O P E R A T I N G M A N U A L



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CENTRIFUGE CS /

FLEXIBLE USE OF THE SYSTEM INCREASES LABORATORY EFFICIENCY INDIVIDUALLY CUSTOMIZABLE





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1. INTENDED USE

The cytocentrifuge CS I is intended for separation and deposit of a monolayer of cells on microscope slides for professional use in routine and research laboratories in the fields of biology, medicine and industry.

The system consists of a centrifuge, a specific rotor (Cellcliprotor) and a sample preparation system composed of a cellclip, a microscope slide, a filter card and a reusable or disposable cell funnel.









Cytologyfunnel

Cellclip

Microscope slide

Filter card

2. SYMBOLS



Dangers, warnings and cautions are marked by this symbol

Special instructions regarding the operation of the instrument are marked by this symbol



3. SAFETY NOTES

Before the initial operation of your centrifuge you should read and pay attention to the operating instructions. Only personnel that has read and understood the operating instructions are allowed to operate the device.

3.1 SAFETY FEATURES

The Slee cytocentrifuge CS I is provided with the following safety features:

| | CS I |
|-------------------|------|
| Imbalance control | • |
| Alarm functions | • |

The institution which owns the unit and the persons working with the unit, servicing or repairing it have the responsibility for a hazard-free use.

3.2 ELECTRICAL POWER CONNECTION

Do not use any extension lead.



Make sure that electric power is constant:

- This should be examined during installation of the unit by a • competent person
- Use a dedicated fuse for the unit
- Do not connect another unit to the same power circuit.
- Before turning on the instrument, check if the voltage of the mains supply is identical with the name plate of the unit

3.3 WORKING WITH CENTRIFUGES

- Along with the operating instructions and the legal regulations on accident prevention, you should also follow the recognised professional regulations for working in a safe and professional manner.
- This centrifuge is a state-of-the-art piece of equipment which is extremely safe to operate. However, it can lead to danger for users or others if used by untrained staff, in an inappropriate way or for a purpose other than that it was designed for.
- Before using the centrifuge absolutely check the rotor for firm placement.
- When the centrifuge is running, according to IEC 61010-2-020, no persons, dangerous substances or objects may be within the safety margin of 300 mm around the centrifuge.
- The centrifuge must not be moved or knocked during operation.
- In case of fault or emergency release, never touch the rotor before it has stopped turning.
- To avoid damage due to condensate, when changing from a cold to a warm room the centrifuge must either heat up for at least 3 hours in the warm room before being connected to the mains, or run hot for 30 minutes in the cold room.
- Only the rotors and accessories approved by the manufacturer for this device may be used.
- The centrifuge may only be operated when the balance is within the bounds of acceptability.
- The centrifuge may not be operated in explosion-endangered areas.
- The centrifuge must not be used with inflammable or explosive materials or materials that react with one another producing a lot of energy.
- If users have to centrifuge hazardous materials or compounds contaminated with toxic, radioactive or pathogenic micro-organisms, they must take appropriate measures.
- Repairs must only be carried out by personnel authorised to do so by the manufacturer.
- The following safety regulations apply: IEC 61010-1 and IEC 61010-2-020 as well as their national deviations.



4. COMPONENTS

The Slee cytocentrifuge CS I is provided with the following standard components:

Operation manual

Cellcliprotor (12 positions)

12x Stainless steel Cellclips

(applicable for reusable and disposable Cytologyfunnels)

| CS I | |
|------|--|
| • | |
| • | |
| • | |

5. SPECIFICATIONS

| Power supply | 208 – 240 V 50 – 60 Hz |
|---|---|
| Power Consumption | 300 VA |
| Operating temperature range | +10 to +35 °C |
| Operating humidity | max. rel. 80 % non-condensing |
| Storage temperature range | +5 to +55 °C |
| Storage humidity | max. rel. 80 % non-condensing |
| Chamber volume Rotor Slide Capacity | Cytologyfunnel Single 0.5 ml per chamber Double 0.5 ml per chamber ECOfunnel 5 ml Cellcliprotor Up to 12 microslides |
| Max. RPM (speed) | Cellcliprotor 2.000 min ⁻¹ Centrifuge with applicable rotor 6.000 min ⁻¹ |
| Running time | 1 – 99 minutes, ∞ continuous run, short cycle mode (impulse key) |
| Safety | Imbalance switch-off Automatic rotor recognition Lid locking and holding |
| Dimensions [width x depth x height] | 366 mm x 430 mm x 257 mm |
| Weight without accessories | 24 kg |



6. UNPACKING AND INSTALLATION

6.1 UNPACKING THE INSTRUMENT

Remove the upper cover.

Remove the upper supporting foams.

Lift the centrifuge on both sides with an appropriate number of helpers and place it on the laboratory table.

For repacking use the original cases. Keep the packing material.

6.2 INSTALLATION SITE REQUIREMENTS

The site for installation should meet the following requirements:

- Place the instrument onto a vibration free level surface.
- No direct sunlight onto the instrument. No sources for heat or cold in the proximity of the instrument.
- A minimum distance of 10 20 cm between the instrument and walls or other laboratory equipment.

6.2 INSTALLATION

Remove the transportation safety device from the bottom of the housing.

Position the centrifuge in a stable and level manner in a suitable place.

Connect the power line of the instrument to the power outlet on the rear.

Turn on the mains switch. Switch position "I".

The last used centrifuge data will be displayed.

Open the lid.

7. INITIAL OPERATION

7.1 DISPLAY AND CONTROL PANEL

Software settings and motor operation can be operated with the control panel on the front side of the instrument.



RPM/RCF x 100 Speed



A numeric value of 500 RPM up to the maximum rotor speed can be set.

Preset in steps of 100 (RPM = displayed value x 100).

If the key or is kept pressed, the value changes with increasing speed. Display the brake step and the centrifuging radius.



Running time

Preset from 1 - 99 minutes, in 1 minute steps

Continuous operation "--"

Centrifuging radius. Input in centimetres. Preset from 5 - 16 centimetres, in 1-centimetre steps.

Braking steps 0 or 1. Step 1 = short run-down time, Step 0 = long run-down time.

If the key O or O is kept pressed, the value changes with increasing speed.



Start centrifugation run

End centrifugation run

The rotor runs down with the preselected brake step.

Save the brake step and the centrifuging radius.



Display of the relative centrifugal force (RCF)

The display of the relative centrifugal force (RCF) appears while the key RCF is kept pressed.



Short-time centrifugation

The centrifugation run occurs while the key IMPULS is kept pressed. Display the brake step and the centrifuging radius.



8. OPERATION OF CYTOCENTRIFUGE

8.1 OPENING THE LID

L

Swing handle rail on the lid upwards.

Open the lid.



The lid can only be opened when the centrifuge is switched on and the rotor is at rest. If it cannot be opened under these circumstances, see the section on "Emergency release".

8.2 INSERTION AND REMOVAL OF ROTOR

Removal of rotor

Take the rotor out of the centrifuge by pulling at the centre holder of the rotor.

Place the rotor carefully onto the supplied bench-top rotor holder.



Removal of Cellcliprotor out of the centrifuge.



Placement of Cellcliprotor onto the rotor holder.

Insertion of rotor

Lift Cellcliprotor carefully from rotor holder.

Place Cellcliprotor centred into the centrifuge.

Ensure that the safety pin locks into holder at the centrifuge hub.



Safety pin on bottom side of the Cellcliprotor.



Safety pin lock at the centrifuge hub.



Closed rotor

Take the closed rotor out of the centrifuge by pulling at the centre holder of the rotor.

Unlock lid by pushing the lever on the lid to the centre and lift the lid. Inside the rotor may develop a vacuum during centrifugation. In this case hold the lower part of the closed rotor with the other hand upon lifting of the lid.





Removal of closed rotor out of the centrifuge.

Unlocking and lifting of rotor lid.

Insert Cytologyfunnels or ECOfunnels into the rotor.

ATTENTION: Always load the rotor symmetrically!!

Position lid centred onto the rotor and press until you here the activation of the lock (click sound).

Place closed rotor centred into the centrifuge.

Ensure that the safety pin locks into holder at the centrifuge hub.



Loading of closed rotor.



Closing of rotor lid.

Cleaning of closed rotor

Do not clean the closed rotor in the dishwasher or with aggressive chemicals or cleaning solutions!

Step 1

Open the rotor.

Step 2

Remove the four screws at the centre of the rotor.

Step 3 Lift the Cellclip holder from the rotor.





Step 4 Remove the gasket from the outer rotor.





Step 5

Clean and disinfect all components (i.e. rotor, Cellclip holder, lid and gasket). Dry the components before reassembly.

Step 6

Assemble the Cellclip holder centred onto the rotor.

Ensure that the guiding pin locks into the respective opening in the rotor.

Step 7

Fasten the four screws in the centre of the rotor.

Step 8

Grease the pivot a little bit.

Step 9

Place the gasket onto the outer ring of the rotor. Ensure that the gasket is evenly fixed!







- Always fill the centrifuge containers outside of the centrifuge.
- No liquid should be allowed to enter the centrifugal chamber during filling and swinging out of the hangers.
- The maximum filling quantity for Cytologyfunnels and ECOfunnels specified must not be exceeded.
- In order to maintain the weight differences within the centrifuge container as marginal as possible, a consistent fill level in the containers is to be heeded.

8.3 PREPARATION AND USE OF CYTOLOGYFUNNELS

Step 1

Open the Cellclip.

Step 2

Step 3

Step 4

Cellclip.

Insert filter card.

Insert Cytologyfunnel

All Cytologyfunnels fit into the

Insert microscope slide with labelled side away from bracket.







Step 2



Step 4



Fix the assembly by pulling the brackets together and hook them into the holder.

Step 6

Insert the assembly into the rotor.

The Cytologyfunnel chamber should face into the centre of the rotor.

Step 7

Open the Cytologyfunnel lid and pipette 0.5 ml of sample into the chamber.

Close the Cytologyfunnel lid.







Step 7

Step 6



Step 8 Close the centrifuge lid

Set centrifugation time and centrifugation speed

Press start.

After centrifugation Open the centrifuge lid

Take the Cytologyfunnel assemblies out of the rotor.

Step 9

Open the Cytologyfunnel assembly by pulling the brackets out of the holder and simultaneous pressing of the Cytologyfunnel onto the microslide.

Step 10

Remove Cytologyfunnel and dispose (disposable) or put it into a disinfecting solution (reusable).

Step 11

Press thumb on the labelled areas of the microslide and carefully remove the filtercard.

Step 12

Take out the microslide for further staining and incubate Cellclip in disinfecting solution.



Step 9



Step 10



Step 11



Step 12

8.4 PREPARATION AND USE OF ECOFUNNELS

Step 1

Open the Cellclip and insert microslide with labelled side away from the bracket.

Step 2 Insert ECOfunnel seal onto the microscope slide.

Step 3

Insert ECOfunnel.

Step 4

Fix the assembly by pulling the brackets together and hook them into the holder.

Step 5

Insert the assembly into the rotor.

The ECOfunnel chamber should face into the centre of the rotor.

Step 6

Mix sample gently and check the turbidity of the sample. Depending on the turbidity pipette approx. 1 - 2 ml into the ECOfunnel chamber.



Step 1



Step 2



Step 3



Step 4



Step 5



Step 6



Step 7 Close the ECOfunnel lid.

Step 7

Close the centrifuge lid

Set centrifugation time and centrifugation speed. A centrifugation at 1200 rpm for 5 minutes is recommended.

Press start.

Step 8

Open the centrifuge lid after centrifugation.

Take the ECOfunnel assemblies upside down out of the rotor to avoid flow of excessive sample onto the microslide.

Step 9

Press ECOfunnel onto the assembly and open Cellclip by pulling the bracket out of the holder.

Keep assembly upside down to avoid flow of excessive sample onto the microslide.

Step 10

Hold microscope slide and ECOfunnel seal with one hand, the ECOfunnel with the other.

Keep assembly upside down to avoid flow of excessive sample onto the microslide.

Step 11

Remove ECOfunnel and dispose (disposable) or put it into a disinfecting solution (reusable).







Step 7





Step 11

Step 12 Remove microscope slide and seal together from the Cellclip.

Step 13 Carefully remove ECOfunnel seal from the microscope slide.

Stain microscope slide.







Step 13

8.5 CLEANING AND DESINFECTION OF REUSABLE ITEMS

Reusable Cytologyfunnels and ECOfunnels as well as Cellclips should be decontaminated and cleaned after usage. The use of standard surface disinfectants is recommended.

After disinfection Cytologyfunnels, ECOfunnels and Cellclips should be cleaned in water and dried.



Do not use bottle brushes or aggressive chemicals. Failure to comply may result in severe damage to the items.

Cytologyfunnels and ECOfunnels are considered for repeated use. Upon long-term use, the inner surface of the chamber will roughen. After two years an exchange of reusable Cytologyfunnels and ECOfunnels is therefore recommended.

8.6 DISPOSAL OF FILTERCARDS

Filtercards are intended for single use only.

All materials are considered contaminated with patient specimens or controls. After use dispose filter cards in accordance with applicable regulations.



8.7 SETTING THE BREAK STEP

Switch off the mains switch.

Keep the key beneath the speed indicator and the key IMPULS pressed simultaneously. Switch on the mains switch and release the keys again.

The speed indicator shows the machine version and the time indicator shows the set brake step: e.g.:





If the machine version and brake step are not displayed, press the key under the speed indicator until they are displayed.

The machine version is set by the manufacturer and cannot be changed.

Set the desired brake step with the keys \odot \odot beneath the time indicator. Step 1 = short run-down time, Step 0 = long run-down time.

Press (stop) to save the setting.

8.8 CENTRIFUGATION WITH PRESELECTED TIME



START

The rotation indicator appears while the rotor is turning. The time is displayed in minutes. The last minute is counted down in seconds. When the time is displayed in minutes, a point flashes next to the number.

STOP

During the centrifugation run, the rotor speed or the resulting RCF value and the remaining time are displayed.

8.9 CONTINUOUS OPERATION

Set the desired speed with the keys \odot \odot beneath the speed indicator.

Set the time to zero with the key \odot \odot beneath the time indicator. "--" is displayed.

Press start. The rotation indicator appears while the rotor is turning. The time count starts from 0.

The first minute is counted up in seconds, and then the time is displayed in minutes. When the time is displayed in minutes, a point flashes next to the number.

Press (stop) to end the centrifugation run. The rotor runs down with the set brake step.

During the centrifugation run, the rotor speed or the resulting RCF value and the expired time are displayed.

8.10 SHORT TIME CENTRIFUGATION

Set the desired speed with the keys beneath the speed indicator.

Keep $\stackrel{\text{\tiny MMS}}{=}$ pressed. The rotation indicator \bigcirc appears while the rotor is turning. The time count starts from 0.

The first minute is counted up in seconds, and then the time is displayed in minutes. When the time is displayed in minutes, a point flashes next to the number.

Release again to end the centrifugation run. The rotor runs down with the set brake step.

During the centrifugation run, the rotor speed and the expired time are displayed.



8.11 DISPLAY OF THE RELATIVE CENTRIFUGAL FORCE

The relative centrifugal force (RCF) can be displayed during the centrifugation run. If the relative centrifugal force (RCF) is used, the centrifuging radius must be entered.

Keep 🖙 pressed during the centrifugation run.

The relative centrifugal force (RCF) appears in the speed indicator (RCF = displayed value x 100).

Release *Refe* again. The speed is displayed.

RELATIVE CENTRIFUGAL FORCE

The relative centrifugal force (RCF) is given as a multiple of the acceleration of gravity (g). It is a unit-free value and serves to compare the separation and sedimentation performance. These values are calculated using the formula below:

$$\mathsf{RCF} = \left(\frac{\mathsf{RPM}}{1000}\right)^2 \times \mathsf{r} \times 1,118 \qquad \Rightarrow \qquad \mathsf{RPM} = \sqrt{\frac{\mathsf{RCF}}{\mathsf{r} \times 1,118}} \times 1000$$

RCF = relative centrifugal force; RPM = rotational speed (revolutions per minute); r = centrifugal radius in mm. The relative centrifugal force (RCF) stands in relation to the revolutions per minute and the centrifugal radius.

8.12 ROTOR IDENTIFICATION

After every start of a centrifugation run the rotor utilised is identified.

After a rotor change, the drive switches off and the rotor code (rot xx) is displayed.

Press (START). The last used centrifuge data will be displayed.

A further operation of the centrifuge is only possible after a single opening of the lid. If, following a rotor change, the maximum speed of the rotor is less than the set speed, the speed is limited to the maximum speed of the rotor.

8.13 EMERGENCY RELEASE

The lid cannot be opened during power failure. An emergency release has to be executed by hand.

For emergency release disconnect the centrifuge from the mains. Open the lid only during rotor standstill. Only the plastic release pin provided may be used for emergency release.

Switch off the mains switch (switch position "0").

Look through the window in the lid to be sure that the rotor has come to a standstill.

Insert the release pin horizontally into the hole. Push the unlocking pin in until the handle can be lifted when the pin is pressed down.

Open the lid.



9. APPLICATION NOTES

9.1 APPLICATIONS

Any cell suspensions may be processed with the CS Centrifuge.

Cerebrospinal fluids Pleural fluids Pericardial fluids Peritoneal fluids Synovial fluids Urine Bronchial alveolar lavage washes Oral cavity washes Gastric washes Exudates and transudates Fine needle aspirates and other aspirates Sputum

9.2 APPLICATION NOTES

Sample Volume

Cytologyfunnels are designed to give optimum results with sample volumes of 0.1 to 0.5 ml.

Double Cytologyfunnels are designed to give optimum results with sample volumes of 0.1 to 0.5 ml per chamber.

ECOfunnels are designed to give optimum results with up to 4 ml of sample.

Cell count

To guarantee optimum results, the cell count should be as indicated below:

| Cytologyfunnel | 100.000 or 10^5 cells per chamber |
|----------------|---|
| Double | 100.000 or 10 ⁵ cells per chamber |
| Cytologyfunnel | |
| ECOfunnel | 1000.000 or 10 ⁶ cells per chamber |

Samples with higher cell counts should be diluted to the appropriate cell concentration.

Centrifugation speed, time and acceleration

The majority of users utilize a centrifugation speed of 500 to 1.500 rpm for 10 minutes. This is sufficient for most samples. The higher the protein load of the sample, the higher the centrifugation speed and the longer the centrifugation time should be selected.

Crucial for optimum results is the complete absorption of the liquid by the filtercards and stable fixation of the cells to the surface of the glass microslides.

If the centrifugation time is selected too short, remaining sample fluid will wash off the cells from the surface of the microslide. Too long centrifugation times will result in drying of the cell and potential damage to the cell structures. This can lead to wrong diagnostic results!

Examples

| Sample type | Centrifugation time | Centrifugation speed |
|--|---------------------|---------------------------|
| | [minutes] | [RPM; min ⁻¹] |
| Kidney puncture | 10 | 1000 |
| Lavage washes | 10 | 1000 |
| Liquor | 7 | 1000 |
| Mamma puncture | 10 | 1000 |
| Pleural fluids | 12 | 800 |
| CD4 ⁺ or CD8 ⁺ lymphocytes | 5 | 500 |
| Urine | 10 | 1000 |

Do not fix the slides in 95 % alcohol before complete drying of the microscope slides. Failure to comply results in washing off the cells from the glass surface.



CS Centrifuge conversion table

| Speed | Force |
|---------------------------|------------------------|
| [RPM; min ⁻¹] | [g; m/s ²] |
| 500 | 28 |
| 700 | 55 |
| 1000 | 112 |
| 1300 | 189 |
| 1500 | 252 |
| 1800 | 362 |
| 2000 | 447 |

10. CLEANING AND MAINTENANCE

10.1 CLEANING

The recommended frequency of cleaning of the cytocentrifuge depends on how frequently the instrument is used.

Clean the centrifuge housing and the centrifuging chamber regularly, using soap or a mild detergent and a damp cloth if required. For one thing, this services purposes of hygiene, and it also prevents corrosion through adhering impurities.

In the event of condensation water formation, dry the centrifugal chamber by wiping out with an absorbent cloth.

If infectious materials penetrate into the centrifugal chamber this is to be disinfected immediately.

Lightly rub the rubber seal of the centrifuge chamber with talcum powder or a rubber care product after each cleaning.



Wear protective clothing and disposable gloves according to Good Laboratory Practices.

Please take note of the safety aspects of the instrument.

Do not use acetone or xylene for cleaning the unit. Only use alcoholic media.

Never spray or use cleaning medium directly onto the touch panels.



10.2 RECOMMENDED MAINTENANCE AND SERVICE SCHEDULE



Pull the mains plug before cleaning.

Before any other cleaning or decontamination process other than that recommended by the manufacturer is applied, the user has to check with the manufacturer that the planned process does not damage the device.

Centrifuge

Clean the centrifuge housing and the centrifuging chamber regularly, using soap or a mild detergent and a damp cloth if required. For one thing, this services purposes of hygiene, and it also prevents corrosion through adhering impurities.

In the event of condensation water formation, dry the centrifugal chamber by wiping out with an absorbent cloth.

If infectious materials penetrate into the centrifugal chamber this is to be disinfected immediately.

Lightly rub the rubber seal of the centrifuge chamber with talcum powder or a rubber care product after each cleaning.

Rotors and Attachments

In order to prevent corrosion and material changes, rotors and accessories must be cleaned regularly with soap or a mild detergent and a damp cloth. Cleaning is recommended at least once a week, even better after every usage.

If the rotor or accessory parts are contaminated by pathogenic material, a suitable cleaning has to be executed.

The rotors and accessory parts must be dried immediately after cleaning.

Angle rotors, container and hanger made of aluminium are to be lightly greased after drying using acid-freen grease, e.g. Vaseline.

The sealing ring is to be replaced immediately upon indication of crack formation, embrittlement or abrasive wear. In order to prevent the packing ring from twisting when opening and closing the cover, the packing ring must be lightly rubbed with talcum powder or a rubber care product. In order to prevent corrosion as a result of moisture between the rotor and the motor shaft, the rotor should be disassembled and cleaned at least once a month, and the motor shaft should be lightly greased.

The rotors and accessory parts are to be checked on a monthly basis for corrosion damage.

Rotors and attachments may no longer be utilised upon indication of wear and tear or corrosion.

Check the firm seating of the rotor on a weekly basis.

Rotors and accessories with limited term of use

The use of specific rotors, suspensions and accessories is time limited.

They are marked with an expiry date, e.g. "einsetzbar bis Ende: / usable until end of: IV. Quartal 2011" (applicable until the end of: IVth quarter 2011).

The rotors, suspensions and accessories may not be used for longer periods for safety reasons once the marked expiry date has been reached.



11. SERVICE

Internal components should only be serviced by technicians authorized by SLEE medical GmbH.

If technical service or spare parts are necessary, please contact your local SLEE medical GmbH distributor. Please have the following information available:

- Complete contact details
- Type of instrument and serial number
- Place of instrument and name of user
- Purpose of service call
- Delivery date of the unit

If it is necessary to return the instrument, it must be cleaned and disinfected before delivery. It must be returned in its original packing.

If the instrument or parts thereof are sent back in a dirty or non-disinfected condition, SLEE medical GmbH reserves the right to return the parts to the debit of the customer.

12. OPTIONAL ACCESSORIES

Cytologyfunnel reusable

#39910000 (12 pcs.)

Cytologyfunnel disposable

#39910004 (100 pcs.) #39910005 (500 pcs.)

Filtercards for Cytologyfunnel reusable

#39910001 Standard (200 pcs.) #39910006 Thin, for samples less 0.4 ml (200 pcs.)

Cellslides Single circle uncoated

#39910002 (100 pcs.)

Cellslides Single circle coated

#39910003 (100 pcs.)

Double Cytologyfunnel reusable

#39910010 (12 pcs.)

Double Cytologyfunnel disposable, offset

#39910014 (100 pcs.) #39910015 (500 pcs.)

Filtercards for Double Cytologyfunnel

reusable Cellslides Double circle uncoated #39910012 (100 pcs.)

Cellslides Double circle coated

#39910013 (100 pcs.)

Cellslides Double circle, offset

For Double Cytologyfunnel disposable only! #39910016 (100 pcs.)

ECOfunnel reusable

#39910020 (12 pcs.)

ECOfunnel disposable, offset

#39910023 (100 pcs.) #39910024 (500 pcs.)

ECOseal for ECOfunnel

#39910021 (100 pcs.)

ECOslides coated

#39910022 (100 pcs.)

Cellclip for Cellcliprotor

#39910031 (1 pc.)



13. WARRANTY

SLEE medical GmbH guarantees that the product delivered has been subjected to a comprehensive quality control procedure, and that the product is faultless and complies with all technical specifications and/or agreed characteristics warranted.

SLEE medical GmbH guarantees that the instrument is manufactured under an ISO 9001:2015 and ISO 13485:2016 quality management system.

Unauthorized modification or repair by third party persons will void the warranty.

Only original SLEE medical GmbH spare parts must be used.

Guarantee claims can be put forward only if the instrument is used according to this manual and for the purpose described.

Mistakes and errors which occur because of improper use cannot be accepted.

14. DISPOSAL

The instrument or parts of the instrument must be disposed of according to existing local applicable regulations.

Notes

Notes



SLEE medical GmbH • Am Neuberg 14 55268 Nieder-Olm • Germany www.slee.de

T: +49 (0) 6136 76997-0 E: mail@slee.de









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