

bg edelstahl und kunststofftechnik
für krankenhaus, industrie und wasserwirtschaft gmbh



Bedpan cleaning and disinfection unit

With controller, **euROMAT^{light}**
operating manual and
technical information



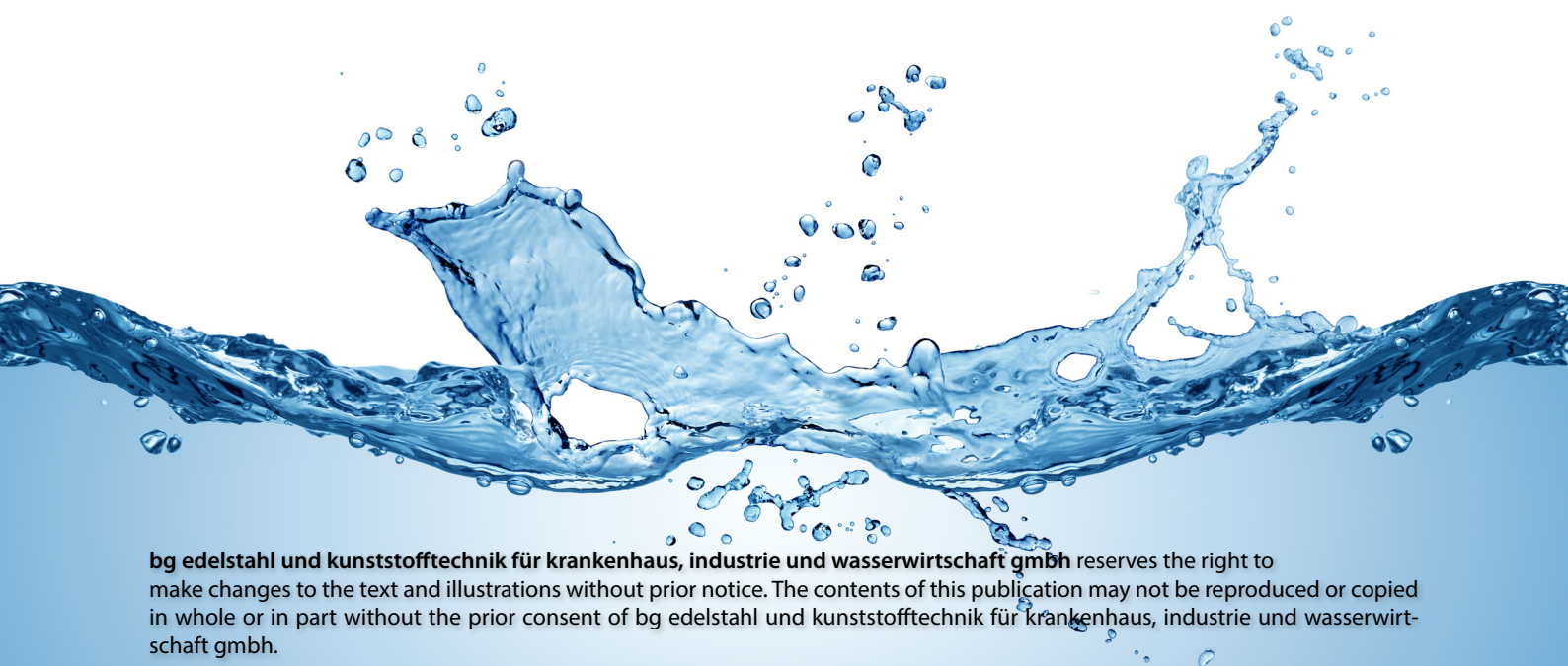
Operating and maintenance manual euromAT^{light}

Steckbeckenreinigungs- und Desinfektionsautomat

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1. Introduction

This operating and maintenance manual is intended to ensure that the following automatic cleaning and disinfection units are used properly and to give you the opportunity to carry out minor maintenance work yourself. You must carefully read through the operating and maintenance manual to avoid operating errors and unit failures. Please keep this manual in a place where it is accessible to all users.

2. Safety information

⚠ The product must be used in accordance with this safety information. If there are any points that you are unsure about, please contact the manufacturer.

- Prior to each use, check that the bedpan cleaning unit is ready for operation.
- Avoid flushing in larger quantities of pulp, as otherwise there is a risk of drain blockage and a worse cleaning result should be expected.
- Only use reusable, thermostable dishes that are suitable for their intended use as a medical device (holding bodily excretions) and carry the CE mark as a medical device.
- Check that all the accessible cables and hoses are undamaged on a regular basis. If defective parts are discovered, immediately press the emergency stop switch and do not use the unit any more. Then notify the Service department.
- If excessive steam or water escapes during rinsing, the unit must be disconnected from the mains immediately and the manufacturer must be informed. Never put toilet cleaner or other unauthorised chemicals in the rinsing chamber.
- The mains plug must be unplugged prior to opening the control cabinet. The unit may only be opened by trained specialist personnel.
- The bedpan cleaning unit must not be used for disinfecting other medical devices.
- Do not use the unit in the event of an epidemic.
- The unit must not be cleaned from the outside with a hose or high-pressure cleaner.

Please note: The bottom unit cover must be properly closed again after it has been opened. The key must then be removed from the profile cylinder and stored separately and securely.

3. General functional description

Congratulations on purchasing your euroMAT basic bedpan cleaning unit. Below, you will be guided through your unit's functions and how to care for it. Read the manual carefully before and also after being briefed about the unit and always keep the operating manual in a dry place near the unit. The operating manual also contains the maintenance and installation logs that must be made available to the service technician.

3.1 Overview of functions / intended purpose

The euroMAT basic bedpan cleaning unit is used for cleaning and disinfecting urine bottles, bedpans and commode buckets. Three programs for different types and degrees of soiling are available to the user. In each program, the dishes are pre-rinsed, cleaned, disinfected and then cooled by means of a further rinse, so they can be removed immediately after the program has ended and are then ready for use again.

Warning: When using the decentralised, thermal disinfection process with an A0 value of 600 to 3000, not all existing pathogens (e.g. spores) can be eliminated. In the course of maximised risk management, some infections (e.g. patients with *Clostridium difficile*) require that their reusable dishes (bedpan, urine bottle) be **ADDITIONALLY** subjected to a downstream chemical treatment, depending on the pathogen, following cleaning / thermal disinfection in the bedpan cleaning unit.

To be able to use the unit with all degrees of water hardness in the long term, the decalcifying agent euroMATIC pH neutral or euroMATIC pH acid is automatically added to the cleaning water. The storage tank, which needs to be replaced on a regular basis once a notification to this effect has appeared in the text display, is located in the cabinet under the rinsing chamber.

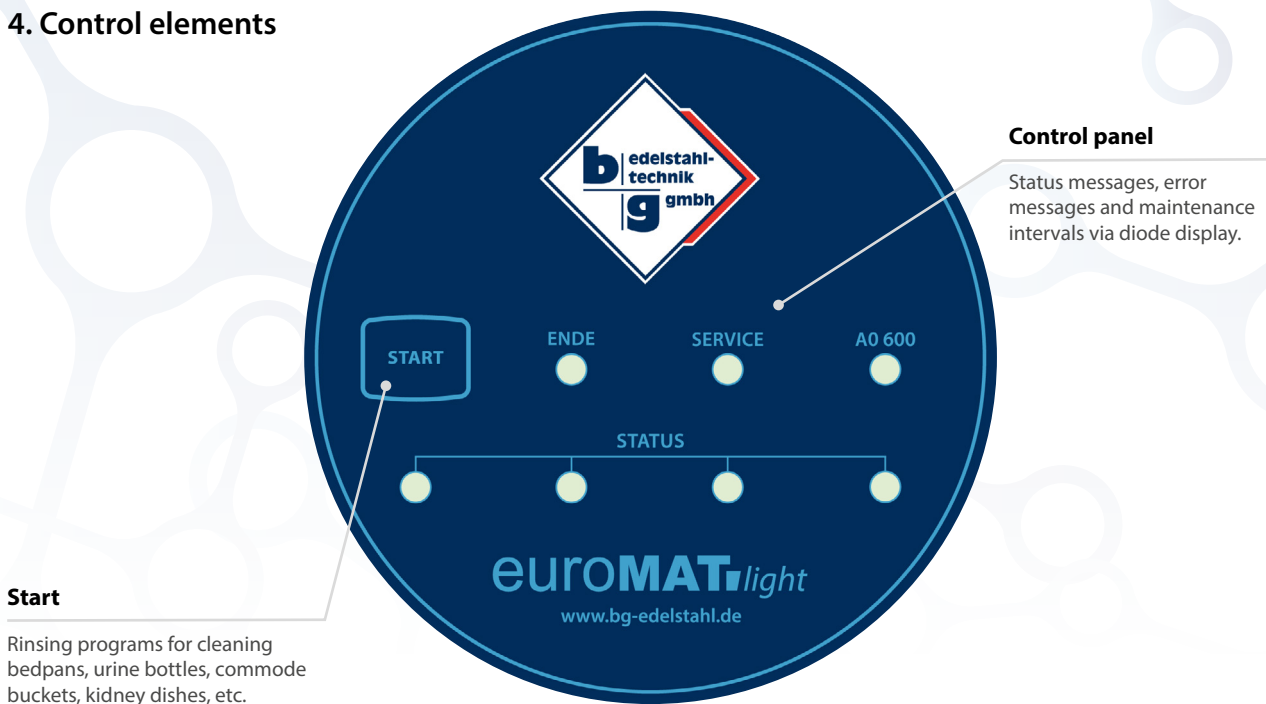
⚠ Adjust the decalcifying liquid to the relevant local water hardness. In the event of failure to comply with this instruction, disinfection cannot be guaranteed under certain circumstances, and the warranty claim shall be rendered void!

3.2 Requirements for the functional area (unclean working area / faecal area)

The design of the functional areas (particularly the unclean working area) is subject to the relevant federal state's or country's state building regulations and the local regulations. In addition, the operator of a bedpan cleaning unit is required to design the environment in such a way that contamination of the cleaned and disinfected dishes is prevented. This means, for example, that bedpans or other reusable dishes containing human waste must not be stored openly in an unclean working area. In particular, the air being contaminated with germs due to possible wind / draught air must be taken into account in this respect. The operator must ensure that they have sufficient bedpan cleaning units available to guarantee rapid cleaning and disinfection of the dishes. Furthermore, no dirty laundry of any kind may be stored in this room. Cleaning utensils such as buckets, floor cloths or mops must not be stored or dried in this room. The hygienist or the appointed specialist is responsible for maintaining a clean environment. Their instructions must be followed according to the manual and hygiene plan to avoid cross-infections.



4. Control elements



4.1 Operation

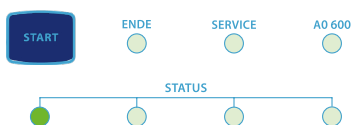
Below, you will be provided with a detailed guide to the steps to be taken to achieve an optimum cleaning and disinfection result. Please read through each of the steps described carefully and follow the advice and instructions for use.

4.2 Commissioning

Prior to each cleaning cycle, you should routinely check some things. The check only takes a few seconds, but saves you the bother of annoying and time-consuming troubleshooting later on.

- Check the cleaning chamber, rinsing nozzles and the rotary rinsing arm for paper residue, dirt and such like.
- Check the rotary rinsing arm for ease of movement. It must be possible to rotate the rinsing arm by hand without any difficulty.
- Check the drain for paper residue, dirt or blockages and remove / rectify them.

Use the text display to check whether the unit is ready for operation.



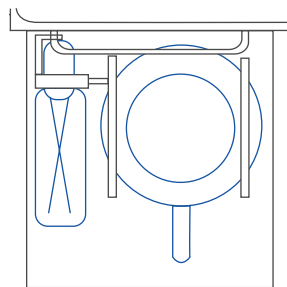
- Check whether the rinsing chamber door is easy to open and close.

If any of the above points are not met and you are unable to correct the deviation yourself, please notify the manufacturer and do not use the unit until the issue has been rectified.

4.3 Loading

Now that you have briefly checked that the unit is ready for operation, you can begin the cleaning process. For this purpose, the dishes with contents are inserted into the holder located on the inside of the cleaning chamber door.

- Avoid flushing in larger quantities of pulp, as otherwise there is a risk of drain blockage and a worse cleaning result should be expected!
- Only use dishes that are suitable for their intended use as a medical device (holding bodily excretions) and carry the CE mark as a medical device. Only then can you be sure that the unit will not be damaged!



If, for any reason, the dishes do not fit properly into the holder, do not load the rinsing chamber with the dishes in question. Urine bottles are pushed (with the opening to the front) through the retaining ring on the left-hand side as far as the stop. Bedpans and commode buckets are pushed into the holder with the opening facing upwards. The lid of the bedpan

can also be inserted into the holder (the lid handle points towards the cleaning chamber door). The dishes are emptied automatically when the door is closed. Select the desired program on the control element once the chamber door has been closed.

4.4 Description of the programs

The door is locked throughout the entire cleaning process and cannot be opened until cleaning, disinfection and cooling are all complete. The selected program is indicated by an LED in the relevant keyboard icon. The door remains locked if an error occurs. **Caution!** The door gets slightly warmer during the disinfection stage. However, there is no risk of burns in the event of contact. The door handle remains at approximately room temperature even when in continuous use.

4.4.1 The standard program

Please use the standard program for cleaning and disinfecting bedpans or commode buckets with normal levels of soiling. It has an average rinsing time with the same disinfection performance.

The following parameters are programmed as standard:

	A0 600
Hot water consumption	Approx. 9 litres
Cold water consumption	Approx. 18 litres
Power consumption	Approx. 0.300 kWh



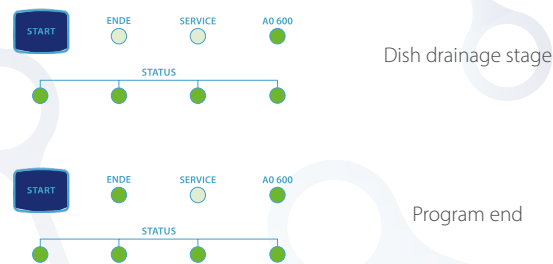
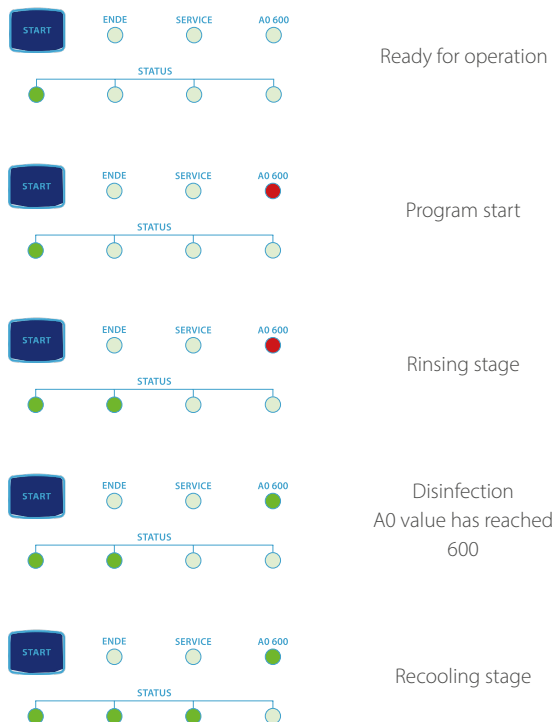
The authorised specialist reserves the right to change these parameters. However, they can be changed on request. The manufacturer offers training (for a fee) in this respect.

4.5 Notifications on the display

4.5.1 Operating notifications

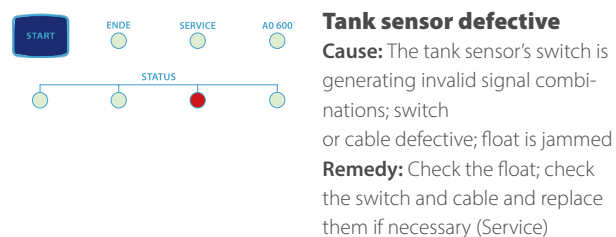
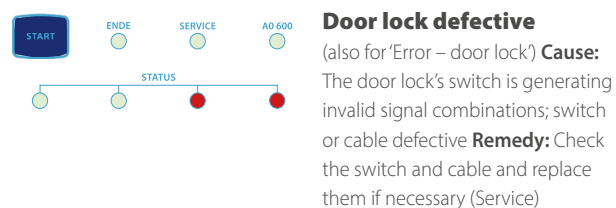
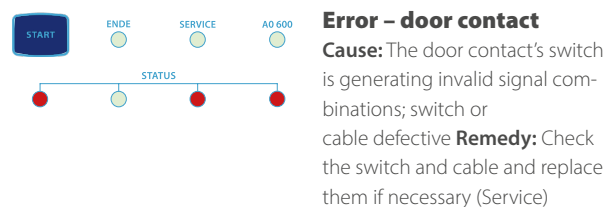
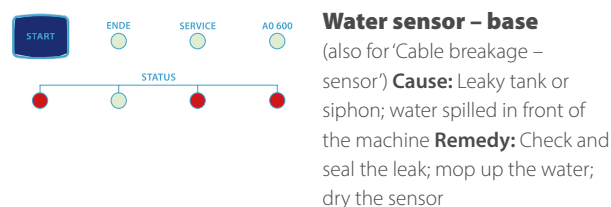
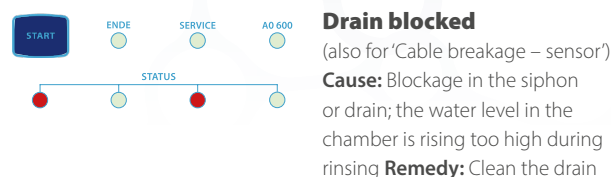
In error-free operation, the individual stages of the selected program can be followed in the text display.

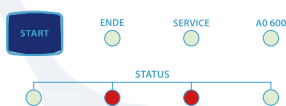
Here is a list of the possible messages and what they mean:



4.5.2 Error messages

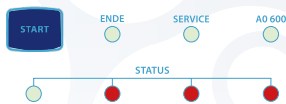
The following notifications may appear if an error occurs or if there is an impending shortage of equipment (euroMATIC):





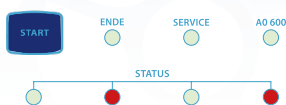
No cold water supply

Cause: Valve or activation defective; cable defective; water tap turned off **Remedy:** Check the water tap. Check the valve / cable (Service). Potential time-out; increase the value in the Service menu



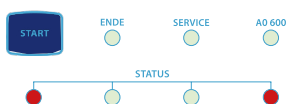
No hot water supply

Cause: Valve or activation defective; cable defective; water tap turned off **Remedy:** Check the water tap. Check the valve / cable. Potential time-out; increase the value in the Service menu (Service)



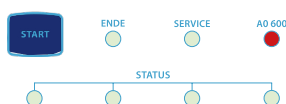
Tank is not emptying

Cause: The pump is jammed / defective or the activation is defective **Remedy:** Check the pump and activation. Potential time-out; increase the value in the Service menu (Service)



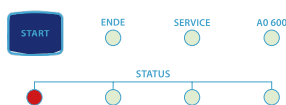
Heating defective

Cause: The set temperature is not reached. A temperature fuse may have tripped; the activation may be defective; the mains voltage may be too low; steam may be escaping **Remedy:** Check the temperature fuse on the heating element; check the activation (Service)



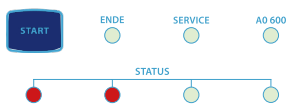
A0 value not reached

Cause: Temperature or time-out set too low **Remedy:** Increase the target temperature or time-out



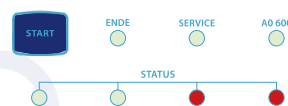
UV lamp defective

Cause: The lamp's current sensor is not detecting current flow **Remedy:** Check / replace the lamp. The control unit may be defective (Service)



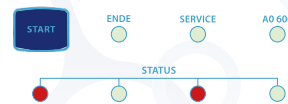
Temperature sensor defective

Cause: Different temperatures $> +3^{\circ}\text{C}$ between processor and co-processor, or co-processor is not responding **Remedy:** Check the sensor and cable; replace the controller (Service)



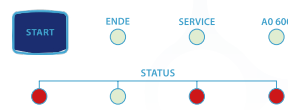
Error – deadbolt

(also for 'Error – door lock') **Cause:** The door cannot be locked; the magnet or tappet is blocked **Remedy:** Close the door correctly; adjust the mechanics if necessary



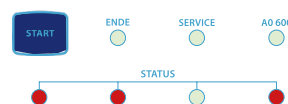
Water sensor – drain defective

(also for 'Drain blocked') **Cause:** Cable to the water sensor in the siphon broken **Remedy:** Check the cable (Service)



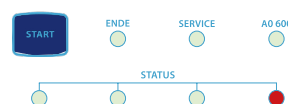
Water sensor – base defective

(also for 'Water sensor – base') **Cause:** Cable to the water sensor at the base broken **Remedy:** Check the cable (Service)



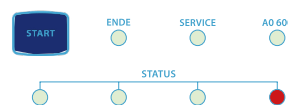
Close the door IMMEDIATELY

(also for 'Water inlet valve defective') **Cause:** The tank is filled higher than the setpoint (inlet valve defective) or automatic 24 h disinfection is on. **Remedy:** Close the door



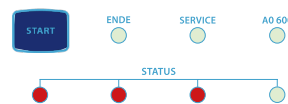
Rinse aid empty

(also for 'Descaler empty') **Cause:** The canister is empty **Remedy:** Replace the canister once the program has ended



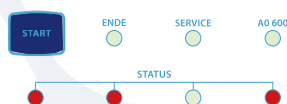
Descaler empty

(also for 'Rinse aid empty') **Cause:** The canister is empty **Remedy:** Replace the canister once the program has ended



Disinfectant empty

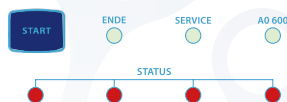
Cause: The canister is empty **Remedy:** Replace the canister once the program has ended



Water inlet valve defective

(also for 'Close the door immediately') **Cause:** The tank is filled higher than the setpoint (inlet valve or activation defective)

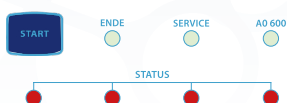
Remedy: Turn off the water tap; check the valve or activation (Service)



Error – SD card

(also for 'Software error')

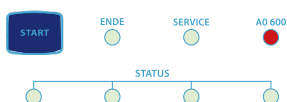
Cause: The SD card is not writable or not present **Remedy:** Check the SD card (Service)



Internal software error

(also for 'Error – SD card') **Cause:** The check of the processor's internal ROM or RAM has failed

Remedy: Reprogram; replace the controller



Automatic 24 h cleaning

Cause: Automatic 24 h cleaning is currently in progress **Remedy:** Wait until the cycle is complete
Display: A0 LED is flashing

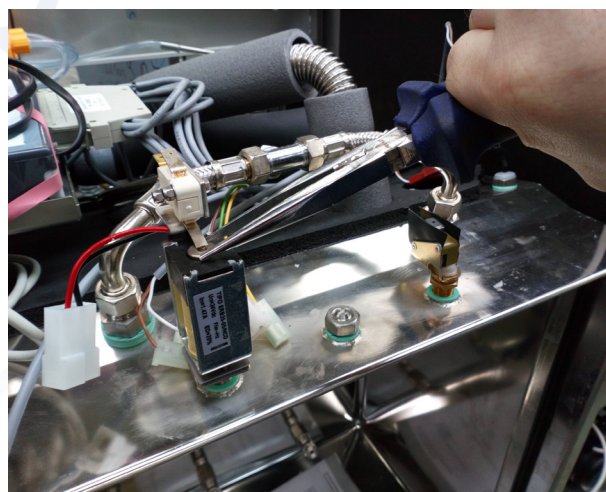
4.6 Program end and unloading

If none of the above error messages are visible in the text display once the entire cycle has ended, the cleaning program has been completed successfully. The door is locked throughout the entire cleaning process and cannot be opened until cleaning, disinfection and cooling are all complete. The dishes then have a temperature of 40°C. They can be removed and used immediately. The dishes should then be visually inspected to check the cleaning performance. After the inspection, the dishes should be stored properly to avoid recontamination.

Otherwise, if faults occurred, the door lock is not released and a new program is started. This is the case, for example, when the power fails during the cleaning cycle. If there is a serious error that prevents a process from being repeated, the door remains locked and the service technician must be notified.

4.6.1 Mechanical unlocking during a power failure

Open the top revision panel. Pull the tappet upwards slightly using pliers (figure).



Attention! Since it cannot be guaranteed that the care equipment has been sufficiently disinfected, clean and disinfect it again.

5. Warranty / guarantee

Unless agreed otherwise, the warranty / guarantee (which covers the design, material and manufacture) corresponds to the manufacturer's General Terms and Conditions. The warranty claim shall become void in the event of improper use, failure to observe the care and maintenance instructions, unit failure caused by contamination in the inlet and outlet pipework due to improper use, or external influences. Only a non-foaming agent, which you can also purchase from the manufacturer, may be used as a lime binder. The manufacturer recommends euroMATIC in the variants pH neutral or pH acid. The warranty claim shall become void if unsuitable agents are used.

6. Maintenance and care

Maintenance work

- The surface of the euroMAT basic bedpan cleaning unit should be treated with the manufacturer's stainless steel care oil. It can be applied as required.

- Before and after the cleaning process, the chamber must be checked for the presence of foreign matter and dirt.

Attention! No toilet cleaner or other unauthorised chemicals may be put in the rinsing chamber.

- Check the rotary rinsing arm for ease of movement on a regular basis. It must be possible to rotate the rinsing arm by hand without any difficulty.
- Check the rinsing nozzles and the steam outlet for foreign matter or blockages on a regular basis

Servicing work

Servicing work may only be carried out by trained medical device service technicians who have received training on the units and who comply with the safety regulations.

Please proceed as follows to obtain the unit information listed below:

1. Open the rinsing chamber door
2. Press and hold the Start button

The following information is displayed in order after approx. 2 seconds:

- a) Batch counter status
- b) Next maintenance
- c) Last A0 value determined
- d) Date and time
- e) Chamber temperature
- f) Controller's and display's software versions

To ensure that the cleaning unit works faultlessly, the law stipulates that regular maintenance must be carried out at least once a year. During the warranty period, the bedpan cleaning unit must be maintained in accordance with the manufacturer's specifications after every 5,000 rinsing cycles (the maintenance message will appear in the text display) or once a calendar year has ended. Once the warranty period has elapsed, in addition to performing annual maintenance we recommend inspecting the bedpan cleaning unit every six months. The maintenance schedule and the proof of maintenance for logging maintenance work form part of this operating manual and can be found on subsequent pages.

Calibration

Disconnect the chamber temperature sensor and connect the supplied calibration plug. Press the button with the door open. The display shows the temperature – it should be $87^{\circ}\text{C} \pm 1^{\circ}\text{C}$.



Required equipment

- Unit tester (e.g. from Benning)
- Programming unit
- External temperature measuring device (DAkkS calibrated)
- Data logger (recommendation: from ebro)

Steps for carrying out calibration

1. Connect the programming unit to the 'pro' D-Sub port.
2. When switching on the programming unit, press the letter 'b' and then the red arrowhead in the logo.
3. Attach the external temperature measuring device (sensor) to the bedpan cleaning unit's existing temperature sensor at the same height.
4. Let the cleaning unit rinse twice before the measurement to heat up the unit. To do this, please use the short rinsing program in the display (urine bottle).
5. Start the short rinsing program.
6. If the temperature displayed on the programming unit's control

panel is $85^{\circ}\text{C} - 87^{\circ}\text{C}$, the value on the external measuring device must be noted simultaneously (within one second), otherwise the result is falsified.

7. Wait for the rinse cycle to end.
8. Switch off the programming unit.
9. Switch on the unit and select the 'Calibration' item in the menu.
10. Now enter the noted value from the programming unit's display under the 'Displayed temperature' item (control panel) using the keyboard that appears on the touch panel and confirm with 'OK'.
11. Then enter the noted value from the external measuring device under the 'Measured temperature' item (external measuring device) using the keyboard that appears on the touch panel and confirm with 'OK'.
12. Finally, press the 'Save button' on the programming unit.
13. Now go back to the main menu with the arrow key.
14. Calibration is now complete; the data has now been transferred.
15. Switch off the programming unit, disconnect it from the controller box and restore the original state.
16. Finally, perform a test rinse. Please run a temperature logger (A0 value) for checking during this process.
17. At the end of the test rinse, the A0 value on the cleaning unit and the A0 value on the logger must be almost identical, taking a small tolerance (+ 10%) into account.
18. If this is not the case, the process must be repeated until the A0 values are almost identical.

6.1 Warehousing / storing a bedpan cleaning unit

The operator / client is responsible for properly warehousing / storing a bedpan cleaning unit. With regard to storing a euroMAT bedpan cleaning unit, ensure that the room temperature is 20°C and the humidity is less than 2% to avoid oxidation and diffusion on electronic components (this applies explicitly to units that are not in operation). A sample solution would be to use a moisture protection bag with an appropriately sized bag of desiccant. There should be a vacuum with a residual pressure of 6 mbar in the moisture protection bag. This bag is then flooded with nitrogen so that oxidising agents or electrolytes are no longer present. The unit must be stored in a dust-free, dry and upright state. It is also imperative to ensure that the unit is secured so that it cannot topple over. Prior to recommissioning, a comprehensive functional test must be carried out in accordance with qualified commissioning as per the manufacturer's specifications and statutory requirements. When used in an unclean working area, the bedpan cleaning unit should ideally be stored at a room temperature of 21°C with the lowest possible relative humidity.

6.2 Maintenance schedule

The following parts must be inspected, cleaned and (if necessary) replaced during annual maintenance.

Abbreviations: I = Inspect C = Clean R = Replace V = Verification CA = Calibration

Part \ Year of operation	1	2	3	4	5	6	7	8	9	10
CW supply hoses	I	I	I	I	R	I	I	I	I	R
HW supply hoses	I	I	I	I	R	I	I	I	I	R
Existing dirt strainers	C	C	C	C	C	C	C	C	C	C
Solenoid valves	I	I	I	I	R	I	I	I	I	R
Rinsing chamber / pipe	C	C	C	C	C	C	C	C	C	C
Rinsing impeller	I	I	I	I	I	I	I	I	I	I
Clip-on device	I	I	I	I	I	I	I	I	I	I
Door spring / bearing	I	I	I	I	I	I	I	I	I	I
Rinsing chamber door monitoring device	I	I	I	I	I	I	I	I	I	I
Door lock	I	I	I	I	I	I	I	I	I	I
Door seals	I	I	I	R	I	I	I	R	I	I
Water storage tank	I/C	R	I/C	R	I/C	R	I/C	R	I/C	R
Steam generator	I	I	I	I	I	I	I	I	I	I
Flex hose	R	R	R	R	R	R	R	R	R	R
Dosing pump	I	I	I	I	I	I	I	I	I	I
Descaling agent according to the manufacturer's dosing instructions ¹	I	I	I	I	I	I	I	I	I	I
Suction lance	I	I	I	I	I	I	I	I	I	I
Suction hose ²	I	R	I	R	I	R	I	R	I	R
Tank level sensor	I/C	I/C	I/C	I/C	I/C	I/C	I/C	I/C	I/C	I/C
Capacitor	-	-	-	R	-	-	-	R	-	-
Booster pump	I	I	I	I	I	I	I	I	I	I
Cleaning nozzles	I/C	I/C	I/C	I/C	I/C	I/C	I/C	I/C	I/C	I/C
Siphon / monitoring device	I	I	I	I	I	I	I	I	I	I
Controller	I	I	I	I	I	I	I	I	I	I
Control panel	I	I	I	I	I	I	I	I	I	I
UV Lamp ³	I/C	I/C	I/C	R	I/C	I/C	I/C	R	I/C	I/C
Reducing rubbers for UV lamp and steam vent	I/C	I/C	I/C	R	I/C	I/C	I/C	R	I/C	I/C
Temperature sensor	CA	CA	CA	CA	CA	CA	CA	CA	CA	CA
Spring-loaded pressure piece	R	R	R	R	R	R	R	R	R	R
Disinfection A0 = 600	I	I	I	I	I	I	I	I	I	I
DGUV V3	I	I	I	I	I	I	I	I	I	I
Unit function	I	I	I	I	I	I	I	I	I	I

1. Adjust the dosage of the suitable coating inhibitor to the water hardness according to the unit manufacturer's and agent manufacturer's specifications. Check the descaling agent's shelf life.

2. When checking the suction hose, ensure that you use a neutral coating inhibitor in accordance with the manufacturer's specifications in this manual. The hose must be replaced if there is any noticeable hardening.

3. Every 4 years after initial commissioning, or every 20,000 rinsing cycles.

6.3 Proof of maintenance

The following tasks were carried out during maintenance work. **Abbreviations:** I = Inspect C = Clean R = Replace V = Verification CA = Calibration

Year of operation Part	1	2	3	4	5	6	7	8	9	10
CW supply hoses										
HW supply hoses										
Existing dirt strainers										
Solenoid valves										
Rinsing chamber / pipe										
Rinsing impeller										
Clip-on device										
Door spring / bearing										
Rinsing chamber door monitoring device										
Door lock										
Door seals										
Water storage tank										
Steam generator										
Flex hose										
Dosing pump										
Descaling agent according to the manufacturer's dosing instructions ¹										
Suction lance										
Suction hose ²										
Tank level sensor										
Capacitor										
Booster pump										
Cleaning nozzles										
Siphon / monitoring device										
Controller										
Control panel										
UV Lamp ³										
Reducing rubbers for UV lamp and steam vent										
Temperature sensor										
Spring-loaded pressure piece										
Disinfection A0 = 600										
DGUV V3										
Unit function										
Date										
Signature										

6.4 Uninstalling / disposal

Please proceed as follows to uninstall the bedpan cleaning unit:

- Unplug the mains plug.
- Switch off the water supply (indoor installation).
- Empty the rinsing chamber if necessary.
- Loosen the unit fastening.
- Loosen the drain pipe. Pay attention to residual water in the drainage channel.
- Disconnect the water supply hoses from the building connection.
Empty any residual water!
- The bedpan cleaning unit can now be removed.
- Electronic components, plastics and metals must be disposed of separately – please observe the regional disposal regulations in this respect!

7. Spare parts

7.1 Electrical parts

Controller box (power unit incl. controller)	Item no.: 0001314
Adapter board for connecting the operating film and D-Sub cable	Item no.: 0001324
Cable set (floor-standing unit)	Item no.: 0001316
Floor sensor	Item no.: 0001317
Emergency stop button	Item no.: 0001012
Module contacts for emergency stop	Item no.: 0000689
Descaler suction lance	Item no.: 0001008
Operating film	Item no.: 0001325
Tank level sensor	Item no.: 0001313
Evaporator unit, SS, complete	Item no.: 0000871
Flex hose pump	Item no.: 0000847
Flex hose cartridge	Item no.: 0000534
Booster pump	Item no.: 0000067
Motor capacitor	Item no.: 0000033
Temperature sensor	Item no.: 0001258
Door lock	Item no.: 0001201
Rinsing chamber monitoring device	Item no.: 0001329
24 V DC double solenoid valve	Item no.: 0000664
UV Lamp	Item no.: 0000169
Siphon / monitoring device, complete	Item no.: 0000172
4 GB SD card	Item no.: 0001333
15-pin D-Sub cable	Item no.: 0001265

7.2 Installation materials

Rinsing impeller	Item no.: 0000091
Urine bottle nozzle, full jet, plastic	Item no.: 0000199
Ceiling nozzle, full cone, stainless steel	Item no.: 0000084
Cold or hot water supply hoses	Item no.: 0000085
Ceiling nozzle distributor	Item no.: 0000086
DN 100 siphon	Item no.: 0000089
DN 100 siphon sleeve	Item no.: 0000090
Rinsing pipe made of plastic	Item no.: 0000704
Screw-in connection, 22x3/4" OT	Item no.: 0001178
Corrugated pipe steam line	Item no.: 0000045
SS steam pipe kit	Item no.: 0000119
30 / 50 reducing rubber	Item no.: 0000551

7.3 Mechanical parts

Door spring	Item no.: 0000073
Door mounting plate for repair	Item no.: 0000074
Spring-loaded pressure piece	Item no.: 0000072
Labyrinth door seal	Item no.: 0000001
Bottom door seal	Item no.: 0000150

Spare parts can only be ordered from the manufacturer or one of its sales partners by stating the item number. Only original spare parts may

be used, otherwise safety and hygienic success cannot be guaranteed.

Technical data

euroMAT basic is monitored – compliant – inspected in accordance with:

- Medical Devices Directive
- DIN EN ISO 15883 Parts 1 and 3
- System separation in accordance with DIN EN 1717
- Hygiene certificates based on DIN EN ISO 15883

7.4 Disinfection

The euroMAT light units are exclusively equipped with decentralised, thermal disinfection. The dishes and the entire rinsing chamber are disinfected once cleaning is complete.

START

7.5 Chemical consumption

The unit only requires a lime binder. It is tailored to the euroMATIC product, which can be purchased from the manufacturer or one of its sales partners. Alternatively, euroMATIC pH acid can be used depending on the °dH (water hardness). Please note: An agent with an acidic pH must be used from a water hardness of 12°dH.

If other agents that are not approved by the manufacturer are used, the warranty shall become void and even hygienic success cannot be guaranteed.

7.6 Electrical data

Electrical connection: 230 V, 50 Hz, equipotential bonding cable (mandatory).

Protection class:	1
Unit protection type:	IPX1
Controller protection type:	IP21
Power consumption:	Approx. 3.0 kW
Energy consumption:	Standby approx. 0.002 kWh Edge rinsing approx. 0.010 kWh Short program approx. 0.275 kWh Standard program approx. 0.300 kWh Intensive program approx. 0.325 kWh
Rinsing:	

7.7 Noise emission

The workplace level is 45.3 dB (A)

The accuracy class 2 measurement was conducted in accordance with ISO 11203:195 and ISO 3744:2010.

7.8 Water

Connections as per the German Drinking Water Ordinance:	½ " cold water ½ " hot water, 70°C inflow DN 100 outflow
--	--

Flow pressure:	Minimum 100 kPa Maximum 1000 kPa
-----------------------	-------------------------------------

Water consumption:	Edge rinsing 5 l cold water
---------------------------	-----------------------------

Rinsing:		
Kurzprogramm	21,8 l cold water	11,7 l hot water
Normalprogramm	29,9 l cold water	13,3 l hot water
Intensivprogramm	37,9 l cold water	18,0 l hot water

7.9 Dimensions and weight

W x H x D: 496 x 1305 x 500 mm, weight: 65 kg

8. Medical devices book

8.1 Unit master data

Nature and type	
Serial number Heating number	
Year of acquisition	
Initial commissioning (MM/YYYY)	
Manufacturer	
Supplier	
Company ID number	
Location and operational assignment	
Deadlines for safety checks (see sticker on the product)	

8.2 Functional test and briefing

Inventory no. _____

Functional test

On: _____

By: _____

Briefings

Person responsible: _____

Time	Manufacturer / supplier	Name of the person responsible for the briefing	Signature

8.3 Briefing staff

Time	Person providing the briefing	Name of the person briefed	Signature

8.4 Malfunctions or repeated similar operating errors

Inventory no. _____

Time	Description of nature and consequences

8.5 Malfunctions or repeated similar operating errors

Inventory no. _____

Time	Description of the reported incident

Installation and commissioning log

IMPORTANT! Please fill out this log carefully and RETURN IT to the manufacturer or to the relevant sales partner!

Postal address:

Name of the company: _____ Contact: _____
Street / no.: _____ Postcode / Town/city: _____
Serial number: _____ Unit location: _____
Unit type / designation: _____

Installation:

Yes

No

Unit installed Housing

☐☐

not defective

☐☐

Hot and cold water connected Drainage

☐☐

pipework connected Schuko plug

☐☐

plugged into socket

☐☐

Equipotential bonding cable connected to housing Water

☐☐

hardness checked

☐☐

Water hardness (degrees in dH) _____

Dosage time (descaler) _____

Used descaler agent (please indicate the manufacturer) _____

Functional test:

Water inlet checked for leaks

☐☐

Cold water pipework checked for leaks

☐☐

Drainage pipework checked for leaks

☐☐

Functional test of short program

☐☐

Functional test of standard program

☐☐

Functional test of intensive program

☐☐

Functional test of edge rinsing (if present)

☐☐

A0 value reached Short

_____ A0

Temp/sec.

Standard

_____ A0

Temp/sec.

Intensive

_____ A0

Temp/sec.

Installation company: _____ Name of the installer: _____

Date of installation: _____ Signature / stamp: _____



The measurement logs (DGUV V3 electrical test / hygiene test / temperature test) must be attached to this log.



[illegible]

A sheet of white paper with horizontal ruling lines. In the top left corner, there is a faint, light blue abstract pattern consisting of interconnected circles and lines, resembling a molecular or network structure. The pattern is more dense in the top left and fades towards the right and bottom. The rest of the page is covered by evenly spaced horizontal lines.

10. Important addresses

Inventory no. _____

Notify the person responsible for operating the unit if faults occur:

Name: _____

Phone: _____

Technical Service:

Name: _____

Phone: _____

Emergency call:

Name: bg edelstahl und kunststofftechnik für krankenhaushaus,
industrie und wasserwirtschaft gmbh

Phone: +49 (0) 23 68 - 699 36 - 0

Instructions for use stored with:

If accidents involving personal injury occur:

Notify: _____

Phone: _____

Fax: _____

Notify:

Name: bg edelstahl und kunststofftechnik für krankenhaushaus,
industrie und wasserwirtschaft gmbh

Phone: +49 (0) 23 68 - 699 36 - 0

Fax: +49 (0) 23 68 - 699 36 - 33

Manufacturer and person responsible as per § 5 of the German Medical Devices Act:

bg edelstahl und kunststofftechnik für krankenhaushaus,
industrie und wasserwirtschaft gmbh

Karlstraße 18
45739 Oer - Erkenschwick

Phone: +49 (0) 23 68 - 699 36 - 0

Fax: +49 (0) 23 68 - 699 36 - 33

E-Mail: service@bg-edelstahl.de

CE 0044



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