

Product: Preservation Tank for 2 Bodies, double wall, extracted
Cat.-No.: MA-1343.1

Body preservation cuvette (tank) with downdraft extraction for use in gross anatomy & embalming

Type: 1343.1

Description

The cuvette for the preservation of body donors (dip system) has been developed for use in the gross anatomy. The preservation media maybe freely chosen (including ethanol), because the height adjustment of the insert is electrically driven with an explosion protected switch. The system therefore meets all requirements of an explosion-proof environment. The switch UP / DOWN is of explosion-proof design.

The complex consists of a preservation tank, an insert for 2 body donors with a concluding tight lid and a central electric crane unit which is installed to the ceiling of the room. The support of the bodies may be electrically raised and lowered.

The design is ergonomic. The system can be installed on a normal floor – but also be sunk into the floor to a certain level.

The stainless steel container (t-3mm) is reinforced and completely encased in stainless steel sheet EN / DIN 1.4301. The interior volume is about 4,000 liters at 100% filling. Viability of the operation for 2 bodies is 750kg.

Other customized versions (e.g. 3 body, etc.) are available. Please let us know your requirements.

Concept and Design

The use of preservation cuvettes (tanks) with electric crane lifting mechanism is in many cases not possible due to the desired capacity and low room height. Moreover, the use of ethanol as a preservation medium is, due to safety reasons (risk of explosion), only possible with hydraulically driven preservation tanks.

The main problems with preservation cuvettes (tanks) has always been the so called „open dip system“. This system allows large volumes of hazardous fumes to enter the laboratory and the breathing zone of the users when the lid is open for the insertion or withdrawal of a cadaver.

The double wall design with an integrated downdraft extraction system allows the user to work in an odour free and non-hazardous environment. For the first time this world novum effectively reduces hazardous fumes to a minimum when handling body donors for gross anatomy studies.



MA-1343.1 Preservation cuvette installed in an embalming room with explosion-proof requirements



MA-1343.1 Preservation cuvette in a closed position. Extraction tube is lead to the ceiling

Concept and Design (cont.)

To achieve the lowest possible extended height, the cuvette can be placed in a recess (trough) with 350mm depth. The stainless steel container (t-3mm) is torsion-braced and completely covered with stainless steel lid.

The stainless steel lid having a circumferential silicon seal for complete sealing against leaking gas. The support frame for the body is attached to the lid, and is moved together with the cover up and down. The storage surfaces of the support frame are perforated in order to ensure a sufficient liquid throughput.

The body trays are provided with sufficiently large perforations so fluid retention during lifting and lowering will not occur.

The emptying of the cuvette system must be done with on-site pump. Cleaning ability of the system is only possible by removing the lid along with support frame by on-site lifting equipment. The guiding system of the frame consists of 60x40mm anti-rub plastic rods to guarantee a smooth up / down movement and to avoid jamming of the body support frame.

Delivery

- 1 x body cell with insert, body trays and lid
- 1 x crane unit
- 1 x installation and function test
- 1 x operating and maintenance instructions

Specifications

- Exterior dimensions over all: 2440(L) x 1600(W) x 3000(H) mm
- Internal volume: 4000 liters at 100% filling
- Working load total: 750kg
- Control (up / down): a pushbutton in ex-protected design
- Power supply: 3-phase AC 230/400 Volt / 16 Amp.
- Electric power: 1,1 KW in aggregate space
- Height adjustment of the cuvette insert: electrically
- Material: stainless steel EN / DIN 1.4301 double polished for all parts

Site preparations / services

- Floor surface must be absolutely flat and perpendicular filling the gap after the positioning of the cuvette with concrete (or equivalent).
- Electrical connection 3 AC 230/400Volt / 16 A / 1.1 kW

Country of Origin

Manufactured by MEDIS MT GmbH in Germany acc. to EN and German norms and the health & safety regulations of the EC and Germany!



MA-1343.1 Loading / unloading procedure of a preservation cuvette in an embalming room