

**ISO CERTIFIED**

# **AMALGAM SEPARATION**

**Chairside, inside the dental unit**

**Central, sedimentation-based**

**With complete recycling package**



# METASYS amalgam separation technologies

## Overview

METASYS remains one of the leading companies for amalgam separation technologies. Over 250,000 faultlessly functioning chair side amalgam separator systems, produced over many years, underline the high level of reliability and operational safety of amalgam separators from METASYS.

### The right solution for every situation!



There are not only chair side separators like the COMPACT Dynamic and MST 1 available but also central ones like the ECO II, ECO II D, ECO II Tandem and ECO II Tandem D. Which one will be the best for your dental office depends on your requirements. In any case, it can be chosen among equivalent alternatives. All solutions have the following features in common: Modular structure with easy maintenance and service, high reliability proven for years, economic and state-of-the-art technology.

#### Installation into the dental unit

- MST 1
- COMPACT Dynamic

#### Central solutions

For retrofitting into existing suction systems of various manufacturers:

- ECO II/ECO II D
- ECO II Tandem/ECO II Tandem D

#### Central solutions in EXCOM suction systems

- ECO II/ECO II D in the suction system EXCOM hybrid A1/A2
- ECO II Tandem/ECO II Tandem D in the suction system EXCOM hybrid A5

### Semi-wet suction systems with sedimentation based amalgam separation

A central, ISO-certified amalgam separation module can be added to each METASYS EXCOM hybrid suction system; it therefore meets the legal requirements for amalgam separation.

ECO II and ECO II Tandem amalgam separators are impressive due to functioning without maintenance, without any electrical switching and monitoring equipment, being quick and easy to install and their unbeatable price advantage.



**EXCOM hybrid A1  
ECO II**

Item no. 02010251

Power supply 230 V

**EXCOM hybrid A2  
ECO II D**

Item no. 02010227

Power supply 230 V

**EXCOM hybrid A2  
ECO II**

Item no. 02010221

Power supply 230 V

**EXCOM hybrid A5  
ECO II Tandem D**

Item no. 02010228 | 02010230

Power supply 230 V | 400 V

**EXCOM hybrid A5  
ECO II Tandem**

Item no. 02010222 | 02010224

Power supply 230 V | 400 V

You can find detailed information on the EXCOM hybrid semi-wet suction systems in our suction systems brochure.

# METASYS solutions

## Care and maintenance

The right care makes the difference!

Cleaning and disinfecting the entire system properly is essential for both hygiene and functional reasons. The reduction in dirt and biofilm prevents performance reductions and increases the service life of the devices\*.



GREEN&CLEAN M2: Dual, active defoaming concentrate to disinfect and deodorise suction systems and amalgam separators.

\*Please observe the instructions for use!

### WITH GREEN&CLEAN M2



Residues-free module 2 works flawlessly



No biofilm thanks to correct cleaning and disinfection



No traces of biofilm in the suction system's hose

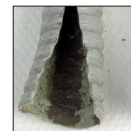
### WITHOUT GREEN&CLEAN M2



Deposits on module 2 in the MST1



Biofilm on water deflector in the MST1

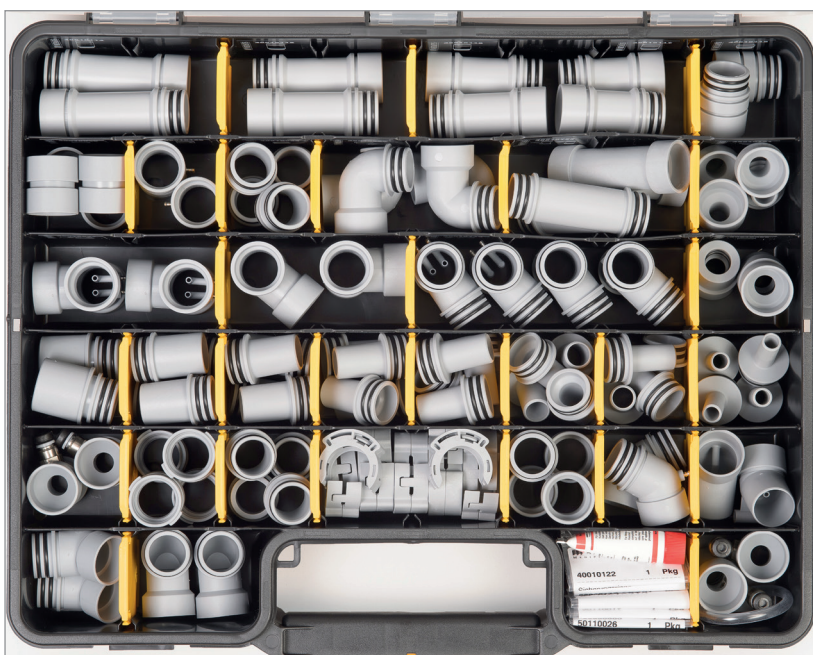


Biofilm in the suction system's hose



GREEN&CLEAN MB: Practical brush dispenser based on citric acid and enzymes for an optimal cleaning of the cuspidor

## META Connect fittings case – guarantees flexibility in installation



The META Connect fittings case is a complete installation set with over 125 connection elements and accessory parts. The practical adapters, extensions, connection and angle pieces simplify the installation of drainage and suction lines in dental offices.

A must for every service technician!

Item no. 40400008

All connection elements and accessory parts can be re-ordered individually.

# METASYS amalgam separation

## Chair side solutions

### Modular design

Maintenance, service and repairs are simple, due to the modular design. It is therefore possible to maintain, repair or replace the respective modules individually where necessary.

- Module 1** Main frame (incl. circuit board)
- Module 2** Air/water separation
- Module 3** Centrifuge for amalgam separation

### Separation module with place selection valve

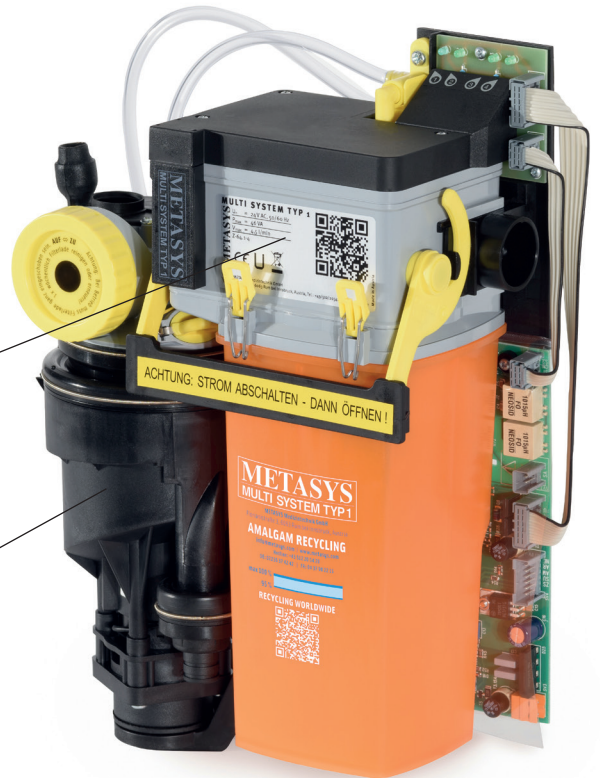
The air/water separation module is equipped with its own place selection valve. Further supplementary installations are therefore unnecessary.

### Self-cleaning centrifuge

The centrifuge in module 3 ensures the high degree of separation of up to 98.6 % (MST 1). Furthermore, after every STOP the centrifuge performs self-cleaning. This results in extremely quiet running and functional safety.

### Various installation kits

A range of different assembly variants and own installation kits, which are available for all conventional dental units, enable effortless and above all speedy installation.



|                               | <b>MST 1</b>        | <b>COMPACT Dynamic</b> |
|-------------------------------|---------------------|------------------------|
| Item no.                      | 01010001            | 01060001               |
| Power supply                  | 24 V AC             | 24 V AC                |
| Frequency                     | 50/60 Hz            | 50/60 Hz               |
| Max. current consumption      | 2 A                 | 6,3 A                  |
| Max. electrical shaft power   | 46 VA               | 100 VA                 |
| Max. water flow rate          | 4,5 l/min           | 4,5 l/min              |
| Vacuum range                  | 80 mbar - 250 mbar  | 80 mbar - 160 mbar     |
| Separation rate               | 98,6 %              | 96,4 %                 |
| Collection container capacity | 300 cm <sup>3</sup> | 300 cm <sup>3</sup>    |
| Dimensions (H x W x D)        | 305 x 210 x 104 mm  | 301 x 173 x 110 mm     |
| DIBT permit number            | Z-64.1-4            | Z-64.1-2               |

# METASYS amalgam separation

## Central solutions

### Maximum reliability

No electrical switching and monitoring equipment is required with the sedimentation separator ECO II. This increases functional safety and enables uninterrupted work with continuous operation.

### Perfect results

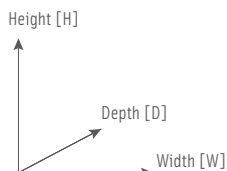
Thanks to the sophisticated sedimentation technology, a separation rate of 99.3% is attained.

### Quick and easy installation

The connection to the suction system in the dental office can be established quickly. An ECO II can be retrospectively installed with an existing central suction system.

### Maintenance and service

Due to their mode of operation (no electronic components), sedimentation separators are maintenance-free. It is only necessary to change the collection container annually, or if the solids reach the „100% full“ level. Further maintenance and service works are superfluous.



|  | <b>ECO II</b><br>01050004   01050005* | <b>ECO II Tandem</b><br>01050007  | <b>ECO II Tandem D</b><br>01050006* |
|--|---------------------------------------|-----------------------------------|-------------------------------------|
| Item no.   | 01050004   01050005*                  | 01050007                          | 01050006*                           |
| Max. water flow rate                             | 1 l/min                               | 2 l/min                           | 2 l/min                             |
| Separation rate                                  | 99,3%                                 | 99,3%                             | 99,3%                               |
| Collection container capacity                    | 700 cm <sup>3</sup>                   | 2 x 700 cm <sup>3</sup>           | 2 x 700 cm <sup>3</sup>             |
| Change interval per collection container         | min. 1 x yearly or when 100% full     | min. 1 x yearly or when 100% full | min. 1 x yearly or when 100% full   |
| Dimensions (H x W x D)                           | 308 x 164 x 201   664 x 238 x 201* mm | 371 x 407 x 243 mm                | 664 x 407 x 243 mm                  |
| Empty weight ECO II Tandem (with bracket)        | 1,7 kg   3,2 kg*                      | 3,6 kg                            | 5,3 kg                              |
| Full weight ECO II Tandem (collection container) | 2,7 kg   4,2 kg*                      | 2 x 2,7 kg                        | 2 x 2,7 kg                          |

\*Germany

\*Germany

# The complete solution

## META Tower

### All of the META Tower's components are impressive:

Compressed air, suction power and amalgam separation combined completely in one device.

- > Powerful thanks to first-class METASYS quality
- > Pace-saving for positioning in tiny spaces (0.36 m<sup>2</sup> space required)
- > Quiet operation at only 54 dB(A)

**METASYS**

### Compressed air

META Air compressors with the latest membrane drying technology supply hygienic compressed air.

### Suction

EXCOM hybrid central suction systems provide an underpressure of 180 mbar.

### Amalgam separation

Central, maintenance-free amalgam separation technology based on sedimentation with complete recycling concept.



|                   | <b>META Tower 2</b> | <b>META Tower 5</b> | <b>META Tower A2</b> | <b>META Tower A5</b> |
|-------------------|---------------------|---------------------|----------------------|----------------------|
| Item no.          | 07010001            | 07010002            | 07010011             | 07010012             |
| Units             | up to 3 units       | up to 5 units       | up to 3 units        | up to 5 units        |
| Amalgam separator | without             | without             | with ECO II D        | with ECO II Tandem D |

# ECO TRANSFORM

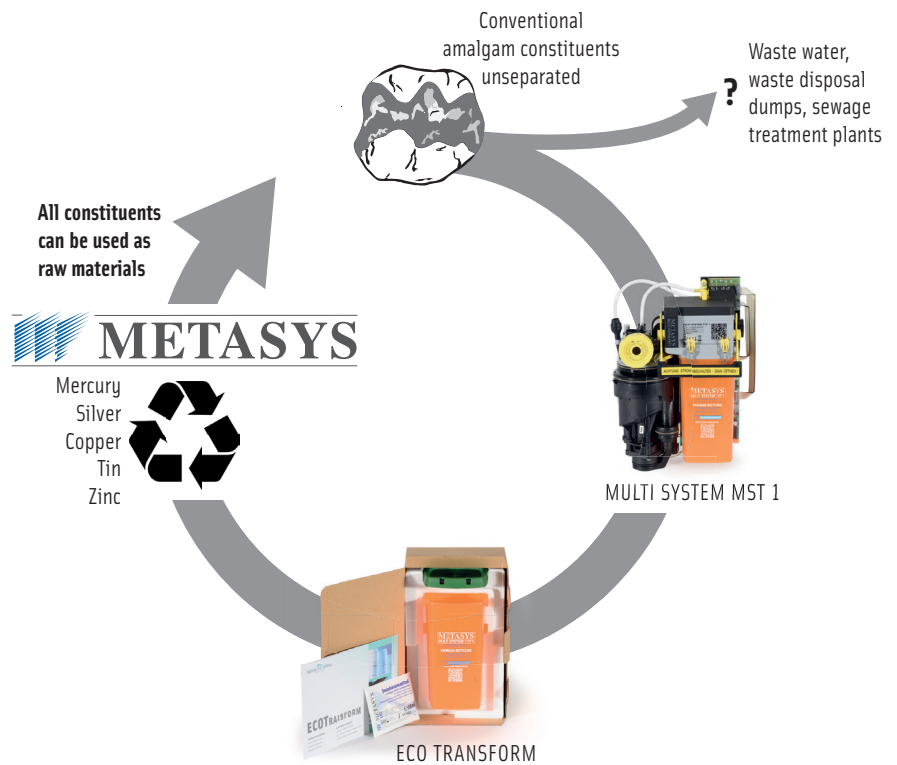
## Amalgam collection and recycling: Simple and uncomplicated!

### Besides the production of amalgam separators, METASYS offers a worldwide amalgam collection and recycling service

The DENTAL ECO SERVICE collection system delivers several tons of amalgam waste to the company's amalgam recycling plant per year. By thermic and chemical separation processes the reusable ingredients are extracted from the amalgam-containing waste and then handed back over to the industry. The recycling system is specialized in recycling amalgam waste and holds all necessary permits.

### The METASYS group

The METASYS group, with its subsidiary DENTAL ECO SERVICE responsible, runs its own amalgam treatment plant on the company's premises. This means METASYS not only offers the dentist amalgam separation technologies but also a worldwide amalgam waste recycling system called ECO TRANSFORM. This guarantees that the collected amalgam residues from dental practices are collected and recycled orderly.



### ECO TRANSFORM: the cost-effective amalgam disposal

Place the full amalgam container into the packaging which has especially been developed for sending them by mail. Return the parcel to your national ECO TRANSFORM collection point.

#### Every new amalgam container includes the following service package:

- > Disposal of the full amalgam collection container
- > Confirmation of the correct disposal
- > Where applicable: Notice to the responsible authority

### Worldwide collection centers

Get all information on our worldwide collection centers on [www.metasys.com/collection\\_centers](http://www.metasys.com/collection_centers)

**Collection center AUSTRIA**  
DENTAL ECO SERVICE GmbH  
Florianistraße 3  
6063 Rum bei Innsbruck  
Austria



### Inspection Kit MST 1

#### Annual inspection kit MST 1

Item no. 50020109

Included in delivery: housing with integrated non-return valve, membrane for place selection valve, pump filter, container MST 1

#### 5-year-inspection kit MST 1

Item no. 50020110

Included in delivery: housing with integrated non-return valve, filter drawer, pump filter, centrifuge cap, water displacement ring, air deflector, membrane, centrifuge chamber, centrifuge pump lid, container MST 1



### Inspection Kit COMPACT Dynamic

#### Annual inspection kit COMPACT Dynamic

Item no. 50040030

Included in delivery: complete separation rotor, seal, top part of separation with membrane, container CD

#### 5-year-inspection kit COMPACT Dynamic

Item no. 50040031

Included in delivery: complete separation rotor, seal, centrifuge, pump filter, top part of separation with membrane, container CD



### METASYS service case MST 1

Item no. 40400008

The METASYS service case MST 1 is a complete set of replacement parts and enables the rapid execution of all maintenance and service work.



### Exchange container ECO II

Item no. 55020130

ECO II International exchange container



### Exchange container MST 1 / COMPACT Dynamic

Item no. International 55020018

Container MST 1

Item no. International 55020019

Container COMPACT Dynamic

## METASYS - your strong partner



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- Amalgam separation
- Hygienic compressed air
- Suction
- Water decontamination
- Infection control
- Recycling