

**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 the 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 anormal floor – but also sunk 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 body is 750kg.

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

### Concept and Design

The use of preservation cuvettes (tank) with electric crane lifting mechanism and thus very high housing is in many cases is often not possible due to the desired capacity and low room height. Moreover, in these preservation cuvettes (tanks), the use of ethanol as a preservation medium (risk of explosion) is possible only with at great expense.

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 odor-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.

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



MA-1343.1 Preservation cuvette in a closed position.

## 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 slabs of the body are continuously provided with sufficiently large perforations so there is no fluid retention during lifting and lowering the body tray support

The emptying of the cuvette system is done with on-site pump. Cleaning ability of the system is only possible by removal of the lid along with support-frame and on-site lifting equipment. The guidance system of the frame consists of a metal of profile 60x40mm with plastic guides to guarantee smooth up/down movement and to avoid jamming of the body support frame.

## Delivery

- 1 x full body cell with insert and lid for 2 bodies
- 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 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 in Germany by MEDIS MT to the applicable EN / DIN and VDE regulations

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