

# Product specification

**Product: Bone Fat Extraction Unit BEU-100 R2**

**Item no MA-1390**

## Bone fat extraction unit with 1000 mm Process chamber

**Typ 1390**

### Description

**For chemical-thermal degreasing of bone tissue with dichloromethane (methylene chloride) in a closed low-temperature vapor-degreasing aerosol system at 40°C. Fields of application: Anatomy and preparation. Degreasing chamber diameter: 1000mm Compact system for odorless bone degreasing. Closed system with extraction of purified exhaust gases into the atmosphere.**

### Design

- Sturdy stainless steel frame construction complete with integrated stainless steel safety trough and standing grate.
- Hermetically sealed container for approx. 20 liters of degreasing medium. With discharge and filling spout, suction system, sample basket 900 AD x 750(H)mm. Heated grease drain nozzle. Process chamber lid with integrated pyramid drip shower and Viton - press seal. Double-walled, cooled process chamber lid with fully automatic opening for easy handling during opening and closing.
- vessel with activated carbon filter and connection spigot for discharge of filtered gases to atmosphere
- integrated blower ensures gentle drying of the bone preparations at 40°C before the degreasing phase
- automatic control of the functions: Drying, degreasing, distillation, etc. by electronic control with touchscreen display. All functions also manually programmable!
- integrated steam return lock
- integrated remote maintenance module based on "VPN tunnel"

### Components

a) Bone degreasing chamber made of stainless-steel Inner dimensions 950(diameter) x 1200(H) mm Double jacket for indirect heating by means of heat transfer medium (water or glycerine). Heating 6,0 KW total heating power. Chamber volume degreasing medium: approx. 20 liters Heated drain port for bone fat attached Double-walled closure lid with special plastic press seal for completely hermetically sealed closure of the chamber during the degreasing process.

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BEU-100 Knochenentfettungsanlage mit DCM-Rückgewinnungs- und Knochentrocknungsmodul. Entfettungskammer: 1000mm AD x 900mm(H)



Dichlormethan-Rückgewinnungsanlage mit Kondensator und Vorratsbehälter

# Product specification

The lid is equipped with a counterweight, so that the opening and closing can be easily performed by any person.  
 Lid in double-walled design with cooling. Bottom of lid with drop shower for wetting the bone samples to be degreased (suspended or lying on the grid insert). Inner container Incl. a ceiling safety switch with magnetic interlock (without the free-the safety switch on the vessel lid, the unit cannot be put into operation.  
 Plant cannot be put into operation.

a) Recovery unit for degreasing agent incl. condenser and storage tank

b) Programmable bone drying unit at 40 °C with integrated activated carbon filter and fan

c) Cold water generator (option = strongly recommended). With circulating pump for closed circuit.

Power consumption: 550W; current consumption: 2,6 A;  
 refrigerant: R 134 a; stepless temperature control from +3 to +21°C.  
 Connection: 230V / 50Hz

## Paneling and fittings

The entire chamber surrounded with 40 mm thermal insulation. Outer shell made of stainless-steel sheet, ground.

Splash-proof construction. Adjustable feet for level, leveled placement and installation.

Direct access to all fittings, heating elements and other components.

## Electrical components

- thermal fuse (80°C) against overheating
- electronic thermo-sensor, type PT 100 chamber temperature
- electronic thermo-sensor, type PT 100 heat transfer medium

## Inserts for bone specimens

- Standard basket 900mm AD / 600mm high with hanging grid
- Set of suspension bars



Heated outlet for bone fat on the front



Process basket with suspension grid

# Product specification

## Fittings

- Filler neck for the heat transfer medium (1/2")
- Drain valves
- Filling valves / drain valves / overflow valves
- Connections for automatic filling
- Sight glass indicator for the heat transfer medium (water)

## Stainless steel control cabinet

- with touch screen display for fully electronic control of the bone extraction unit
- Dust and splash proof design with door seal.
- On and off switch

## Functions

Digital display of: Heat transfer medium temperature, chamber Temperature (set and actual temperature), Total run time, process, remaining run time, expiration time, function heaters.

Monitoring of: Temperature heat transfer medium, Temperature degreasing chamber, function heaters

## Programs

- Drying (drying of bones by integrated fan at max. 40°C before degreasing).
- Degreasing
- Back distillation (for clean separation of bone fat, solvent and process water).
- Ventilation of the vessel before opening the lid

## Technical data

Operating voltage: 3 Ph / N / PE / 400 V / 50 Hz  
Connected load: 10 KW

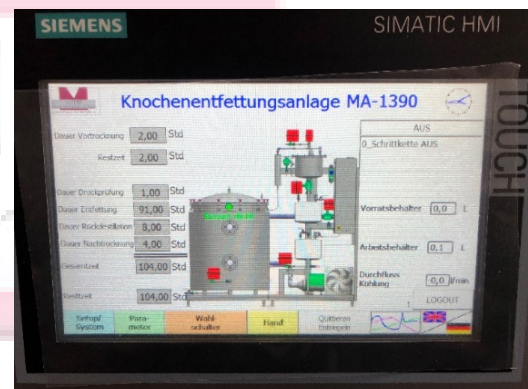
Working temperature: +40 °C to + 55 °C  
Material: stainless steel EN / DIN 1.4571 for all product touched parts

- Network socket

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Stainless steel control cabinet



color touch screen display for operating of the system, only the process cover must be tightened by hand.

# Product specification

## Dimensionen

Außenabmessungen insgesamt: 2350(B) x 1730(T) x 2000(H)mm  
Nutzraumabmessungen: 1000(Durchm.) x 1200(H)mm

Korbmasse / Einhängetiefe: 900 (AD) x 750(H)mm

Andere Nutzraum-Volumen / Korbversionen, Einsätze, Siebe und Spezialhalterungen auf Anfrage!

Gewicht: ca. 1350kg

## The customer must connect or provide the equipment:

- Power current 3 x 400 V / 50 Hz / 25 A
- Inlet cold water: 1/2"
- drain cooling water: 1/2"
- Waste water spigot DN 32
- exhaust air spigot DN 100
- Electrical main connection (power current)

We recommend a floor exhaust with branch for a flexible exhaust air hose ID= 60mm (approx.500m<sup>3</sup> exhaust air volume)

The exhaust air volume of the unit can be max.800m<sup>3</sup>/h, however, it is throttled in the factory according to the on-site throttled.

## Country of Origin

Manufactured in Germany by MEDIS MT GmbH according to ISO 9001 and the valid EN standards as well as occupational safety and safety regulations.