



DISCHER®

Observe short operating instructions



DISCHER®



Instruction Manual

use and application

CLEANING-DISINFECTION MACHINE

System D3, D3P

Variants

- DISCHER BOY (S)
- DISCHER MASTER (S)
- DISCHER PICCOLO (S)
- DISCHER COMPACT



Keep in a safe place for further use

GBR

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Preface and important information

You have chosen a quality product from the company Discher Technik GmbH.

Your product (bedpan, cleaning and disinfection machines) serves to clean and disinfect tanks for human excreta, e.g. bedpans, urine bottles, night commode buckets, washbasins, kidney dishes...etc.



Incorrect handling and improper use can lead to danger and damage. Therefore, we would ask you to read these operating instructions carefully and follow them closely. Always keep them close to hand. Please also observe the safety information to avoid injuries and damage.

If you have any questions about the content of these operating instructions or use of the product, please contact us.

Your Discher Technik GmbH Team

Version of the operating instructions

These operating instructions apply for the following product variants:

Product	Software firmware version
DISCHER MASTER	D3 + D3P KONF V1.2X
DISCHER MASTER S	Leist.Bin V1.5X
DISCHER BOY	D3 + D3P KONF V1.2X
DISCHER BOY S	Leist.Bin V1.5X
DISCHER BOY Plus	
DISCHER PICCOLO	D3 + D3P KONF V1.2X
DISCHER PICCOLO S	Leist.Bin V1.5X
DISCHER COMPACT	D3 + D3P KONF V1.2X
	Leist.Bin V1.5X

All versions of the operating instructions are available on our website (web shop) for downloading, or can be requested from us:

<https://webshop.discher.de/>
www.discher.de

1 Information on how to use these operating instructions.

1.1 Safety symbols

To draw the user's attention to obligations and risks, warnings signs are listed in these instructions and attached to the machine where applicable.

1.2 Explanation of the warnings

Warnings	Description
	General warnings and information
	Warning, possibility of an electrical shock
	Warnings, hot surfaces
	Warning, danger of crushing
	Warning, Cutting danger
	Warning, Danger of tipping
	Main switch

1.3 Other accompanying documents and supplementary information material

Material	Reference source
Brief operating notes	Included with the delivery
Instructions for service technicians:	Can be ordered by telephone or e-mail: Tel: 0210423360 E-mail address: info@discher.de
Order form for spare parts:	www.discher.de

If, despite reading the operating instructions carefully and other information, you still need help, contact the dealer responsible for you (or contact Discher Technik GmbH directly).

1.4 Feedback about the operating instructions

Your opinion is important to us. Please send us any suggestions or criticism about these operating instructions. We will analyse your feedback and take it into consideration for the next version of the operating instructions. Support Tel. +49 2104 - 2336-21

2 Intended purpose

2.1 Medical purpose

Bedpan cleaning and disinfection machines serve the medical purpose of preventing disease. They are only designed for reprocessing care utensils by means of cleaning and disinfection and therefore offer the necessary protection against contamination. Machines have no direct contact with patients when used. The cleaning-disinfection machine is designed exclusively for the cleaning and thermal disinfection of containers for human excreta, as defined in EN ISO 15883-3, and for hospitals and nursing homes. Any other use is not permitted! Changes and additions to the device are not permitted.

2.2 Clinic use

- Periodic, automatic system disinfection
- Effective cleaning and disinfection results
- Secure and reliable hygiene

2.3 Indication(s)

The following indications are defined:

After using the medical utensil, these need to be cleaned and disinfected. so that they can be used again.

a) Cleaning: This method has proven itself in practice and is therefore deemed suitable or state-of-the-art. Also, the requirements and tests when applying this method are specified in the EN ISO 15883-1 and EN ISO 15883-3. This method is valid and can be assessed qualitatively. See EN ISO 15883-1, section 6.10.

For verification, see: TD-TPL Clinical assessment and EW-FOR type testing according to EN ISO 15883-1 and -3.

b) To ensure correct disinfection, the steam disinfection method is applied. This method is a recommended, tested and recognised disinfection method according to RKI.

See Bundesgesundheitsblatt 2017·60:1274-1297.

Also, the EN ISO 15883-1, Paragraph 4.7.1 Comment 2 recommends a thermal disinfection method (steam disinfection method).

Also, the requirements and tests when using this method are defined in the EN ISO 15883-1 and EN ISO 15883-3. This method is valid and can be assessed quantitatively. See EN ISO 15883-1, section 6.8 and attachment B.

2.4 Contraindications / exclusions / restrictions

The following contraindications are defined:

'DISCHER cleaning-disinfection machines are not approved for cleaning and disinfection.

of medical utensils that do not fall under EN ISO 15883-3

2.5 Intended patient target group(s)

The patient group includes immobile people that cannot go to the toilet on their own.

2.6 Intended users.

No.	Name of the user group	Brief description
1	Healthcare specialists and nurses	Includes the care and nursing of people who need care or are sick.
2	Technical colleges for practical training	Are instructed and supervised by healthcare specialists and nurses
3	Geriatric nurses	Care of seniors who need assistance
4	Healthcare and nursing assistants	Geriatric care and nursing of elderly sick people
5	Building technicians (craft training, preferably electricians)	Professional operating and supervision of technical plant. Testing functionality, troubleshooting and maintenance, and ordering spare parts
6	Service technicians	Qualified and external service providers trained for the devices or the manufacturer's service field technicians for maintenance and repair of the machines

2.7 Intended application environment(s)

Application environment	Ambient noise	Climate
Interior rooms	Not relevant	Ambient temperature from 5°C - 40°C

3 Residual risk / risk containment

Cause	Effects	Aid
Use of no or unsuitable process chemicals	Damage to the machine	Notes from note manufacturer
- Unsuitable medical utensils - Incorrect loading - Incorrect placement	The medical utensils cannot be sufficiently cleaned or are even damaged.	- Observe operating instructions - Observe brief operating notes of the manufacturer
Wrong programme selection	Insufficient cleaning Inadequate disinfection result	Brief operating notes Symbol in the display note A0 < 60s not possible
Scalding when removing the medical utensil	Risk of injury	Tolerable
Equipment failure	Electrical shock	Tolerable

4 Important safety information

Important! Read all safety information carefully before using the product. Follow all safety instructions to avoid injuries and potentially fatal situations

	• Check the machine for possible damage • Read these instructions carefully before using the machine • The warranty and guarantee terms do not apply to damage caused by disregarding the operating instructions • In case of damage or malfunctions, the device may not be operated or must be decommissioned immediately. The medical product safety officer must be informed promptly • The safety inspection and the revalidation of the equipment must be carried out at least according to the general technical regulations, norms, specifications and ordinances in the defined intervals. The results must be documented • The manufacturer recommends safety inspections and revalidation at least once a year or after important repairs! • In case of a negative safety inspection or validation, the device may no longer be operated
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	• The cleaning-disinfection machine is intended for use under normal environmental conditions, such as are usually found in households • Use of the machine outside the home environment, e.g. ships or oil platforms, must be agreed with the manufacturer • If the machine is equipped with a WC, the WC lid must always be attached correctly and functionally for safety reasons • It is not allowed to stand or sit on the closed WC, i.e. the WC lid • Only use medical products which correspond to the designated purpose (dealing with bodily wastes) and have a CE mark • The machine may only be operated by qualified and instructed personnel • Do not climb on the machine • The cleaning-disinfection machine must be kept clean. (see section 17 Device Care) • Do not touch the keys or display with sharp objects • The water in the washing chamber and rim flushing is not drinking water • Avoid the introduction of large quantities of cellulose material to avoid the risk of clogging the pipes and deterioration of the cleaning result • DISCHER Technik recommends the Calligator® supplied as a lime binder agent; use of other substances may invalidate the warranty • The machine should be commissioned, maintained and repaired (by technical service or) by an appropriately qualified specialist • Improper installation and maintenance work or repairs can cause considerable danger to the user • Any other use beyond this is considered improper and must be agreed with the manufacturer • The machine must not be used to disinfect other medical, especially invasive products. Discher cleaning-disinfection machines are not approved for cleaning and disinfecting medical utensils that are not covered by the EN ISO 15883-3 standard • The machine must be serviced annually to ensure all functions and to maintain the warranty • The manufacturer is not liable for personal injuries or damage to property which can be attributed to non-compliance with the above instructions. • The cleaning-disinfection machine complies with the regulatory requirements. See DISCHER certificates • The water hardness must be at least 1 dH and may be maximum 28 dH. The manufacturer must be contacted, if soft / demineralised water is used. Reason: failure of the condition control in the water tank • Versions that deviate from the standard series products as described in these operating instructions due to special customer requirements are special designs. The enclosed supplementary operating or installation instructions must be observed
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	If the programme is interrupted, surfaces and medical utensils may be hot.
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5 General Function Descriptions

- 1) Position the medical utensils on the load carrier in the washing chamber
- 2) Medical utensils must never cover each other and must be positioned so that the human excreta can run off unhindered
- 3) When sorting the medical utensil, make sure that no part blocks the rotating flushing wing
- 4) Close the washing chamber door and select the cleaning programme
- 5) The machine starts the programme sequence and the operating control lamp shines
- 6) Cold and hot water is now alternately fed via the water tank and the booster pump through the nozzles into the washing chamber
- 7) The programme starts with the cleaning of the medical utensils
- 8) After the cleaning process the disinfection phase begins
- 9) The steam generated is now fed into the washing chamber until the required A0 value is reached. A0 values must be applied that comply with the guidelines, standards, and specifications, thereby providing the necessary infection prophylaxis.
- 10) During the programme sequence, the processes taking place in the machine and the current A0 value is shown on the display.
- 11) Do not interrupt a running programme, as this endangers the disinfection.
- 12) After recooling and the program end the washing chamber door unlocks and the medical utensil can be removed again.

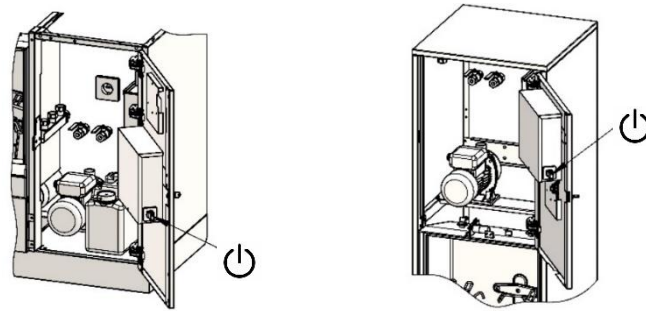
	Attach the enclosed brief operating notes on the machine or next to the machine in a clearly visible position
	The maximum load weight is 10 kg (including load carrier). Never operate the machine with a defective load carrier.
	Diapers, gloves, cellulose, and other hygiene articles do not belong in the washing chamber. Danger of blockage!

5.1 Delivery scope

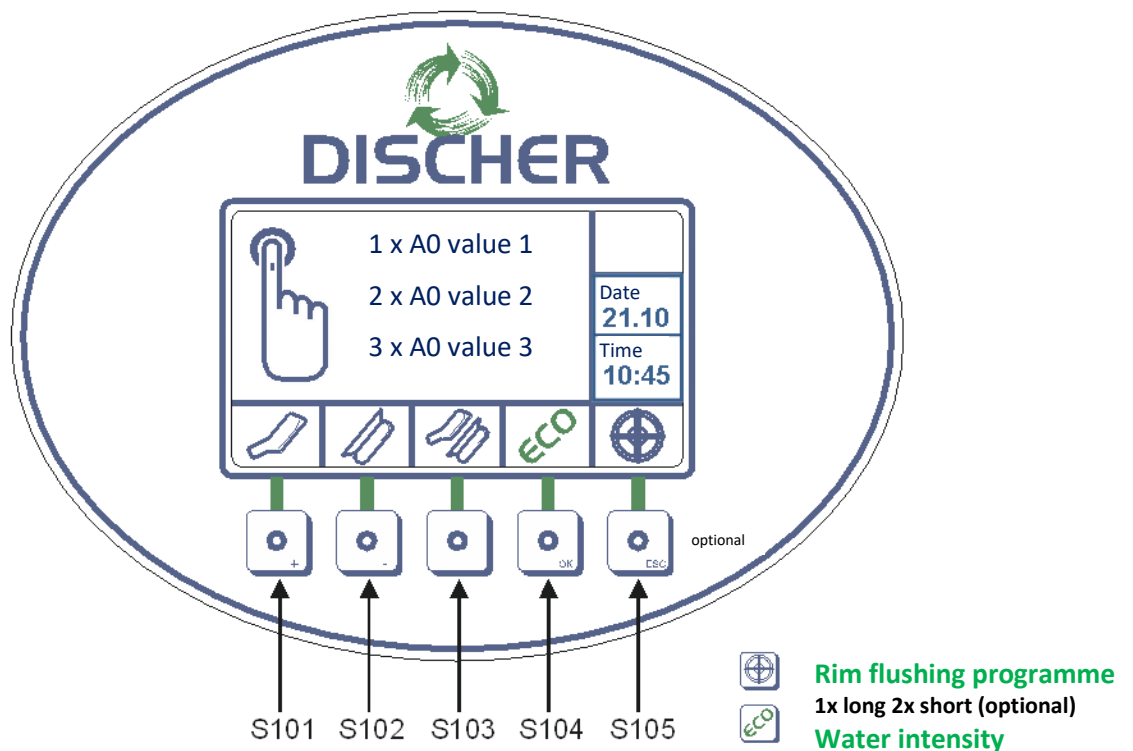
Packaging contents	Quantity		
Brief operating instruction	1	A0 value check	1
PD-CL Stand-up Assembly	1	Setup report A0 value check	1
PD-CL Start-up	1	DE-GBR 'Cover sheet for equipment delivery'	1
PD-TPL Transport	1		

6 Operation of variant DISCHER BOY / MASTER

6.1 Main switch



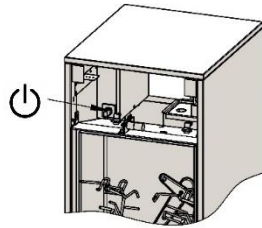
6.2 Symbols and Programme Selection



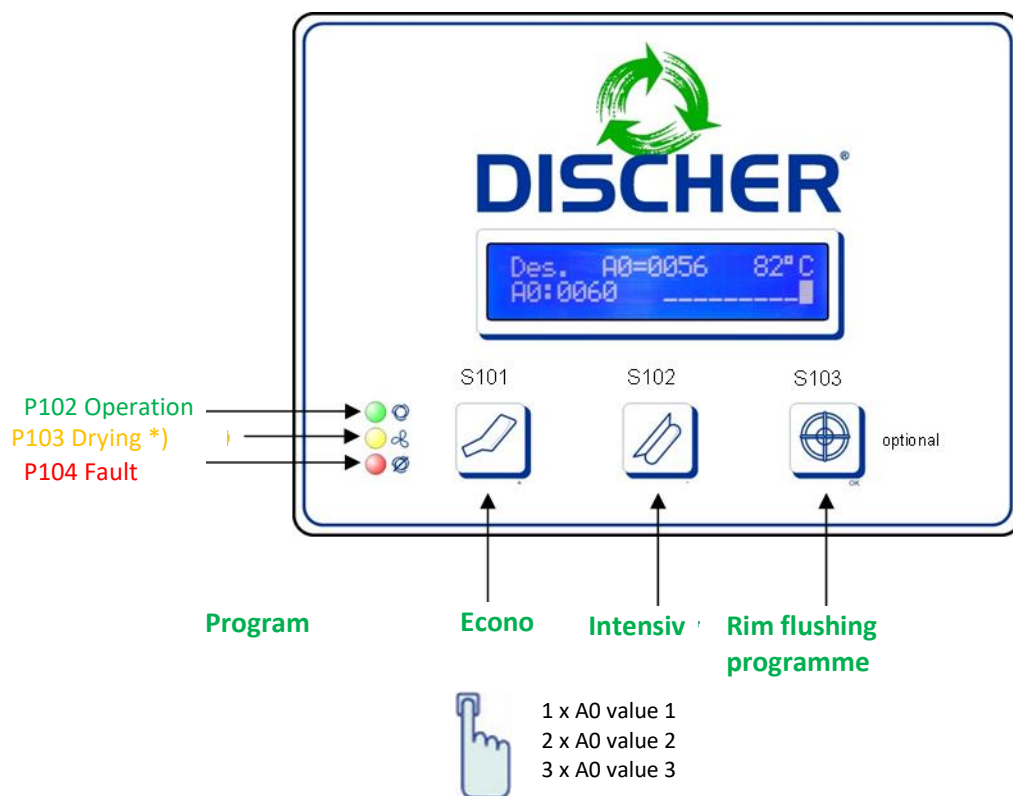
S101	Urine bottle programme	e.g. press 1x - A0=600, 2x - A0=1000, 3x - A0=3000
S102	Bedpan programme	e.g. press 1x - A0=600, 2x - A0=1000, 3x - A0=3000
S103	Bedpan and urine bottle programme	e.g. press 1x - A0=600, 2x - A0=1000, 3x - A0=3000
S104	Water intensity ECO	not pressed - intensive, 1x normal, 2x economy
S105	Rim flushing programme	1x pressing - 8 litre, 2x - 4 litre

7 Operation of variant DISCHER PICCOLO

7.1 Main switch



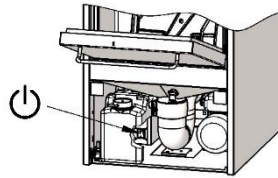
7.2 Symbols and Programme Selection



S101	Economy programme	e.g. press 1x - A0=600, 2x - A0=1000, 3x - A0=3000
S102	Intensive programme	e.g. press 1x - A0=600, 2x - A0=1000, 3x - A0=3000
S103	Rim flushing programme	e.g. 1x pressing - 8 litre, 2x - 4 litre (optional)

8 Operation of variant DISCHER COMPACT

8.1 Main switch

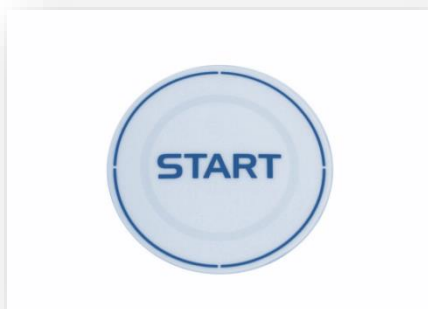


8.2 Symbols and Programme Selection



S101	Programme button (START)	e.g. press 1x - A0=600, 2x - A0=1000, 3x - A0=3000
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9 Quickstart Button



- Pressing the quick start button always starts the multi-programme for all types of medical utensils with an **A0 value 600** (or as requested by the customer)
- No further settings are necessary
- Depending on the requirements, the programme can be changed by the manufacturer.



There is a danger that the A0 value may be too low due to habitual working practises when the quick start button is pressed. If A0=3000s is required, this must be manually re-selected via the programme button bedpan and urine bottle. (Unless the quick start button is set to the A0 value 3000s at the customer's request)
The selected A0 value is shown in the display.

10 Washing chamber door

10.1 Manual door

- The machine has a door spring that helps close the doors.
- The doors are completely opened and closed by means of a door handle. It is prohibited to let go of the door handle during opening and closing
- The machine has an automatic door lock that prevents the door from being opened during operation

	There is a risk of crushing when the washing chamber doors are open, if these are bumped unintentionally or intentionally, and there are still body parts on / in the washing chamber labyrinth.
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10.2 Automatic door (optional)

- By pressing the foot switch, the washing chamber door is closed and opened
- After programme selection the door closes automatically
- An integrated electronic pinch protection prevents the risk of injury through crushing

10.3 Combination with other products

Combination product
DISCHER PanRack combination (storage cabinet for bedpans and urine bottles)
DISCHER wall unit
DISCHER shelf
DISCHER work top (work surfaces)
DISCHER lower cabinet
DISCHER tall cabinet
DISCHER drain 450, floor unit or wall unit

10.4 Accessories

Accessories	Article number	Instructions for use
DISCHER Calligator®	13028	See section: 11.1 Replace tank
Bedpan	13767	See brief operating notes
Urine bottle	14477	See brief operating notes
Washbasin	15767	See brief operating notes
Kidney dish	15776	See brief operating notes

11 Process Chemical and Dosing

Lime deposits damage heating elements and can clog nozzles

In this case, it is possible that the required heat output for thermal disinfection may not be reached

Even with soft water, high operating temperatures can lead to chalk deposits

For these reasons, the machine (on customer request) is equipped ex works with a dosing system for descaler (Calligator®)

Process Chemistry	Note
Descaler (scope of delivery)	Calligator® 3 bis 12 ml / rinse cycle
Cleaner (optional)	
Rinse Aid (optional)	

Calligator® is optimally adapted to the needs of the machine

If an empty level is reached in the canister, **CANISTER EMPTY** is shown on the display

Then, only a certain preset number of programme sequences are possible.

The machine switches off until a new canister is connected

11.1 Exchange tanks



- Open the canister Calligator® with the key (art.no.12956)
- Remove empty canister and remove suction lance
- Insert the suction lance into the opening of the new canister
- Put the canister back in the place provided

	Only use process chemicals that are intended and permitted for this purpose and always follow the manufacturer's instructions. See Declaration of Compatibility, page 20
	Caution when handling process chemicals. Note safety data sheet!

11.2 Product information Calligator®

Special liquid rinse aid for use in DISCHER cleaning-disinfection machines

Main application scopes:	When used as intended, no lime deposits are formed in the steam generator or in the pipelines.
Properties:	Calligator can be used with all degrees of water hardness. 0.5 - 1.5 ml/l, depending on water hardness via built-in dosing devices. 0.5 - 1.5 ml/l, depending on water hardness via built-in dosing devices. Bedpan washers tested.
Application and dosing:	Do not mix with other products. The preparation must be carried out in accordance with the RKI guidelines and the Medical Device Operator Ordinance using suitable procedures. For commercial applications only. Specific weight (20 °C): 1.1 g/cm³ pH range (measured in demineralized water, 20 °C) 0.5 -1.5 ml/l 3.4 - 3.1 Viscosity (concentrate, 20 °C) :< 50 mPas
Technical data: ingredients:	ingredients for cleaning agents according to EC Detergents Regulation 648/2004: < 5 %: Polycarboxylates, also: preservatives (Methylchloroisothiazolinone/methylisothiazolinone)
CE-label:	Calligator® fulfils the requirements resulting from European medical device legislation.
Storage information:	Store in a frost-free place. Storage temperature between [0-30°C]. Can be stored for 3 years if stored properly.
Hazard notes and	Classification and labelling according to preparation line 99/45/EC for the Concentrate
Safety advice:	Hazard symbol Xi irritant Hazard notes: Irritates the eyes Safety recommendations: In case of contact with eyes, rinse immediately with plenty of water and consult a doctor. If swallowed, seek medical advice immediately show packaging or label. Only dispose of containers completely emptied and sealed. Disposal of residual contents: see Safety Data Sheet. Further safety and environmental information can be found in the EC Safety Data Sheets. These can be requested via DISCHER Support.

12 System disinfection

- If system disinfection is activated in your cleaning-disinfection machine, this takes place in a programme based on adjustable time intervals (e.g. every 24 hours) (except rim flushing)
- The programme runtime is extended by approx. 4 minutes

13 Recooling

- If recooling is activated in your cleaning-disinfection machine, this function is integrated in the programme sequence
- There are 3 options available
- Recooling is possible with **2, 4 or 8 litres of cold water**

14 Drying (optional)

- If your cleaning-disinfection machine is equipped with a dryer, this function is activated by the manufacturer
- Deactivation is only permitted by the technical staff

- With the Boy / Master and Piccolo device types, the drying phase is shown in the display
- The Compact device type does not have a drying device

- The medical utensil is dried after cleaning and disinfection
- The programme ends either when the drying time expires or when the set final temperature is reached

15 Removing the Medical Utensils

- At the end of the programme, the end of the process, the A0 value reached, and the current washing chamber temperature are shown on the display
- This signals the successful programme run

- With the **Boy / Master device type**, the A0 value and the temperature are also shown graphically on the display until the door is opened.

- The medical utensils can now be removed again and put into stationary circulation



Be careful when removing medical utensils

16 Malfunction

- When a malfunction occurs, a message appears on the display
- This means that the cleaning-disinfection machine cannot properly complete the programme
- Please follow the instructions on the display
- Please forward this malfunction message to your technical team
- The washing chamber remains locked (unlocked) until malfunction has been eliminated
- Switching off the mains voltage does not mean that the washing chamber door can be opened



In the event of a blocked drain, protect skin and eyes from contact with contaminated water.

Observe industrial safety!

17 Device Care and General Maintenance Recommendation

17.1 Care Instructions

a. Cleaning

For effective and gentle cleaning of stainless-steel surfaces, use a cleaner suitable for stainless steel (e.g. washing-up liquid) without polishing additives, a damp cleaning cloth and a microfibre cloth to dry off.

Use the cleaning product according to the manufacturer's instructions.

b. Disinfection

To disinfect stainless steel surfaces, use a method suitable for stainless steel. In practice, a wipe disinfection process or spray disinfection process is recommended. Disinfect the stainless-steel surfaces in accordance with the manufacturer's instructions and those of your hygiene department/person responsible. When carrying out the disinfection, pay attention to the contact times of the disinfectant and the prescribed neutralisation or removal of the remaining disinfectant solution, if specified by the manufacturer.

c. Care

For the final care of the stainless-steel surfaces, use a care product suitable for stainless steel and a clean cloth. Follow the manufacturer's instructions for use.

d. Important

- Always clean and dry in the direction of the grinding pattern or structure
- Observe the manufacturer's safety instructions
- Comply with the occupational health and safety regulations
- Do not inhale aerosols during disinfection
- Do not use chemicals containing chlorine, as these promote rust formation.
- Clean, disinfect and maintain the stainless-steel surfaces regularly

17.2 General maintenance recommendation

- The cleaning-disinfection machine must be disconnected from the power supply before any maintenance work is carried out
- The person performing the work must ensure that no other persons are present around the cleaning-disinfection machine
- Routine maintenance work must be carried out at regular intervals and includes all work that serves to keep machine parts clean and functional
- This work must be carried out regularly or, if necessary, because of inadequate cleaning results.

17.3 Operational lifespan

With regular maintenance, DISCHER washer-disinfectors have an expected operating lifespan of up to 20 years, which corresponds to around 150,000 process cycles. This information is based on monitored data from commissioning to decommissioning of the device.

Factors such as intensity of use, water quality, maintenance and chemicals used can influence the service life. Regulatory changes and component discontinuations by suppliers are beyond the manufacturer's control and can also influence the service life.

18 Important Customer Information

Dear Sir and Madam,

We would like to inform you that the faultless performance of your machine with thermal disinfection is only ensured when you use a lime binding agent.

In recent years, our disinfecting machines have been developed systematically to provide high performance in terms of

- safe disinfection
- short disinfection times
- low water consumption
- low energy consumption and
- long service life

Our lime binding agent Calligator® has also been improved thanks to this.

Be certain to use Calligator®, as this is the only lime binding agent which provides optimum support for our high-performance disinfecting machines. We guarantee it.

Use of other process chemicals may affect the guarantee of process safety.

Furthermore, if applicable, the warranty claim can be cancelled for all installed device parts.

If you would like to use another product, consult the enclosed document to ensure that it can be used.

Best regards,
Discher Technik GmbH

19 Declaration of compatibility for cleaning and lime binding agent

The manufacturer hereby confirms

.....
Enter name of the manufacturer

that the cleaning agent, rinse aid or lime binder sold by him

.....
Enter name of the product

Is suitable for use in the following machines:

DISCHER BOY D3 (S)
DISCHER MASTER D3 (S)
DISCHER PICCOLO D3P (S)
DISCHER COMPACT D3P

Dosing quantity per washing unit.....ml

The manufacturer of the product is responsible for the dosage information. Setting the DISCHER cleaning-disinfection machine to the specified dosage quantity is the responsibility of the operator. The undersigned is liable to the full extent for all malfunctions, damage and costs caused by the above-listed lime binding agent.

The person who signs confirms that the specifications from the European Medical Product Law are fulfilled.

....., date.....

.....
Stamp/Signature

20 Reportable Incidents

Report all serious incidents connected to the product (damage, injuries, infections etc.) to the manufacturer and the responsible authority of the EU Member State in which you are located.

21. Manufacturer's address CE label and disposal



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When disposing of the machine, the local regulations relating to recycling and the regulations of the Directive 2012/19/EU – WEEE2 must be observed.

Note in accordance with §19 ElektroG:

Electrical components, plastics and metals must be disposed of separately. Alternatively, the units can be returned to the manufacturer (DISCHER Technik GmbH) for disposal.



WEEE-Reg. No.: **DE 92 390 407**