

# Technical Specification



Product:	<b>SprayCon CS© 5000-3 Closed Whole Body Fixation &amp; Conservation System</b>
Cat.-No.:	<b>MA-5000-3</b>

## SprayCon CS© 5000-3 Closed Whole Body Fixation & Conservation System

Used for the fixation & conservation of whole bodies in anatomy for teaching purposes (closed system).

Typ: 5000-3

### Concept and Features

Note: each module works autonomous and maybe programmed individually. The modular system allows to fit the modules together into a total plant for an unlimited number of corpses. For a volume of 48 bodies one needs to install 16 modules, which may be installed in different rooms, if necessary. A special advantage is the usage of different fixation / conservation fluids (for example "Thiel"-solution) and different concentrations of formalin.

Solid and self-carrying construction with an automatic electronical control function. One-men-operation. Especially developed for the guaranteed pollution-free fixation & conservation of whole bodies without "dipping" the body into a solution.

The conservation of corpses with formalin or any other fixation-fluid is done by means of a special aerosol-spray-system in a gastight environment which is loaded with corpses on body-trays.

### The Process Steps

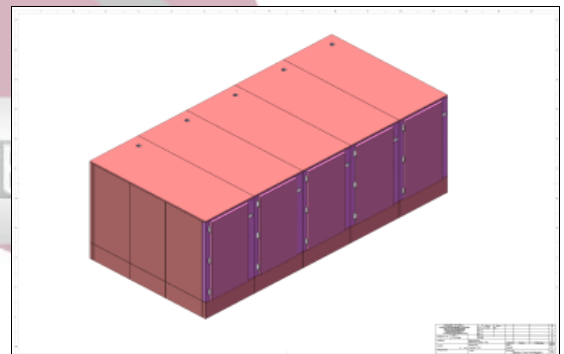
#### Description

The process chamber, similar to a process-chamber of a closed system Tissue Processor like the V.I.P. or Hyper Centre, is fully closed and has a drain port in the bottom of the chamber which takes up the condensated aerosol particles and a pump-system sprays this medium again into the chamber onto the bodies. Before this spray-cycle the medium is filtered. The spray-/ aerosol-cycle is programmed to be alternating. This guarantees a nice and effective aerosol atmosphere inside the process-chamber at all times. A timer is responsible for the alternating function. Before the bodies are unloaded for dissecting procedures by students etc., the bodies are sprayed with fresh tap water for at least 2 hours and therefore released from formalin.

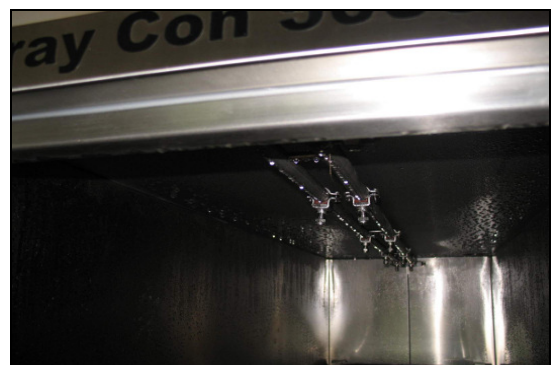
This means that the bodies will not smell or have a formalin evaporation when placed onto the dissecting tables. Below the process chamber a special unit with all controls is present and the following components have been installed for easy access:



MA-5000 SprayCon© CS Module in operation. Totally closed system.



5 SprayCon Modules for storage of 25 conserved bodies



Spray nozzles

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Certified manufacturer of stainless steel products and instrument systems for anatomy, legal medicine, pathology, toxicology, food testing, bio-engineering and tissue treatment

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- Stainless Steel Tank appr. 150L
- Membrane pump (outlet pressure: 2,7 bar) with volume-controller
- Filter system with pre-filter
- Valves, level switches, magnetic valves, directing valves
- Tap water spray volume: appr. 50 litres / min.
- Control panel with following warning displays: "system clogged", "collection tank empty", "collection tank full"

## Automatic Body Transfer into DryCon Unit

The embalmed body will be transferred by means of the Universal Transporter to the SprayCon unit. After the insertion the body tray is secured by a locking mechanism, the SprayCon unit is ready for operation.

Note: the transfer must be made on a MEDIS-KUGEL body tray because of it's correct placement into the DryCon process chamber



Automatic loading / unloading of the SprayCon unit

## Embalming / Perfusion

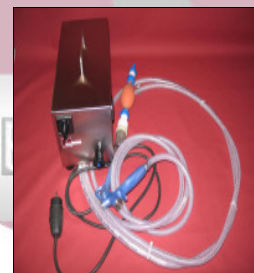
It is of great advantage to the infiltration of any corpus that the embalming is done upfront on a special, extracted embalming table with our "PerfuTek" system. This system contains a pump with an adjustable pressure, a container with conservation-solution and several needles for the injection of the conservation solution.

This operation requires to drill a 15mm whole into the forehead of the body in order to have a good throughflow of fluid. Without this "PerfuTek" embalming procedure the infiltration time is much longer and less intensive having a possible negative impact on the quality of even infiltration.

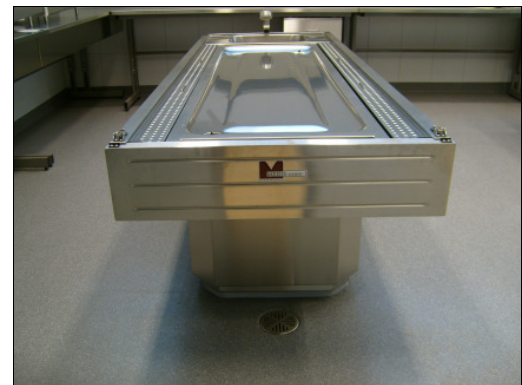
The extracted embalming table MA-1005 is necessary for the odourless embalming of the body.

After the embalming / perfusion is complete the body can be transferred without touching it to the SprayCon unit for infiltration.

For information and download of "PerfuTek" specs see website!



MA-1450 PerfuTek perfusion-system – ready for use



MA-1005 Embalming table with downdraft sidewall extraction, transfer body tray and electronic height adjustment.

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## Functions

Inside the process chamber the following components are located:

- Detachable pipe system incl. spray nozzles (position next to corpuses with a certain spray angle).
- Spray angle of jet: 120° / Outlet pressure: 2,7 bar
- Body tray support for 3 body trays
- 3 body trays with positive (convex) embossment, 8 wheels and handle on both ends.

## Technical Specifications

Outside of the module the following components are located:

- Switch for control of the spray function
- Fan with automatic start-function when door is opened.

## Technical Data

Dim. of boy tray: 2080(L) x 620(W) x 80(T)mm  
Material: Stainless steel EN / DIN 1.4571 K 320 (AISI 316) inside and outside.  
Dim. of door: 700(B) x 1500(H)mm  
Door with gastight viton gasket  
Tank with fixation fluid: appr. 150Liters  
Loading heights measured from floor:: 510 / 1010 / 1510mm  
Total outer dimensions:: 1045(W) x 2797(D) x 1900(H)mm  
Electr. supply 400V / 16A / 3Ph / 50Hz

## Inhouse Preparations before Installation

- Waterlevel floor, waste water system, cold water supply, Electr. supply 400V / 16A / 3Ph / 50Hz
- water pressure reduction to 2bars
- water separator

Installation by our specialists. Incl. operating & service instructions.

## Country of Origin

Manufactured in Viechtach / Germany under ISO 9001 certification and according to valid EC / DIN norms and health & safety regulations of Germany.



SprayCon contro unit with display and visual and acoustic alarm. All messages in english language.

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