Perfect hygiene and convenience
Erlen – the company

Erlen GmbH is a medium-sized, owner-managed family company in medical technology. In recent years, we have specialised in two business areas:

**erlen med**

In the erlen med business area, hygiene means everything: Hygiene technology for the hospital ward and the old age or nursing home, decentralised instrument reprocessing in medical practices and also for established doctors. Bedpan washer-disinfectors, systems for instrument reprocessing and the safe disinfection of utensils in the ward kitchen form the core of our technology. In addition come comprehensive technical services and financing solutions, both for our own products and across all manufacturers. For your individual requirements and budget, we combine machines and equipment from our own manufacture and from external suppliers, and connect these together through an exceptional level of service.

**erlen tec**

The erlen tec business area represents innovative technologies and engineering services: Customer-specific development and production of electronic measurement and control technology for equipment manufacturing. Engineers and specialists in different areas are available to you for engineering, prototype construction, and series production.

We score in both areas, thanks to our experience, customer closeness, and an attractive pricing policy:

**Experience**
- Certified to DIN EN ISO 13485 and ISO 9001:2008 for cleaning and disinfection machines
- 30 years of in-house development and manufacture of disinfection machines and hygiene technology for hospitals
- 25 years of our in-house technical customer service

**Customer closeness**
- Service support points throughout Germany, with qualified specialists
- Customer service technicians in your area
- Fastest possible reaction times
- 100 % “fixed first time” quota as our goal
- Individual reaction times possible

**Pricing policy**
- As a medium-sized company, we are able to offer more attractive pricing than many “industry giants”.
- Our focus is oriented towards long term partnership.
- We offer transparent and fair conditions.
Bedpan washer-disinfectors

For more than 30 years we have developed and produced products for equipment construction, particularly for hygiene technology. Through our increasing activity in the area of cleaning and disinfection machines, we have specialised in the manufacture of complete functional systems for this technology in unclean working areas.

Our machines are characterised by quality, a long working life, and efficient consumptions. They are pieces of certified medical equipment complying with the current European standards.

Find out on the following pages, on the internet at www.erlen.de or from us personally.

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MADE IN GERMANY

erlen med
HYGIENE · TECHNOLOGY · SERVICE
### Equipment characteristics

#### CT 100 series bedpan washer and disinfection machines

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<td>Approved to EN 15883-1 and 15883-3</td>
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<tr>
<td>A0 value can be set as desired</td>
<td>●</td>
<td>●</td>
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<td>Dual A0 monitoring with alarm</td>
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<td>Thermal system - self-disinfection</td>
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<tr>
<td>Washing programmes can be set as desired</td>
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<td>Temperature sensors can be calibrated</td>
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<td>Tank overflow protection in the washing chamber</td>
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<td>Plain language display</td>
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<td>Power supply 230 Volt/16 A/3 KW</td>
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<td>Low voltage valves</td>
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<td>Infinitely variable thermal disinfection with continuous steam flow</td>
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<td>●</td>
<td>●</td>
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<td>DN 90 outlet [vertical or horizontal as desired]</td>
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<td>Floor wetness sensor</td>
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<td>Siphon monitoring</td>
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<td>Collection pipe</td>
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<td>Steam-tight washing chamber with circumferential seal</td>
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<td>Semi-automatic door opening with foot switch1</td>
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<td>Connection to in-house or central steam</td>
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<td>Dosing system for grease remover or intensive cleaner</td>
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<td>“E” high performance cleaning system with stainless steel rotary nozzles and controlled pressure distribution</td>
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<td>Wall mounting</td>
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<td>“R” rim flushing function via switching valve</td>
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<td>RAL powder coating</td>
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<tr>
<td>Wash hand basin</td>
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<tr>
<td>Cover with ridged edge</td>
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<td>Single-lever mixer tap</td>
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<td>WC installation-ready</td>
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<td>Flushing system for WC</td>
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<td>●</td>
</tr>
<tr>
<td>Waste water outlet at side, with cover</td>
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<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
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<tr>
<td>in 450 mm width</td>
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<td>●</td>
<td>●</td>
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<td>●</td>
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<tr>
<td>in 500 mm width</td>
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<td>Operation via separate tank system2</td>
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<td>●</td>
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<tr>
<td>Single lever mixer tap for the cover</td>
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<td>●</td>
<td>●</td>
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<td>●</td>
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</tr>
<tr>
<td>Machine and batch documentation with DataBox</td>
<td>●</td>
<td>●</td>
<td>●</td>
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<td>and DataLAN/DataW-LAN</td>
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<td>●</td>
<td>●</td>
<td>●</td>
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<td>●</td>
</tr>
<tr>
<td>and matrix printer for on-the-spot documentation</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
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</tr>
<tr>
<td>EuroCompakt software and interface for PC-supported machine monitoring</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
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</tr>
</tbody>
</table>

**Key:**  ● Basic version  ● Option — Not possible

1 Option possible only for vapour-tight washing chamber
2 Option for 500 mm width

Technical modifications and errors reserved.
Standing unit

**CT 100 S 1.45**

Standing unit for all applications in hospitals and nursing facilities. It is possible to extend this to create a nursing care combination. The mechanical components can be accessed via the lockable upper cover.

**Product information:**

Bedpan cleaning and disinfection system for cleaning and disinfecting all types of care utensils in a single work cycle. Approval pursuant to DIN EN 15883-1 and 3.

Reprocessing is carried out by means of decentralised thermal disinfection, and includes a dosing unit for a water softener. Automatic door locking and safety monitoring ensure operator safety. A high level of operating convenience is achieved by one-touch keys for three programmes:

- Short cycle for three urine bottles (with reduced water consumption)
- Normal cycle for bed pans or commode buckets plus one urine bottle
- Intensive cycle, specially for heavy soiling

The display provides in plain language all the information required for care and maintenance (operating instructions, error messages, servicing, and achieved A0 values). In addition, the system carries out a self-disinfection programme at freely-selectable intervals to fulfil the guidelines set out in DIN EN ISO 15883-3.

All the technical components, with the exception of the pumps and steam generators, are designed in 24 volt technology. This low voltage makes it possible to inspect, for example, the door contact, the dosing pump, or the solenoid valves while the machine is in operation, without risk of injury. It is possible to program customer-specific requests for the operation of the disinfection programmes and service checks in a user-friendly manner, either via the control panel or a PC interface – including of course modifying the desired A0 values. The internal recording of the processes and automatic maintenance requests ensures operational safety. As a standard feature, the machine can be locked to prevent unauthorised operation.

The standard ten-jet rinsing system provides superb cleaning results without shadow zones, thanks to its tried and tested jet blade and its ceiling and urine-bottle nozzles.
Standing unit

CT 100 S 1.70

A convenient standing unit for discerning customers. The mechanical components can be accessed via a lockable, double-shelled door. The continuous internally located handle creates a high-quality steel equipment look. It is possible to extend the machine to create a nursing care combination.

Product information:
Bedpan cleaning and disinfection system for cleaning and disinfecting all types of care utensils in a single work cycle. Approval pursuant to DIN EN 15883-1 and 3.

For product information see CT 100 S 1.45

Technical data for standing units CT 100 S 1.45 and 1.70:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>CT 100 S 1.45</th>
<th>CT 100 S 1.70</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>230 V</td>
<td>230 V</td>
</tr>
<tr>
<td>Power rating</td>
<td>3000 W</td>
<td>3000 W</td>
</tr>
<tr>
<td>Fuse</td>
<td>separate 16 A fuse</td>
<td>separate 16 A fuse</td>
</tr>
<tr>
<td>Protection class</td>
<td>I/IP 20</td>
<td>I/IP 20</td>
</tr>
<tr>
<td>Hot water temperature</td>
<td>max. 70°C</td>
<td>max. 70°C</td>
</tr>
<tr>
<td>Pressure range, water inflow</td>
<td>100 to 1000 kPa</td>
<td>100 to 1000 kPa</td>
</tr>
<tr>
<td>Disinfection</td>
<td>Thermal 80 to 95 °C</td>
<td>Thermal 80 to 95 °C</td>
</tr>
<tr>
<td>Pump power</td>
<td>370 W</td>
<td>370 W</td>
</tr>
<tr>
<td>Noise generation</td>
<td>max. 70 dBA</td>
<td>max. 70 dBA</td>
</tr>
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</table>

Requirements at installation location:

<table>
<thead>
<tr>
<th>Requirement</th>
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<th>CT 100 S 1.70</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water connection</td>
<td>Cold and hot water connection</td>
<td>Cold and hot water connection</td>
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<tr>
<td></td>
<td>3/4&quot; external thread, flat seal</td>
<td>3/4&quot; external thread, flat seal</td>
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<tr>
<td></td>
<td>All water connections to be fitted with stop valve</td>
<td>All water connections to be fitted with stop valve</td>
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<tr>
<td></td>
<td>Outlet DN 90 or 100</td>
<td>Outlet DN 90 or 100</td>
</tr>
<tr>
<td>Electrical connection</td>
<td>Plug 230 V/16 A</td>
<td>Plug 230 V/16 A</td>
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<tr>
<td></td>
<td>Earth leakage circuit-breaker with</td>
<td>Earth leakage circuit-breaker with</td>
</tr>
<tr>
<td></td>
<td>max. rated residual current 30 mA</td>
<td>max. rated residual current 30 mA</td>
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<tr>
<td></td>
<td>Electrical installation in accordance</td>
<td>Electrical installation in accordance</td>
</tr>
<tr>
<td></td>
<td>with DIN IEC/VDE</td>
<td>with DIN IEC/VDE</td>
</tr>
</tbody>
</table>
Components | CT 100 S (1.45) | CT 100 S (1.70)
--- | --- | ---
Casing, washing chamber, and tank in 1.4301 stainless steel | ● | ●
Approved to EN 15883-1 and 15883-3 | ● | ●
A0 value can be set as desired | ● | ●
Dual A0 monitoring with alarm | ● | ●
Thermal system - self-disinfection | ● | ●
Washing programmes can be set as desired | ● | ●
Temperature sensors can be calibrated | ● | ●
Tank overflow protection in the washing chamber | ● | ●
Plain language display | ● | ●
Safety locking in the event of an error | ● | ●
Control system tested in accordance with EN 61010:2002/2004 | ● | ●
Software evaluation as per EN 60335-1/A1 | ● | ●
Power supply 230 Volt/16 A/3 KW | ● | ●
Low voltage valves | ● | ●
Infinitely variable thermal disinfection with continuous steam flow | ● | ●
DN 90 outlet (vertical or horizontal as desired) | ● | ●
Floor wetness sensor | ● | ●
Siphon monitoring | ● | ●
Collection pipe | ● | ●
Steam-tight washing chamber with circumferential seal | ● | ●
Active drying support | ● | ●
Semi-automatic door opening with foot switch | ● | ●
Connection to in-house or central steam | ● | ●
Dosing system for grease remover or intensive cleaner | ● | ●
"E" high performance cleaning system with stainless steel rotary nozzles and controlled pressure distribution | ● | ●
Wall mounting | ● | ●
"R" rim flushing function via switching valve | ● | ●
RAL powder coating | — | ●
Wash hand basin | — | —
Cover with ridged edge | — | —
Single-lever mixer tap | — | —
WC installation-ready | — | —
Flushing system for WC | — | —
Waste water outlet at side, with cover | ● | ●
in 450 mm width | ● | ●
in 500 mm width | ● | ●
Operation via separate tank system | ● | ●
Single lever mixer tap for the cover | ● | ●
Machine and batch documentation with DataBox | ● | ●
and DataLAN/DataW-LAN | ● | ●
and matrix printer for on-the-spot documentation | ● | ●
EuroCompakt software and interface for PC-supported machine monitoring | ● | ●

Key: ● Basic version | ● Option — Not possible
1 Option possible only for vapour-tight washing chamber
2 Option for 500 mm width

Installation drawing CT 100 S 1.45:

Installation drawing CT 100 S 1.70:
Standing unit into which WC can be integrated

**CT 100 S WC**

This model allows for the installation and operation of a WC at the front. All cleaning technology for this is already integrated into the machine. The seat-height is designed in accordance with the needs of the disabled. The machine can therefore be integrated in a space-saving manner in patients’ bathrooms. In this way, faeces are disposed of in close proximity to their place of origin, thus taking into account current hygienic and aesthetic standards. On request, this model can be adjusted to suit existing room concepts with powder coating in different colours.

The machine can be installed as a free-standing unit, or integrated into an installation wall.

**Product information:**

Bedpan cleaning and disinfection system for cleaning and disinfecting all types of care utensils in a single work cycle. Approval pursuant to DIN EN 15883-1 and 3.

Reprocessing is carried out by means of decentralised thermal disinfection, and includes a dosing unit for a water softener. Automatic door locking and safety monitoring ensure operator safety. A high level of operating convenience is achieved by one-touch keys for three programmes:

- Short cycle for three urine bottles (with reduced water consumption)
- Normal cycle for bed pans or commode buckets plus one urine bottle
- Intensive cycle, specially for heavy soiling

The display provides in plain language all the information required for care and maintenance (operating instructions, error messages, servicing, and achieved A0 values). In addition, the system carries out a self-disinfection programme at freely-selectable intervals to fulfil the guidelines set out in DIN EN ISO 15883-3.

All the technical components, with the exception of the pumps and steam generators, are designed in 24 volt technology. This low voltage makes it possible to inspect, for example, the door contact, the dosing pump, or the solenoid valves while the machine is in operation, without risk of injury. It is possible to program customer-specific requests for the operation of the disinfection programmes and service checks in a user-friendly manner, either via the control panel or a PC interface – including of course modifying the desired A0 values. The internal recording of the processes and auto-
matic maintenance requests ensures operational safety. As a standard feature, the machine can be locked to prevent unauthorised operation.

The standard ten-jet rinsing system provides superb cleaning results without shadow zones, thanks to its tried and tested jet blade and its ceiling and urine-bottle nozzles.

**Technical data:**
- Voltage: 230 V/Power rating: 3000 W
- Fuse: separate 16 A fuse
- Protection class: I/Protection class: IP 20
- Hot water temperature: max. 70°C
- Disinfection: Thermal 80 to 95 °C
- Pump power: 370 W
- Noise generation: max. 70 dBA

**Requirements at installation location:**
- Water connection: Cold and hot water connection 3/4" external thread, flat seal
- All water connections to be fitted with stop valve
- Outlet DN 90 or 100
- Electrical connection: Plug 230 V/16 A
- Earth leakage circuit-breaker with max. rated residual current 30 mA
- Electrical installation in accordance with DIN IEC/VDE

**Components CT 100 S WC**
- Casing, washing chamber, and tank in 1.4301 stainless steel
- Approved to EN 15883-1 and 15883-3
- A0 value can be set as desired
- Dual A0 monitoring with alarm
- Thermal system - self-disinfection
- Washing programmes can be set as desired
- Temperature sensors can be calibrated
- Tank overflow protection in the washing chamber
- Plain language display
- Safety locking in the event of an error
- Control system tested in accordance with EN 61010: 2002/2004
- Software evaluation as per EN 60335-1/A1
- Power supply 230 Volt/16 A/3 KW
- Low voltage valves
- Infinitely variable thermal disinfection with continuous steam flow
- DN 90 outlet (vertical or horizontal as desired)
- Floor wetness sensor
- Siphon monitoring
- Collection pipe
- Steam-tight washing chamber with circumferential seal
- Active drying support
- Semi-automatic door opening with foot switch
- Connection to in-house or central steam
- Dosing system for grease remover or intensive cleaner
- *E* high performance cleaning system with stainless steel rotary nozzles and controlled pressure distribution

**Installation drawing CT 100 S WC:**
- Front view
- Plan view
- Connection dimensions on rear and floor

**Dimensions in mm · Representation includes optional items**
The worktop version provides the opportunity to combine the cleaning machine and the worktop. The cover is fitted with a circumferential ridged edge. The machine can be extended to include drainage for waste water along with an integrated flushing ring, thus forming a nursing care combination. Wash hand basins and free-standing fittings are also available as options.

The mechanical components can be accessed via a double-walled, lockable inspection door. The machine’s internally located handle makes this an ideal piece of furniture for working rooms in nursing care facilities.

**Product information:**
Bedpan cleaning and disinfection system for cleaning and disinfecting all types of care utensils in a single work cycle. Approval pursuant to DIN EN 15883-1 and 3.

Reprocessing is carried out by means of decentralised thermal disinfection, and includes a dosing unit for a water softener. Automatic door locking and safety monitoring ensure operator safety. A high level of operating convenience is achieved by one-touch keys for three programmes:

- Short cycle for three urine bottles (with reduced water consumption)
- Normal cycle for bed pans or commode buckets plus one urine bottle
- Intensive cycle, specially for heavy soilings

The display provides in plain language all the information required for care and maintenance (operating instructions, error messages, servicing, and achieved A0 values). In addition, the system carries out a self-disinfection programme at freely-selectable intervals to fulfil the guidelines set out in DIN EN ISO 15883-3.

All the technical components, with the exception of the pumps and steam generators, are designed in 24 volt technology. This low voltage makes it possible to inspect, for example, the door contact, the dosing pump, or the solenoid valves while the
machine is in operation, without risk of injury. It is possible to program customer-specific requests for the operation of the disinfection programmes and service checks in a user-friendly manner, either via the control panel or a PC interface – including of course modifying the desired A0 values. The internal recording of the processes and automatic maintenance requests ensures operational safety. As a standard feature, the machine can be locked to prevent unauthorised operation.

The standard ten-jet rinsing system provides superb cleaning results without shadow zones, thanks to its tried and tested jet blade and its ceiling and urine-bottle nozzles.

Technical data:
- Voltage: 230 V, Power rating: 3000 W
- Fuse: separate 16 A fuse
- Protection class: I, Protection class: IP 20
- Hot water temperature: max. 70°C
- Pressure range, water inflow: 100 to 1000 kPa
- Disinfection: Thermal 80 to 95 °C
- Pump power: 370 W
- Noise generation: max. 70 dBA

Requirements at installation location:
- Water connection: Cold and hot water connection
- 3/4” external thread, flat seal
- All water connections to be fitted with stop valve
- Outlet DN 90 or 100

Electrical connection:
- Plug 230 V/16 A
- Earth leakage circuit-breaker with max. rated residual current 30 mA
- Electrical installation in accordance with DIN IEC/VDE

Installation drawing CT 100 Ti:
This washer-disinfector fits even into very small niches, and can also be moved around easily. It can be installed under existing worktops, thus further reducing the space required. This model is specifically designed with care facilities for the elderly in mind.

Product information for both compact machines:
Bedpan cleaning and disinfection system for cleaning and disinfecting all types of care utensils in a single work cycle. Approval pursuant to DIN EN 15883-1 and 3.

Reprocessing is carried out by means of decentralised thermal disinfection, and includes a dosing unit for a water softener. Automatic door locking and safety monitoring ensure operator safety.

This machine provides great power in the smallest space, with wash hand basin integrated as standard. The overall width of only 50 cm as a standalone machine, and 95 cm when supplemented with a waste water outlet, provides hygiene, efficiency, and ergonomy even in confined spaces.

A high level of operating convenience is achieved by one-touch keys for three programmes:

- Short cycle for three urine bottles (with reduced water consumption)
- Normal cycle for bed pans or commode buckets plus one urine bottle
- Intensive cycle, specially for heavy soiling

The display provides in plain language all the information required for care and maintenance [operating instructions, error messages, servicing, and achieved A0 values]. In addition, the system carries out a self-disinfection programme at freely-selectable intervals to fulfil the guidelines set out in DIN EN ISO 15883-3.
All the technical components, with the exception of the pumps and steam generators, are designed in 24 volt technology. This low voltage makes it possible to inspect, for example, the door contact, the dosing pump, or the solenoid valves while the machine is in operation, without risk of injury. It is possible to program customer-specific requests for the operation of the disinfection programmes and service checks in a user-friendly manner, either via the control panel or a PC interface – including of course modifying the desired A0 values. The internal recording of the processes and automatic maintenance requests ensures operational safety. As a standard feature, the machine can be locked to prevent unauthorised operation.

The standard ten-jet rinsing system provides superb cleaning results without shadow zones, thanks to its tried and tested jet blade and its ceiling and urine-bottle nozzles.
Installation drawing CT 100 Compact:

Dimensions in mm - Representation includes optional items

Installation drawing CT 100 Compact Perlavo:

Dimensions in mm - Representation includes optional items
Components

- Casing, washing chamber, and tank in 1.4301 stainless steel
- Approved to EN 15883-1 and 15883-3
- A0 value can be set as desired
- Dual A0 monitoring with alarm
- Thermal system - self-disinfection
- Washing programmes can be set as desired
- Temperature sensors can be calibrated
- Tank overflow protection in the washing chamber
- Plain language display
- Safety locking in the event of an error
- Control system tested in accordance with EN 61010: 2002/2004
- Software evaluation as per EN 60335-1/A1
- Power supply 230 Volt/16 A/3 KW
- Low voltage valves
- Infinitely variable thermal disinfection with continuous steam flow
- DN 90 outlet (vertical or horizontal as desired)
- Floor wetness sensor
- Siphon monitoring
- Collection pipe
- Steam-tight washing chamber with circumferential seal
- Active drying support
- Semi-automatic door opening with foot switch
- Connection to in-house or central steam
- Dosing system for grease remover or intensive cleaner
- "E" high performance cleaning system with stainless steel rotary nozzles and controlled pressure distribution
- Wall mounting
- "R" rim flushing function via switching valve
- RAL powder coating
- Wash hand basin
- Cover with ridged edge
- Single-lever mixer tap
- WC installation-ready
- Flushing system for WC
- Waste water outlet at side, with cover
- in 450 mm width
- in 500 mm width
- Operation via separate tank system
- Single lever mixer tap for the cover
- Machine and batch documentation with DataBox
- and DataLAN/DataW-LAN
- and matrix printer for on-the-spot documentation
- EuroCompakt software and interface
- for PC-supported machine monitoring

Key:
- Basic version
- Option
- Not possible

1 Option possible only for vapour-tight washing chamber
2 Option for 500 mm width
Convenient renovation of bedpan washer-disinfectors in hospitals and care facilities

Renovation instead of (new) investment!

When does the need to take action arise?
- when the usability of bedpan washer-disinfectors is no longer assured
- when the legal framework conditions change
- when machines operate inefficiently in financial terms
- when deficits in hygiene become evident

Avail of our more than 30 years experience in the area of bedpan cleaning and disinfection. The renovation of bedpan washer-disinfectors takes place on-site in your facility. Within a few hours, the complete technology of the old equipment is replaced, without other modifications. Around 90% of the machines sold in Germany can be renovated in this way.

Process for determining the situation for a renovation:
Before we can propose a renovation, certain prerequisites must exist. These are checked during a personal visit by our staff, and are specified as part of a status report. We then indicate to you, in the form of our various renovation concepts, the options for action which can be considered from a technical and financial viewpoint.

We offer you three different renovation concepts:

A  Electronic renovation
B  Renovation using UTD/UTD-R conversion kit
C  Renovation using CT 100 ENS slide-in machine

After a requirements analysis, we advise you which concept makes sense for you.
General advantages of renovation

Environmental sustainability:

Every day we burden our environment with huge amounts of waste, and we consume ever more resource in order to manufacture products which have a very short working life. The effects of environmental pollution on the entire atmosphere are disastrous. These burdens must be borne by future generations. Within our sphere of influence, we wish to contribute to the enduring survival of our environment for us and for our children. Core renovation of existing systems on-site is a sustainable and economical alternative to a new purchase.

- We re-use materials which are still intact,
- save resources,
- reduce transport costs, and
- avoid the production of superfluous waste.

Your (hygiene) benefits:

- Compliance with standard DIN EN ISO 15883-1 and 3
- Hygienic security thanks to freely selectable A0 value and individual disinfection programmes
- Safety for patients and users
- Machines are given a new working life
- Production workshops certified to EN ISO 13485: 2007
- Type-tested by TÜV-Nord
- Patented system (patent no. 19 50 98 77, Federal Republic of Germany)
- Proven in use hundreds of times over

The renovation concepts allow bedpan disinfection machines to be re-equipped to the latest state of the art. This means that old, failure-prone and therefore cost-intensive machines are given a new lease of life.

Financial benefits:

Because renovation takes only a few hours and is on-site, there is almost no downtime. The machines are not dismantled, and the valuable stainless steel components are retained. In addition, renovation results in a noticeable reduction in energy and water consumption.

The result: A new piece of medical technology fulfilling technical, legal, and hygiene requirements, and which is efficient in terms of ecology and finance.

Cost comparison of renovation with new purchase

<table>
<thead>
<tr>
<th>5 electronic renovations</th>
<th>3 renovations with conversion kit</th>
<th>2 renovations with slide-in machine</th>
<th>New purchase 1 nursing-care combination</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>B</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>B</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>B</td>
<td>C</td>
<td></td>
</tr>
</tbody>
</table>
The renovation concepts at a glance

A) Electronic renovation

What happens during the electronic renovation?
- Removal of electronic components: Control system, wiring harness, and control panel
- Installation or replacement of: Door locking, door contact, mains cable, solenoid valves, and other components, if these put the reliable operation of the system at risk.

Electronic renovation comes to the fore when the machine manufacturer is no longer able to ensure the supply of replacement parts for his often older bedpan washer-disinfectors. The failure to achieve the required disinfection performance often represents a frequent incentive for electronic renovation. In this case, only electronic components are replaced; all other intact components, as well as the valuable stainless steel fittings, are retained.

B) Renovation using UTD/UTD-R conversion kit

What happens during renovation using a conversion kit?
- Removal of the old technology: electronics, tank, pump, valves, control panel/display
- The following are repaired or maintained: jet blades/jets, pipework, door mechanisms
- Installation of the conversion kit into the existing inspection space: Stainless steel tank with disinfection pump, stainless steel submersible pump, circulation pump/dosing pump, steam generator, solenoid valve set, cable set/locking unit, control electronics/LC control panel, valves, suction lance, tank sensor/temperature sensor, heating system, optionally with rim flushing (model UTD-R) for automatic cleaning of sinks.

If not just the electronic components of older machines are affected, then for renovation we use a complete conversion kit for the replacement of the old technology. Here too, in most cases no significant work needs to be performed on the stainless steel fittings. The functional unit is built into the disinfection machine on-site, as a compact assembly. If necessary, the washing system can also activate rim flushing in waste water outlets.

UTD variant: Simple version suitable for most applications; enables compliance with EN ISO 15883-3 through its regular automatic self-disinfection of the system – germ recontamination of the goods after the disinfection phase is thus almost completely excluded.

UTD-R variant: With additional technology to provide rim flushing for waste water outlets
Technical data:

- Voltage: 230 V, Power rating: 3000 W
- Fuse: separate 16 A fuse
- Protection class: IP 20
- Hot water temperature: max. 70°C
- Pressure range, water inflow: 100 to 1000 kPa
- Dimensions (H x L x B) max: 440 x 490 x 300 mm
- Weight (empty): 16.5 kg
- Disinfection: Thermal 80 to 95 °C
- Pump power: 370 W
- Noise generation: max. 70 dBA

Water and energy consumption:

<table>
<thead>
<tr>
<th>Programme</th>
<th>Cold water</th>
<th>Hot water</th>
<th>Energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short programme</td>
<td>11.7 litres</td>
<td>9.3 litres</td>
<td>0.22 kWh</td>
</tr>
<tr>
<td>Normal programme</td>
<td>16.4 litres</td>
<td>9.4 litres</td>
<td>0.24 kWh</td>
</tr>
<tr>
<td>Intensive programme</td>
<td>21.2 litres</td>
<td>10.6 litres</td>
<td>0.20 kWh</td>
</tr>
</tbody>
</table>

Machine tested:
- ZK chamber (ISO 765) with UTD no. 12/11-3889, control system 121/11 version 2.9
- Starting conditions: Cold water: 15.6 °C, hot water: 62.6 °C
- Ambient temperature: 20.5 °C
- Loaded with: 1 bedpan
- Set parameters: A0 value 680 (approx. 720 to 750 is achieved)

Dual-protected A0 value monitoring

The new UTD conversion kit is equipped with a particularly secure measurement method for monitoring the A0 value. The disinfection temperature in the washing chamber is monitored by two sensors independent of one another. One of them is read by the control system, and the other by the control panel’s microprocessor. If there is a significant deviation between the two determined A0 values, an alarm is created.
C) Renovation using CT 100 ENS slide-in machine

This system replaces existing old machines through the complete replacement by the unit consisting of flushing system and disinfection chamber. The slide-in model is pre-assembled and fully tested, and is pushed onto an existing base under an existing worktop. The overall width is variable – 700, 750, or 900 mm – thus catering for all the dimensions customary in the industry.

**Product information:**
Bedpan cleaning and disinfection system for cleaning and disinfecting all types of care utensils in a single work cycle. Approval pursuant to DIN EN 15883-1 and 3.

Reprocessing is carried out by means of decentralised thermal disinfection, and includes a dosing unit for a water softener. Automatic door locking and safety monitoring ensure operator safety.

A high level of operating convenience is achieved by one-touch keys for three programmes:
- Short cycle for three urine bottles (with reduced water consumption)
- Normal cycle for bed pans or commode buckets plus one urine bottle
- Intensive cycle, specially for heavy soiling

The display provides in plain language all the information required for care and maintenance (operating instructions, error messages, servicing, and achieved A0 values). In addition, the system carries out a self-disinfection programme at freely-selectable intervals to fulfil the guidelines set out in DIN EN ISO 15883-3.

All the technical components, with the exception of the pumps and steam generators, are designed in 24 volt technology. This low voltage makes it possible to inspect, for example, the door contact, the dosing pump, or the solenoid valves while the machine is in operation, without risk of injury. It is possible to program customer-specific requests for the operation of the disinfection programmes and service checks.
in a user-friendly manner, either via the control panel or a PC interface – including of course modifying the desired A0 values. The internal recording of the processes and automatic maintenance requests ensures operational safety. As a standard feature, the machine can be locked to prevent unauthorised operation.

The standard ten-jet rinsing system provides superb cleaning results without shadow zones, thanks to its tried and tested jet blade and its ceiling and urine-bottle nozzles.

<table>
<thead>
<tr>
<th>Components</th>
<th>CT 100 ENS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing, washing chamber, and tank in 1.4301 stainless steel</td>
<td>●</td>
</tr>
<tr>
<td>Approved to EN 15883-1 and 15883-3</td>
<td>●</td>
</tr>
<tr>
<td>A0 value can be set as desired</td>
<td>●</td>
</tr>
<tr>
<td>Dual A0 monitoring with alarm</td>
<td>●</td>
</tr>
<tr>
<td>Thermal system - self-disinfection</td>
<td>●</td>
</tr>
<tr>
<td>Washing programmes can be set as desired</td>
<td>●</td>
</tr>
<tr>
<td>Temperature sensors can be calibrated</td>
<td>●</td>
</tr>
<tr>
<td>Tank overflow protection in the washing chamber</td>
<td>●</td>
</tr>
<tr>
<td>Plain language display</td>
<td>●</td>
</tr>
<tr>
<td>Safety locking in the event of an error</td>
<td>●</td>
</tr>
<tr>
<td>Control system tested in accordance with EN 61010: 2002/2004</td>
<td>●</td>
</tr>
<tr>
<td>Software evaluation as per EN 60335-1/A1</td>
<td>●</td>
</tr>
<tr>
<td>Power supply 230 Volt/16 A/3 KW</td>
<td>●</td>
</tr>
<tr>
<td>Low voltage valves</td>
<td>●</td>
</tr>
<tr>
<td>Infinitely variable thermal disinfection with continuous steam flow</td>
<td>●</td>
</tr>
<tr>
<td>DN 90 outlet (vertical or horizontal as desired)</td>
<td>●</td>
</tr>
<tr>
<td>Floor wetness sensor</td>
<td>●</td>
</tr>
<tr>
<td>Siphon monitoring</td>
<td>●</td>
</tr>
<tr>
<td>Collection pipe</td>
<td>●</td>
</tr>
<tr>
<td>Steam-tight washing chamber with circumferential seal</td>
<td>●</td>
</tr>
<tr>
<td>Active drying support†</td>
<td>●</td>
</tr>
<tr>
<td>Semi-automatic door opening with foot switch†</td>
<td>—</td>
</tr>
<tr>
<td>Connection to in-house or central steam</td>
<td>●</td>
</tr>
<tr>
<td>Dosing system for grease remover or intensive cleaner</td>
<td>●</td>
</tr>
<tr>
<td>&quot;E&quot; high performance cleaning system with stainless steel rotary nozzles and controlled pressure distribution</td>
<td>—</td>
</tr>
<tr>
<td>Wall mounting</td>
<td>—</td>
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<tr>
<td>&quot;R&quot; rim flushing function via switching valve</td>
<td>●</td>
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<tr>
<td>RAL powder coating</td>
<td>—</td>
</tr>
<tr>
<td>Wash hand basin</td>
<td>—</td>
</tr>
<tr>
<td>Cover with ridged edge</td>
<td>—</td>
</tr>
<tr>
<td>Single-lever mixer tap</td>
<td>—</td>
</tr>
<tr>
<td>WC installation-ready</td>
<td>—</td>
</tr>
<tr>
<td>Flushing system for WC</td>
<td>—</td>
</tr>
<tr>
<td>Waste water outlet at side, with cover</td>
<td>●</td>
</tr>
<tr>
<td>in 450 mm width</td>
<td>●</td>
</tr>
<tr>
<td>in 500 mm width</td>
<td>●</td>
</tr>
<tr>
<td>Operation via separate tank system†</td>
<td>●</td>
</tr>
<tr>
<td>Single lever mixer tap for the cover</td>
<td>●</td>
</tr>
<tr>
<td>Machine and batch documentation with DataBox</td>
<td>●</td>
</tr>
<tr>
<td>and DataLAN/DataW-LAN</td>
<td>●</td>
</tr>
<tr>
<td>and matrix printer for on-the-spot documentation</td>
<td>—</td>
</tr>
<tr>
<td>EuroCompakt software and interface for PC-supported machine monitoring</td>
<td>●</td>
</tr>
</tbody>
</table>

**Key:**
- ● Basic version
- ● Option
- — Not possible

† Option possible only for vapour-tight washing chamber

‡ Option for 500 mm width

Technical data:
- Voltage: 230 V/Power rating: 3000 W
- Fuse: separate 16 A fuse
- Protection class: I/Protection class: IP 20
- Hot water temperature: max. 70°C
- Pressure range, water inflow: 100 to 1000 kPa
- Disinfection: Thermal 80 to 95 °C
- Pump power: 370 W
- Noise generation: max. 70 dBA

Requirements at installation location:
- Water connection: Cold and hot water connection
- 3/4” external thread, flat seal
- All water connections to be fitted with stop valve
- Outlet DN 90 or 100
- Electrical connection: Plug 230 V/16 A
- Earth leakage circuit-breaker with
- max. rated residual current 30 mA
- Electrical installation in accordance with DIN IEC/VDE

Components and installation requirements are subject to change. Please consult the manufacturer for the latest information.
High performance functions for Series CT 100 bedpan washer and disinfection machines

The best in hygiene and operating convenience

UTD/E high performance cleaning system

The multi-step cleaning pump supplies various groups of jets within the washing chamber via a downstream valve block. Thanks to a rotation jet made from stainless steel, and having a 360 degree spray angle, even heavy contamination is scour ed off the utensils. Jets in the sides and roof complete the cleaning of the reverse of the care utensils and the washing-off of the chamber wall. Three separate cone jet spray nozzles are available for the urine bottles, and their force is effective down to the base of the bottle. The rotation jet and the various jet groups are controlled in different cycles by the electronics, according to the selected washing programme. The asymmetric water motion on the goods being washed additionally optimises the cleaning.

When modifying existing washing programmes by means of the PC software, the parameters below:
• quantity of water
• water temperature
• number of flushing cycles
• sequence of triggering jet groups
can be freely modified. The cleaning system thus fulfils even the most demanding requirements.

The UTD/E high performance cleaning system is available for almost all models in the CT 100 series of bedpan washer-disinfectors. It attains its full effectiveness in combination with the Hydrovexus washing chamber.
Hydrovexus washing chamber

The stainless steel washing chamber has an all-round silicone seal to protect from odours, noise, and moisture. The chamber is built very robustly, and by means of the unique motor locking, it guarantees a secure and tight seal. The door has solid bearings, and is easy to operate by means of a gas pressure spring which minimises the accidental release of faecal matter. The handle consists of an ergonomically angled, integrated bar, and is therefore also easy to clean. The front is well insulated against heat, and the inside is free of ledges which collect dirt. No plastic parts are used on the inside of the chamber. The holders for the care utensils can be removed with one hand and without a tool. Therefore, different arrangements can be used according to the goods being washed.

The Hydrovexus washing chamber is available for almost all models in the CT 100 series of bedpan washer-disinfectors. It attains its full effectiveness in combination with the UTD/E high performance cleaning system.

At the end of the disinfection, the utensils dry by the heat of evaporation. For this, the motor locking opens the washing chamber door slightly. No high-maintenance ventilators or filters are required.
Chemical auxiliary
To get the best performance and provide the best care for your machines

Our recommendation for the best results:
ERKUREX-STECKURON inhibits scale, and works as a dispersing agent and rinse aid for treating boiler water during thermal disinfection.
ERKUREX-STECKURON is pH-neutral and non-toxic. Its level of biological degradation and elimination in waste water is >90 %.
• Suitable for all commercially available cleaning and disinfection machinery
• Outstanding water-softening and protection against lime scale
• Outstanding fleck-free rinsing
• Only small amounts required
• Pleasant odour

Thermoelectric monitoring of bedpan washer-disinfectors
The monitoring of the disinfection performance of thermal devices is a compulsory duty for the operator. Increasing hygiene risks mean that this requirement is becoming an important practical element with respect to the servicing of these cleaning and disinfection machines. We provide you with a solution to fulfil these obligations with ease.

TEMPLogger II
With the second generation of Templogger, the mandatory monitoring of the disinfection performance of cleaning and disinfection machines can be carried out with ease, with the support of a PC. The set comprises a calibrated measuring device, software, and at least two sensors. These are pre-installed at defined locations on the care utensils (bed pans/urine bottles). A maximum of 8 sensors can be connected at the same time. The flat ribbon cable from the sensors can be guided through the seal of the washing chamber door, or through the existing measurement port. The machine and location data for the machine being monitored are input into the screen of the application. Feedback is displayed in real time in the form of a temperature curve on the screen. A0 values can be predefined as the target values. In the event of failure to meet targets, the system issues alerts for the measuring channels in question. The data collected is saved as an image file and can be further processed.
Additional options for CT 100 series and UTD conversion kit

Depending on the installation location, the operation of bedpan washer-disinfectors is subject to various requirements, whether it is the full documentation of the hygiene-relevant processes or the comprehensive programming of the machine functions via a PC. For systems from Erlen GmbH, we have created the option of fulfilling these requirements:

**Recording of process data and monitoring of hygiene using DATA-Box & DATA-Print**

The electronic Databox and Dataprint evaluation unit documents the processes taking place in the machine. All the relevant data is transferred from the control system to the Databox, and is then processed. A serial batch number is automatically assigned. In detail, the following data is collected:
- machine and batch number
- start and end time of the washing cycle
- type of programme run
- target temperature
- A0 value achieved, as well as the result (OK/abort) and any error messages.

Using a conventional USB connection, this data can be output to a PC and further processed. The associated software makes available a table for printing, saving, or exporting into other data formats, for example MS Excel. Thanks to the built-in printer on the front side (DATA-Print), a printed slip is issued after every flushing process, detailing the significant events and the success or failure of the process. Thanks to our partnership with HSD, the leading provider for batch documentation and sterile goods management, the values from the Databox can be input into the HSD-ProzessDATA database solution, to enable professional hygiene monitoring.

**EURO-Compact Interface and Service programme**

The models equipped with Euro-Compact controllers (CT 100 series, UTD conversion kit) can be completely interrogated and configured via a PC interface. The set consists of a data cable, the interface, and the underlying PC software. This service programme enables individual cleaning and disinfecting programmes to be created, the retrieval of error and warning messages, and the individual control of all inputs and outputs. The integrated maintenance programme provides a template for technical control in accordance with manufacturer’s specifications.
Increasing numbers of customers have to work within prescribed budgets. The usual procurement process no longer fulfils the new requirements.

For this reason, Erlen is offering Budget 360°:

**Cost control**
- No unplanned invoices
- Budget certainty
- Only a single monthly payment – including investment and maintenance costs
- Financial risks are minimised

**Dependability of hygiene**
- Certified products
- Machines comply with current hygiene standards
- Occupational safety and patient protection

Less stress for staff!

**All-round service***
- Expert contact partner in your area
- Appointment coordination, and performance of all maintenance and repair tasks
- Inspection and validation as per VDE

Individualised service level possible!

**Availability**
- Repair within a very short time
- Replacement machine in the event of extended outages
- Problem-free process guaranteed

Reliable operation!

Our highest priority is comprehensive, individualised service solutions and the holistic support of our customers. With us, you have just a single contact partner for maintenance, validation, and repair. Our in-house technical customer service guarantees maximum reliability and flexibility. In terms of investment, you can select between three different options:

- **Purchase** ✓
- **Leasing** ✓
- **Budget 360°** ✓

We will be delighted to determine your individual requirements in a non-binding consultation meeting.
New machine enquiry

☐ Yes! Please provide me with a proposal for a bedpan washer-disinfector:

### Customer data

<table>
<thead>
<tr>
<th>Customer no. (if existing):</th>
<th>Contact partner:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of the facility:</td>
<td>Telephone:</td>
</tr>
<tr>
<td>Street:</td>
<td>E-mail:</td>
</tr>
<tr>
<td>Postcode/city:</td>
<td>Fax:</td>
</tr>
</tbody>
</table>

### Procurement situation

- ☐ New machine/initial acquisition:
- ☐ Replacement machine for [manufacturer/type]:

### Requirements analysis

<table>
<thead>
<tr>
<th>Total number of machines:</th>
</tr>
</thead>
</table>

### Intensity of use

- ☐ several times daily
- ☐ daily
- ☐ occasionally

### Installation situation

- ☐ under worktop
- ☐ standing unit
- ☐ nursing-care combination
  - [possible with wash hand basin and sink]

### Items to be disinfected

- ☐ urine bottles
- ☐ commode buckets
- ☐ bedpans
- ☐ other:

### Utilisation situation

- ☐ lift
- ☐ Stairwell
- ☐ ground level

### Space:

- ☐ ground level

### Connection situation

<table>
<thead>
<tr>
<th>☐ wall outlet</th>
<th>☐ floor outlet</th>
<th>☐ cold water connection</th>
<th>☐ hot water connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stop valve for hot/cold water present in room:</td>
<td>☐ yes</td>
<td>☐ no</td>
<td></td>
</tr>
<tr>
<td>230 Volt/16 Ampere socket available:</td>
<td>☐ yes</td>
<td>☐ no</td>
<td></td>
</tr>
<tr>
<td>Socket fused individually:</td>
<td>☐ yes</td>
<td>☐ no</td>
<td></td>
</tr>
</tbody>
</table>

### Financing desired:

- ☐ yes
- ☐ no

### Comments:

Facilities (ideally photos of the installation location):

☐ Please contact me in order to make an appointment for a non-binding consultation meeting.

Date, signature:
# Contact request

**Customer data**

<table>
<thead>
<tr>
<th>Customer no. (if existing):</th>
<th>Contact partner:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of the facility:</td>
<td>Telephone:</td>
</tr>
<tr>
<td>Street:</td>
<td>E-mail:</td>
</tr>
<tr>
<td>Postcode/city:</td>
<td>Fax:</td>
</tr>
</tbody>
</table>

Please contact me/us about the following subjects:

- [ ] New acquisition of bedpan washer-disinfectors
- [ ] Renovation of bedpan washer-disinfectors
- [ ] Maintenance/repair/A0 value determination for bedpan washer-disinfectors
- [ ] Information about other services and products

Date, signature: ___________________________