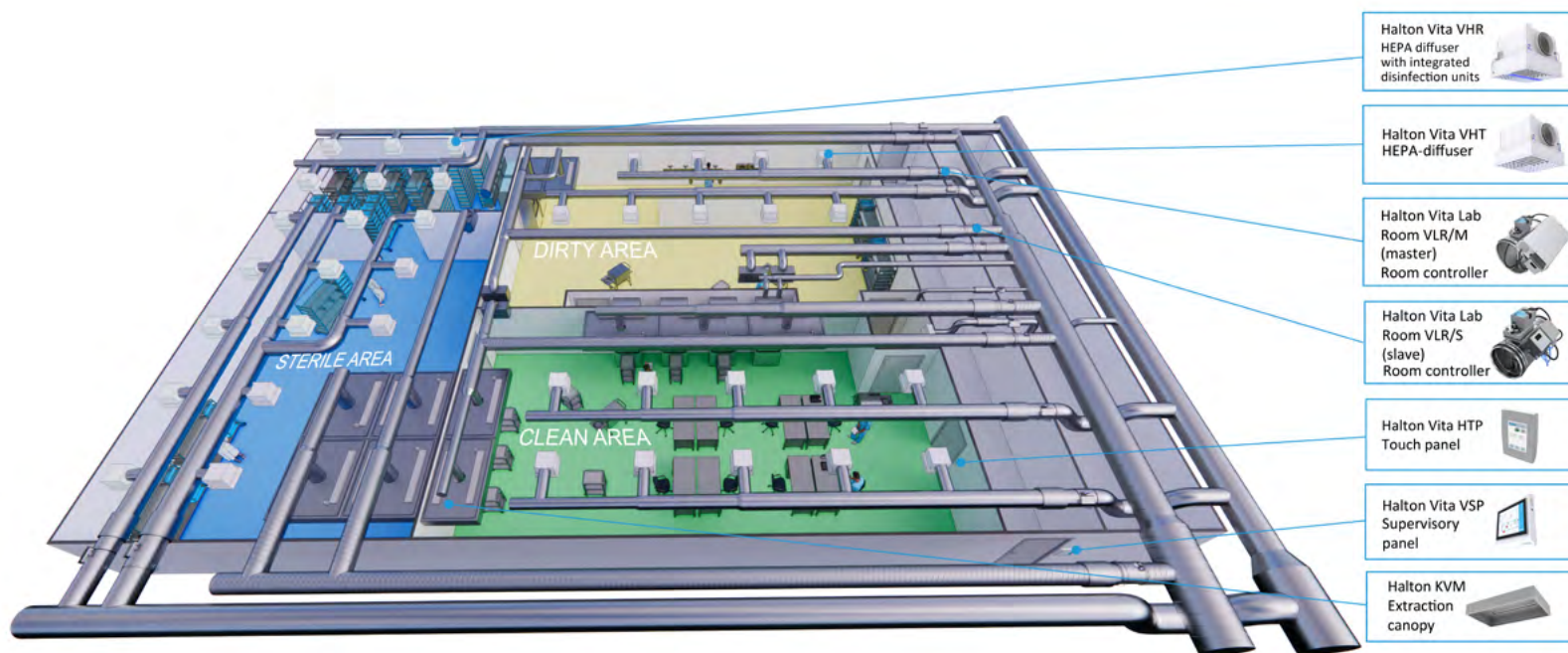


The Halton Vita Steri is a solution dedicated specifically to sterilisation departments. The solution provides pressure control between clean and unclean areas, protecting the medical equipment sterilisation process. Reliable controllers and sensors ensure the correct pressure cascade to prevent recontamination.

The sterilisation room plays a crucial role in the organisation of a hospital, both in terms of the safety of professionals and patients and for the work of personnel. The main goal of central sterilisation is the decontamination of medical instruments to protect patients from infection while minimising risk to personnel and preserving the value of reprocessed items. The sterilisation room significantly prevents surgical site infection (SSI) in a hospital.

The main challenge of sterilisation department spaces is effectively separating the contaminated and clean areas while ensuring a perfect workflow for proper instrument decontamination and protection from recontamination. The clean, dirty, and sterile areas are next to each other, making contamination possible. This layout, however, requires very specific and controlled conditions to ensure a safe and efficient process – ventilation system with HEPA diffusers, pressure control are the key to securing the process. Additionally, the autoclaves and washing machines produce a lot of steam and heat, so the ventilation system should be able to control and take care of humidity and heat loads.

Reliable and hygienic components to take care of the cleanliness, temperature and room pressure

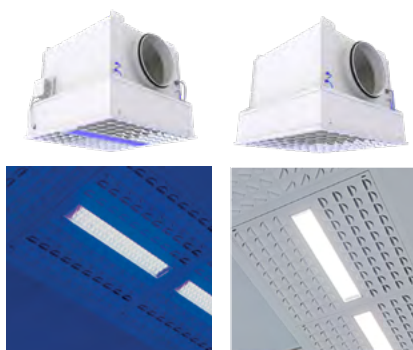


Halton delivery includes:

- Design support of the system
- HEPA -diffusers
- Extraction canopy
- Room panel
- Supervisory panel
- Room pressure control
- Airflow control
- Pressure sensor
- Commissioning

Halton can help you design, install and validate the ventilation system in the sterilisation department in your hospital to suit the best needs of each project. Starting from the designing phase, Halton provides the optimal system design and the correct type and number of components that fit the size and volume of the rooms. The design provides the correct pressure cascade while at the same time creating an optimal working environment in the sterilisation department.

While designing the solution Halton can create a CFD simulation that takes into account the heat load and needs of the amount of supply air. Knowing the plan of the working space, Halton can adjust the airflow pattern to create draft-free and comfortable working conditions for the personnel. Components are designed and produced in the Halton factory which guarantees the compatibility and high quality of the products.



VHR

VHT

Reliable and hygienic diffusers with HEPA filters in clean and sterile areas ensure a high level of cleanliness of supply air. Thanks to adjustable nozzles, Halton can adjust the airflow pattern to the conditions and layout of each room.

Halton Vita HEPA diffusers are covered in antibacterial paint and are easy to clean, validate and maintain. The version of the solution featuring the blue light (VHR) in the diffusers can disinfect the spaces during non-working hours.



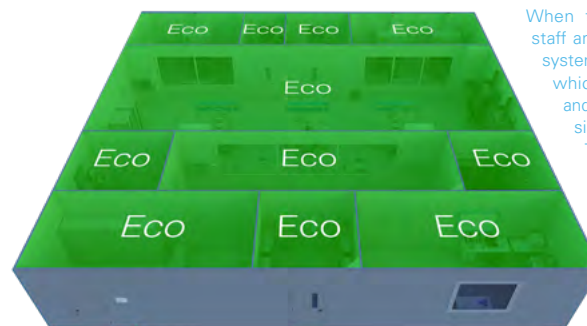
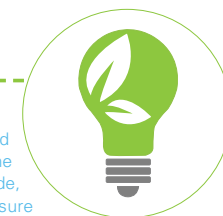
To take care of local humidity and heat loads in the space Halton Vita Steri solution includes the extraction canopy manufactured according to USPHS guidelines to capture and remove steam and heat produced in an autoclave and washing machine.

User friendly touch panels and monitoring system



The user-friendly touch panels allow users to monitor and control the conditions easily. The supervisory panel gives an overview of the conditions of each room.

Information can be reviewed remotely from Halton Connect, a cloud-based system that allows 24/7 access to Halton's solutions. This increases level of security and allows to react to possible environmental challenges. The Halton Vita Steri system can be linked to the Building Management System (BMS).



When the work is done and staff are leaving the space, the system switches to Eco mode, which maintains the pressure and environmental conditions while simultaneously saving energy.

The air flow goes to ECO mode but the pressure control continues controlling as set. The normal mode can be controlled using time control, occupancy sensor or occupancy button.

The ECO mode (the general airflow rate set to 30% of the basic value, for example) can also be activated by using a motion detector when, after a predefined delay time, the sensor has not detected movement in the room.

A lifetime journey with Halton

Halton ensures the best outcome from early design to validation and support throughout the building lifecycle.



Halton helps you find the optimal solution for extracting medical gases and surgical smoke at the design phase and verifies excellent system performance at the handover. Our services offer a proactive and user-centric tool for managing the safety and comfort of your indoor environment.



Halton design support

- Co-designing with the customer: defining the requirements and performance targets, matching the targets to an optimal solution.



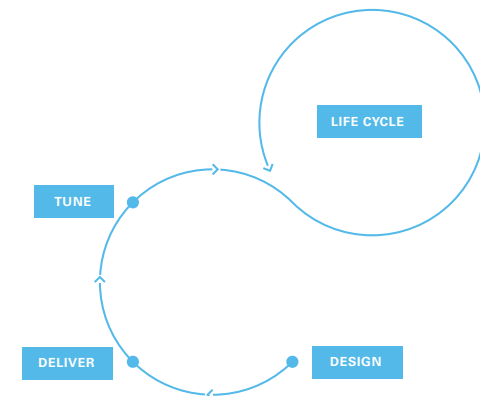
Halton tune

- Halton Vita solutions always include on-site commissioning to ensure the safety and functionality of the solutions.
- Verifying and adjusting the optimal performance of systems.
- Service personnel and end user training.



Halton life cycle

- Halton offers a maintenance agreement for installed systems. As part of this service, the Halton service team tests all the critical components and the system operation to ensure continuous functionality of the solution.





Vita

Wherever air quality is critical, we take care of every breath you take.

Your partner in indoor air quality

Halton is your lifetime partner from the design of the systems, through the construction process to annual maintenance. Our services cover your project from end to end, ensuring the best solution for all your needs.

- Project design and support
- Pre-validation with mock-up or CFD modelling
- Commissioning and performance validation
- Annual maintenance
- Halton HIT Design tool and solution documentation

Halton is a key supplier for all indoor air solutions in the ultra-modern Nya Karolinska Solna University Hospital in Sweden – the world's largest PPP hospital with LEED Gold certification. Illustration: White Tengbom Team.

Halton Vita Solutions

Demanding spaces

- Operating rooms
- Laboratories
- Patient environments
- Isolation rooms
- Cleanrooms

Specialised needs

- Outdoor air intake hygiene
- Fire and smoke safety
- Air diffusion and thermal comfort
- Solutions for hospital kitchens

Halton Vita solutions are designed for

- Maximum safety, reliability and comfort for professionals and patients
- Easy and intuitive system use and monitoring with smart controls and interfaces
- Optimised energy efficiency with demand-based system operation

Halton



Halton Vita values

Putting people first

Halton Vita solutions are made for people who depend on them. From laboratory and pharmaceutical professionals to doctors, nurses and their patients, our first responsibility is the safety, comfort and wellbeing of these people and their environment.

Passion for better solutions

We are driven by our customers' needs, and demanding spaces demand better solutions. Halton Vita solutions are designed, produced and delivered to the highest standards of safety, quality and efficiency.

Solving each challenge together

Delivering the best solutions for demanding spaces requires great flexibility, a commitment to continuous development, and close cooperation with our customers. Together, we can ensure that every Halton Vita solution meets the unique demands of your project and the people it serves.

www.halton.com