

OPERATING MANUAL

MAGNETOLITH



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TTM.####

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1 Introduction

1.1 Structure of this Operating Manual

This manual contains warnings, safety instructions and specific operating instructions in accordance with liability regulations.

DANGER refers to a situation of acute danger which, if not avoided, could lead to serious or fatal injury.



DANGER!

The source of the danger is stated here.

These are the possible consequences!

- The instructions for avoiding the danger are given here.

WARNING refers to a situation of potential danger which, if not avoided, could lead to serious injury.



WARNING!

The source of the danger is stated here.

These are the possible consequences!

- The instructions for avoiding the danger are given here.

CAUTION indicates that incorrect operation could lead to minor injuries.



CAUTION!

The source of the danger is stated here.

These are the possible consequences!

- The instructions for avoiding the danger are given here.

ATTENTION indicates that incorrect operation could lead to damage to the device.

ATTENTION!

The source of the danger is stated here.

These are the possible consequences!

- The instructions for avoiding the danger are given here.

NOTE

Additional information concerning specific features or operating instructions is preceded by the term 'NOTE'.

Instructions for actions

- This text instructs you in how to operate your system correctly.
- This text subdivides an action into steps or comments on the action step.
- » This text shows the result of an action.

Lists

- This text is part of a list.

Menus and buttons

Names of menus and buttons are highlighted using **CAPITAL LETTERS**.
 The operating procedure descriptions also contain references to the buttons that you have to press and what you can expect to see in the text.

Cross references to other chapters

In cross references to other chapters, the corresponding chapter number and chapter heading are highlighted in the text in bold:

E.g.: Cross reference to **CHAPTER 3.2 PRECONDITIONS FOR OPERATION**.

1.2 Abbreviations

The following abbreviations are used in this manual:

Abbreviation	Meaning
HV	High Voltage
HF	High Frequency
PE	Potential Equalization
EMTT	Extracorporeal Magnetic Transduction Therapy
Hz	Hertz (unit of frequency)

Table 1-1 Abbreviations

2 General Safety Information

2.1 Instructions for safe use

The following chapter contains all safety information that has to be followed when working with the MAGNETOLITH.



WARNING!

Incorrect handling of the device.

Risk of injuries to the patient and the operating personnel!

- Read this chapter carefully before you start using the MAGNETOLITH.
- Read the separate operating manuals for all devices associated with the MAGNETOLITH.

2.1.1 Intended use and operational safety

To ensure this device is utilised in accordance with its intended use, the user must possess the necessary technical proficiency and knowledge of the operating manual. The device is only to be used for the applications described in **CHAPTER 3.1.1 INDICATIONS**.

Only perform treatments approved by STORZ MEDICAL AG!

The device is only to be operated by trained personnel who meet the **PRECONDITIONS FOR OPERATION** described in **CHAPTER 3.2**.

All status and fault messages signalled during treatment must always be attended to without delay.

Checks and inspections prior to treatment

Always make sure the device is functioning safely:

- Check the functions before starting treatment. For further information, consult **CHAPTER 5.6.2 FUNCTIONAL CHECKS**.
- Have the maintenance procedures recommended by the manufacturer carried out by personnel suitably authorised (**CHAPTER 7.4 MAINTENANCE AND SAFETY CHECKS**).

Protection against electrical hazards

Sources of voltage can give rise to currents as a result of body resistance, which can flow through the patient and endanger the operator.

- Therefore, always connect the potential equalisation connector of the MAGNETOLITH in accordance with national guidelines.
- Devices that are not medical products in accordance with EN 60601 must be set up outside the patient environment.
- Do not touch electrical connectors while you are touching the patient.

- Disconnect the MAGNETOLITH from the mains before starting any cleaning or maintenance work.
- Disconnect the applicator from the device before carrying out maintenance work. Do not reconnect it until it has been completely reassembled.
- There must not be any damage to the applicator or the applicator cable.

Protection against noise

The noise level during administration of pulses is within the safe range.

2.1.2 Safety during treatment of the patient

Pulses can give rise to undesirable reactions. The patient must be continuously observed during the treatment and attention must be paid to any reactions experienced by the patient. The patient must not be under anaesthetic.

- Only perform treatments approved by CuraMedix!

The user is responsible for correctly positioning the applicator and correctly selecting the treatment zone.

- Before treatment, make sure that all metallic objects (such as rings, chains, glasses, watches, wallets and belts) have been removed.
- In the case of persons with pacemakers and other electronic implants, maintain a safety distance of at least 2 meters.

2.2 Warning against damage to equipment and the device

The applicator is highly magnetic, which presents the following risks:

- Magnetic data carriers such as disks, bank cards, credit cards, magnetic tapes, video tapes and hard drives may malfunction and data stored on them may be permanently erased.
- Any electronic devices such as medical devices, mobile phones, pocket calculators, electronic and mechanical watches, car keys with remote controls or electronic immobilisers, audio devices, televisions, computers, monitors or credit card chips may malfunction or may be irreparably damaged. Devices of the above named kind must maintain a safety distance of at least one meter.

Electromagnetic compatibility

This device complies with the requirements of the applicable standard on electromagnetic compatibility. Nevertheless, portable and mobile HF communications equipment (e.g. mobile phones) can interfere with medical electrical equipment and should not be used at a distance of any less than 30 cm from the device, including the cables specified by the manufacturer.

Failure to comply with these instructions may reduce the device's performance features. This device is subject to special precautionary measures regarding EMC and must be installed in accordance with the EMC directives in **CHAPTER 9.4.1 EMC GUIDELINES AND MANUFACTURER'S DECLARATION**.

The use of accessories or cabling not authorized by the manufacturer is not permitted. Increased electromagnetic interference may occur, which may cause the device to function incorrectly.

The MAGNETOLITH is not allowed to be positioned immediately next to or jointly with other devices. If the operation near or jointly with other devices is required, the MAGNETOLITH must be tested in that particular environment to ensure it can be used as intended.

The device is NOT intended for use in the vicinity of devices such as HF surgery, MRT or diathermy devices (according to IEC/EN 60601-1-2).

The device must only be connected to properly earthed and correctly installed shockproof sockets!

Wear

- To minimize the appearance of wear on the applicator, avoid exposing it to mechanical stress. The applicator should not be torn.
 - Replace the applicator if there is evidence of wear on it.
- Any damage to the device resulting from incorrect operation is not covered by the manufacturer's warranty.

Setup and operation

The applicator should not be resting on the MAGNETOLITH during operation.

- Maintain a safety distance of at least 30 cm between the MAGNETOLITH and the applicator. Otherwise, the device could be damaged.
- When treatment is not taking place, the applicator must be placed in either the holder on the housing or the cradle on the holding arm.

The ventilation slits on the device must be kept uncovered.

- Check that the device is in perfect working order before each use. For further information, consult **CHAPTER 5.6.2 FUNCTIONAL CHECKS**.
- Never cover the device when in use!
- Make absolutely sure that no liquid can seep into the system housing or applicator.

Storage and transport

Incorrect storage and transport can result in damage to the device and device failure.

- Make sure that no cables are crushed or sheared.

Disposal

- Comply with national disposal regulations when disposing of the MAGNETOLITH or individual components.
- Comply with the information in the operating manuals for the additional devices.

3 Principles

3.1 Physical principles

The MAGNETOLITH is a universal, compact therapy device that enables extracorporeal magnetic transduction therapy (EMTT™). To operate it, a high-voltage generator is used to charge a capacitor, which in turn forms a slightly attenuated oscillating circuit using a coil that generates a magnetic field. At the center point, a magnetic field with a field strength of around 80 mT is generated, as is an oscillation frequency of around 130 kHz. The magnetic field drops off exponentially, disappearing completely after approximately 125 is. The magnetic field oscillation is so short that it does not cause tissue to heat up. This means that the MAGNETOLITH is very gentle on tissue.

3.1.1 3.1.1 Indications

– Chronic musculoskeletal conditions

3.1.2 Contraindications

Treatment with the STORZ MEDICAL MAGNETOLITH is not permitted in the following cases:

- Pacemakers and other sensitive electronic implants
- Implants that are not marked as MR Safe
- Pregnancy
- Brain in the treatment zone

Special precautionary measures

There are no contraindications in the following cases providing special precautionary measures are taken:

- Tumor in the treatment zone:
 - Do not hold the applicator directly over the affected area.
- Tattoos and permanent make-up:
 - If the patient has tattoos with ink which contains metal particles, the treatment area may heat up.
- Implants marked as MR Safe or MR Conditional
 - Ask the patient about their implant. Do not hold the applicator directly over the implant.

Observe additional safety measures for the operator, outlined in **CHAPTER 2.1.2** and **CHAPTER 2.2**

3.1.2 Side effects

Treatment with the MAGNETOLITH may cause the following side effects:

- Mild pain at the application site
- Reddening

These side effects generally abate after no more than a day.

3.2 3.2 Preconditions for operation

3.2.1 3.2.1 Operating personnel

The MAGNETOLITH is intended exclusively for use by healthcare professionals who have been trained to use the device. These professionals are expected to have practical knowledge of medical procedures and applications, know the specialist terminology involved, and have experience in treating the indications stated in **CHAPTER 3.1.1 INDICATIONS**.

Professionals must have basic physical and cognitive abilities such as vision, hearing and literacy, and have basic functional use of their upper extremities.

The device is designed for a demographic target group between 18 and 65 years.

3.2.2 Training of the operator

Operators of the MAGNETOLITH must have been adequately trained in using this device. An introduction to the principles of operation will be provided by your STORZ MEDICAL dealer with reference to this operating manual and will be documented in the system logbook.

The operator must be instructed in the following points:

- Operation and intended use of the device with practical exercises
- Mechanism of action and function of the device and the energies delivered by it
- All component settings
- Indications for use of the device
- Contraindications and side effects of the magnetic pulses
- Explanation of the warnings in all operating modes/states
- Training on how to perform the functional checks

Further training requirements vary from country to country. It is the operator's responsibility to ensure that the training meets the requirements of all applicable local laws and regulations. Further information about training in the operation of this system can be obtained from your CuraMedix. You can also contact us directly at the following address:

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40 Albion Road Suite 101
Lincoln, RI 02865
401-333-6500
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Telephone: 401-333-6500, 877-699-8399
Fax: 401-633-6565
info@curamedix.com

4 Device Description

4.1 Control and functional elements

The MAGNETOLITH is controlled with the operating and display elements on the display at the front of the housing.



Fig. 4-1 Front view of MAGNETOLITH



Fig. 4-2 Right side of MAGNETOLITH

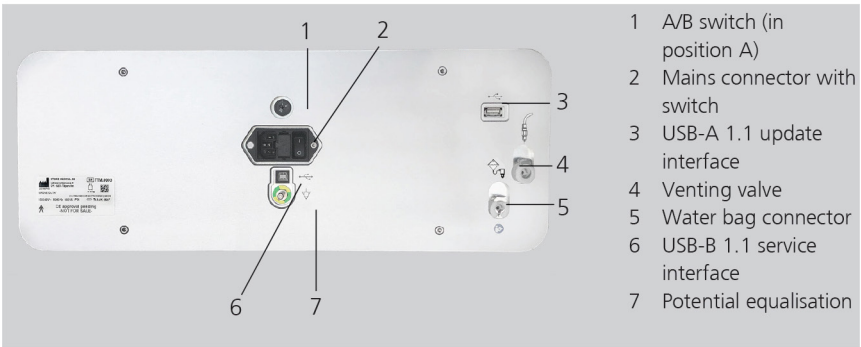


Fig. 4-3 Rear of MAGNETOLITH

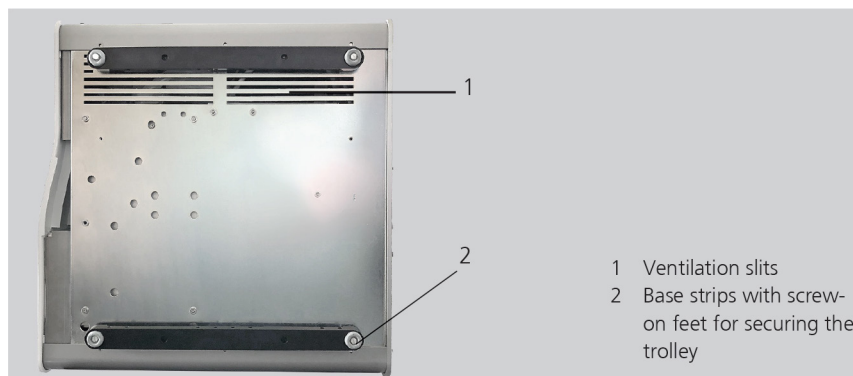


Fig. 4-4 Underside of MAGNETOLITH

4.2 Applicator

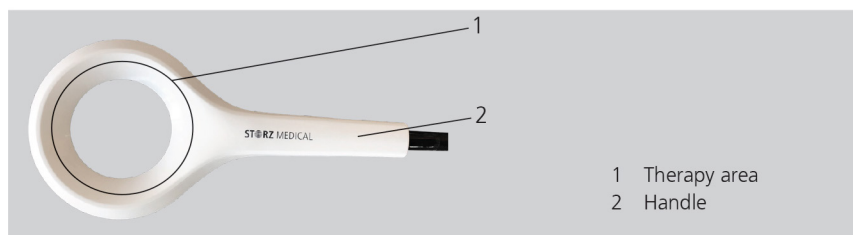


Fig. 4-5 Applicator

4.2 Scope of supply

The standard scope of supply of the MAGNETOLITH includes the following items:

- MAGNETOLITH control unit
- Mains cable (EU/USA)
- User manual (operating manual, system logbook and training records)
- Applicator
- Applicator holder
- Trolley

4.4 Unpacking the device

- Check that all items are included in the packaging container and that they are not damaged.
- Remove the device and accessories from the packaging container. Proceed with extreme caution.
- Contact your supplier or the manufacturer/dealer immediately if any items are missing or damaged.
- Keep the original packaging for transporting the device.

4.5 Transport

- Make sure there are no objects on the device.
- Disconnect the mains plug.
- Remove the potential equalization connector.
- Release the brakes on the four transport wheels by pulling them up.



Fig. 4-6 Brake released

- Take hold of the transport handle on the device and roll it slowly and carefully.



Fig. 4-7 Transport handle

- When selecting the transport pathway, bear in mind the limited ground clearance of the device.
- Secure the transport wheels by pushing the brake levers down.

4.6 Installation Instructions

4.6.1 Installing the applicator holder

- Push the holder into the slots on the base strip at the right-hand side.

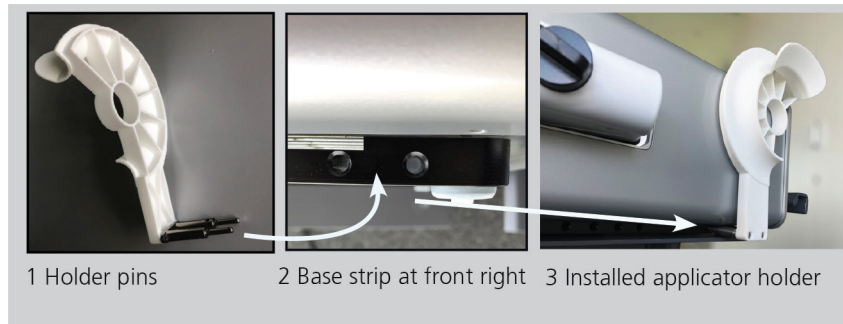


Fig. 4-8 Attaching the applicator holder

4.6.2 Securing the applicator

The MAGNETOLITH features an articulated arm with a cradle for the applicator. The articulated arm can be adjusted to move the applicator into the required position before treatment.

The articulated arm and cradle come attached to the trolley tabletop with four screws.

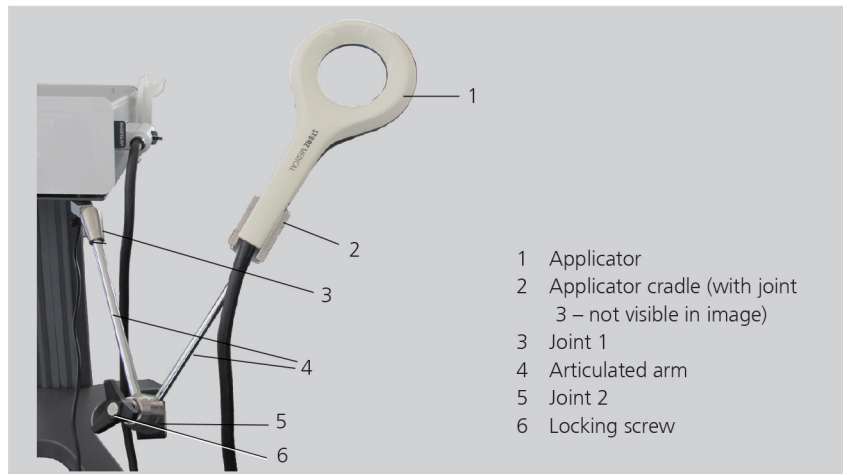


Fig. 4-9 Articulated arm for securing during treatment – with applicator

Adjusting the articulated arm

Before treatment, the articulated arm must be moved into the right treatment position by adjusting each of the joints.

- Keep hold of the articulated arm while adjusting it.
- Unscrew the locking screw.

This releases all the joint fixings (1, 2 and 3) simultaneously.

- Adjust the treatment position.
- Hold the arm in this position while you retighten the locking screw.

Inserting the applicator into the cradle

The applicator cradle is narrower at the bottom than it is at the top. This means that it is only possible to insert the applicator in one direction (see Fig. 4-10/1).

- Push the applicator into the cradle from the top (in the direction of the arrow).

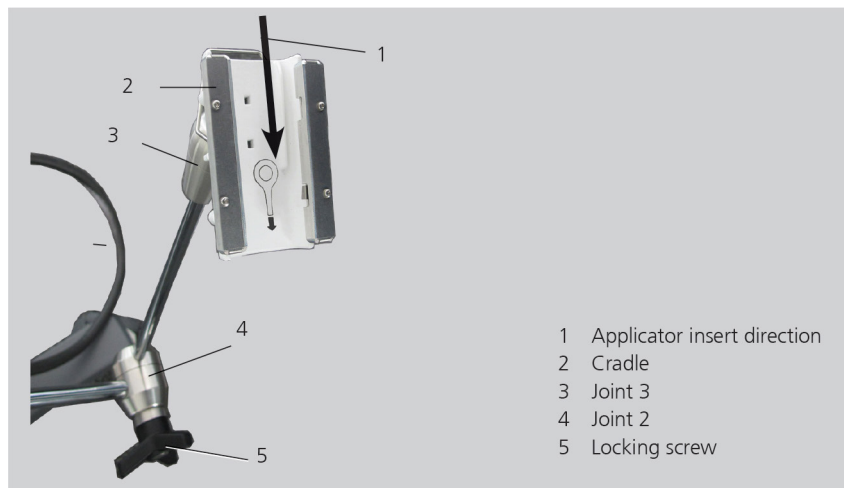


Fig. 4-10 Direction for inserting the applicator

Releasing the applicator from the cradle

- Pull the clip (Fig. 4-11) in the direction of the joint and pull the applicator out of the cradle at the same time.

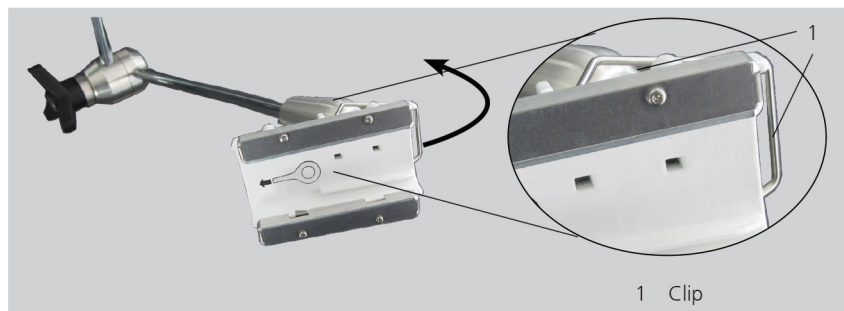


Fig. 4-11 Clip for releasing the applicator

4.6.3 Connecting the electrical power supply



WARNING!

Incorrect connection

presents the risk of an electric shock!

- Do not connect the device to a power supply network unless it has a protective conductor.

- Connect the mains cable to the mains connector on the rear of the device.

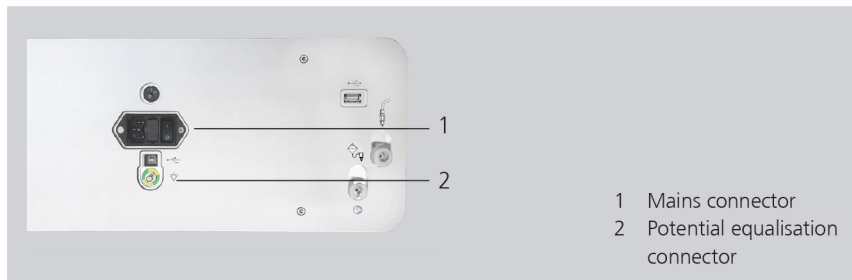


Fig. 4-12 Connecting the electrical power supply

- Insert the mains cable into the electrical socket.

ATTENTION!

The device must only be connected to properly earthed and correctly installed shockproof sockets!

Do not use the device with other devices on a multipoint connector.

It must be possible to disconnect the device from the power supply network at any time without restriction.

4.6.4 Potential equalization connector

There is a potential equalization connector on the rear of the device in case potential equalization is required due to national regulations or the room classification.

- Connect one end of the potential equalisation cable to the PE connector of the device (Fig. 4-12/2) and the other end to your PE connection.

4.6.5 Connecting the applicator

- Connect the plug of the applicator to the connector on the right of the MAGNETOLITH.

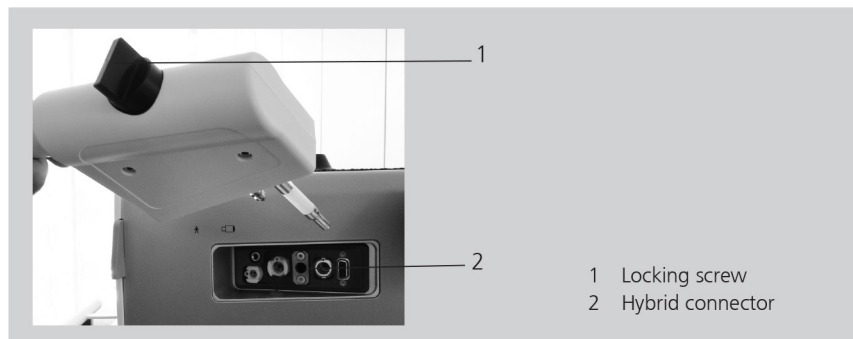


Fig. 4-13 Connecting the applicator

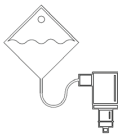
- Secure it using the locking screw. The locking screw must be tightened up to the stop until finger-tight.
- Insert the applicator in the cradle (see Fig. 4-19).

4.7 Compatibility

The following applicators may be operated with the MAGNETOLITH:

- Applicator Art. no. 30999

4.8 Symbols

Symbols	Meaning
	Please comply with the operating manual!
	Application unit of type B
	Potential equalisation
	Applicator connector
	USB connector
	CE mark (in compliance with Medical Device Directive (MDD) 93/42/EEC)
	TÜV certification mark
	WEEE label
	Hose connector
	Water bag connector

5 Operation

5.1 Switching on and off



WARNING!

Damage to the insulation for the applicator and applicator cable may **result in electric shocks, causing serious injury!**

- Check the insulation constantly and before switching on the device each time.
- Treatment must not take place if the insulation is damaged. Replace the applicator in this case.

- Switch the control device on or off at the mains switch on the rear.
- Make sure the A/B switch is set to A. Otherwise, the device will not respond to the mains switch being pressed.

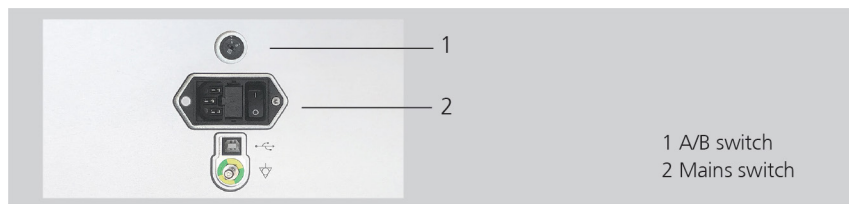


Fig. 5-1 Switching on the device

The trigger button is on the front of the device, below the display (see Fig. 5-3). A high-voltage test must be performed daily, after the device has been switched on and before any pulses are triggered.

5.1.1 High-voltage test (HV test)

The HV test detects interference and checks the energy levels. Pulse triggering is blocked until the test is complete.

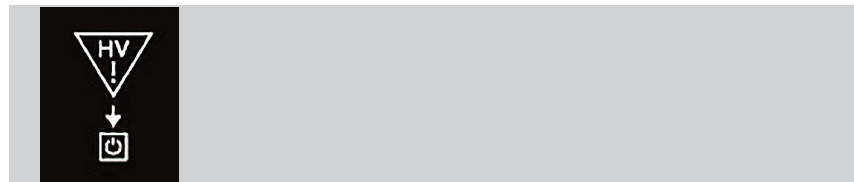


Fig. 5-2 HV test symbol

- Press the trigger button once after the device has been switched on (see Fig. 5-3). If the energy levels and frequencies appear on the parameter display after a few seconds, this indicates that the HV test was successful.

NOTE

A fault message appears on the display if the system detects a malfunction. The device is blocked to prevent further treatments.

- Immediately inform your Service centre.

5.2 Symbols and displays

Operate the MAGNETOLITH by directly touching the symbols that appear on the display. Symbols surrounded by a white circle represent controls that the user is able to press. Press the increase **+** and decrease **-** symbols to adjust the energy level, nominal pulse value and frequency value.

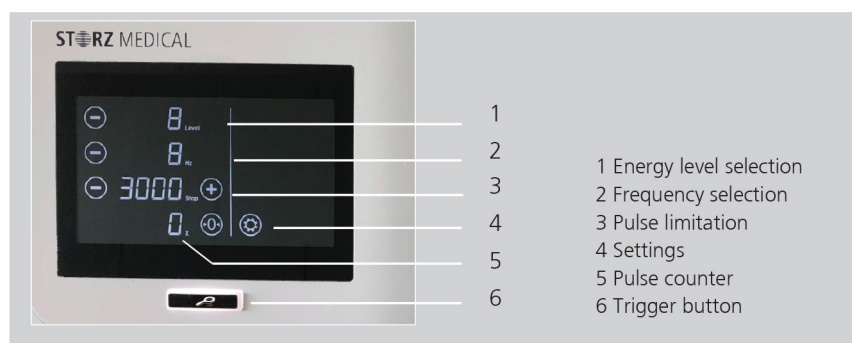


Fig. 5-3 Default user interface and trigger button

5.2.1 Settings menu symbols

The symbols on the right side of the display change according to the situation.

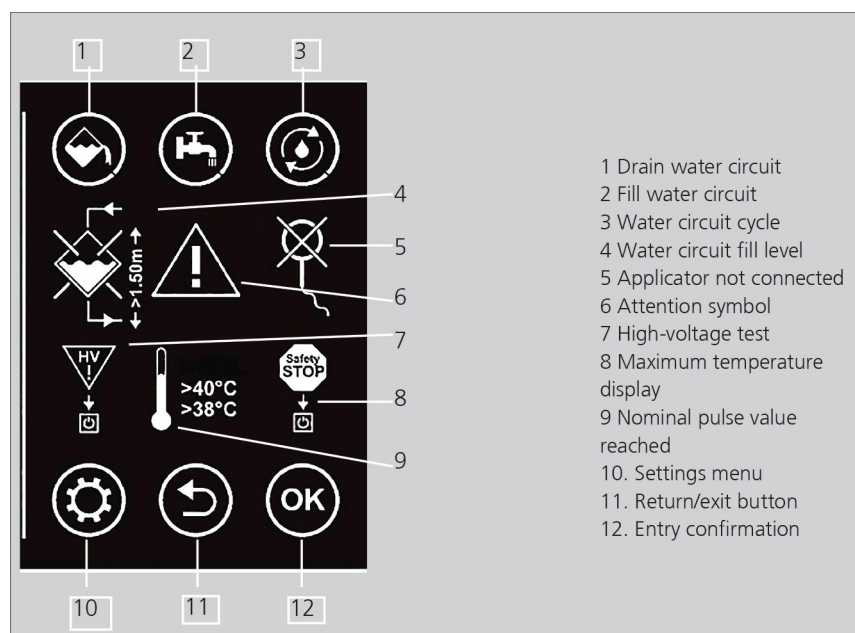


Fig. 1-3 Settings menu symbols

5.2.1.1 Symbol explanations

Symbols	Meaning
	HV test required Press the trigger button See Chapter 4.4 for information on performing the HV test
	Treatment has stopped because the safety stop has been reached Press the  button to continue treatment
	Caution symbol Always appears together with another symbol Action urgently recommended
	Caution symbol flashing Always appears together with another symbol Action required
	Warning: water temperature is > 38 °C • Press the OK button. Treatment can now be continued
	Fault: water temperature is > 40 °C Together with the caution symbol • Press the OK button. Further treatment is possible once the water temperature has returned to permitted values
	Warning: applicator not connected Always together with the caution symbol
	Applicator change recommended • Press the OK button. Treatment can now be continued
	Together with the caution symbol Applicator change urgently recommended • Press the OK button. Treatment can now be continued
	Together with the flashing caution symbol: Applicator change required

Table 5-1 Symbols relating to operation

5.2.2 Device information and service menu

Pressing the service button  calls up the status information on the left side of the display. There are nine information displays

Symbols	Meaning
	Switch to the service settings
	Info 1 Press to  switch to the next information item Press to  switch to the previous information item

Table 5-2 Service settings with device information

Info no.	Meaning	Example
1	Total number of applicator pulses The million and thousand digits are shown separately.	1. 8Mio 2. 000018
2	Applicator operating hours	6 h
3	Hardware no./article no. + serial no. of applicator	030999_01_9
4	Total number of control unit pulses The million and thousand digits are shown separately.	1. 8Mio 2. 000018
5	Control unit operating hours	30 h
6	Software no. of control unit	0 25746_05_52414
7	Hardware no. of control unit	025012_04_0
8	Boot loader no. of control unit	025747_02_7603
9	bEEP function: for switching between ON and OFF. ON: A sound is heard when a button is pressed. OFF: No sound is heard when a button is pressed.	

Table 5-3 Status information (1–9)

5.3 Selecting treatment parameters

- Set the energy level as well as the pulse frequency using the  or  buttons in the PARAMETER SELECTION field.
- » The treatment is now carried out with the displayed values.

5.4 Resetting the treatment pulse counter

- Press the  button in the COUNTER DISPLAY field to set the applied magnetic pulses display to "0".



Fig. 5-4 Counter reading
» The pulse number display is reset.

5.5 Software updates

- Plug the USB stick into the USB A slot (**CHAPTER 4.1 CONTROL AND FUNCTIONAL ELEMENTS**) of the MAGNETOLITH.
- Insert the applicator into the MAGNETOLITH.
- Switch the MAGNETOLITH on – the update will start automatically.
- The display remains black for 10 seconds during the update.
- The starting process begins when the update is complete.
- » Carry out treatment as normal.

5.6 Treatment preparation

- Each time the device is transported, subsequently make sure that all functional checks have been performed on the device before you start treatment. For further information, consult **CHAPTER 5.6.2 FUNCTIONAL CHECKS**.

5.6.1 Start-up

- Press the trigger button.
- The trigger button functions as an on/off switch for administering the pulses when it is pressed briefly (< 1.5 s). Pressing it for longer (> 1.5 s) causes it to function as a button; i.e. the pulses will continue until the button is released.

The maximum energy level (8) corresponds to a flow density of around 80 millitesla (mT) at the centre of the applicator. The levels are around 10 millitesla apart.

5.2.2 Functional checks

Perform the following functional checks after the device has been installed:

- Check the control unit and applicator for damage.
- Start up the MAGNETOLITH (**see Chapter 5.6.1 start-up**).
- Set the energy level to 8.
- Reset the number of pulses on the parameter display using the reset button .
- Trigger pulses with a shock frequency of 8 Hz.
- Check that the

5.2.3 Standard settings

- Before each treatment, make sure that the pulse counter is set to zero.
- Before treatment, set the energy level to a low value.

5.7 Treatment

5.7.1 Safety information

Before treatment, make sure the device is functioning safely and in proper condition.



WARNING!

In the event that the device or its components malfunction:

Various injuries are possible!

- Before starting treatment, it is essential to perform the **1NON-CONTACT APPLICATOR POSITION DESCRIBED IN CHAPTER 4.6.3.**

- Read **CHAPTER 2 GENERAL SAFETY INFORMATION** before beginning treatment.



CAUTION

If the applicator is not positioned correctly, there is a **risk to health due to ineffective or incorrect treatment!**

- Define the treatment zone and adjust the coil position exactly in line with it.
- Do not touch the patient with the applicator during treatment.
- Make sure that the treatment is only administered by users who meet the conditions in **CHAPTER 3.2 PRECONDITIONS FOR OPERATION**

- For safety reasons, using the device for applications other than those specified in **CHAPTER 3.1.1 INDICATIONS** is not permitted!
- Always comply with all instructions provided by status and fault messages!

5.7.2 Selecting treatment parameters

- Adjust the treatment parameters on the touch display using the  and  buttons.
- Trigger the pulses.

NOTE

The maximum possible frequency for generating pulses depends on the selected energy level. Increasing the energy level may reduce the pulse frequency. The selection of energy levels is based on the medical opinion of the doctor administering treatment. The treatment must never be allowed to cause the patient to experience any excessive amount of pain.

Energy level	Maximum frequency
3	10 Hz
4	10 Hz
5	10 Hz
6	10 Hz
7	10 Hz
8	8 Hz

Table 5-4 Treatment parameters

NOTE

If a nominal value above 15,000 pulses is selected (e.g. 17,000 pulses), the device automatically triggers a safety stop at 15,000 pulses. (See warning messages.) The next stop occurs when the set nominal value is reached. Following this, the counter continues to stop at intervals of 15,000.

5.7.3 Triggering pulses

- Press the trigger button on the front of the MAGNETOLITH to start treatment.
- Localise the treatment zone as precisely as possible. The patient can keep their clothing on during treatment. The waves are able to penetrate material.
- Bring the applicator close to the patient and gently move it over the treatment zone, holding it flat.
- There is no need to touch the patient or move extremities through the centre of the applicator in order for treatment to be successful.
- Guide the applicator so that you can always see the central treatment point through it (as though you were looking through a magnifying glass).
- If possible, use the articulated arm with the applicator cradle to establish the central treatment point.
- Monitor the settings for the number of pulses and intensity during treatment.
- Place the applicator back in the applicator holder after treatment.



Fig. 5-5 Correct use of the applicator

6 Status Messages and Fault Displays

	CAUTION
In the event that the device or its components malfunction: • Immediately comply with all status and fault messages which appear during the treatment.	

6.1 Warning messages

	Safety stop	Acknowledge message with  Treatment can now be continued.
	Warning	Acknowledge message with  Further treatment is possible.
	Fault	Acknowledge message with  Further treatment is possible once the water temperature has returned to permitted values
	Warning	Applicator not connected Connect the applicator.
	Warning	Applicator change recommended Acknowledge message with  Treatment can now be continued. Message appears from 8 million pulses. A countdown appears when the device is switched on.
	Fault	Caution symbol flashing Applicator change required Message appears from 10 million pulses. The countdown display has reached 0. Treatment cannot be continued.

Table 6-1 Warning messages

NOTE Warning messages are always accompanied by an exclamation mark. They can be confirmed. Fault messages cannot be confirmed. The fault must be resolved and/or the device must be restarted in order to continue treatment.
--

6.2 Fault messages

No.	Type of fault	Description	Corrective actions
1	Warning	Water circuit: no water flow	Fill level too low? Fill the water circuit (see Chapter 7.2.2 filling the water CirCuit). Restart the device. If the fault persists, call your Service centre.
2	Warning	Water circuit: Pump speed too low	Restart the device. If the fault persists, call your Service centre.
3	Warning	CTU: Fault Switch	Charging unit not ready. Acknowledge message. Call your Service center if the fault continues after a reset.
4	Warning	CTU: not OK	
5	Warning	CTU: divider disconnected	
6	Warning	CTU: HV exceeded	
7	Warning	CTU: divider inconsistent	
8	Warning	CTU: HV too low	
9	Warning	CTU: Timeout	
10	Warning	CTU: Overtemperature	Charging unit not ready. Acknowledge message. Call your Service centre if the fault continues after a reset.
11	Warning	CTU: HV set beyond spec.	Charging unit not ready. Acknowledge message. Call your Service centre if the fault continues after a reset.
12	Warning	CTU: interlock	
13	Warning	CTU: HV test error	Charging unit not ready. Acknowledge message. Restart the device and repeat the test. Do not continue to use the device if the fault continues. Call your Service center.
14	Fault	Water circuit: Low temperature (< 1 °C)	Wait until the treatment temperature is reached.
15	Fault	Trigger button pressed	Check the activation button. Call your Service center if the fault continues after a reset.
16	Fault	Water circuit: no water pump speed	Restart the device. If the fault persists, notify your Service centre.
17	Warning	Display energy value invalid	Restart the device. Select a valid energy level.

Table 6-2 Fault codes

6.3 Trouble-shooting



CAUTION!

- Unplug the mains cable from the device before you carry out any maintenance work!

Fault description	Possible cause	Corrective actions
Device does not work	Power failure Defective mains fuse Defective mains plug	Check the power supply. Replace the fuses. Replace the mains cable.
Device is not booting	Boot error	Restart the device. Call your Service center.
No power output	Malfunction in control unit	Call your Service center.
No power output	Applicator has not been recognised Applicator defective	Check the plug connection. Call your Service center. Replace the applicator.
Water circuit fault	Internal contact problem	Call your Service center.

Table 6-3 Trouble-shooting

7 Cleaning, Maintenance, Overhaul

7.1 Cleaning

Regular cleaning ensures perfect hygiene and operation of the MAGNETOLITH.



CAUTION!

Electrical hazard!

Disconnect the device from the mains before starting any cleaning or overhaul work!

- Disconnect the mains plug.

The frequency of complete exterior cleaning depends on the frequency of use and what the device is used for.

If the applicator comes into contact with the patient, it must be cleaned and disinfected after the treatment.

- Clean the device parts with a damp cloth.
 - For cleaning and disinfecting, use:
 - alcohol-based surface disinfectants or
 - aldehyde-based (but formaldehyde-free) surface disinfectants.
- Pay attention to the information provided by the manufacturer.

ATTENTION!

It is essential that no fluid be permitted to penetrate either the device or its hoses.

Ventilation slits

- Keep the ventilation slits clear.

7.2 Water renewal

The water in the cooling circuit of the MAGNETOLITH should be renewed every 6 months. Additionally, the water must be drained before the device ceases operation for an extended period.

Use the **water bag/hose set, art. no. 31346**, to renew the water.

If the water renewal is due, the device automatically displays a message to this effect when it is switched on.

The message no longer appears once the water has been renewed.

It is not necessary to top up the water in a normal operating environment. Start the filling process after a draining process. If the device has remained empty for an extended period, fill the water circuit immediately after switching it on.

The filling prompt  appears automatically. Press OK to confirm the filling prompt. The device begins filling immediately.

7.2.1 Draining the water circuit

- Make sure that the device is standing on a level surface.
- Connect the water bag to the connector at the bottom of the MAGNETOLITH. Hold the bag at a low level as soon as the prompt appears.

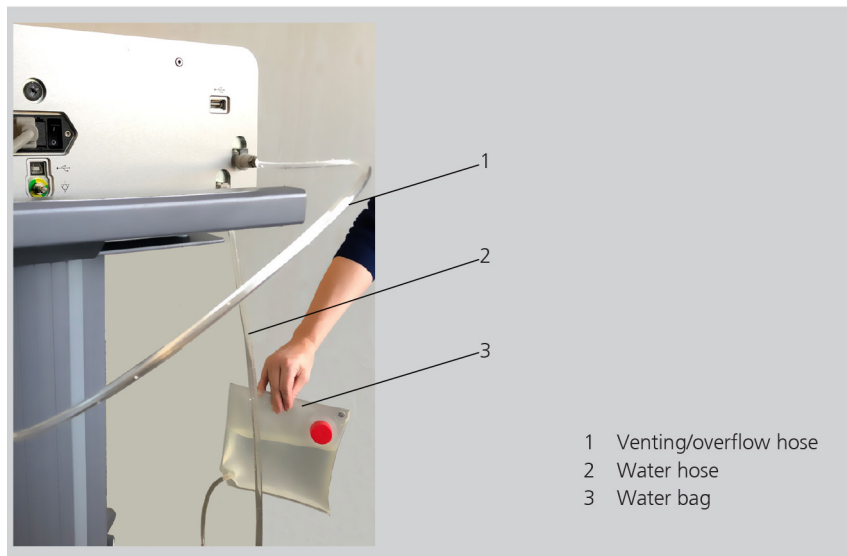


Fig. 7-1 Draining process with water bag/hose set

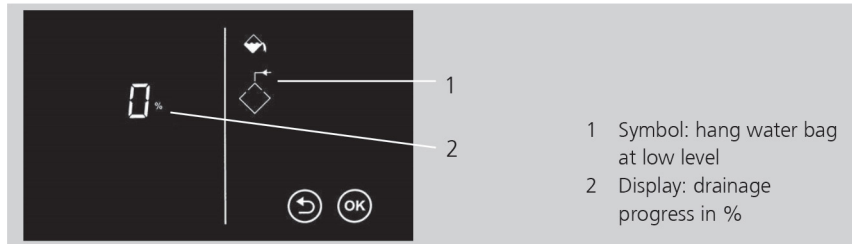


Fig. 7-2 Display during draining

- Connect the venting hose to the water connector at the top of the MAGNETOLITH (see Fig. 7-3 /1).
- Press 

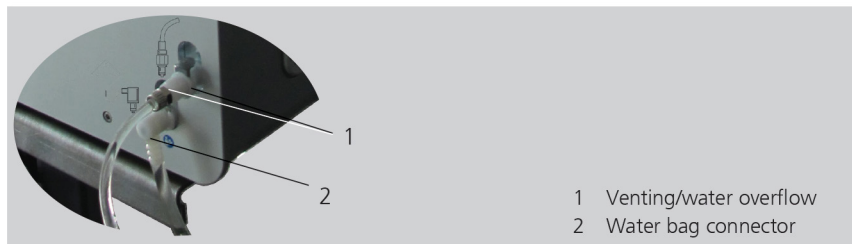


Fig. 7-3 Water hose connector.

- Confirm by pressing OK.
 - A progress display indicating that the water circuit is draining is displayed on the left of the display. (Figure 6-2)
- In order to drain the water circuit of the MAGNETOLITH completely, the water in the applicator must be drained as well.
- Hold the applicator in an upright position above the device to optimise the water flow from the device.
 - The display will show 100% once the device has drained. Now remove the water bag.
 - Confirm by pressing OK.
 - Dispose of the bag contents.

7.2.2 Filling the water circuit

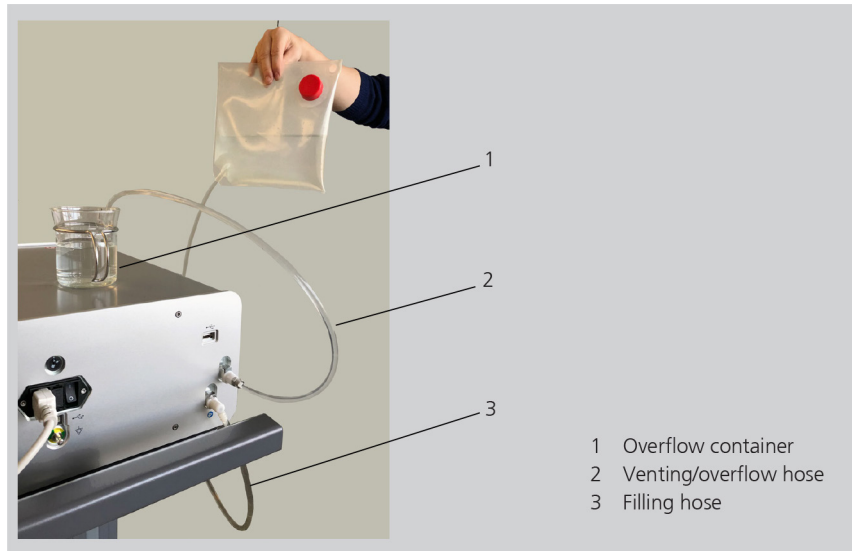


Fig. 7-4 Filling process with water bag/hose set

- Make sure that the device is standing on a level surface.
- Fill the water bag with deionized, demineralised water only (acc. to VDE 0510, e.g. battery water or ironing water).

ATTENTION!

Do not use water that has been distilled more than once!

- After the water bag has been filled, there should be as few bubbles as possible in the connection hose. Press the closing valve inwards and let the air escape until the hose is fully filled with water.

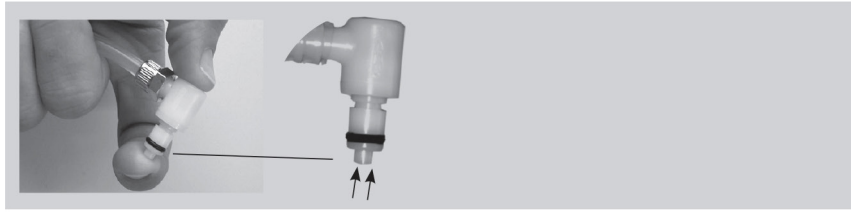


Fig. 7-5 Venting the connection hose

- Connect the water bag to the MAGNETOLITH water connector (see Fig. 7-34/2) and hold it over the device so that the water is able to flow into the water circuit.
- Connect the venting hose to the MAGNETOLITH water connector (see Fig. 7-34/3) and place the end in a glass.
- Press . The filling process begins. The fill level is indicated by a percentage on the left side of the display.

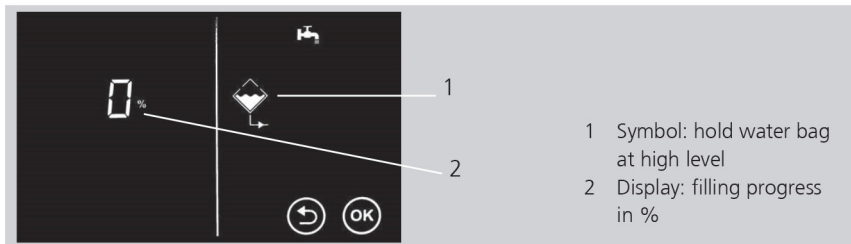


Fig. 7-6 Display during filling

- In order to add the maximum amount of water, place the bag on the palm of your hand and squeeze it gently at the sides whilst filling.
- If water flows out of the venting hose and into the glass during the venting stage, this means that the water circuit is full (overflow stage).



Fig. 7-7 Water overflow

- First, remove the hose from the venting connection.
- Then disconnect the hose and water bag from the water connector.

7.2.2 Filling the water circuit

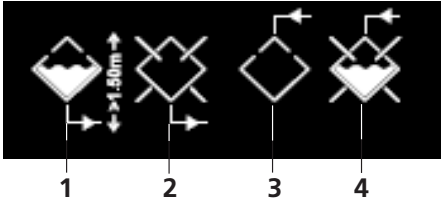
Symbol	Meaning
	
Meaning of symbol combinations	
1	The water circuit is being filled; the water bag should be placed at a height of 1.50 m.
2	Filling is complete. Remove the water bag.
3	The water circuit is being drained.
4	Draining is complete. Remove the water bag.

Table 7-1 Displays for water circuit actions

7.2.3 Performing a water renewal cycle

If you want to perform the draining/filling process without interruption,

- press . The individual functions for draining and filling water then appear one after another, without a white circle. You do not need to enter anything on the device between the processes.
- Follow the prompts that appear one after another on the display.

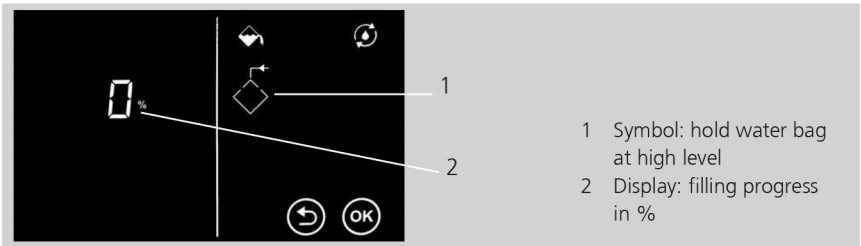


Fig. 7-8 Water renewal cycle

7.2.4 Cleaning the applicator

- If the applicator has come into contact with the patient, disinfect it using an alcohol-based disinfectant that is suitable for surfaces (pay attention to the information provided by the manufacturer).

NOTE

After cleaning, treatment with the applicator may only continue once the applicator is dry.

- Schedule sufficient time for the applicator to dry.

7.3 Mains fuse replacement

The mains fuse holder is located on the rear of the MAGNETOLITH between the mains connection and the ON/OFF switch.

- At the indentations, push the two slides of the mains fuse holder inward and pull the holder from the housing.

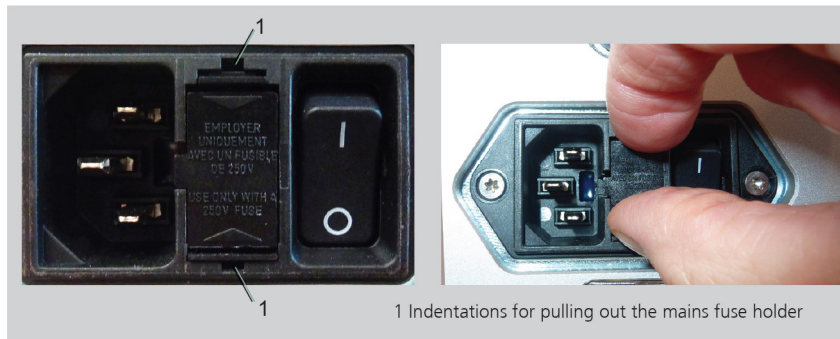


Fig. 7-9 Mains connector, mains fuse holder, ON/OFF switch

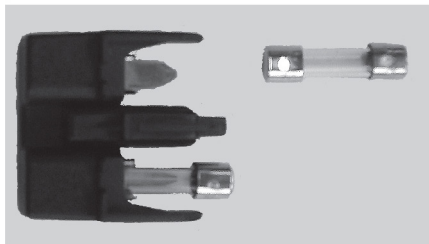


Fig. 7-10 Mains fuse holder

- Pull the old fuses out of the mains fuse holder.
- Replace the fuses (T 6.3 AH / 250 VAC).
- Push the mains fuse holder back into the opening until it engages.

7.4 Maintenance and safety checks

Preventive maintenance is not necessarily required. However, regular maintenance may help to identify possible defects at an early stage and thus increase the safety and service life of the device.

Maintenance services can be ordered from our regional representatives in your area or directly from CureMedix.

Regardless of the country-specific accident prevention regulations or check intervals for medical devices that apply, we recommend performing an annual function and safety check (see Chapter 5.6.2 funCtiOnal CheCks) in accordance with the German Ordinance on Operating Medical Devices (MPBetreibV), the Austrian Ordinance on Operating Medical Devices (MPBV), and the Swiss Medical Devices Ordinance (MepV). The following checks should be performed to ensure that the MAGNETOLITH operates safely:

- 1 Earth leakage current test on chassis in accordance with national regulations.
- 2 Earth impedance test (including housing and with mains cable) in accordance with national regulations.

NOTE

For further details on content and performance of the safety checks please contact your local dealer.

7.5 Disposal

When disposing of this medical product, no special measures have to be observed. Please proceed in accordance with applicable countryspecific regulations. After expiration of its service life, dispose of the MAGNETOLITH as waste electronic equipment



7.6 Repair

Repair work on defective devices must only be carried out by personnel suitably authorized by CuraMedix. Only original CuraMedix parts may be used for this purpose. The suitably authorized personnel can be from CuraMedix or be representatives of CuraMedix agencies and dealers.

7.7 Service life

The mean time to failure (MTTF) in accordance with EN 60601-1:2005 + A1:2012 is

- 5 years or 10,000,000 pulses for the MAGNETOLITH medical electrical device

- 2 years or 10,000,000 pulses for the applicator

For servicing, contact your local CuraMedix distributor.

If the specified service life is exceeded, the risk of the device and the applicator failing will increase (see Chapter 9.4, CONfOrMity with standards).

No warranty claims shall be accepted beyond the information given in Chapter 10 warranty and serviCe.

8 Accessories

Meaning	Art. no.
Mains cable CEE 3 m long	31468
Mains cable CH 3 m long	13448
Mains cable JP 2.5 m long	31391
Water bag/hose set	31346
Applicator	30999
Applicator holder	31007
Articulated arm	31229
Trolley	31122
MAGNETOLITH operating manual	30781

9 Technical Specifications

9.1 Technical Specifications

MAGNETOLITH	
EMTT operating mode	Single pulse, continuous pulse 1 – 10 Hz
Mains input voltage	100 – 240 VAC
Mains frequency	50 / 60 Hz
Mains fuse	T6.3 AH / 250 VAC
Power consumption	Max. 500 VA
Oscillation frequency of magnetic field	Pulse-modulated, 130 kHz, max. 80 mT
Ambient temperature during operation	10 – 30 °C
Ambient temperature during storage and transport	0 – 60 °C
Ambient air pressure during operation	800 – 1060 hPa
Ambient air pressure during storage and transport	500 – 1060 hPa
Air humidity during operation	5 – 55%, non-condensing
Air humidity during storage and transport	5 – 95%, non-condensing (no additional anti-corrosion measures)
Control device weight	25 kg
Housing dimensions (W x H x D)	454 x 187 x 460 mm
Classification according to MDD	Class IIa device
Protection against the ingress of water	--

Software version	
The version number of the device software can be accessed via the information menu. The current software and hardware versions are displayed there.	

Subject to technical changes

Applicator	
Ambient temperature during operation	10 – 30 °C
Ambient temperature during storage and transport	0 – 60 °C
Ambient air pressure during operation	800 – 1060 hPa
Ambient air pressure during storage and transport	500 – 1060 hPa
Air humidity during storage and transport	5 – 95%, non-condensing
Air humidity during operation	5 – 55%, non-condensing
Weight, without water, with cable	1920 g

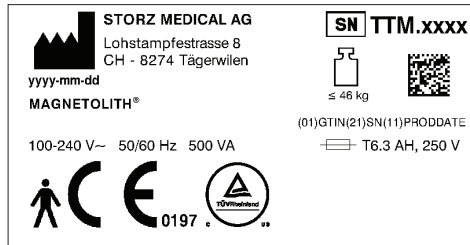
Table 9-1 Technical specifications

NOTE

In the event of the medical product being transferred to third parties, the following must be observed:

- The complete device documentation must be delivered together with the medical product.
- The medical product may only be exported to a foreign country if the medical product and the corresponding indications are allowed there.

9.2 MAGNETOLITH type plate



9.3 Conformity with directives



This medical product bears the CE mark in accordance with the Medical Device Directive (MDD) 93/42/EEC.

9.4 Conformity with standards

This device complies with the applicable standards EN 60601-1, CAN / CSA-C22.2 No.601.1, UL Std. No 60601-1.

Acc. to EN 60601-1	
- Type of protection against electric shocks:	Protection class 1
- Application unit of type B	

The requirements from the device safety ("essential performance") standard in accordance with IEC 60601-1, 3rd edition are satisfied:

- 1 The device must not generate excessive magnetic field energy
- 2 The device must not generate any inadvertent pulses

Essential performance for basic safety cannot be impaired by electromagnetic interference.

It is expected that there will be no negative impact on performance during the device's anticipated service life.

9.4.1 EMC guidelines and manufacturer's declaration

Guidelines and manufacturer's declaration – emitted electromagnetic interference		
The MAGNETOLITH model is intended to be used in the electromagnetic environment specified below. The customer or the user of the MAGNETOLITH should ensure that it is used in such an environment. The maximum length of the mains cable for the device is 3 m.		
Interference emission measurements	Compliance	Electromagnetic environment – guidelines
HF emissions acc. to CISPR 11	Group 2	The functional principle of the MAGNETOLITH device is emitting HF energy, mainly in the form of a magnetic field.
HF emissions acc. to CISPR 11	Class A	The properties of this device, which are determined by its EMISSIONS, allow it to be used in industrial environments and in hospitals (CISPR 11, Class A). If it is used in domestic environments (which usually require Class B in accordance with CISPR 11), the device may not provide appropriate protection for radio services. The user may need to put remedial measures in place, such as relocating or realigning the device.
Harmonic oscillations according to IEC 61000-3-2	Class A	
Emissions of voltage fluctuations/flicker acc. to IEC 61000-3-3	Complies	
Conducted RF emissions	Class A	
Radiated RF emissions	Class A	

Guidelines and manufacturer's declaration – resistance to emitted electromagnetic interference

The MAGNETOLITH model is intended to be used in the electromagnetic environment specified below. The customer or the user of the MAGNETOLITH should ensure that it is used in such an environment.

Immunity tests	IEC 60601 test level	Compliance level	Electromagnetic environment – guidelines
Electrostatic discharge (ESD) acc. to IEC 61000-4-2	± 8 kV contact discharge ± 15 kV air discharge	± 8 kV contact discharge ± 15 kV air discharge	Floors should be wood, concrete or ceramic tile. If the floor is covered with synthetic material, the relative air humidity must be at least 30%.
Electrical fast transient disturbances / bursts according to IEC 61000-4-4	± 2 kV for power supply lines ± 1 kV for input/output lines	± 2 kV for power supply lines ± 1 kV for input/output lines	Mains power quality should be that of a typical commercial or hospital environment.
Surge voltages according to IEC 61000-4-5	± 1 kV line(s) to line(s) ± 2 kV line(s) to earth	± 1 kV line(s) to line(s) ± 2 kV line(s) to earth	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines according to IEC 61000-4-11	< 5% U_T (> 95% dip in U_T) for ½ and 1 period 70% U_T (30% dip in U_T) for 25/30 periods < 5% U_T (> 95% dip in U_T) for 250/300 s	< 5% U_T (> 95% dip in U_T) for ½ and 1 period 70% U_T (30% dip in U_T) for 25/30 periods < 5% U_T (> 95% dip in U_T) for 250/300 s	Mains power quality should be that of a typical commercial or hospital environment. If the user of the MAGNETOLITH requires continued operation during mains power interruptions, it is recommended that the MAGNETOLITH be powered from an uninterruptible power supply or a battery.
Power frequency (50/60 Hz) magnetic field acc. to IEC 61000-4-8	30 A/m	30 A/m	The mains frequency magnetic fields should be those of a typical business or hospital environment.
¹ NOTE U_T is the mains alternating voltage prior to application of the test level			
² NOTE The device contains no components that are sensitive to magnetic fields.			

Guidelines and manufacturer's declaration – resistance to emitted electromagnetic interference			
The MAGNETOLITH model is intended to be used in the electromagnetic environment specified below. The customer or the user of the MAGNETOLITH should ensure that it is used in such an environment.			
Emissions resistance tests	IEC 60601 test level	10	Electromagnetic environment – guidelines
			Portable and mobile RF equipment should be used no closer to any part of the MAGNETOLITH, including cables, than the recommended safety distance calculated from the equation applicable to the transmission frequency. Recommended safety distance:
Conducted RF disturbances acc. to IEC 61000-4-6	3 V _{RMS} /6 V _{RMS} 150 kHz to 80 MHz	3 V _{RMS} /6 V _{RMS} 150 kHz to 80 MHz	$d = 1.2\sqrt{P}$
Radiated HF interference according to IEC 61000-4-3	10 V/m 80 MHz to 2.7 GHz	10 V/m 80 MHz to 2.7 GHz	$d = 1.2\sqrt{P}$ for 80 MHz to 800 MHz $d = 2.3\sqrt{P}$ for 800 MHz to 2.7 GHz
			Where P is the rated power of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended safety distance in metres (m). The field intensity of stationary radio transmitters, based on an on-site inspection^a, should be less than the compliance level^b at all frequencies. Interference may occur in the vicinity of devices marked with the following symbol: 
NOTE 1 At 80 MHz and 800 MHz, the higher frequency range applies. NOTE 2 These guidelines may not apply in all situations. Propagation of electromagnetic fields is affected by absorption and reflection from buildings, objects and people.			
^a Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment with respect to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field intensity at the location in which the MAGNETOLITH is used exceeds the applicable HF compliance level indicated above, the MAGNETOLITH should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the MAGNETOLITH.			
^b Over the frequency range of 150 kHz to 80 MHz, field strengths should be less than 10 V/m.			

Recommended safety distances between portable and mobile HF communications equipment and the MAGNETOLITH

The MAGNETOLITH is intended for use in an electromagnetic environment in which radiated HF disturbances are controlled. The operator or the user of the MAGNETOLITH can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile HF communications equipment (transmitters) and the MAGNETOLITH as recommended below, according to the maximum output power of the communications equipment.

Rated power of transmitter [W]	Safety distance according to frequency of transmitter [m]		
	150 kHz to 80 MHz $d = 1.2\sqrt{P}$	80 MHz to 800 MHz $d = 1.2\sqrt{P}$	800 MHz to 2.5 GHz $d = 2.3\sqrt{P}$
0.01	0.12	0.12	0.23
0.1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23

For transmitters rated at a maximum output power not listed above, the recommended safety distance can be estimated using the equation applicable to the frequency of the transmitter, where P is the rated power of the transmitter in watts [W] according to the transmitter manufacturer.

NOTE 1

An additional factor of 10/3 was used when calculating the recommended safety distance of transmitters in the frequency range from 80 MHz to 2.7 GHz. The purpose of this was to reduce the likelihood of a malfunction occurring in the event of a mobile/portable communications device being inadvertently brought into the patient area.

NOTE 2

These guidelines may not apply in all situations. The propagation of electromagnetic waves is affected by absorption and reflection from buildings, objects and people.

Interference immunity of covers to high-frequency wireless communications equipment						
Test frequency MHz	Frequency band MHz	Radio service	Modulation	Maximum power W	Distance m	Test level for resistance to interference V/m
385	380 to 390	TETRA 400	Pulse modulation 18 Hz	1.8	0.3	27
450	430 to 470	GMRS 460, FRS 460	FM +/- 5 kHz deviation 1 kHz sine	2	0.3	28
710	704 to 787	LTE band 13, 17	Pulse modulation 217 Hz	0.2	0.3	9
745						
780						
810	800 to 960	GSM 800/900, TETRA 800, iDEN 820, CDMA 850, LTE band 5	Pulse modulation 18 Hz	2	0.3	28
870						
930						
1720	1700 to 1990	GSM 1800, CDMA 1900, GSM 1900, DECT, LTE band 1, 3, 4 25; UMTS	Pulse modulation 217 Hz	2	0.3	28
1845						
1970						
2450	2400 to 2570	Bluetooth, WLAN 802.11 b/g/n, RFID 2450 LTE band 7	Pulse modulation 217 Hz	2	0.3	28
5240	5100 to 5800	WLAN 802.11 a/n	Pulse modulation 2178 Hz	0.2	0.3	9
5500						
5785						

Table 9-2 EMC table

9.5 Certificates

STORZ MEDICAL

**EG-KONFORMITÄTSERKLÄRUNG · EC DECLARATION OF CONFORMITY
DECLARACIÓN CE DE CONFORMIDAD · DICHIARAZIONE CE DI CONFORMITÀ**

Name und Adresse des Herstellers: / **STORZ MEDICAL AG**
Name and address of the manufacturer: / **Lohstampfstr. 8**
Nombre y dirección del fabricante: / **8274 Tägerwilen**
Nome e indirizzo del fabbricante: **SWITZERLAND**

Wir erklären in alleiniger Verantwortung, dass / We declare under our sole responsibility that /
Declaramos bajo nuestra única responsabilidad que / Dichiariamo sotto la sola responsabilità che

das Medizinprodukt: / **MAGNETOLITH** / Produktcode: **TTM**
the medical device: / / Product code: **TTM**
el producto sanitario: / / Código del producto: **TTM**
il dispositivo medico: / Codice prodotto: **TTM**

der Klasse: / **IIa**
of class: /
de la clase: /
di classe:

nach Anhang IX der Richtlinie 93/42/EWG / according to annex IX of directive 93/42/EEC /
conforme al anexo IX de la directiva 93/42/CEE / secondo l'allegato IX della direttiva 93/42/CEE

den einschlägigen Bestimmungen der Medizinprodukte-Richtlinie 93/42/EWG und deren Umsetzungen in nationale Gesetze entspricht. Die Erklärung gilt in Verbindung mit dem zum Produkt gehörigen Endabnahmeprotokoll.

meets the provisions of the directive 93/42/EEC and its transpositions in national laws which apply to it. The declaration is valid in connection with the final inspection report of the device.

cumple las disposiciones pertinentes de la Directiva de productos sanitarios 93/42/CEE y sus transposiciones a la legislación nacional. La presente declaración se aplicará junto con el protocolo de aceptación final que corresponda al producto.

soddisfa tutte le disposizioni della direttiva 93/42/CEE e della loro trasposizione nel diritto nazionale che lo riguardano. Questa dichiarazione è valida in congiunzione con il rapporto di ispezione finale del prodotto.

Konformitätsbewertungsverfahren: / **Richtlinie 93/42/EWG Anhang II, ohne Abschnitt 4**
Conformity assessment procedure: / **Directive 93/42/EEC Annex II, excluding Section 4**
Procedimiento para la evaluación de la conformidad: / **Directiva 93/42/CEE, anexo II, sin el apartado 4**
Procedura di valutazione della conformità: **Direttiva 93/42/CEE senza Allegato II, sezione 4**

Gültigkeitsdatum: / **26.05.2024**
Validity date: /
fecha de validez: /
data di validità: /

Benannte Stelle: /
Notified Body: /
Organismo notificado: /
Organismo notificato:



TÜV Rheinland LGA Products GmbH
Tillystraße 2
90431 Nürnberg
GERMANY
CE 0197

Tägerwilen, 20-01-2020

Ort, Datum / Place, date /
Lugar, fecha / Luogo, data

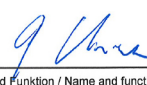
 **Dr. G. Heine, CEO**
Name und Funktion / Name and function /
Nombre y cargo / Nome e funzione

Fig. 9-2 Declaration of conformity

9.4.1 Symbols and labels

The following symbols and labels are affixed to the MAGNETOLITH:

Rear



Label	Meaning
1 The label contains the following text: STORZ MEDICAL AG, Lohstampfstrasse 8, CH - 8274 Tägerwilen, yyyy-mm-dd, MAGNETOLITH®, 100-240 V~, 50/60 Hz, 500 VA, and a CE mark with the number 0197. It also includes a QR code and a small icon of a person reading a manual.	Type plate
2 A blue circular icon showing a white silhouette of a person sitting and reading a document.	You must read the operating manual
A square QR code used for product identification.	UDI (Unique Device Identification): QR code on the type plate for the machinereadable identification of the medical product
A circular logo with a triangle inside and the text 'TÜV Rheinland' below it.	TÜV certification mark
A crossed-out wheeled bin symbol, indicating that the product is not to be disposed of as unsorted municipal waste.	WEEE symbol
A detailed drawing of a flexible hose with a metal connector at the end.	Hose connector

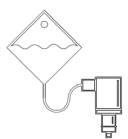
	Water bag connector
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Table 9-3 Rear labelling

Plan view

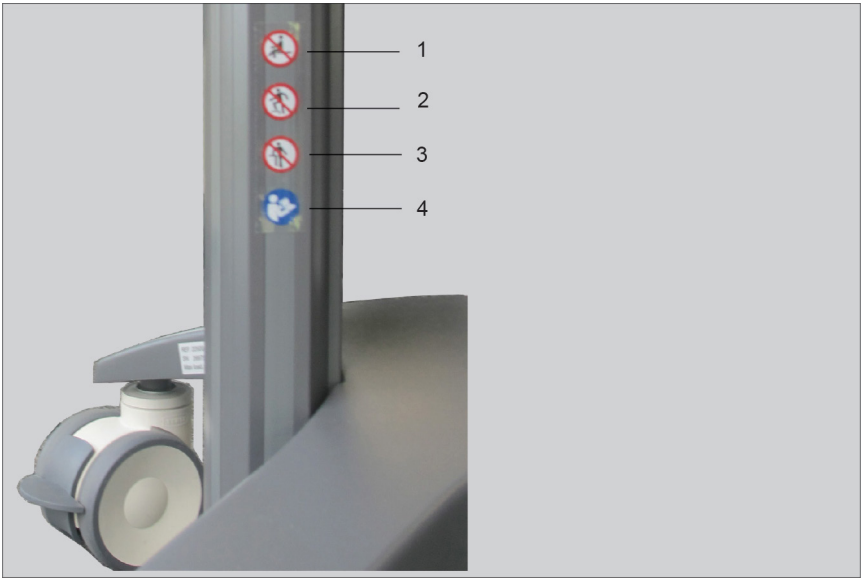


Label	Meaning
1 	Prohibited for persons with pacemakers.
2 	Prohibited for persons with implants.
3 	No credit cards in the vicinity. The magnetic strip or chip may be erased.
4 	No mobile phones permitted in the vicinity.
5 	Warning: magnetic field.

Table 9-4 Device labelling

Fig. 9-2 Declaration of conformity

Trolley



	Label	Meaning
1		Sitting on the device is prohibited.
2		Climbing on the device is prohibited.
3		Leaning against the device is prohibited.
4		You must read the operating manual

Table 9-5 Device labelling

10 Warranty and Service

ATTENTION!

Modifications to the device are not permitted.
 Any opening, repair or modification of the device by unauthorised personnel will relieve the manufacturer of its liability and responsibility for safe system operation. This will automatically void the warranty even before the end of the warranty period.

10.1 Warranty for the control device

During the two-year warranty period from the date of delivery of the product to the end customer, defects will be remedied at no charge to the customer upon the customer furnishing adequate proof that the defect is due to defects in material or workmanship. The warranty does not extend to wear parts.
 Transport costs and the risk of loss during the shipping of returned products shall be borne by the customer.

10.2 Warranty for the applicator

For a period covering two years or up to 5,000,000 pulses following the date of delivery of the product to the end customer (the shorter of the two periods being applicable), defects will be remedied at no charge to the customer upon the customer furnishing adequate proof that the defect is due to faulty material or workmanship. Warranty claims will only be accepted if the applicator is returned in its complete and original state, cleaned and in the case, with the repair label filled in completely. Missing components will be replaced subject to charge. Accessories also sent will be checked and, if necessary, replaced after we have assessed them.

10.3 Service

If you have any other questions about the MAGNETOLITH, please contact your certified specialist dealer service.