COMPACT Dynamic

Instructions for use

$\mathsf{C}\mathsf{E}$ MD   eIFU:
https://www.metasys.com/
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eIFU

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	Order number	200004297v01

If you would like to request a printed copy of the instructions for use, please contact us at ifu@metasys.com or use the order form at www.metasys.com/downloads. A hardcopy of the instructions for use will be made available to you free of charge and within seven calendar days of receipt of the request.

Translations

Translation of the original instructions for use

Tetras GmbH
Sirius Business Park, Rupert-Mayer-Str. 44, 81379 Munich, Germany

Images

The images contained in these instructions for use are for reference and may differ from the actual appearance of the product.

1. Notes

1.1. General instructions

METASYS can only guarantee the safety, reliability and performance of the dental device if the following instructions are adhered to:

> The product is only to be used in accordance with the instructions for use.
> During maintenance and service work (inspection, service, repair, replacement), only use original replacement parts.
> All manufacturer specifications for the treatment units to which the device is connected must be observed.
> After commissioning, complete the proof of installation and send this to METASYS in order to define the warranty period.
> All maintenance and service work must be entered into the device logbook.
> On request by an authorised technician, METASYS will provide all documentation that may be of use to technically qualified personnel during maintenance and service works
> METASYS accepts no responsibility for damage that may arise due to external influences (defective installation), using incorrect information, improper use of the dental device, or maintenance and service works being carried out improperly.
> The user must familiarise himself/herself with how to operate the dental device and ensure that the dental device is in good condition each time before operating it.

Important: Read the accompanying documents of the device carefully before installation, commissioning and use and keep them for the entire service life of the product!

1.2. Explanation of the symbols

Symbol	Description	Symbol	Description
CE	CE mark	U	Mark of conformity per para. 22 section 4 Lower Saxony Building Regs
MD	Medical device	A→文	Responsible for the translation
UDI	Unique identifier of a medical device		Observe instructions for use
HIBC	UDI marking with standard compliant HIBC data content		Use hand protection
REF	Item number		Use eye protection
SN	Serial number		Use mouth and nose protection
	Manufacturer		Unplug from mains
	Date of manufacture		General warning sign
CH REP	Name and address of the authorized representative's registered office in Switzerland		Protect from heat / Protect from sunlight
	Follow instructions for use		Protect from moisture / Store in a dry place
eIFU: https://www.metasys.com/download-area/?lang=en	Follow instructions for use with reference to eIFU		Fragile

	Temperature limit			Package orientation at the top
	Caution / attention			Separate collection of electrical/electronic equipment (WEEE)
	Humidity limit			Protection class II
	Tank filled			Applied part type BF
	Fault on end device			Electrostatic sensitive device / device parts
	On | Off			Stacking limit n = (quantity)
	Loudspeaker			Download
	Sound			Information
	Inclination / slope			Maintenance / service
	Maximum installation altitude			Stop operation

1.3. Copyright notice

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2. Intended purpose

The COMPACT Dynamic is a self-operating two-step single-unit amalgam separator with integrated dynamic air/water separation, as well as a suction flow valve for separating amalgam from the waste water of dental treatment units.

2.1. Indication

Not applicable.

2.2. Contraindication

Not applicable.

2.3. Target group

The device shall be used by trained and qualified personnel exclusively.

3.   Safety-related information

3.1.   General safety-related information

All serious incidents related to the device must be reported to the manufacturer and the competent authority of the Member State where the user and/or the patient is resident.

3.2.   Safety instructions

Assembly, modifications or repairs may only be carried out by authorised qualified personnel who guarantee compliance with the EN 60601-1 standard (international standard on Medical Electrical Equipment and Systems, in particular part 1: General requirements for basic safety).

The electrical installation must comply with the regulations of the IEC (International Electrotechnical Commission).

The device is not suitable for operation in explosive areas or in flammable atmospheres.

## 3.3.   Warnings

Danger	Warning of a danger that will directly result in serious injury or death
Warning	Warning of a danger that can result in serious injury or death
Caution	Warning of a danger that can result in minor injury
Attention	Warning of a danger that can result in extensive damage to property

4.   Product description

4.1.   Product description

COMPACT Dynamic is a two-stage, single unit amalgam separator with integrated, dynamic air/water separation.

## 4.2.   Technical data / performance data

Height [H]

Width [W]

Depth [D]
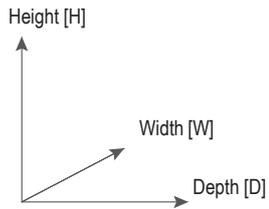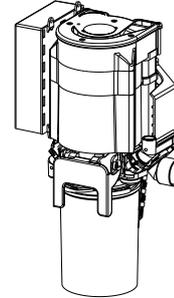
	COMPACT Dynamic
Power supply	24 V AC / 38 V DC
Frequency	50/60 Hz
Max. current consumption	4 A
Max. power consumption	100 VA
Max. ambient temperature	40 °C
Max. liquid flow rate	3.0 l/min via the spittoon; 1.5 l/min via the suction side
Negative pressure range	80-160 mbar
Separation rate	96,4 %
Collection container volume	300 cm^3
Dimensions (H x W x D)	301 x 173 x 110
Class	MD class 1
DIBT approval number	Z-64.1-2
Possible suction systems	Wet or dry suction systems
Applied part	Type BF (no direct patient contact, only via suction flow)

4.3.   Type plate
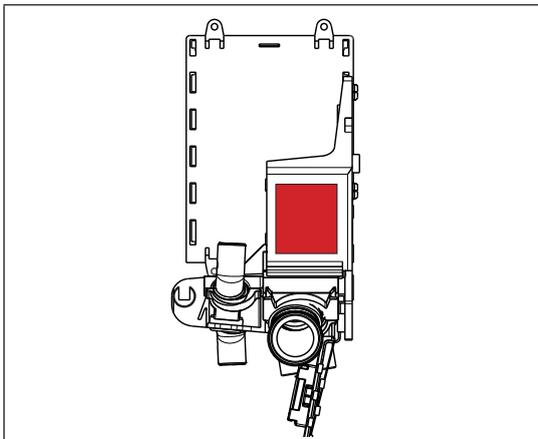
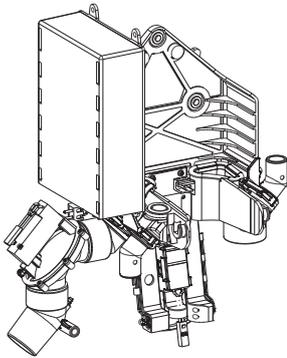**COMPACT Dynamic Built-in version:**

The type plate is located on the right side of module 1 (above the connection of the suction hose).
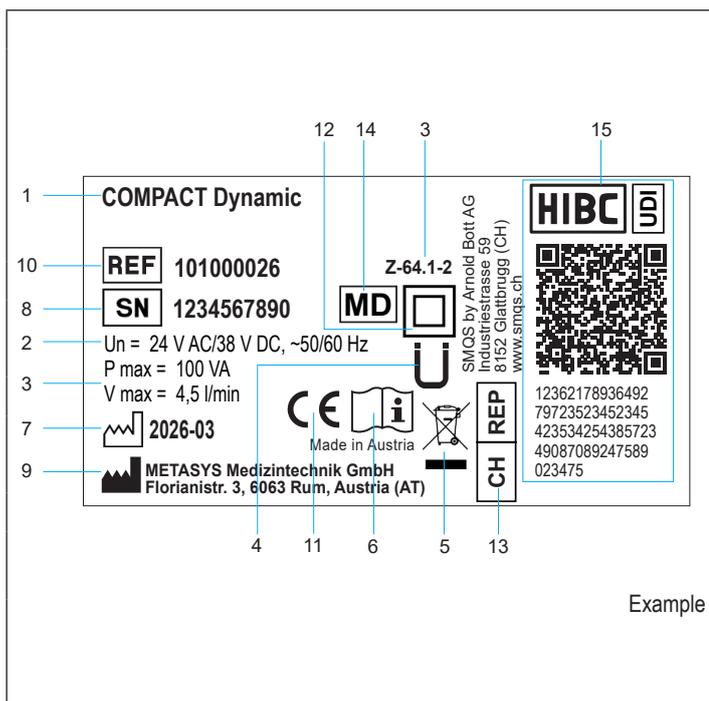
1	Device description
2	Connection data
3	Registration number Deutsches Institut für Bautechnik (DIBT) (German Institute of Construction Technology)
4	Mark of conformity per para. 22 section 4 Lower Saxony Building Regs
5	Separate collection of electrical/electronic equipment (WEEE)
6	Follow instructions for use
7	Date of manufacture
8	Serial number
9	Manufacturer
10	Item number
11	CE mark
12	Protection class II
13	Name and address of the authorized representative's registered office in Switzerland
14	Medical device
15	Unique identifier of a medical device; UDI marking with standard compliant HIBC data content

4.4. Construction

| Module 1	Module 2
Central fastening element:	**Air/water separation:**
> Air, water and electrical connections	> Collection container
> Wall mount	> Centrifuge
> Control electronics	> Separation unit
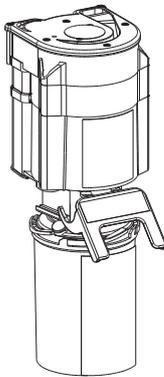
4.5. Functional description

The wastewater from the spittoon bowl is fed directly into the collection container, where the first stage of amalgam separation (by sedimentation) takes place.

As soon as the liquid level in the collection container reaches the effective range of the capacitive sensor, the motor is started, which drives the pump as well as the centrifuge and the impeller. The pump conveys the water, which has been pre-cleaned by sedimentation, into the centrifuge.

During rotation, the heavy particles are pushed against the walls of the two centrifuge chambers, wherein one is located inside the other. The filtered water is continuously drained into the outlet.

After a run-on time, the motor is short-circuited and the centrifuge is thus abruptly stopped. Due to the continuing rotation of the water column, a self-cleaning effect occurs in the centrifuge, which flushes the heavy particles into the collection container.

When a suction hose is lifted off, the place selection valve is opened and the motor is started. Thus, the pump, the centrifuge and the separation impeller are set in rotation. The suction stream is passed through the separation chamber and accelerated in a circular motion by the fast rotating blades of the impeller.

The solid and liquid components of the suction stream are thrown out tangentially, while the air passes through the blade axis to the suction machine.

The ejected solids and liquids are fed to the centrifuge via an inlet hopper and the cycle described above starts again.

4.6. Diagram

Legend

- ⬛ Suction flow (secretion)
- ⬛ Negative pressure
- ⬛ Waste water
- ⬛ Amalgam
- ⬛ Waste water with amalgam
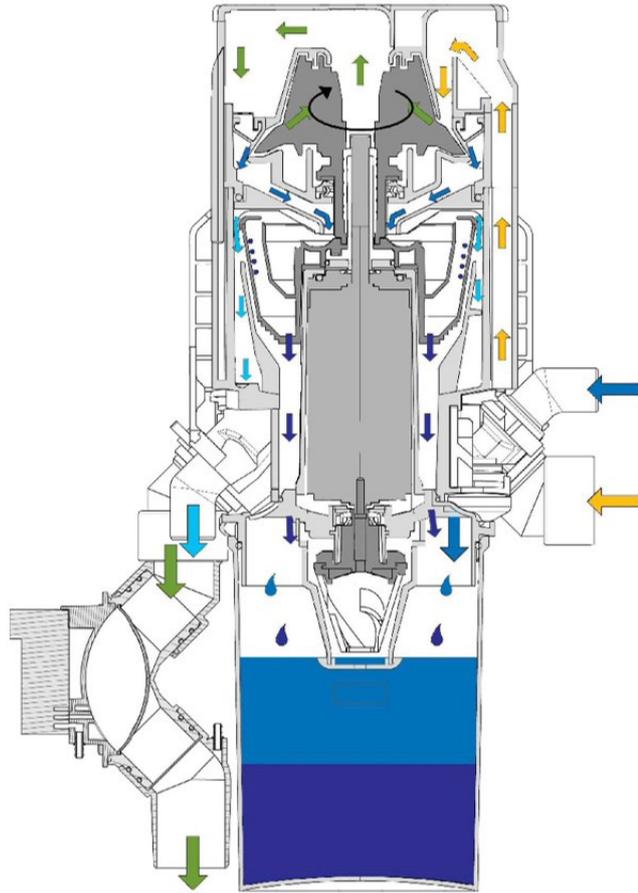
5. Preparation for use

5.1. Transport and storage

The device is shipped in two polystyrene shells fixed together. This original packaging must be used for any onward and return transport. The device must always be transported and stored in an upright position. The device must be transported to the installation site in a completely packed state. After unpacking the device, check for completeness and possible transport damage.
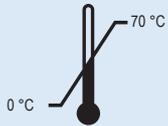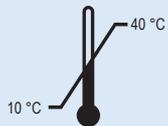
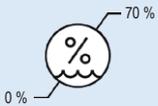|	
70 °C / 0 °C	Transport and storage temperature
80 % / 0 %	Transport and storage humidity limitation

5.2. Installation requirements

40 °C / 10 °C	Operating temperature: 10°C to 40 °C
70 % / 0 %	Humidity limit max. 70 %
≤ 3000 m	Max. 3,000 m above sea level

> The following space requirement must be provided for the installation: H x W x D = 350 mm x 215 mm x 120 mm
> To avoid vibrations, use only the three holes on module 1 to attach to load-bearing parts of the treatment unit! (Do not remove vibration inserts!)
> The device must be able to swing freely and must not have any contact with other parts of the treatment unit (cables, hoses, covers, etc.).

Caution:

A contact protection plate must be fitted behind module 1 if the subsurface is electrically conductive!
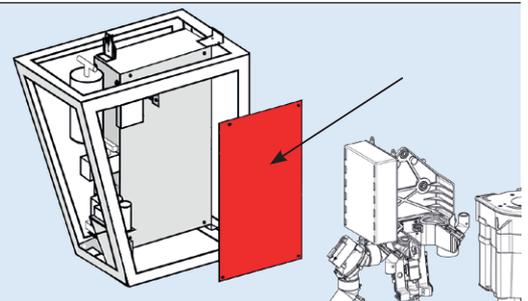
5.2.1. Assembly variants

Installation in the spittoon

Direct integration of the device into the spittoon should be used as the preferred solution, as the tubing routes to the device can be kept as short as possible.
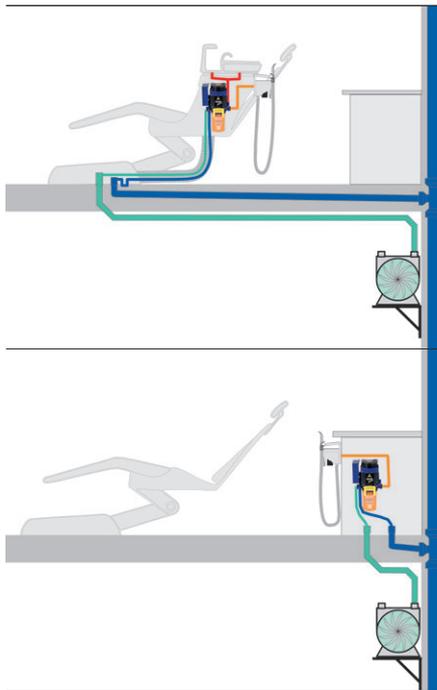
In the spittoon, ensure vibration-free suspension of the device from supporting parts of the treatment unit.

It is also important to ensure that the device cannot damage other devices in the event of a leak.

Installation in the behind the patient's head

If there is no spittoon at the treatment chair and the suction system is located behind the head of the patient, the device can be installed inside a cabinet.

In this case, the connection opening for the spittoon drain must be closed with a blind plug.

5.2.2. Pipe and hose connections
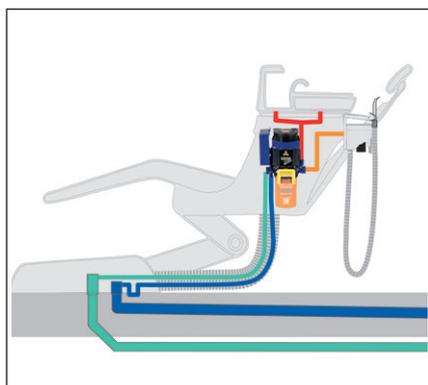

COMPACT Dynamic Built-in version
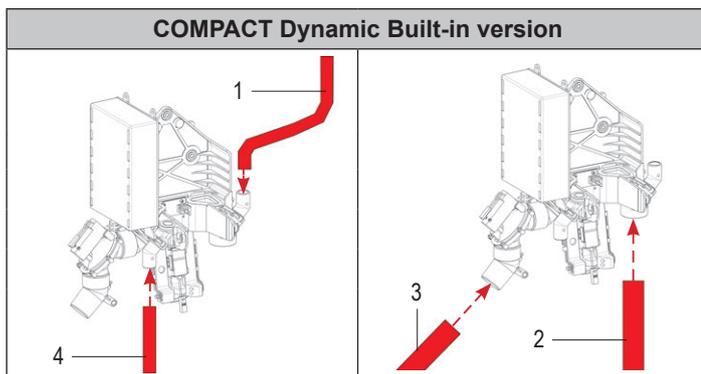
1	Connection for spittoon drain hose Ø 15 mm
2	Connection for suction hose (for hose storage) Ø 26 mm
3	Connection for suction hose (to suction machine) Ø 26 mm
4	Connection for drain hose (clean water outlet) Ø 15 mm

⚠ **Attention:**
Unused connections must be sealed with blind plugs!

> The hose routes leading to the device must be kept as short as possible to prevent pre-sedimentation.
> Dirty dental hoses must be replaced during installation and disposed of by an approved disposal company.
> The device must be connected to the sewage pipe via an odour trap.
> The waste water must be able to flow freely, as the separation efficiency is not guaranteed in the event of backwater.
> Water jet operated saliva ejectors must be shut down due to high water consumption.
> The flushing of the spittoon must be limited by means of a timer or button to max. 30 seconds at a max. water flow of 3 l/min to enable the centrifuge to stop.
> For matching hose adapters and fittings see 9.1.1. Accessories, service kits, collection containers and spare parts.
> The installation location must be suitable (the device must not be able to damage other devices in the event of a leak).

5.2.3. Connection dimensions
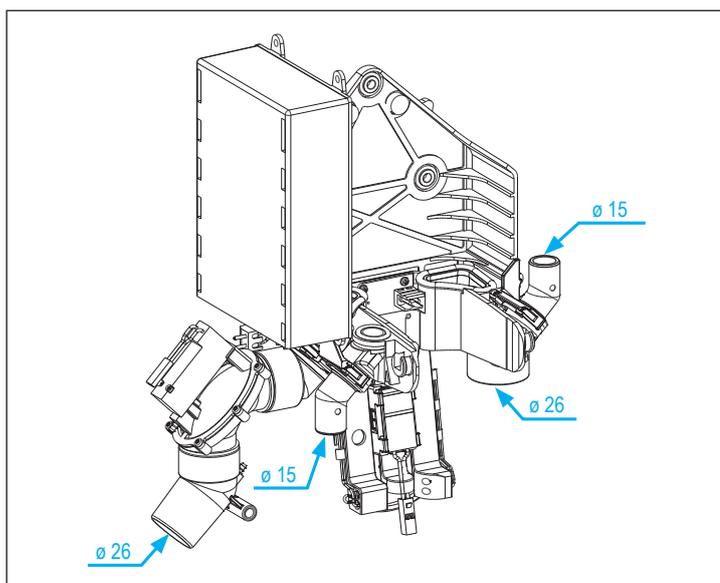
5.2.4. Filter

There must be a coarse filter in the drain of the spittoon. This must have a mesh size of max. 3 mm and must not be removed while the amalgam separator is in operation.

If not present in the hose storage, a pre-filter with a mesh size of max. 1 mm must be installed on the suction side of the amalgam separator. The pre-filter must be easily accessible for the practice staff.
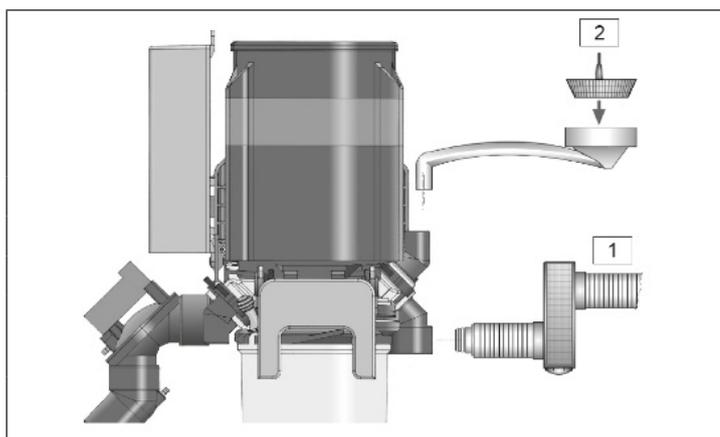
1	Pre-filter
2	Coarse filter (spittoon)

5.3. Installation, assembly and commissioning

1	Read the instructions carefully before installation and commissioning!	
	Meet spatial requirements	see 5.2. Installation requirements
2	Check the coarse filter in the spittoon 2-1 - Coarse filter (spittoon)	
3	Install the pre-filter (if not present in the hose storage) 3-1 - Pre-filter	

4	Fit a contact protection plate behind module 1 (if the subsurface is electrically conductive)	

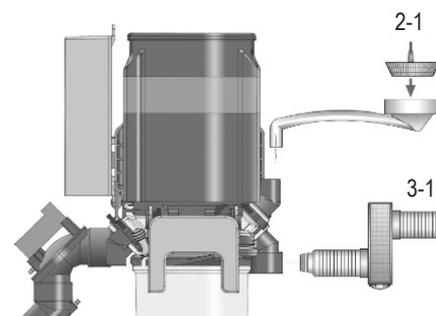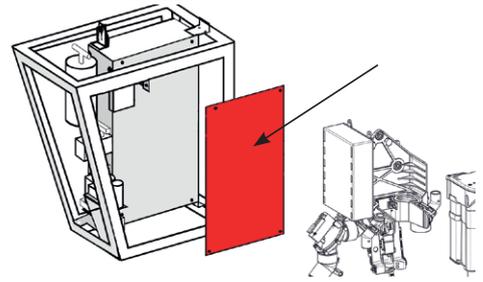|	
5	Connect the spittoon drain hose (Mesh size of the coarse filter max. 3 mm) A - Connection for spittoon drain hose
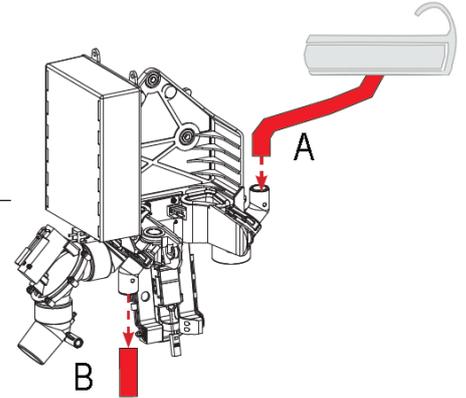
6	Connect the drain hose B - Connection for drain hose (clean water outlet)

7	Connect the suction line from the hose storage (suction hose)

8	Connect the suction line to the suction machine (suction hose) C - Connection for suction hose (to suction machine) D - Connection for suction hose (for hose storage)
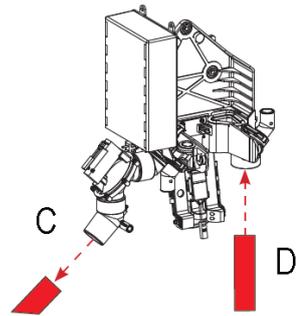
9	Connect electrical connections (see 5.4. Electronics)
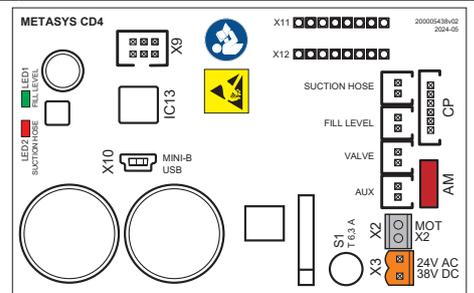
10	Switch on the device via the device or practice main switch. The centrifuge of the COMPACT Dynamic starts up briefly and stops abruptly (self-test).
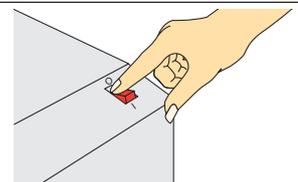
11	When LED 1 lights up green, the amalgam separator is ready for operation (for a description of the external display, see 6.1.1. External display).
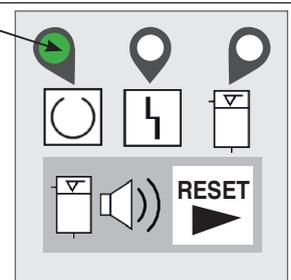
	Inform the dentist about product function, operation, care and warranty conditions.	
12	Fill in the installation proof and device logbook and return them to METASYS (installation@metasys.com)	
13	Perform normal operation test	see 7.2.3. Service mode

5.3.1.   Installation and assembly of optional accessories, retrofit parts and spare parts

⚠️ Assembly, modifications and repairs may only be carried out exclusively by authorised specialist personnel (see 3.2. Safety instructions)! The METASYS technical customer service is also available for further information and assistance in carrying out repairs, retrofitting, fault analyses, etc.

5.3.2.   Connecting to other devices

When connecting the METASYS device to other devices or systems, hazards can arise. It must therefore be ensured that no hazards arise for the user or the patient and that the environment is not affected. The specifications of the manufacturer of the device or system to be connected must be observed.

5.4. Electronics

The mains connection may only be carried out by a qualified electrician. The electrical installation must be carried out in accordance with the applicable local regulations. Before connecting to the mains, compare the rated voltage on the device type plate with the mains voltage.

5.4.1. Electrical connections

LED 1	LED fill level
LED 2	LED suction hose
X1 (fill level / water level)	Filling level *(fill level / water level)*
X2	Motor connection
X3 (main power)	Power supply 24 C AC / 38 / V DC *(main power)*
⚠️	The supply voltage must be taken from a safety transformer that complies with the requirements of IEC 601-1 / VDE 0750 Part 1 / DIN EN 60601-1 and IEC 60742 + A1 / DIN EN 60742.
X4 (suction hose)	Storage signal *(suction hose)*
X5 (CP)	Connection for external control unit *(CP)*
X6	Aux
X7 (valve)	Suction flow valve *(valve)*
X8 (AM)	Light barriers filling level amalgam *(AM)*
X9	Programming connector
X10	Micro-USB connector
X11	no function
X12	no function
S1	MST250/T 6,3 A/UN 250 V/ ICN 63 A Fuses may only be replaced by the same type!

⚠️ **Danger:**

The supply voltage must be taken from a safety transformer that complies with the requirements of IEC 601-1 / VDE 0750 Part 1 / DIN EN 60601-1 and IEC 60742 + A1 / DIN EN 60742.

Danger:

Fuses may only be replaced by the same type!

6. Use

6.1. Normal operation

Ensure that the device is switched off at least 1 x per working day for level measurement. The 24 V AC / 38 V DC power supply must be connected after the device's or practice's main switch.

6.1.1. External display
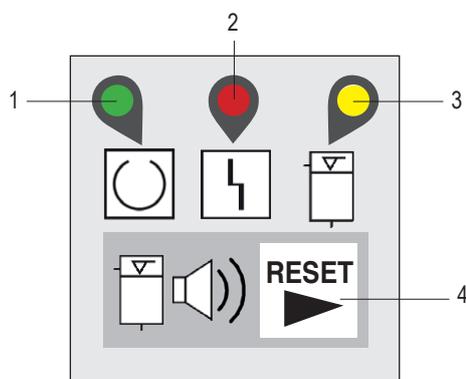
1	**LED 1**	green glowing	ready for operation
2	**LED 2**	red flashing	see 6.2 Error messages
		red glowing	
3	**LED 3**	yellow glowing + buzzer tone switchable via RESET	Level indicator: Container 95% full
		yellow glowing + buzzer tone that cannot be switched off via RESET	Level indicator: Container 100% full
		yellow flashing	see 6.2 Error messages
		yellow glowing	
4	**RESET**	No colour	RESET button
			When the container is 95% full, the buzzer tone can be switched off by pressing the RESET button.

6.2. Error messages

 Assembly, modifications and repairs may only be carried out exclusively by authorised specialist personnel (see 3.2. Safety instructions)! The METASYS technical customer service is also available for further information and assistance in carrying out repairs, retrofitting, fault analyses, etc.
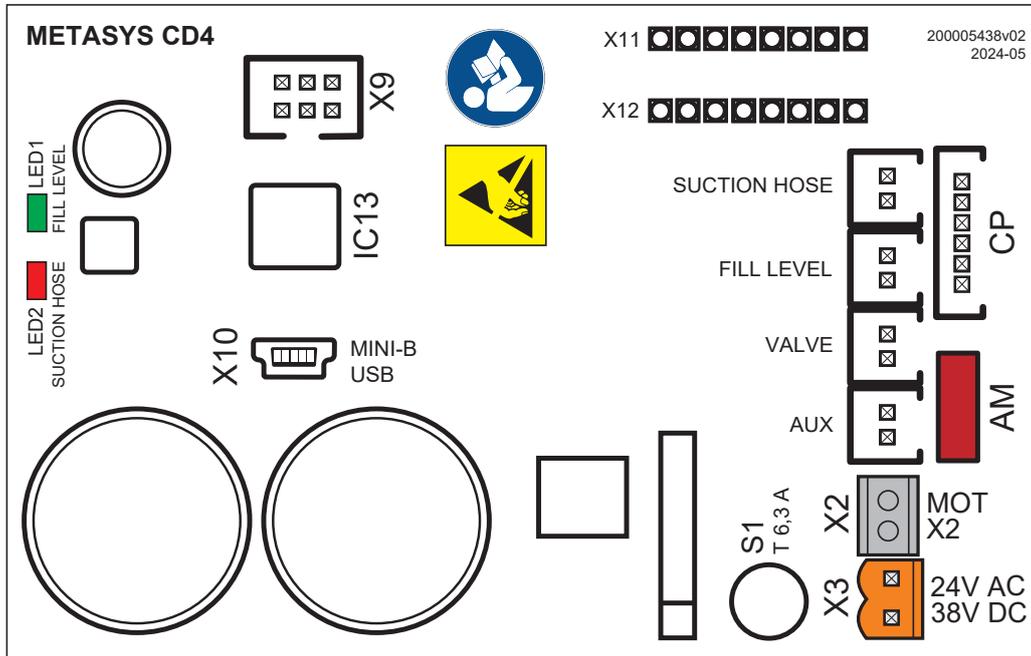
 glowing

 flashing

Error message	External display	Possible cause	Countermeasures
LED 1: green illuminated **LED 2:** red flashing Buzzer tone		Capacitive sensor interrupted or short-circuited. Valve interrupted or short-circuited. Motor not connected.	Contact your service technician.
		Collection container not inserted correctly.	See 7.2.1 to insert the collection container correctly

Error message	External display	Possible cause	Countermeasures
LED 1: green flashing **LED 3:** yellow flashing + buzzer tone can be switched off via RESET		Motor overtemperature	Contact your service technician.
LED 1: green illuminated **LED 3:** yellow illuminated + buzzer tone can be switched off via RESET		Collection container 95% full	Collection container replacement recommended, continued operation up to 100% possible. The buzzer tone can be switched off by pressing the RESET button. LED 3 remains lit up as a reminder. The buzzer sounds again each time the main switch is switched on. (see 7.2.1. Replacement of the collection container and 7.2.2. Disposal of the collection container)
LED 1: green illuminated **LED 3:** yellow illuminated + buzzer tone cannot be switched off via RESET		Collection container 100% full	Collection container must be replaced. Further work is not possible due to the blocking of the place selection valve. (see 7.2.1. Replacement of the collection container and 7.2.2. Disposal of the collection container)
Centrifuge does not switch off automatically and is permanently in operation.	-	Error capacitive sensor	Clean sensor Replace sensor Contact your service technician.
Centrifuge does not start	-	Error capacitive sensor	Check sensor connection Replace sensor Contact your service technician.
Suction flow is not released	-	Suction flow valve defective	Clean or replace suction flow valve Contact your service technician.
Bubbles form in the container when pump (module 2) is in operation	-	Pump housing or filter missing or disassembled	Reassemble or replace pump housing or filter Contact your service technician.
Pump capacity not sufficient		Filter for pump missing or disassembled	Reassemble or replace filter Contact your service technician.
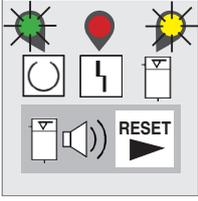
7. Care and maintenance

To ensure the expected service life of the device of 5 years, the specified cleaning and maintenance instructions as well as the specified installation requirements and operating conditions must be observed.

7.1. Regular cleaning measures

For trouble-free operation, briefly operate the spittoon bowl flushing after each treatment and flush each suction hose with cold water to remove residues from the lines.

The following cleaning measures must be carried out regularly:

Measure	Interval	
Cleaning and disinfection of the suction system	2 x daily	see 7.1.1. Daily cleaning with GREEN&CLEAN M2
Clean and empty the pre-filter	At least 1 x per week, depending on workload, emptying may also be necessary daily	see 7.1.2 Cleaning and emptying the prefilter
Container replacement	If required / at least 1 x per year	See 7.2.1. Replacement of the collection container and 7.2.2. Disposal of the collection container

7.1.1. Daily cleaning with GREEN&CLEAN M2

2 x daily (noon/evening) and after surgical interventions, disinfection must be carried out with the prescribed disinfectant and cleaning agent GREEN&CLEAN M2.

Ideally, GREEN&CLEAN M2 should be used prior to the treatment unit remaining at a standstill for extended periods (lunchtime, end of the day or holidays).

For information on use and safety instructions, see the GREEN&CLEAN M2 instructions for use.

7.1.2. Clean and empty the pre-filter

1	Collect the amalgam-containing residues from the filter drawer in a suitable container.
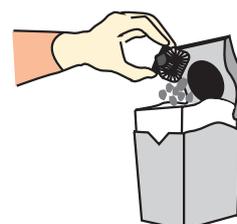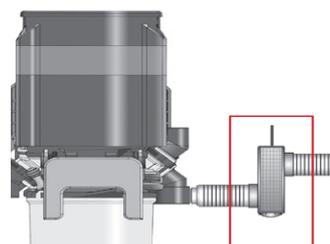
7.2. Maintenance and service

⚠️	Assembly, modifications and repairs may only be carried out exclusively by authorised specialist personnel (see 3.2. Safety instructions)! For further information and assistance in carrying out repairs, retrofitting, fault analyses, etc., the METASYS technical customer service is also available!
	Warning: Switch off the main switch of the treatment unit!
⚠️	**Warning:** Avoid contact with the contents of the amalgam separator!
	Warning: Risk of contamination: To avoid infection, wear personal protective equipment (hand, eye, mouth-nose protection) and disinfect and clean the device!

7.2.1. Replacement of the collection container

1	Provide a new collection container and disinfectant.

2	Turn the locking clip on the amalgam separator upward. Hold the separator in place.
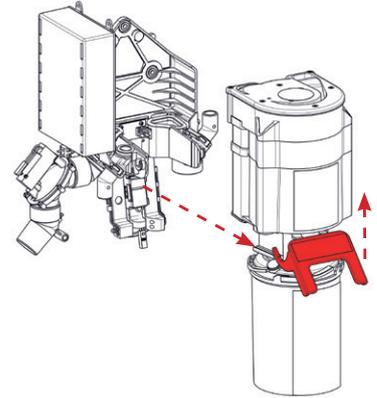
3	Pull the amalgam separator forwards out of the fastening element and place it on a flat, non-slip surface.

4	Hold the container firmly and turn the upper part counterclockwise. Pull off the upper part upwards.
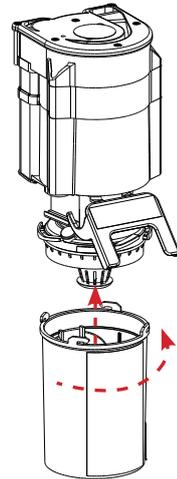
5	If the pump filter is dirty, pull it off, clean it over a collecting vessel and then put it back on the suction housing of the pump.
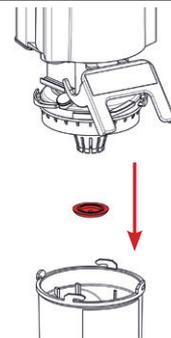
6	Place the upper section on the new collection container. Hold the collection container and turn the upper part clockwise as far as it will go; carry out a visual inspection (all retaining lugs of the container must be properly engaged).
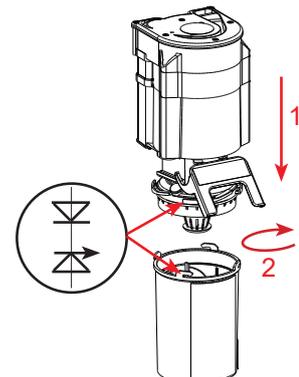
| 7 | Grease the sealing surfaces in the retaining element with Vaseline. |

| 8 | Carefully push the amalgam separator back into the retaining element and close the locking clip. |

| 9 | Switch on the main switch of the treatment unit.
The unit starts up briefly 1 to 2 times and LED 1 on the external display lights up green („ready for operation"). |

| 10 | If the collection container is not inserted correctly, LED 2 on the external display flashes red and a beep is heard. In this case, switch off the main switch and carefully repeat the procedure as described above. |
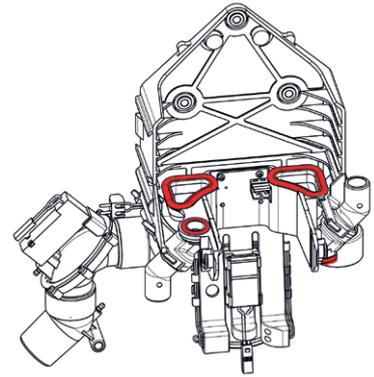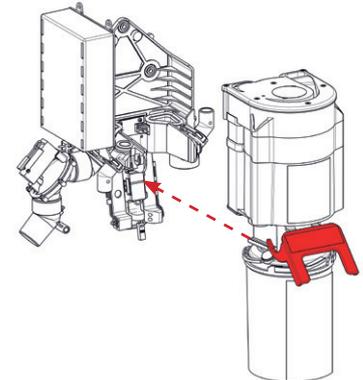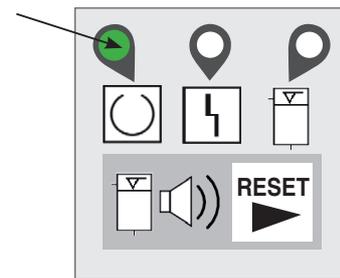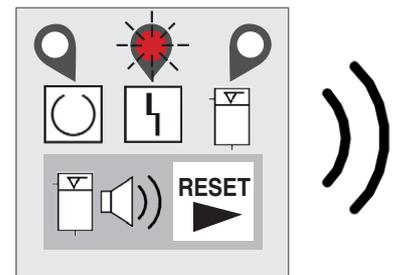
7.2.2.   Disposal of the collection container

The full collection container can be returned to the company's own disposal organisation, METASYS logistics & collection GmbH GmbH.

Retain the confirmation of disposal in accordance with state law.

When the complete device is disassembled at the end of its service life, it can be returned to the manufacturer for correct disposal (see 8.2. Recycling and disposal).

1   Pour disinfectant (10 ml GREEN&CLEAN M2) for suction systems into the full amalgam collection container.
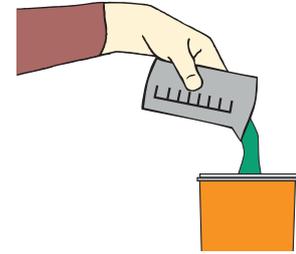
2   Close the full collection container with the green lid by turning it clockwise.

Carry out a leak test by placing the closed collection container upside down over a collection receptacle. If necessary, close the cover tightly again.
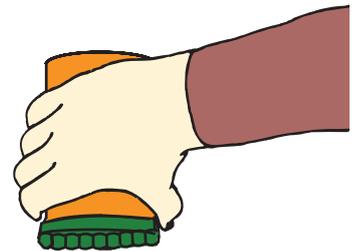
4   Place the properly sealed collection container in the 2 polystyrene half cups and then place it in the transport box.
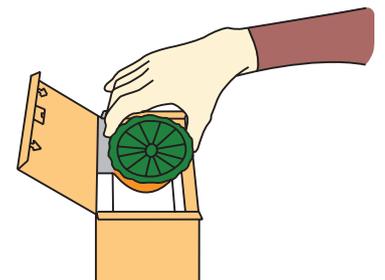
5	Close the transport box as per the enclosed instructions.
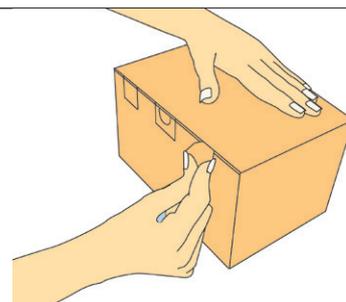
Dispose of the full collection container via an appropriate disposal company.

6	**For disposal using METASYS logistics & collection GmbH:** Visit www.metasys.com/collection_centers for more information on disposal in your country!

7	Stopping residues, filter residues or other waste containing amalgam must be collected in a suitable container and can be disposed of by a disposal company (e.g. METASYS logistics & collection GmbH).

7.2.3. Service mode

i	The electronics of the COMPACT Dynamic amalgam separator allows the device functions to be checked in a service mode.

⚠	**Attention:** In order to return to normal operation or service mode after switching off the unit, it is essential to wait 5 seconds before switching it on again!

Activating the service mode

1	Press and hold the RESET key during power-up (approx. 5 seconds). LED 1 (ready for operation) flashes (2.5 Hz).
2	Release the RESET key, LED 1 continues to flash.
3	Press the RESET key again to start the motor.
4	Press the RESET button again to stop the motor and control the valve.
5	Press the RESET button again to stop the valve.
6	By pressing the REST button again, steps 3 to 5 are repeated as often as required.
7	The service mode is terminated by switching off the supply voltage.

7.2.4. 1-year service kit

i

According to the Deutsches Institut für Bautechnik (German Institute for Construction Technology), the display units of amalgam separators must be checked for function at least once a year by an expert!

METASYS makes it mandatory to carry out the 1-year inspection.
The 1-year inspection must be entered in the device document!

In the course of the 1-year inspection, we recommend the prophylactic replacement of the following parts by an authorized technician: collection container, seal set, separation rotor, pump filter.

Start service mode

1	Call up service mode (see 7.2.3 Service mode)
2	Perform motor and valve test run at least once
3	End service mode by switching off the supply voltage

7.2.5. 5-year service kit

i

According to the German Waste Water Ordinance, Annex 50, amalgam separators must be inspected for proper condition at intervals of no longer than 5 years in accordance with state law!

The 5-year inspection must be entered in the device document!

1	Carry out a 1-year inspection	see 7.2.4. 1-year service kit
2	Check the correct installation and connection of the amalgam separator in accordance with the installation requirements	see 5.2. Installation requirements
3	Carry out disinfection and cleaning of the suction hoses and spittoon	see 7.1.1. Daily cleaning with GREEN&CLEAN M2
4	Carry out a visual inspection of the centrifuge chamber	see 7.2.5.1. Visual check of the centrifuge

7.2.5.1. Visual check of the centrifuge

1

Remove separator from wall bracket

Remove the four screws on the top of the unit using a suitable tool (Torx 20).

2

Remove the lid of the separation (use the screwdriver support on the back).
Do not remove the separation inlet seal!

3

Remove the separation rotor by removing the plug in the center of the rotor using needle-nose pliers, loosen the hexagon socket screw and pull the rotor out upwards.
Attention: Left-hand thread!

4

Pull off pump hose on the back of the separator at the upper connection

5

Remove centrifuge inlet part upwards (using needle-nosed pliers)

6

Pull out the centrifuge chambers upwards

7

Visually check the centrifuge chambers for contamination; centrifuge chambers that show heavy deposits or accumulations of solids must be replaced!

Then reassemble in reverse order.
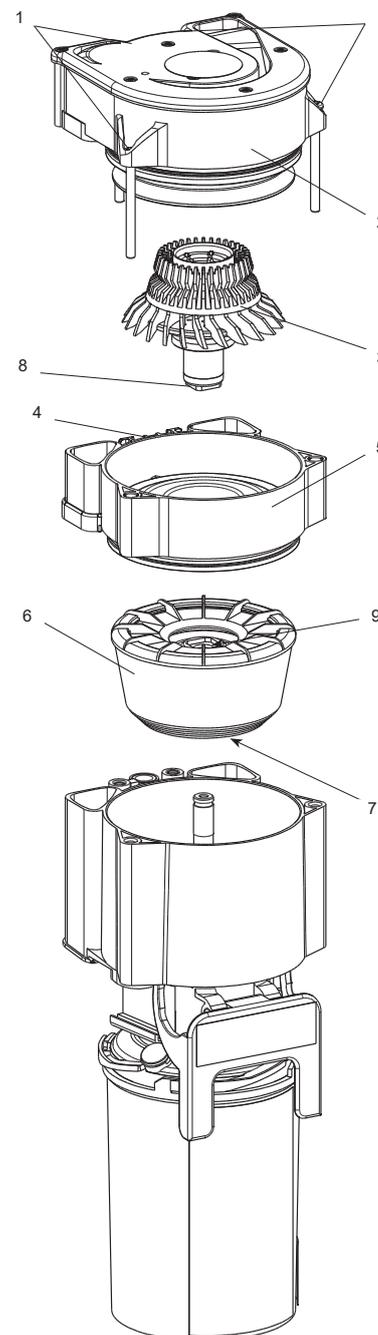
⚠️ **Attention:**

It is important that all screws used are screwed in as far as they will go!

When assembling, make sure that the four pins (7) on the underside of the centrifuge chamber are inserted into the holes provided! Furthermore, the square of the separation rotor (8) must engage in the centrifuge top (9)!

8. Decommissioning

8.1. Disassembly

	Warning: Remove from power source before disassembly!
	Warning: Risk of contamination: To avoid infection, wear personal protective equipment (hand, eye, nose and mouth protection) and disinfect and clean the device!

If it is necessary to return the device to the depot or to METASYS, the original METASYS packaging must be used. Before packing the METASYS device to be transported, clean and disinfect it. Possible openings where residual fluids could escape must be closed.

8.2. Recycling and disposal

⚠	The device may be contaminated! Advise the disposal company of this so that appropriate precautions can be taken. Parts that are contaminated with amalgam, such as filters, filters, hoses, etc., must also be disposed of in accordance with the national regulations.

Uncontaminated plastic parts of the device can be recycled as normal plastics. The integrated electronic components (including circuit board) are to be disposed of as electronic waste. Metal parts are to be disposed of as scrap metal.

Alternatively, the device can be returned to the manufacturer for proper disposal. Before packing the METASYS device to be transported, clean and disinfect it. Possible openings where residual fluids could escape must be closed. The original METASYS packaging must be used for shipping.

The proof of installation and the device logbook must be kept for 5 years after the device has been disposed of.

9. Annex

9.1. Order numbers and scope of delivery

Designation	Designation	Scope of delivery	**REF**
101000026	COMPACT Dynamic	Amalgam separator with standard accessories and instructions for use	101000026
101000027	COMPACT Dynamic KaVo	Amalgam separator with KaVo accessories and instructions for use	101000027
101000029	COMPACT Dynamic Planmeca	Amalgam separator with Planmeca accessories and instructions for use	101000029
101000030	COMPACT Dynamic OMS	Amalgam separator with OMS accessories and instructions for use	101000030
101000032	COMPACT Dynamic a-dec 400/500	Amalgam separator with a-dec 400/500 accessories and instructions for use	101000032
101000033	COMPACT Dynamic SIGER	Amalgam separator with SIGER accessories and instructions for use	101000033
101000034	COMPACT Dynamic a-dec 300	Amalgam separator with a-dec 300 accessories and instructions for use	101000034
101000035	COMPACT Dynamic a-dec 200	Amalgam separator with a-dec 200 accessories and instructions for use	101000035
101000036	COMPACT Dynamic KaVo 1063/1066/1065	Amalgam separator with KaVo 1066 / KaVo1063 / KaVo1065 accessories and instructions for use	101000036
101000037	COMPACT Dynamic Planmeca/Kaladent	Amalgam separator with Planmeca, Kaladent accessories and instructions for use	101000037
101000038	COMPACT Dynamic Ancar	Amalgam separator with Ancar accessories and instructions for use	101000038
101000039	COMPACT Dynamic Planmeca Compact i5 Kaladent	Amalgam separator with Planmeca Compact i5 accessories and instructions for use	101000039

9.1.1. Accessories, service kits, collection containers and spare parts

Service kits

Designation	Designation
120000598	ET COMPACT Dynamic, 1-year maintenance kit
120000594	ET COMPACT Dynamic, 5-year maintenance kit

Spare parts

Designation	Designation
120000558	ET COMPACT Dynamic/ECO, locking bracket
120000559	ET COMPACT Dynamic/ECO, immersion probe
120000560	ET COMPACT Dynamic/ECO, plug spittoon bowl drain, 5 pcs
120000561	ET COMPACT Dynamic/ECO, separation upper part
120000564	ET COMPACT Dynamic/ECO, sliding ring set
120000565	ET COMPACT Dynamic/ECO, delivery water/air
120000566	ET COMPACT Dynamic/ECO, sealing plugs separation rotor, 5 pcs
120000567	ET COMPACT Dynamic/ECO, connections water/air, 2x 2 pcs
120000563	ET COMPACT Dynamic, place selection valve
120000568	ET COMPACT Dynamic, centrifugal chamber
120000569	ET COMPACT Dynamic, water/air transfer
120000570	ET COMPACT Dynamic, wall bracket

Designation	Designation
120000571	ET COMPACT Dynamic, suction line prefilter
120000572	ET COMPACT Dynamic, transition board
120000574	ET COMPACT Dynamic, safety clip
120000575	ET COMPACT Dynamic, fuse T 6.3 A, 5 pcs
120000576	ET COMPACT Dynamic, hose clamp set, 2x small, 2x large
120000577	ET COMPACT Dynamic, pump housing
120000578	ET COMPACT Dynamic, pump filter, 5 pcs
120000583	ET COMPACT Dynamic, light sensor
120000584	ET COMPACT Dynamic, KaVo, connection cable board CD2
120000585	ET COMPACT Dynamic, cascade inlet spittoon
120000586	ET COMPACT Dynamic, capacitive sensor, cable 450 mm
120000587	ET COMPACT Dynamic, capacitive sensor, cable 260 mm
120000589	ET COMPACT Dynamic, main board
120000591	ET COMPACT Dynamic, power unit
120000619	ET COMPACT Dynamic, siphon floor model
120000606	ET COMPACT Dynamic, transport packaging container

Collection container / Replacement container

Designation	Designation
113000002	EB COMPACT Dynamic, replacement container, AT
113000004	EB COMPACT Dynamic, replacement container, AU
113000005	EB COMPACT Dynamic, replacement container, CH
113000006	EB COMPACT Dynamic, replacement container, CZ
113000008	EB COMPACT Dynamic, replacement container, DE
113000010	EB COMPACT Dynamic, replacement container, FI
113000011	EB COMPACT Dynamic, replacement container, FR
113000012	EB COMPACT Dynamic, replacement container, HU
113000013	EB COMPACT Dynamic, replacement container, INT
113000014	EB COMPACT Dynamic, replacement container, IT
113000015	EB COMPACT Dynamic, replacement container, NO
113000016	EB COMPACT Dynamic, replacement container, PL
113000017	EB COMPACT Dynamic, replacement container, SI
113000018	EB COMPACT Dynamic, replacement container, SK
113000066	EB COMPACT Dynamic, replacement container, GR

Disinfectant

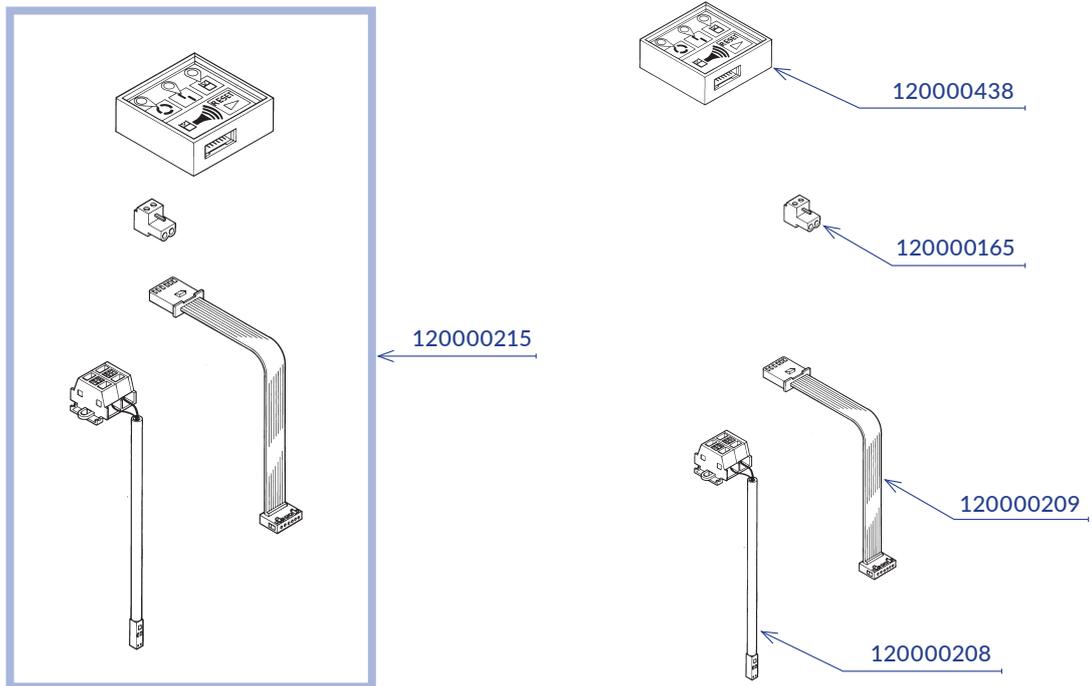| Designation	Designation
122000004	GREEN&CLEAN CL N 1000 ml, 2 bottles
122000026	GREEN&CLEAN M2 red/green 500 ml, each 1 bottle, dispenser
122000027	GREEN&CLEAN M2 red/green 500 ml, each 2 bottles
122000028	GREEN&CLEAN M2 red/green 500 ml, each 1 bottle
122000030	GREEN&CLEAN M2 green 500 ml, 25 bottles
122000031	GREEN&CLEAN M2 red 500 ml, 25 bottles
121000008	AH GREEN&CLEAN, M2, pump dispenser
121000009	AH GREEN&CLEAN, M2, dispenser
121000005	AH GREEN&CLEAN, CL N, mixing container

Nozzles and adapters

Designation	Designation
120000057	ET fittings, angle piece for water outlet 15 mm
120000058	ET fittings, VITALI, connector kit
120000059	ET fittings, T-distributor for 2 suction hoses
120000060	ET fittings, transport plugs Ø 26, 2 pcs
120000061	ET fittings, Siemens, reducer 15/21 mm, 5 pcs
120000062	ET fittings, hose adapter 90°, 15 mm, 5 pcs
120000063	ET fittings, hose adapter 24-25 mm, 5 pcs
120000064	ET fittings, hose adapter 21-22 mm, 5 pcs
120000065	ET fittings, hose adapter 19-20 mm, 5 pcs.
120000066	ET fittings, hose adapter 18-19 mm, 5 pcs.
120000067	ET fittings, hose adapter 15-16 mm, 5 pcs.
120000068	ET fittings, hose adapter 15 mm, 5 pcs.
120000069	ET fittings, hose adapter 13 mm, 5 pcs.
120000070	ET fittings, hose adapter 31-32 mm, 5 pcs.
120000071	ET fittings, inlet frame connector 24-15 mm, 5 pcs.
120000072	ET fittings, inlet frame connector 20-21 mm, 5 pcs.
120000073	ET fittings, inlet frame connector 19-20 mm, 5 pcs.
120000074	ET fittings, inlet frame connector 18-19 mm, 5 pcs.
120000075	ET fittings, inlet frame connector 15-17 mm, 5 pcs.
120000076	ET fittings, inlet frame connector 15-16 mm, 5 pcs.
120000077	ET fittings, inlet frame connector 10-11 mm, 5 pcs.
120000078	ET fittings, connector 90°, 15 mm, 5 pcs.
120000079	ET fittings, connector 31-21 mm
120000080	ET fittings, connector 25-28 mm, double seal, 5 pcs.
120000081	ET fittings, Dürr Connect, adapter Ø 15
120000083	ET fittings, blind plugs inlet frame
120000084	ET fittings, adapter META Connect, Dürr, large 36 mm
120000085	ET fittings, adapter META Connect pipe connection 50/40 mm
120000086	ET fittings, adapter META Connect pipe connection 36 mm
120000087	ET fittings, adapter META Connect pipe connection 32 mm
120000088	ET fittings, adapter for inlet frame
120000089	ET fittings, adapter 15/26, male
120000090	ET fittings, adapter 15/18, 2 pcs
120000091	ET fittings, adapter 15/10
120000255	ET META Connect, Y-distributor 26x26x26, male
120000256	ET META Connect, Y-distributor 26x26x26, female
120000257	ET META Connect, air duct extension incl. elbow 72.5
120000258	ET META Connect, air duct extension incl. elbow 64.5
120000259	ET META Connect, air duct extension incl. elbow 56.5
120000260	ET META Connect, air duct extension incl. elbow 49.5
120000261	ET META Connect, air duct extension incl. elbow 31.5
120000262	ET META Connect, extension 72.5 mm
120000263	ET META Connect, extension 64.5 mm
120000264	ET META Connect, extension 56.5 mm
120000265	ET META Connect, extension 49.5 mm
120000266	ET META Connect, extension 27 mm

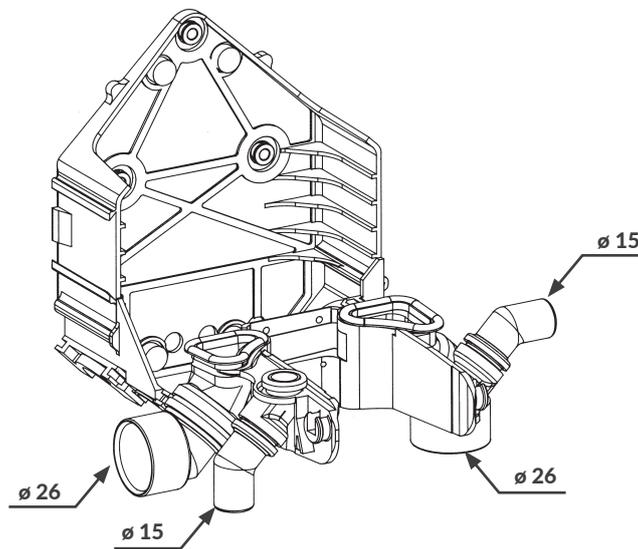|	
120000267	ET META Connect, connecting piece hose adapter 26 mm, 5 pcs
120000268	ET META Connect, connection adapter with mini-nozzle, 26 mm
120000269	ET META Connect, T-distributor, male
120000270	ET META Connect, T-distributor, female
120000271	ET META Connect, T-distributor with mini-nozzle, male
120000272	ET META Connect, T-distributor with mini-nozzle, female
120000273	ET META Connect, fitting case
120000274	ET META Connect, safety clip for connectors
120000275	ET META Connect, connector 31-32 mm, 5 pcs
120000276	ET META Connect, connector 26-26 mm
120000277	ET META Connect, connector 24-25 mm, 5 pcs
120000278	ET META Connect, connector 21-22 mm, 5 pcs
120000279	ET META Connect, connector 19-20 mm, 5 pcs
120000280	ET META Connect, connector 17-19 mm, 5 pcs.
120000281	ET META Connect, connector 16-17 mm, 5 pcs.
120000282	ET META Connect, connector 15-16 mm, 5 pcs.
120000283	ET META Connect, connector 10-11 mm, 5 pcs.
120000284	ET META Connect, Dürr Connect System, safety clips, 5 pcs
120000285	ET META Connect, Dürr Connect System, adapter, male
120000286	ET META Connect, Dürr Connect System, adapter, female
120000287	ET META Connect, double nipple 26 mm
120000288	ET META Connect, angle-piece with mini-nozzles 26 mm
120000289	ET META Connect, connection angle 26 mm
120000290	ET META Connect, connector 45°, suction side
120000291	ET META Connect, connector 45° with air duct
120000292	ET META Connect, connector 45°
120000293	ET META Connect, inlet frame adapter, 5 pcs
120000294	ET META Connect, adapter 26 mm
120000295	ET META Connect, adapter 15/26 mm
120000537	ET connector, R 3/4", 5 pcs
120000600	ET adapter, handpiece small/large, universal
120000601	ET adapter, 16-11 mm
120000602	ET adapter for small handpiece, 11-6 mm, soft
120000603	ET adapter for small handpiece, 11-6 mm, hard

Spare parts - COMPACT Dynamic

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120000591

120000558

120000566

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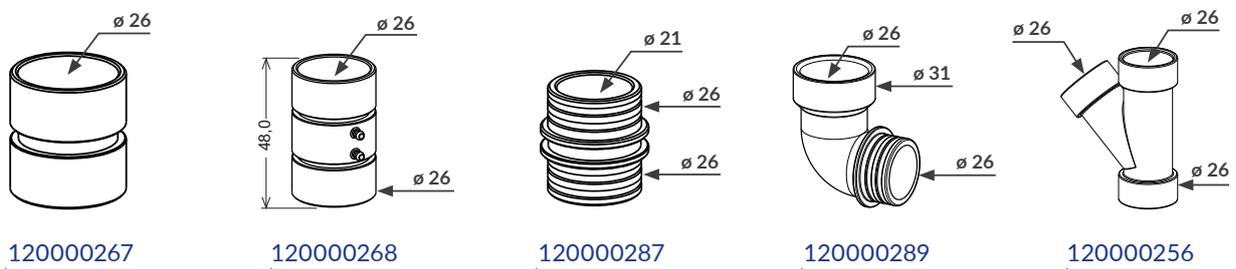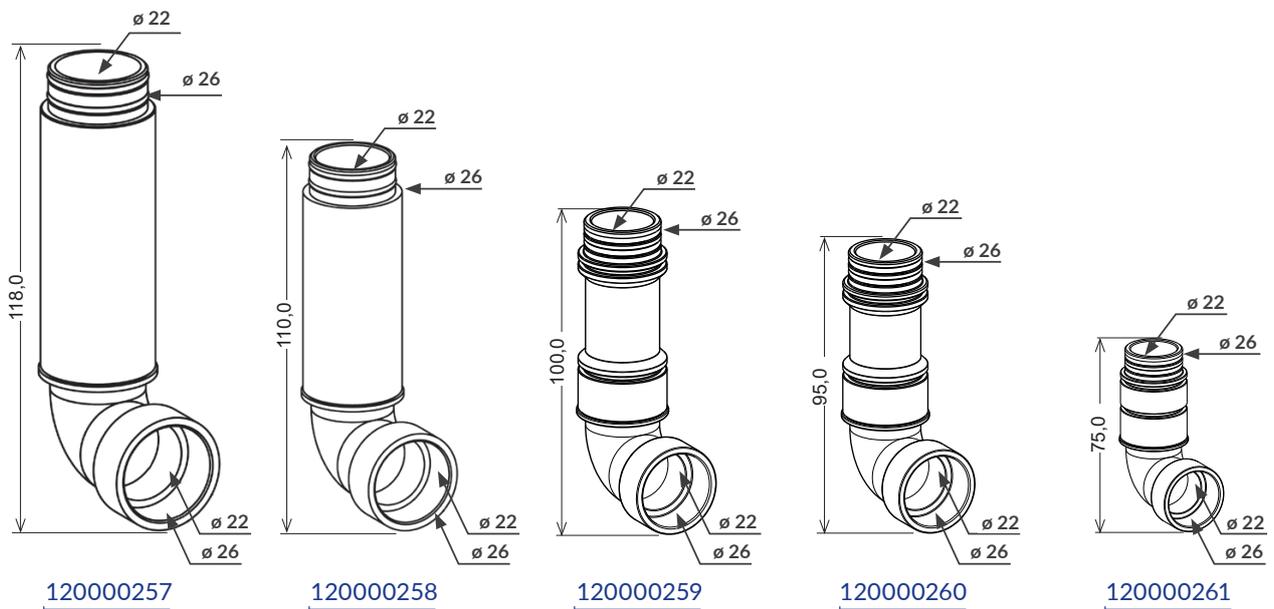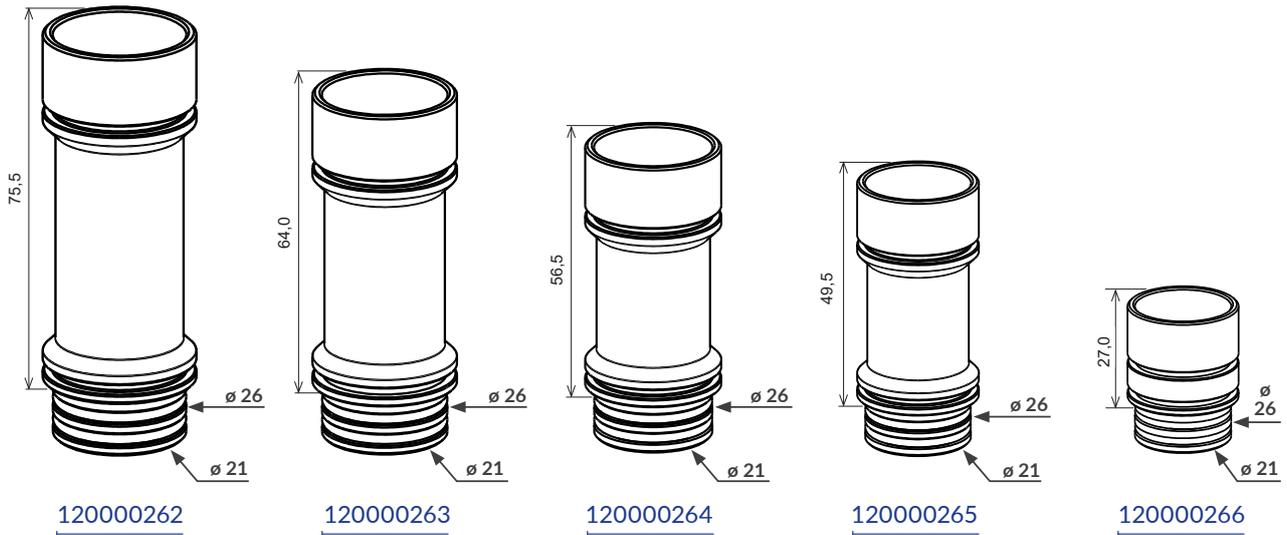120000620 - COMPACT Dynamic, Planmeca, Zwischenstecker CD4 Platine | CD4 circuit board adapter plug
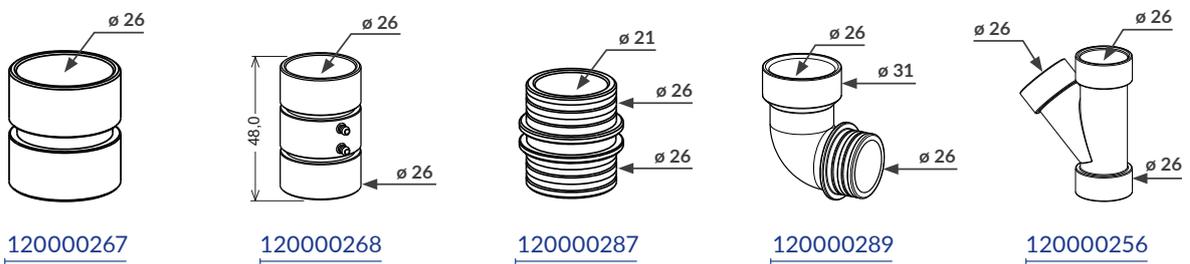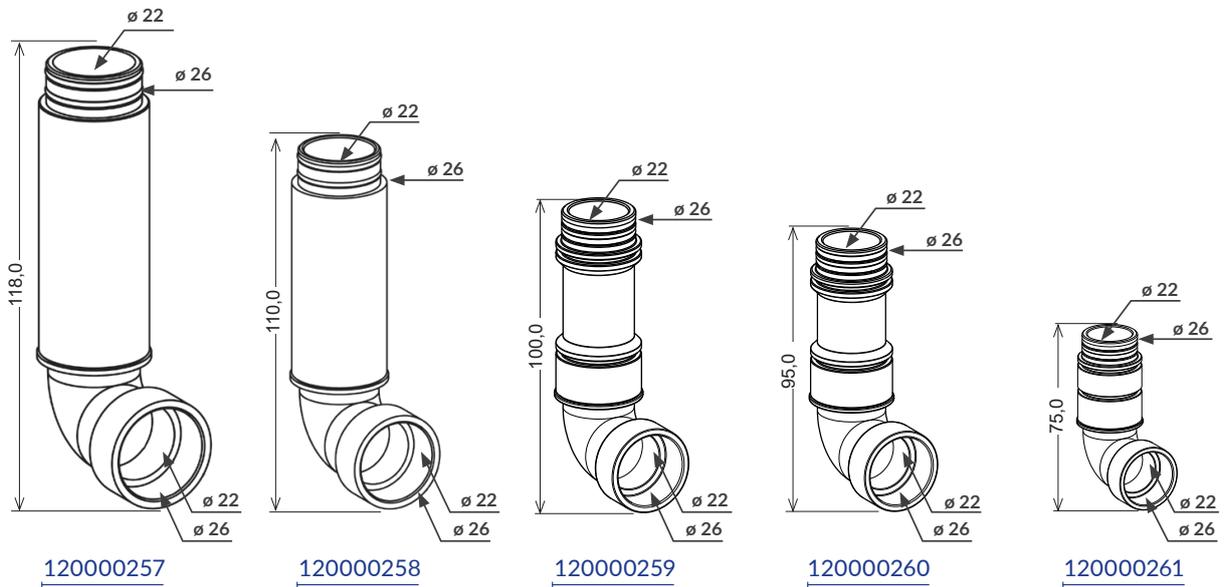
External display - COMPACT Dynamic

120000438

120000165

120000215

120000209

120000208

Connection dimensions

ø 15

ø 26

ø 15

ø 26

META Connect - hose adapters and adapters

75,5 · ø 26 · ø 21	64,0 · ø 26 · ø 21	56,5 · ø 26 · ø 21	49,5 · ø 26 · ø 21	27,0 · ø 26 · ø 21
120000262	120000263	120000264	120000265	120000266

ø 22 · ø 26 · 118,0 · ø 22 · ø 26	ø 22 · ø 26 · 110,0 · ø 22 · ø 26	ø 22 · ø 26 · 100,0 · ø 22 · ø 26	ø 22 · ø 26 · 95,0 · ø 22 · ø 26	ø 22 · ø 26 · 75,0 · ø 22 · ø 26
120000257	120000258	120000259	120000260	120000261

ø 26	ø 26 · 48,0 · ø 26	ø 21 · ø 26 · ø 26	ø 26 · ø 31 · ø 26	ø 26 · ø 26 · ø 26
120000267	120000268	120000287	120000289	120000256

75,5
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120000059

Adapter for Dürr Connect System
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ø 26

120000084

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120000087

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120000086

ø 40
ø 50
ø 26

120000085

ø 26
ø 15

120000089

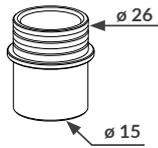**Safety Clip small 20 mm**

120000284

9.2. Warranty conditions

METASYS grants a guarantee of 12-36 months for specific products (duration of guarantee depends on the product according to the information in the current price list).

The guarantee covers all material faults that more than negligibly affect the function of the device. The guarantee does not cover damages caused by incorrect or improper handling as well as normal wear. Furthermore, the guarantee does not apply to the replacement of the amalgam collection container or to fragile parts such as glass, plastic, hoses, filters, condensate filters or membranes. Any incurred working and travel times are excluded from the warranty.

In order to determine the validity of the guarantee, the installation proof accompanying the device must be returned to METASYS immediately after proper assembly has taken place. In this case the warranty period begins with commissioning. In the event of installation without returning the installation proof to METASYS, any warranty claim is forfeited. Installation and return of installation proof must be completed within 24 months from the date of sale from METASYS.

Furthermore, any warranty claims of the customer expire if only one of the following circumstances arises, regardless of whether the circumstances arise for the customer of METASYS or a later owner or operator:

> Improper installation, operation, maintenance or transport of the device. If METASYS parts have to be returned, the original METASYS packaging must be used for shipping. Prior to packaging and shipping, the METASYS device must be cleaned and disinfected. Any openings where residual fluids could leak must be closed.
> Installation and return of installation proof have not been completed in the aforementioned 24 months.
> Failure to send the Installation Proof to METASYS.
> Installation and use of non-original METASYS parts.
> Installation of the device by personnel who are neither trained nor authorized by METASYS.
> Occurrence of damages through improper handling and operation or use of unapproved cleaning and/or disinfecting material, as well as non-compliance with the instructions for use.
> Execution of repairs by unauthorised repair shops or unauthorised personel.
> Failure to comply with the prescribed maintenance intervals. Maintenance must be carried out 11-12 / 23-24 / 35-36 months after installation of the respective METASYS item.
> Missing entries in the Equipment Logbook regarding the installation as well as prescribed servicing by technicians trained by METASYS.
> Failure to take reasonable immediate measures to avoid further damages in the event of a malfunction.
> Shipping of devices or components to METASYS without proper accompanying paperwork, in particular without error description or invoice for the purchase of the device.
> Failure to provide visual images (photos, video clips ...) of the METASYS item complained about, as well as of its installation situation and ambient conditions.

METASYS reserves the right to demand the documentation supplied with the device to check the maintenance intervals for the assertion of warranty claims. The processing of warranty claims takes place exclusively according to the following method:

In the event of malfunctions, the device must be opened by an authorized technician, the relevant component taken out and sent to METASYS unopened and cleaned. The customer sends the device or component in question to METASYS at his own expense. METASYS checks whether there is a warranty claim. METASYS will repair the device or component if it is cost-effective. The customer is charged for the costs incurred for the repair, but not the replacement parts covered by the guarantee. The consignment of the device or component to METASYS always represents a repair order for METASYS. For cost estimates for the repair of returned devices, a processing fee* is charged if the warranty period has expired or no warranty case exists. For products inspections only without any cost estimates a processing fee* can be charged. When sending the device or component to METASYS, an error description with all importation information about the device must always be included. The customer of METASYS may only provide payment in advance after consultation with METASYS. Only the affected component is to be sent in (smallest possible unit). If contaminated, intact parts are sent to METASYS without technical necessity, METASYS is entitled to destroy them without separate payment. The new part corresponding to the part to be destroyed is only delivered after a separate order and invoice. In any case, METASYS has the right to handle the guarantee through credit note or the return of new parts without conducting repairs. Guarantee services do not result in an extension of the warranty period nor do they initiate a new warranty period. The warranty period for installed replacement parts ends with that for the originally delivered device. The METASYS customer is obligated to make his customer aware of the conditions regarding the warranty processing. The statutory warranty rights of the customer remain unaffected.

* The current warranty conditions and fees can be found in the current METASYS price list.

9.3. Change history

Revision	Date	Description
200004297	22.09.2023	Newly created.
200004297v01	11.03.2026	New pictures and spare parts drawings. New circuit board. Additional information 38 V DC. Address format changed. Intended purpose updated.

Corrected various spelling and translation errors.

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