



wellsystem \_ MEDICAL



# Operating instructions

wellsystem



# Dry water massage device



CE<sub>0197</sub>

## Operating instructions

Translation of the original operating instructions

**wellsystem MEDICAL**

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**wellsystem**

## Legal notice



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### DANGER!



**Failure to observe these instructions:**

- can result in serious injury and death,
- can result in damage to the device and the environment.
- Read these instructions carefully before putting this device into operation.
- Please observe the instructions and the code of conduct required to operate the device safely.
- Please make the instructions and additional information from the manufacturer available to the personnel at their workplace.

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# 1 Safety instructions and warnings



To ensure safe operation of the device, it is necessary to read the following safety instructions and warnings carefully and comply with them.

The safety instructions summarized here are repeated in the corresponding chapters, where necessary.

## 1.1 General

---

### 1.1.1 Definitions

#### **Operator**

Person who provides dry water massage devices on a commercial basis. The operator is responsible for the orderly operation of the device as well as compliance with the maintenance intervals.

#### **User/Patient**

Person who uses the dry water massage device at a commercial location.

#### **Personnel**

People who are responsible for the operation, cleaning and general maintenance work and who instruct the users in the operation of the devices.

#### **Electrician**

A person with suitable professional training, knowledge, experience and knowledge of the applicable regulations which enable them to identify and avoid the dangers which can arise from working with electricity.

#### **Authorized, trained and qualified personnel**

Qualified staff from an external company who have been trained and authorized by the manufacturer to undertake assembly and maintenance work on specific equipment.

#### **Dry water massage device**

In these operating instructions the dry water massage device is referred to in the short form 'device'.



## 1.1.2 Symbol explanation

The following types of safety notices are employed in these operating instructions:



### DANGER!



#### Type and source of hazard

This safety notice indicates the existence of a direct danger to body and life.

### DANGER!



#### Type and source of hazard

This safety notice warns of dangers to body and life which are caused by electricity.

### WARNING!



#### Type and source of hazard

This safety notice warns of machine, material or environmental damage.



### NOTE:

This symbol does not identify any safety notices, but provides additional information to better understand the processes.



### 1.1.3 Symbols on the device

The following symbols are displayed on the device or on the packaging:



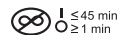
Manufacturer, production year and month



Type BF application part



Electric device label (do not dispose of via household refuse)



No continuous operation



ESD-sensitive components



Follow Operating Instructions.



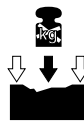
Maximum 2 devices stack.



Maximum transport weight



This side up.



Load on the edge only.



Keep dry.



Temperature limitations.



Recyclable material.



Permitted air pressure during transport and storage.

## 1.2 Use

### 1.2.1 Purpose

wellsystem MEDICAL permits a dry water massage by the physical stimulation of certain massage zones (groups of muscles) of the human body that have been chosen according to physiological correctness using controlled and temperature-controlled water pressure via an electric mat.

The medical device is indicated for therapy or to assist in the therapy of muscular / musculoskeletal disorders and dysfunctions and the pain caused by this.

The therapy in the form of a dry water massage can be carried out on adult patients of all body sizes, ages and constitution. Infants and small children up to age 7 may not be subject to a therapy using the wellsystem medical products. Children and adolescents from 8 to 17 years of age are only allowed to use wellsystem products in agreement with a parent or guardian and after consulting a doctor.

The therapy with wellsystem MEDICAL must be carried out and accompanied by trained specialised persons. The medical product is not indicated for use in private households.

The duration and type of treatment must be determined by your doctor.

### 1.2.2 Intended use

This device is used to apply a dry water massage to one adult patient using the programmes described in these operating instructions. More detailed information can be found on pages 26 and 29.

The device is only intended for commercial use (e.g. for use in doctors surgeries, by physical therapists or in hospitals and clinics) and not for domestic use.

A water cooling system must be connected to the device if it is to be used for more than 1 hour per day at maximum pressure. The pressure hoses must not be removed. Please contact the customer service department without fail before putting the device into operation - see page 2.

The device may only be operated with the pressure hose included in the scope of delivery.

Any other use shall be considered improper. The manufacturer cannot be held liable for damage or injuries resulting from this. The operator bears the sole risk for this.

Proper use also includes compliance with the manufacturer's instructions and its operating and maintenance conditions. The device may only be operated, maintained and repaired by trained professionals familiar with this device and who have been informed of the dangers involved.





## 1.3 Foreseeable misuse

---

The following uses of the device are explicitly prohibited:

- Multiple patients may not use the device at the same time.
- The device must never be used in combination with other medical devices.
- People with a body weight of more than 210 kg may not use the device.
- The device must never be used if it is empty.
- Devices without a cooling system connected may only be used for a maximum of 1 hour per day at maximum pressure.

## 1.4 Safety information for the dry water massage system

---

### 1.4.1 Contraindications

With the following contraindications, a therapy using the wellsystem MEDICAL must not be carried out:

- Fresh wounds
- Acute inflammations
- Infections
- Suspected phlebitis and thrombosis (danger of embolism)
- Severely painful muscle stiffness with additional myogelosis (only targeted, regulated and local procedures with local techniques)
- The state after operations have been carried out on the vertebrae at the point in time when sufficient posture and mobility stability still cannot be expected, i.e. in general the initial application is only possible after 8 weeks at the earliest
- The state after vertebral fractures, again initial application is only possible after 8 weeks at the earliest
- Acute disease patterns, especially with radicular symptoms, in which high tensioning of the posture muscles is actually desirable
- Painful vertebrae blockages with reactive muscle stiffness
- Vertebral disorders with increased inflammation parameters (spondylitis, rheumatic spondylarthritis)
- Acute exacerbation of chronic symptoms
- Bechterew's disease (inflammatory condition of the bone joints)
- High-grade scoliosis
- The state after joint endoprosthetic surgery 6 weeks post-op
- Neurological disorders with motor and sensory defects
- Haematoma in areas to be treated
- Chronic polyarthritis (chronic joint inflammation)
- Functional vertebrae defects in patients with (medication-based) coagulation disorders
- On persons that have more than 210 kg body weight

## 1.4.2 Indications

The medical product is indicated for:

- Muscular / musculoskeletal dysfunctions and the pain caused by this.
- Muscular / musculoskeletal disorders and the pain caused by this.

The indications specified above may be caused by various medical causes or disease patterns such as, for example, the following (the reference for evidence that these disease patterns can be treated and alleviated using a massage is found in brackets):

- Backache and joint pain (belongs to the indication of muscular and musculoskeletal pains)
- Muscle tension (belongs to the indication of muscular dysfunction)
- Muscle dysbalance (belongs to the indication of muscular dysfunction)
- Stress-related muscular tension (belongs to the indication of muscular dysfunction)
- Cervical migraines
- Fibromyalgia (mild form)
- Potential reversal of functional disorders of the spinal column (belongs to the indication of musculoskeletal disorder)
- Cervical and thoracic spinal conditions, sciatica
- Blood circulation and metabolism
- (Chronic) venous congestion syndrome
- Muscle tone disorder (belongs to the indication of muscular dysfunction)



## 1.5 Safety instructions and warnings

### 1.5.1 Operator's obligations

As the operator you are responsible for providing clear operating, cleaning and maintenance instructions and ensuring the intended use and the proper operation of the device by means of training and instruction for the personnel.

Your operating instructions must enable the safe use and safe operation of the device and take into account the characteristics and expertise of your company and also the national work safety and environmental protection regulations (within the European Union, the EU directive 89/391/EEC).

Any accidents or other incidents that occur when using the dry water massage device must be reported to the responsible authority in compliance with Directive 93/42/EEC – see page **Fehler! Textmarke nicht definiert.**

Commissioning of the device is prohibited in the event of

- defective cables,
- defective plugs,
- defective housing parts,
- malfunctions.



## 1.5.2 Personnel training

The device is only to be used by personnel who are able to accept responsibility for correct operation due to their training, knowledge or practical experience.

As the operator you are obliged to train your personnel and instruct them in the established legal and accident prevention regulations. Ensure that your staff have understood and observe these operation instructions. This applies, in particular to the

- Information in 'Intended use' and 'Foreseeable misuse'
- Safety notes in Chapter 1.4 and Chapter 'Operation'
- Operating instructions
- Cleaning, disinfection and maintenance instructions
- Please make the instructions and additional information from the manufacturer available to the personnel at their workplace.
- Regularly check your personnel's safety consciousness and awareness of the risks, taking into account your operating instructions.
- You must ensure that the cleaning and disinfection intervals are complied with, in particular cleaning and disinfection after every session.
- You must ensure that your staff provide your user/patients with appropriate advice, in particular regarding the types of application, possible risks and the operation of the device.

## 1.5.3 Scope of delivery

Information regarding the scope of delivery is contained in the 'Description' chapter on page 24.

## 1.5.4 Transport, assembly and setup

The device may not be mounted on the palette!



**Transportpalette**  
**Achtung! Keine Geräteaufstellung auf der Transportpalette!**  
 Durch die Aufstellung auf der Transportpalette sind keine optimale Ausrichtungen vorhanden. Betriebsstörungen sind unvermeidbar!

**Transport pallet**  
**Caution! Do not install devices on the transport pallet!**  
 If installed on the transport pallet, optimal alignment and adjustment is not possible. Breakdown and malfunctions are unavoidable!

**Palette de transport**  
**Attention! Ne pas installer des appareils sur la palette de transport !**  
 Une installation sur la palette de transport ne permet pas d'ajuster l'appareil de façon optimale. Des dysfonctionnements sont donc inévitables !

**Pallet di trasporto**  
**Attenzione! Non posizionare apparecchi sul pallet di trasporto!**  
 Il posizionamento sul pallet di trasporto non consente allineamenti ottimali. È inevitabile che si verifichino malfunzionamenti!

**Поддон**  
**Внимание! Не устанавливать на поддоне!**  
 При установке на поддоне достичь оптимального выравнивания невозможно. Перебои в работе неизбежны!

**運搬プレート**  
**注意!**  
 プレート上に機器を設置しないでください。  
 運搬プレート上に設置すると、調整を最適に行えません。必ず運転に支障が生じます。

~~D~~ ~~A~~ CH

~~UK~~ USA CDN

~~F~~ B CH  
CDN

~~I~~ CH

RUS

J

**wellsystem™ MEDICAL**  
**wellsystem™ RELAX**  
**wellsystem™ MEDICAL\_PLUS**  
**wellsystem™ RELAX\_PLUS**  
**ELEMENTS by planet fitness®**

Order No. 1010342-00B  
01/2020

JK-Products GmbH  
A Member of the JK group

17833 / 1

1  
1

100 kg

~ 224 kg

**wellsystem**

Order No. 1010341-00A JK-Products GmbH  
01/2020 A Member of the JK group

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The device is delivered by a specialist company and assembled and set up by the manufacturer's own service personnel or by an authorized service company.

As the operator you are responsible for abiding by the electrical regulations applicable at the installation site as well as adhering to the stipulated water pressure and the permitted coolant temperature, see 'Setup location'.



## Assembly

### WARNING!



#### Personal danger due to electric shock or burns!

- The assembly and electrical connection must comply with the national regulations.
- wellsystem MEDICAL incorporates special preventive measures with regard to the electromagnetic compatibility and must be installed and commissioned according to the EMC instructions obtained from the assembly instructions.
- Assembly, installation, upgrading or servicing of the device may only be carried out by personnel specially trained and authorized by JK-Global Service.
- The device must only be connected to the mains supply with a protective earth lead to prevent the risk of an electric shock.

---

Information regarding the disassembly and assembly of the device is available in the separate assembly instructions. These assembly instructions are intended solely for use by the manufacturer's service personnel or by qualified specialists authorized by the manufacturer.

## Setup location

### WARNING!



#### Overheating from inadequate cooling!

The device might be damaged!

- Maintain the minimum distances from the walls! Dimensions are given on page 50.
- Do not change, obstruct or block the air inflow and outflow to the device or make any unauthorized changes to the device.

#### Salty air! Contaminated air!

Device damage due to corrosion of the housing and electrical components.

- Do not install the device at swimming pools.
- Do not operate the device in locations with aggressive environmental conditions (e.g. air containing chlorine).

#### Damage to device possible!

Where there are great differences in temperature between the transport route and the installation site the device may not be put into operation immediately after being set up.

- Wait at least 2 hours before connecting the device to the power supply.
-



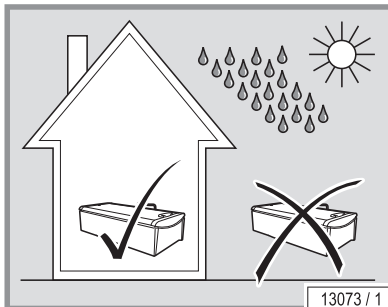
### Environmental conditions

- Optimum ambient temperature: Between +15 °C and +32 °C
- Storage temperature: Between -15 °C and +60 °C (the well, pump and the hoses must not contain any water)
- Relative humidity: Between 30 % and 75 %
- Air pressure: Between 794 hPa and 1060 hPa



### Water and cooling conditions

- Permissible water pressure (water inlet): 0.8 MPa (8 bar)
- Maximum coolant temperature: 16°C



The device is not to be used outdoors.

The device is not suitable for operation in mobile facilities (ships, buses, trains or oil platform). The unit has to be adapted in order to guarantee trouble-free operation when used in mobile facilities.

Adaptation of the unit is required for operating altitudes greater than 2000 m above sea level in order to guarantee trouble-free operation.

Please contact the customer service department without fail before putting the device into operation - see page 2.

## 1.5.5 Commissioning

Initial commissioning will be undertaken by the manufacturer's own service personnel or by an authorized service company. The device will be handed over ready for use.

If the device has not been used for a longer period of time then it must first be inspected by our customer service staff or by another authorized company before being put back into operation again.

The device is only to be used if it is working correctly!

None of the safety devices (e.g. switch) or safety warnings are to be removed or deactivated as this would impair the safe operation of the device!

The device must never be used if it is empty.

A water cooling system must be connected to the device if it is to be used for more than 1 hour per day at maximum pressure. The pressure hoses must not be removed. Please contact the customer service department without fail before putting the device into operation - see page 2.

The device may only be operated with the pressure hose included in the scope of delivery.

A water shut-off valve must be used.

A free outlet must be provided; in doing so, a minimum distance must be maintained that must be larger than twice the inner diameter of the supply tube. Most effectively, the free outlet (air bridge) prevents the backflow into the public water supply mains.

High frequency mobile communication systems can interfere with the way the device functions.

Heat therapy devices (microwave therapy devices, etc.) installed in the vicinity may lead to electromagnetic interference. Contact our customer service department if this happens – see page 2.

The device must be connected to the mains via an all pole master switch. One power supply circuit (power supply lead) may only power one device.



### Venting

The tank must be vented 3 days after commissioning or after it has been initially filled – see page 48. After this, venting is unnecessary unless leak-ages occur and the tank has to be topped up.

The device may no longer be used in the event of water loss (puddles on the floor). Please inform our customer service department – see page 2.

### 1.5.6 Operation and maintenance

Error-free operation, maintenance and service are required in order to ensure that the health and safety of the patients is not endangered during operation and to ensure that the device is in a fault-free operating condition.

Always abide by the information and recommendations given in this operating manual. Ensure that the intervals for the inspection, maintenance and service are complied with. The maintenance work must be carried out by the customer services of the manufacturer or by qualified specialist personnel authorized by the manufacturer following a check list.

Unauthorized modifications and changes to the device and its control unit are prohibited. Failure to comply with this voids the operating licence!

To avoid hazards, the device must not be used if the mains power cable is damaged. A damaged mains power cable must be replaced by the manufacturer or their customer services, or by trained and qualified specialist personnel.

The current operating hours can be called up in “Default settings”, see chapter 6.

We would like to point out that the device must be subjected to regular inspections by our customer service or an approved specialized company every 12 months (from commissioning) to maintain its proper condition!

### 1.5.7 Decommissioning

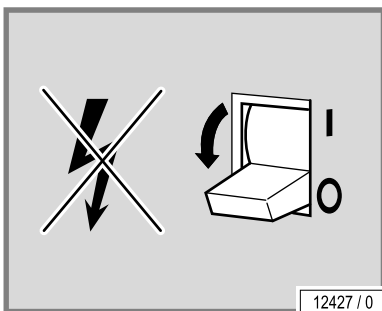
The device must be disconnected from the power supply in order to temporarily or permanently decommission it.

You must abide by the legal disposal requirements when permanently decommissioning the device.

### 1.5.8 Storage

Store the devices in a dry, frost-free location with a stable temperature. The well, pump and the hoses must not contain any water. Once the device has cooled off, pack it in plastic wrapping to protect it against scratches.

Storage temperature: Between -15 °C and +60 °C



## 1.5.9 Disposal

### Environmental regulations – disposal of batteries

Batteries contain heavy metal compounds.

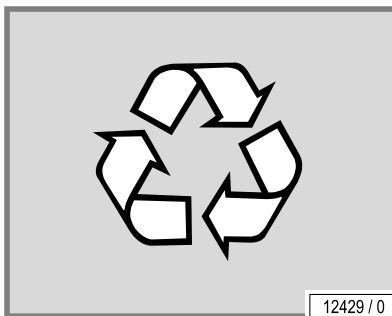
Within the European Union the national implementation of the Waste Framework Directive 2018/851/EC applies. According to the national waste disposal laws and in accordance with the community waste regulations, proof must be provided of the proper disposal of batteries.

### Operating water disposal

The device is filled with normal tap water without additives. The water can be drained off into the public sewage system after it has been used.

### Packaging

All packaging consists of 100 % recyclable materials. Packaging brought into circulation by the JK Corporate Group that is no longer required can be returned to the JK Corporate Group. Your partner agency or dealer will be happy to advise.



12429 / 0

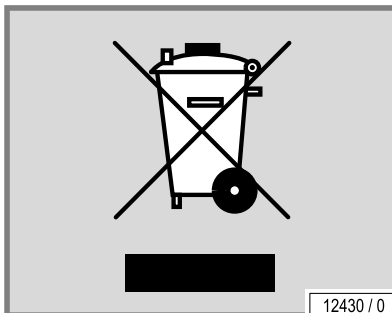
### Disposal of old devices

The device has been manufactured using recyclable materials. The JK Corporate Group will provide you with information on the content or potential hazards of the materials used.

The manufacturer is obliged to take back and dispose of certain electrical and electronic components in accordance with the 2012/19/EC Directive.

The components and devices are labelled with the following symbol:

The device will, if requested, be properly disposed of by the JK Corporate Group. This service is available free of charge. Your partner agency or dealer will be happy to advise.



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### Registration numbers

Companies within the JK Corporate Group are registered as manufacturers in Germany and accept all obligations in respect of the German Electrical and Electronic Equipment Act.

Registry number JK-Products GmbH (Devices): WEEE-DE 62655951

## 1.5.10 Directives

This device was built according to the following guidelines:

- EU directive for medical products 93/42/EEC (according to the version valid at the time).

## 1.5.11 Export

We emphasize that these devices are only intended for the European market and must not be exported to or operated in other countries e.g. the USA or Canada! The manufacturer does not accept any liability in the event of non-observance! We explicitly emphasize that non-compliance may result in high liability risks for the exporter and/or the operator.



### **1.5.12 Technical modifications**

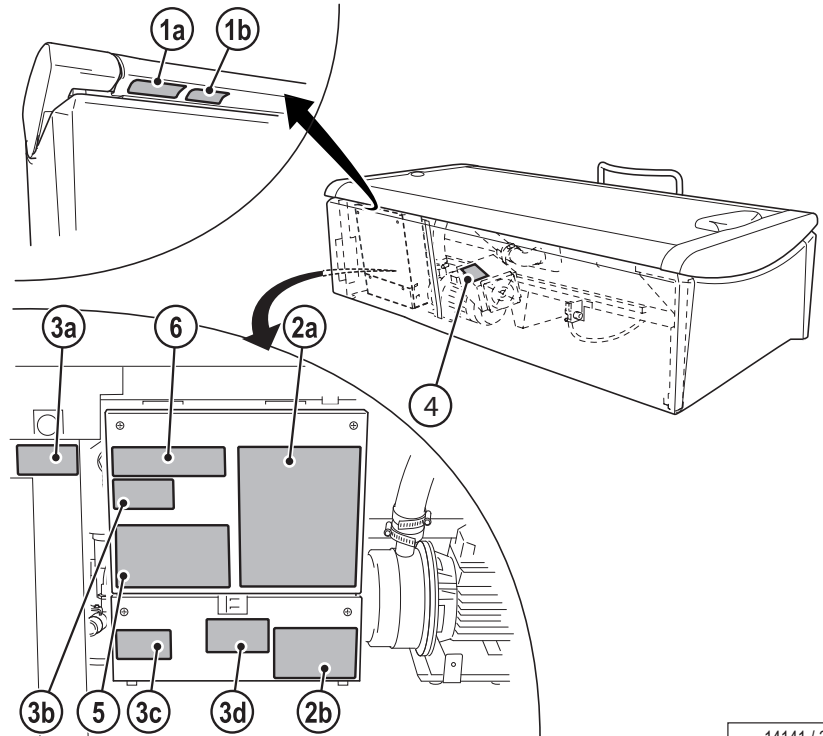
The device has been constructed in accordance with the current state-of-the-art and the applicable safety regulations. The illustrations and specifications on these instructions are subject to technical modifications which are required in order to improve the device.

Unauthorized modifications and changes to the device and its control unit are prohibited. Failure to comply with this voids the operating licence!

Please use only original spare parts. Any liability for damage or injury proven to be the result of the use of non-genuine spare parts is excluded.

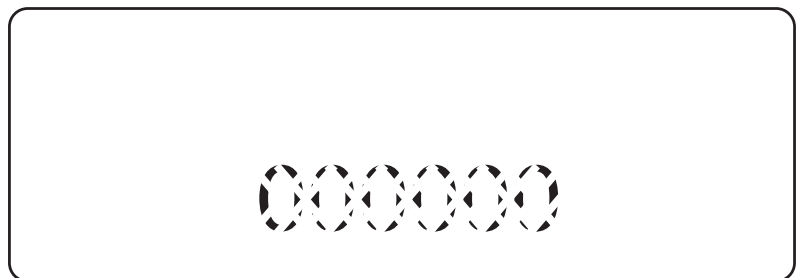
## 1.6 Signs and stickers on the device

Danger area warning signs and important information about components are attached to the device. The signs shown below are examples. Ensure that the warning signs are always clearly recognisable and legible. Any missing warning signs or stickers must be replaced.



14141 / 3

1a: Serial-No. plate



13094 / 0



1b: Type plate

 <b>Nicht Dauerbetrieb</b> $I \leq 45 \text{ min}$ $\geq 1 \text{ min}$	<b>JK-Products</b> <b>53578 Windhagen / GERMANY</b> <b>Koehlershohner Strasse 60</b> <b>Wellsystem MEDICAL</b>		
			Typ: 144910000000020000 Art.-No.: <b>100003061</b> SN: <b>1000000</b>

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The name plate and the Serial-No. plate are fitted underneath the handle at the feet end. They contain important information for identifying the device (e.g. the serial number = Serial-No.).

2: ESD-sensitive component sticker (a) and 'Voltage present' warning sticker (b) (1009942-..)

BU 18

Platine 1505014  
 # 01

2a

BU 20

BU 21

**ACHTUNG!**  
ESD-empfindliche Bauteile. Vorsichtsmaßnahmen beachten!  
Arbeiten an den Leiterplatten nur durch JK geschulte Elektrofachkraft!

**CAUTION!**  
Components sensitive to ESD. Observe precautionary measures! The PCB may only be worked on by specially trained personnel!

T1

K 11

K 1

F 1

X 1

L 1

EF1

BU 17

BU 6

2b

**GEFAHR**  
Bei geöffnetem Gerät nicht spannungsfrei!

**Sicherheitshinweis:**  
Zum störungsfreien Gerätebetrieb muß der Steuerboxdeckel immer ordnungsgemäß verschraubt sein!

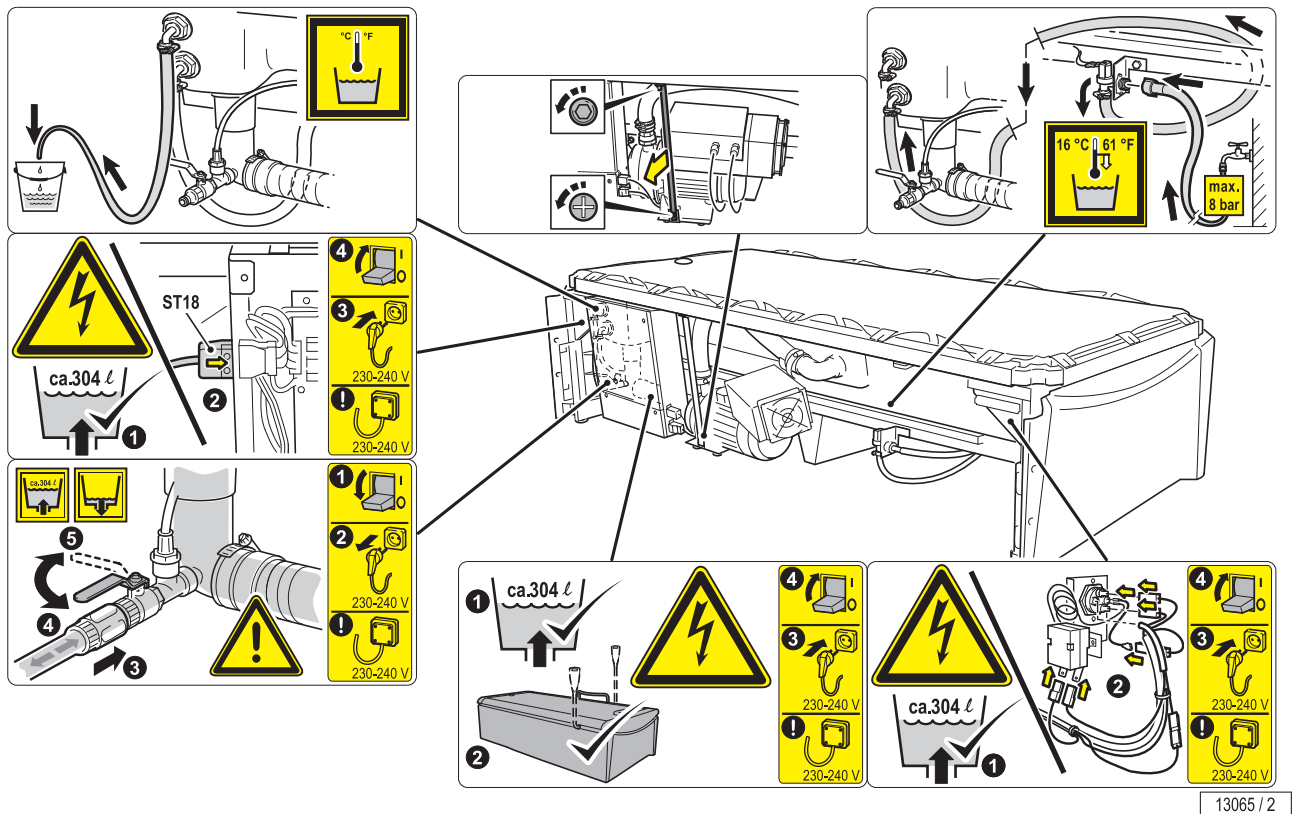
**DANGER**  
Voltage is not switched off, when appliance is open.

**safety note:**  
The control box cover must always be properly screwed on for failure-free operation!

13051 / 2

The sticker is located behind the front panel on the control box.

### 3: Warning label (1009943-..)



13065 / 2

### 4: Warning sticker / type plate, pump

		<b>⚠ GEFÄHR</b> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">D</span>
	<b>GEFÄHRLICHE SPANNUNG</b> Gerät nicht öffnen - Gefahr von elektrischem Schlag! Kondensatorenentladung!	
<b>⚠ DANGER</b> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">GB</span>		
<b>HAZARDOUS VOLTAGE</b> Do no open the device. Risk of electric shock! Discharge capacitors!		
Pumpe / Pump :		JK-No:1505600-..
<i>FU</i>	:	
<i>U1</i>	:	220 - 240V / 50 - 60 Hz
<i>I1</i>	:	16 A
<i>P1</i>	:	3,0 kW

18600 / 1

The sticker is located on the pump.



### 5: Note! Only genuine parts (800702-..)!

**HINWEIS!**

In diesem Gerät dürfen nur Original-JK-Holding-Teile bzw. von JK freigegebene Teile verwendet werden!  
Der Einbau von Fremdelektronik oder Änderungen jedweder Art an Konstruktion, Verdrahtung o.ä. führt zum Erlöschen der Gewährleistungsansprüche.  
Des Weiteren erlischt unsere EU-Konformitätserklärung (CE-Kennzeichen).  
Es besteht ferner die Gefahr, dass Sie die Ansprüche aus der gesetzlichen Produkthaftung verlieren.

**NOTE!**

Only genuine JK-Holding parts or parts approved by JK may be used in this device!  
The installation of electronics of other manufacturers or changes of any kind to the design, wiring etc. shall result in any and all warranty claims being voided. In addition, our EU Declaration of Conformity (CE certification) shall also be voided. There is also a danger of losing the right to any claims resulting from legal product liability.

18599 / 1

The sticker is located behind the front panel on the control box.

### 6: 'No export USA/Canada' sticker (84829-..)

**HINWEIS**

Wir weisen darauf hin, daß die Geräte nicht in die USA oder nach Kanada exportiert und dort betrieben werden dürfen. Bei Nichtbeachtung dieses Hinweises wird keine Haftung übernommen.

**NOTE**

We emphasize that these devices must not be exported to or operated in the USA or Canada! The manufacturer does not accept any liability in case of non-observance of this notice!

**REMARQUE**

Nous attirons votre attention sur le fait que les appareils ne doivent pas être exportés ni utilisés aux Etats-Unis ou au Canada! Nous ne pourrions nullement être tenus responsables de dommages si cette remarque n'est pas respectée! 84829-03-

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## 1.7 Warranty

---

wellsystem guarantees to the customer for 24 months starting from handover that the goods do not present any faults which remove or decrease the value or the capability of the device in normal use. The rubber blanket, toothed belt and drive motors are components of the device that are subject to wear and tear in everyday use. If the defect in the goods is attributable to wear and tear of these components, claims under warranty by the customer will not be entertained.



## 1.8 Warranty and liability exclusions

---

Warranty and liability claims for personal injury and property damage are excluded if they are the result of one or more of the following causes:

- improper use of the device;
- improper assembly, commissioning, operation and maintenance of the device;
- operating the device with faulty safety equipment or improperly attached or non-functional safety and protective equipment including warning signs;
- operating the device at maximum pressure for longer than 1 hour a day without a cooling system;
- not complying with the information in the operating instructions regarding transport, storage, assembly, commissioning, operation and maintenance;
- the use of untrained personnel;
- unauthorized changes to the device or the control unit;
- inadequate monitoring of parts subject to wear;
- repairs carried out improperly;
- the use of non-original spare parts
- emergencies and disasters resulting from the influence of foreign materials or force majeure.

## 2 Description



### 2.1 Scope of delivery

---

- Dry water massage device
- Technical documentation (instructions, brochures for error codes and default settings and additional documentation)
- Service card 12668-..
- Headrest 801091-..
- Pressure hose 50906-.. (10 m, 3/8");  
Inlet: 1,5 MPa (15 bar) operating pressure
- Hose 50909-.. (10 m, 1/2"); outlet

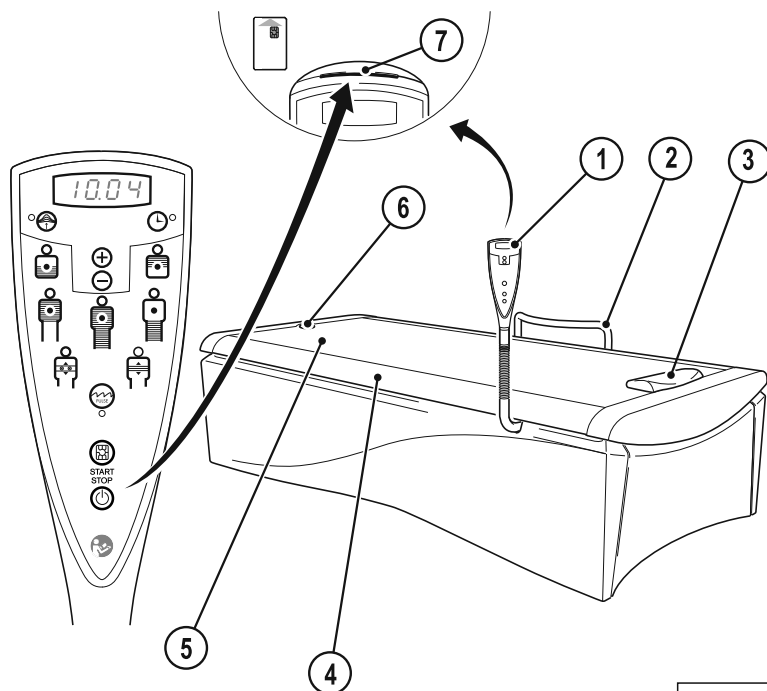
#### 2.1.1 Accessories (optional)

- Chip card set 500001113 (programs M1, M2, M3)
- Chip card set 500001115 (blank chip cards = PROGRAMMABLE)
- Extension cushion 34528100

#### 2.1.2 Non-medical accessories

- wellsystem SPA (wellness accessory)

## 2.2 Device description

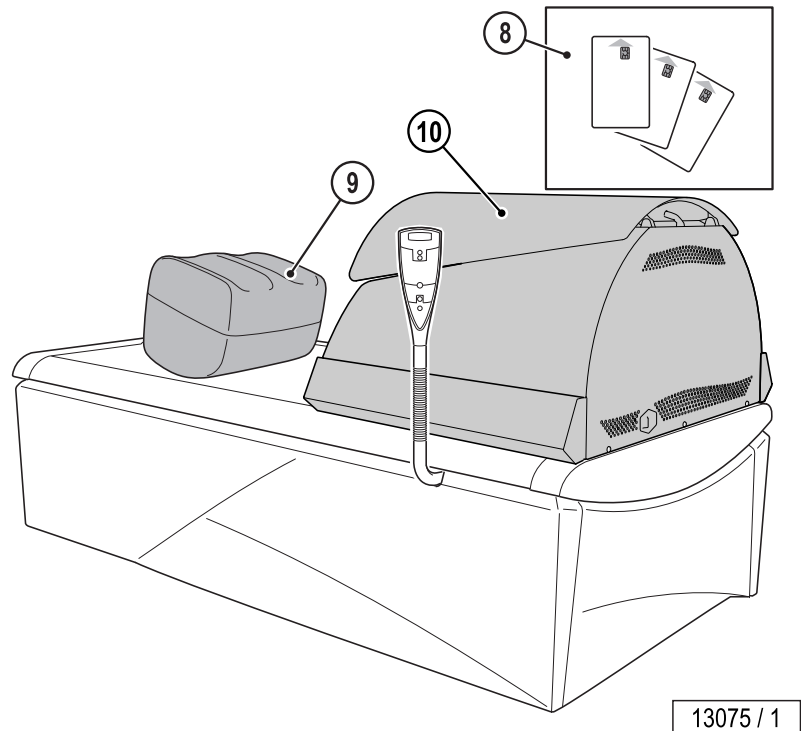


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1. Operating panel
2. Grab handle
3. Headrest
4. Tank
5. Bed surface (rubber blanket)
6. Valve (venting)
7. Chip card slot



## 2.3 Accessories (optional)



- 8. Chip card sets
- 9. Extension cushion
- 10. wellsystem SPA (wellness accessory)

## 2.4 Functional description

Dry water massage involves the treatment of the body or individual parts of the body by kneading, pummelling, rubbing, stroking and pressing the muscles.

In principle mechanical massage with the wellsystem MEDICAL can be used for all symptomatic and non-symptomatic stiffening of the back muscles, gluteal muscles and the leg muscles.

Hydrostatic pressure, which can put a lot of strain on the circulation during treatment in water, is completely avoided with this device. The person does not make direct bodily contact with the water jets. The risk of a water-borne infection is therefore also eliminated.

Mechanical massage using this device must not be undertaken if this will result in excessive demands being made on the tensed muscles or even damaging them or other spinal column or pelvis tissue structures, i.e. the vertebrae, the ligaments in a vertebral motor segment, the sacroiliac joints or the hip joints.

The massage must not result in negative or somatic reactions such as pain or signs of inflammation and it must never be used in areas where the structure is loose, e.g. from endoprosthesis, as mechanical vibrations can be expected in these areas.

The vertebrae must be stabilized and mobilized sufficiently so that they can be moved during treatment.

The benefits of this device as compared to other forms of physical therapy:

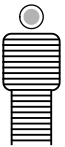
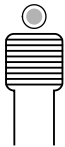
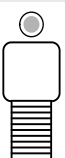
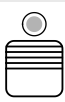
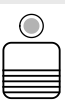


- No circulation strain
- No sweating afterwards
- Individual and reliable dosing
- Quicker for the user



## 2.4.1 Massage areas and massage types


If you use a chip card, the program stored on it will run automatically. If you are not using a chip card then the full-body massage combined with the parallel stroke continuous massage will be activated after start-up. You can change the areas to be massaged and the type of massage at any time just by pressing the relevant button.

### Massage areas

Button	Function	Button	Function
Whole body massage		Upper body massage	
	For the whole body massage, the massage nozzles move along the entire bed.		For the upper body massage, the massage nozzles only move over the top half of the bed.
Lower body massage		Neck / shoulder massage	
	For the lower body massage, the massage nozzles only move over the lower half of the bed.		The massage nozzles only move in the neck and shoulder area.
Lumbar area massage		Zone massage	
	The massage nozzles only move in the lumbar area.		During zone massage the massage nozzles move in an area of approx. 20 cm. Select the whole body massage, wait until the nozzles have reached the desired body area when moving from the head end to the foot end and then press zone massage.
Point massage			
	The massage nozzles do not move during a point massage. Select the whole body massage, wait until the nozzles have reached the desired body area when moving from the head end to the foot end and then press point massage.		



## Massage type

Continuous massage	Impulse massage
<p>Continuous massage is set as standard. The water jet from the massage nozzles is constant during continuous massage.</p>	 <p>The pulse massage can be combined with all massage areas. It can be activated or deactivated during the application. The water jet from the massage nozzles is briefly and regularly interrupted during a pulse massage; the selected massage area does not change.</p>

## 2.4.2 Control panel key lock

The control panel is fitted with a key lock to prevent the user/patient from changing the massage areas and massage types accidentally.

If the key lock is activated (ON), the functions available will be limited. Only the START/STOP function remains usable. The massage areas and massage types cannot be changed.

If the key lock is deactivated (OFF), the massage areas and massage types can be changed.



### NOTE:

The current status of the key lock can be viewed and changed in the presettings, see chapter 'Presettings', page 51.

## 3 Operation



### 3.1 Application tips

#### 3.1.1 Safety instructions

##### WARNING!



**Damage to the nozzle carriage may occur.**

- The patient is only to lie down on the device or leave it when it is stopped.

##### Procedures before and during a massage:

- Clothing dyes or hair dye may lead to a discolouring of the rubber blanket. A large towel should be placed on the bed in this case.
- Sharp edged objects, such as jewellery, belt buckles, etc., may damage the rubber blanket and should therefore be removed beforehand.
- Light-weight and strong clothing should always be worn during use.
- Lie down with your back on the device.

#### 3.1.2 Preparing the patients

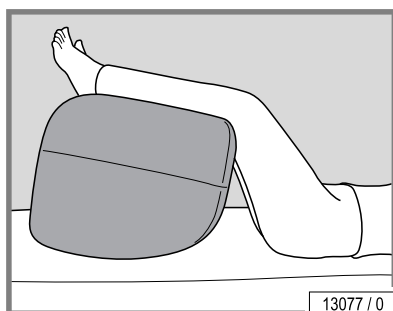
Not applicable for this device.

#### 3.1.3 Using the extension cushion

An extension cushion can be placed underneath for greater comfort during the massage.

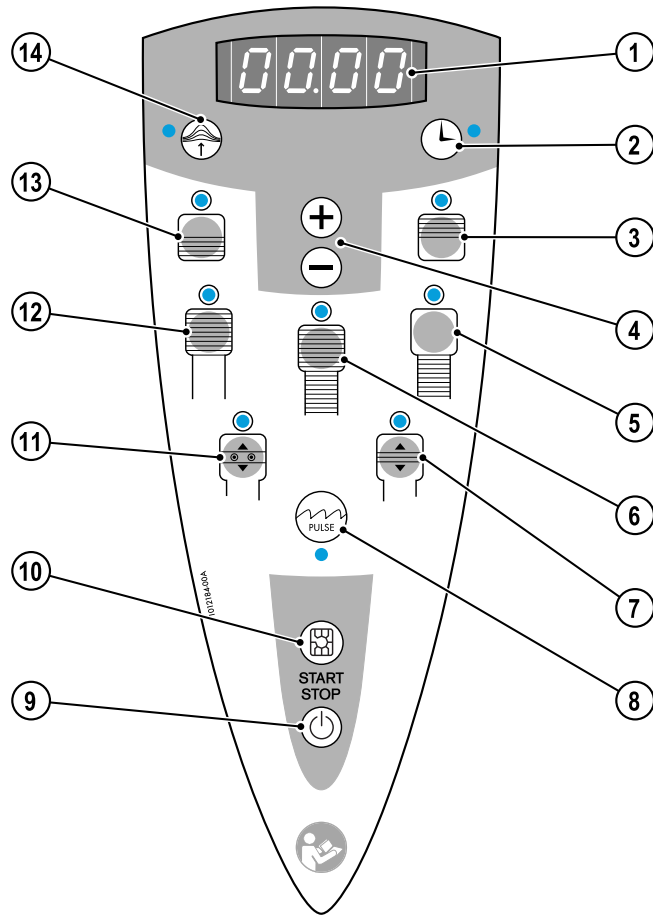
This does **not** apply to the following massage areas:

- Full body massage area
- Lower body massage area
- Zone massage area, if the set area includes the leg area.



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### 3.2 Operating overview

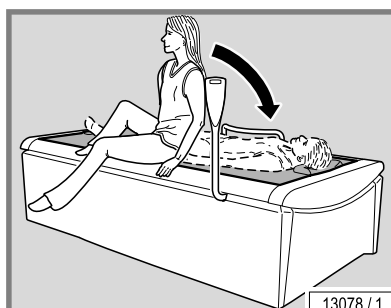
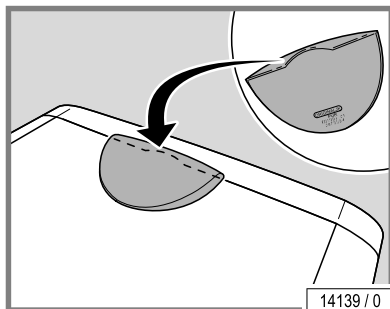


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Function	Information
1 Display	4-digit
2 Massage time button	—
3 Neck / shoulder button	Massage area
4 Plus button, minus button	—
5 Lower body button	Massage area
6 Whole body button	Massage area
7 Zone button	Massage area
8 Pulse button	Massage type
9 START / STOP button	—
10 Save program button	—
11 Point button	Massage area
12 Upper body button	Massage area
13 Lumbar area button	Massage area
14 Massage pressure button	min. 0.50, max. 4.00



### 3.3 Starting a massage



**NOTE:**

If and how the massage time, massage areas and massage types can be selected depends on the presets – see page 51.

- Setting the massage time – see page 41.
- Lie down on the unit. In doing so place your head on the positioned head-rest.
- Select the type of massage that you want and then press the START / STOP button.



**NOTE:**

The zone or point massage selection only functions when the nozzles are moving from the head end to the foot end.

If you have missed the right moment:

- First select whole body massage again.
- Wait until the nozzles reach the desired position while moving from the head end.
- Press zone or point massage.



**NOTE:**

If the key lock is activated on the control panel, only the START/STOP function will remain usable, see chapter 'Presettings', page 51.



**NOTE:**

The cooler in the base of the device is switched on and off automatically whilst the device is being used.



### 3.3.1 Using a chip card to start

A set of chip cards loaded with 3 additional massage programs is available as an accessory – see page 33.



**NOTE:**

If and how the massage time can be selected depends on the presets – see page 51.



**NOTE:**

Any massage time setting can be entered prior to starting when using a chip card (up to the maximum default time permitted). The massaging pressure can be decreased or increased at any time whilst the unit is working.

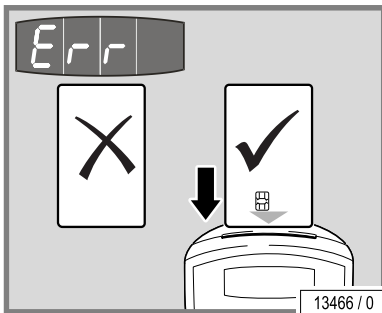
The type of massage cannot be changed!

- Setting the massage time – see page 41.
- Insert the chip card.
- Lie down on the unit. In doing so place your head on the positioned head-rest.
- Press the START / STOP button.

The program stored on the chip card will run automatically.

#### Chip card inserted incorrectly

If the chip card is inserted incorrectly, the error message **Err** is shown on the display.



### 3.3.2 Using a coin unit to start

- Set the massage time on the coin device.
- Lie down on the unit. In doing so place your head on the positioned head-rest.
- Select the type of massage that you want or insert the chip card.
- Press the START / STOP button.

## 3.4 Ending a massage

The massage will be terminated automatically after the set massage time has expired. A flashing StOP sign will be shown in the display.

When the set massage time has expired, the nozzles move at high speed to the head end and then change to a smoothing, final massage. The pressure is reduced for the final massage. The nozzles move once completely from the head end to the feet end as for a full body massage.

### 3.4.1 Interrupting the massage

The massage pressure is considerably reduced. The nozzle carriage will cover the shortest route to either the head or feet end of the massage device and will continue to run there, but at reduced pressure.

Do not get off the massage device until the nozzle carriage has reached one of the end positions. The massage time will keep running.

- Press the START / STOP button once again to restart the massage.



### 3.4.2 Terminating the massage before the time has expired

- Press the START / STOP button and keep it pressed down for 3 seconds:

The nozzle carriage will move up to the head end of the device and it will then be switched off.

## 3.5 Service card

The service card (12668-..) is used to call up device information and for modifying some default settings such as the water temperature – see page 51.



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## 3.6 Default massage program

A set of chip cards (500001113) loaded with 3 massage programs is available as an accessory.



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**Program 1: Chip card Medical M1 (1011932)**

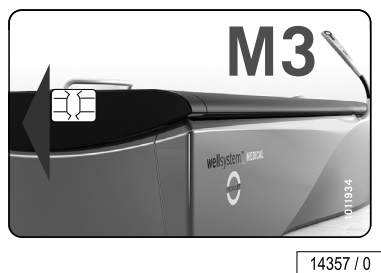
Massage area	Massage time	Massage pressure
	5 min	Continuous massage
	5 min	
	5 min	
	5 min	Continuous massage

**Program 2: Chip card Medical M2 (1011933)**



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Massage area	Massage time	Massage pressure
	4 min	Continuous massage
	3 min	
	3 min	Continuous massage
	3 min	
	3 min	Continuous massage
	4 min	Continuous massage



**Program 3: Chip card Medical M3 (1011934)**

Massage area	Massage time	Massage pressure
	4 min	Continuous massage
	4 min	
	4 min	
	4 min	
	4 min	Continuous massage

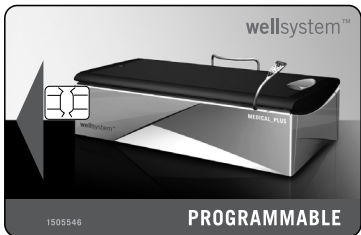


**3.6.1 Selecting a massage program**

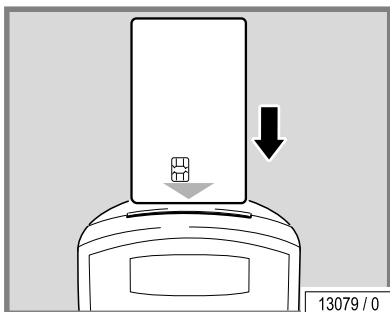
The following options are available:

- Chip card set accessories (500001113): Select the chip card with the desired program.
- Blank chip card set (500001115): Select an individual compiled massage program, see 3.7 Programming.
  - Insert the chip card.
  - Press the START / STOP button.

Variable settings such as the massage pressure can be entered during the massage, see page 41.



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### 3.7 Programming

The pre-settings determine whether the programming function is activated, see page 51.

- Insert the chip card.
- Press and hold down the save program button for 3 seconds.

The display will change over to programming mode. PH.01 is displayed alternately with the phase duration in minutes.

During programming the unit switches on automatically and follows the button input. Nevertheless, the programming can be continued without interruption.

Various phases may be defined for a massage program. All of the basic settings (massage pressure, body area, type of massage, etc.) can be set up separately for each phase.

A single phase must last for at least 1 minute and up to a maximum of 45 minutes. The times must be entered using minute cycles. The defined phases will run in sequence. The sequence will be repeated until the entered massage time has expired.










































**NOTE:**

Pay special attention to the full massage time when creating a program. Not all of the phases can be run if, for example, a program has 20 phases and each one last for one minute but the overall time entry was only 15 minutes! The massage will stop after the 15th phase.

An example program with 3 phases is shown below.

The PH.01 display will alternate with the phase duration (in minutes). Use the plus or minus buttons to select the phases.

Phase	Configuring the settings	Button sequence	Example setting / Display
	Insert chip card		
	Start	 Press and hold the save program button for 3 s.	
	Message time	  / 	
	Message pressure	  / 	
	Pulse massage		
	Body area		
	Store the phase		
	Select a new phase		

Phase	Configuring the settings	Button sequence	Example setting / Display
PH.02	Message time	 	
	Message pressure	 	
	Body area		
	Store the phase		
	Select a new phase		
PH.03	Message time	 	
	Message pressure	 	
	Pulse massage		
	Body area		
	Store the phase		
	Select a new phase		

**End programming:**

- Use the plus button to change over to a new phase after all of the phases have been entered. In the example shown above PH.04 is the next phase and it cannot be re-programmed.
- Press the START / STOP button.

**NOTE:**

The START / STOP button must be pressed to activate the card. The card will be erased if the button is not pressed and it will have to be re-loaded.

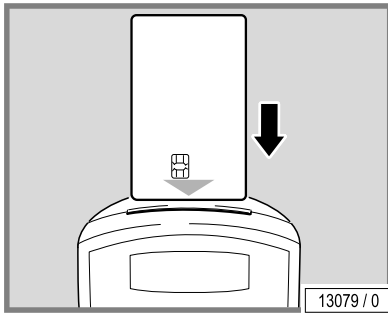
- Remove the card.

**NOTE:**

If the key lock is activated on the control panel, only the START/STOP function will remain usable, see chapter 'Presettings', page 51.



### 3.8 Loading a chip card

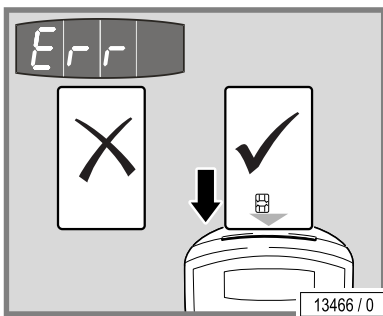


The pre-programmed and user programmable chip cards can be topped up for further massage sessions as often as necessary (see 'Presettings', page 52).

When topping up, the chip cards are upgraded to a new software version and can no longer be used in devices in which older software is used.

#### Remaining credit

Upgraded chip cards briefly display the number of massages left after they have been inserted. The operating screen is displayed afterwards.



#### Chip card inserted incorrectly

If the chip card is inserted incorrectly, the error message **Err** is shown on the display.









## 3.9 Configuring the settings

### 3.9.1 Basic settings



Increasing / decreasing the intensity of the display and the lights inside the buttons

Operating button	Basic settings / Display	Remarks
	Display 	<b>Standby mode:</b> Press the plus or minus buttons to alter the display's light intensity and the intensity of the lights inside the buttons by up to 10 increments. Plus button: Increases the intensity. Minus button: Reduces the intensity.
	Message time button 	
	Message pressure button 	
	Whole body button 	
	Pulse message button 	



### Activating and interrupting the message times






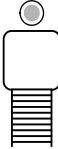





Operating button	Basic settings / Display	Remarks
	START / STOP button	<b>Message start:</b> Press the START / STOP button. The device switches on.
	Message time display	<b>Message time sequence:</b> The display counts down in seconds, e.g. from 30.00 down to 00.00.
		<b>Message time finish:</b> The nozzle carriage moves down to the feet end and then up to the head end.
		The display will change from 00.00 to StOP.
		A new message session can now be called up.
		<b>Message start:</b> Press the START / STOP button. The device switches on again.
		<b>Message stop:</b> Press the START / STOP button and keep it held down for approx. 3 s. The device switches off. The display will start to flash.
		A new message session can now be called up.
		<b>Message start:</b> Press the START / STOP button. The device switches on again.
		<b>Program interruption<sup>1</sup></b> Press the START / STOP button and hold down for approx. 1 s.
		<b>Note:</b> The message time will keep running.
		The nozzle carriage moves in the direction of the foot end or head end. It remains in this waiting position until the START / STOP button is pressed again.
		<b>Continue program:</b> Press the START / STOP button. The nozzle carriage moves back into the position for the preset program.

<sup>1</sup> Only possible if the pause function (13) has been activated while in pre-setting mode

## 3.9.2 Variable settings

### Message area, message time and message pressure settings



Operating button	Settings / Display	Remarks
	Altering the message time, e.g. from  to 	<b>Before starting:</b> Press the message time button and hold down for approx. 1 s. The display will flash. Press the plus or minus buttons to set up the value that you want. <b>Basic setting:</b> Changes can only be made using the service card in the default settings mode. Factory setting: 30 minutes Minimum and maximum message times in minutes: 5.00 to 45.00 in minutes
	START / STOP button Message time display 	The device switches on. <b>After starting:</b> Select message area, e.g.: Lower body button  Factory setting: Whole body massage
	Altering the water jet 	Factory setting: Pulse massage inactive Pressing the pulse button to activate pulse massage: The water jet will be continually interrupted. The diode is illuminated. Deactivating the pulse massage option: Press the pulse button again
	Altering the message pressure, e. g. from  to 	Press the message pressure button and hold down for approx. 1 s. The display will flash. Press the plus or minus buttons to set up the value that you want. <b>Basic setting:</b> Changes can only be made using the service card in the default settings mode. Factory setting: 1.50 Minimum and maximum message pressure: 0.50 to 4.00 in 0.25 intervals



### Altering the massage area



**NOTE:**

The zone or point massage selection only functions when the nozzles are moving from the head end to the foot end.

If you have missed the right moment:

- First select whole body massage again.
- Wait until the nozzles reach the desired position while moving from the head end.
- Press zone or point massage.

- Press the new massage area button.

## 3.10 LED Light Show

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Not applicable for this device.

## 4 Cleaning and maintenance



### 4.1 Safety instructions for maintenance

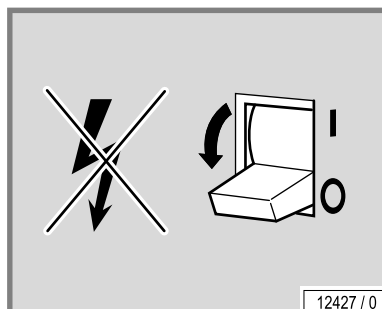
#### DANGER!



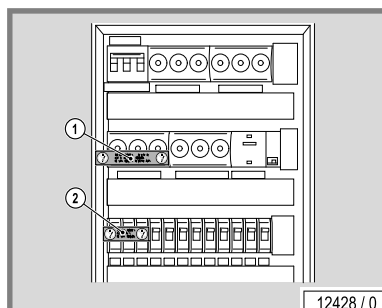
#### Electricity throughout entire device!

Personnel danger due to electric shock or electric burns.

- Before beginning work, disconnect all of the power connections from mains voltage.
- Secure all of the disconnected connections against accidental reactivation.
- Check that the device is disconnected from mains voltage.
- All of the work and electrical connections must comply with the national regulations of the country in which the device is being operated (e.g. the VDE regulations in Germany) and must be undertaken by appropriately trained specialists.



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If work is to be performed on the devices, they must be deenergized. That means that all live cables must be switched off.

Switching off the device alone is insufficient, as certain points may remain energized. Therefore, switch off fuses before performing any work and – if possible – remove them.

Accidental reactivation can result in serious accidents. Immediately after deenergizing, secure all switches or fuses used for deenergizing against being switched on again.

- Lock the fuse box with a padlock.

In case of circuit breakers which cannot be unscrewed, a strip of adhesive tape may be applied over the actuation lever with the wording 'Do not switch, danger!' (1 + 2).

A prohibition sign with the text:

'Work in progress!'

'Place: .....

'Sign may only be removed by: .....

must always be securely mounted immediately.

#### DANGER!



#### Electricity is present throughout the entire device!

Personnel danger due to electric shock or electric burns.

- Prohibition signs must not be fixed to live parts nor touch these.



## 4.2 Faults

---

Error codes are output to the display to simplify troubleshooting:

- If an error occurs, the error code flashes on the display.
- If several errors occur, the error messages are displayed alternately.



**NOTE:**

Certain error messages can be switched off by pressing the **START / STOP** button.

In other cases the error can be eliminated by switching the device off for 1 minute (switch off using the main switch / the fuse).

- Inform our customer service department if the same error code is displayed again after pressing the **START / STOP** button or switching the device back on – see page 2.

More detailed information regarding the error description and solutions can be found in 'Error Codes', (order no. 1020541-..).

## 4.3 Cleaning and disinfection

---

**DANGER!**

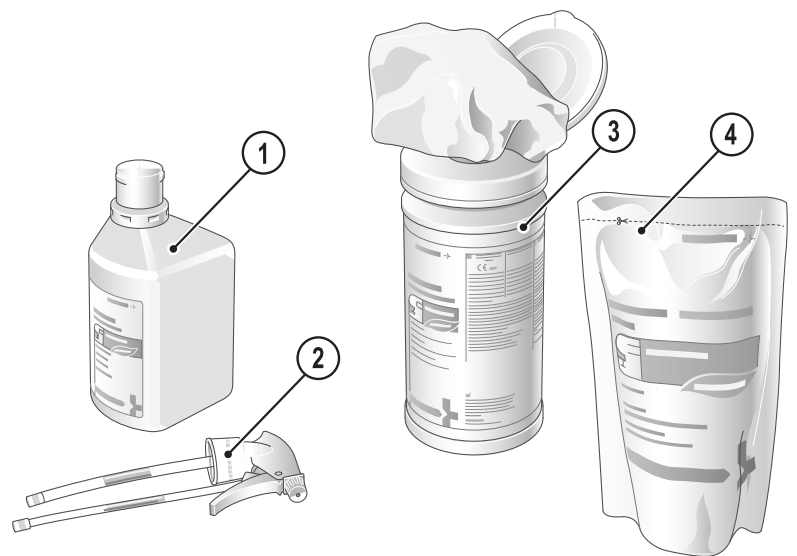


**Infections can be spread by skin contact!**

All objects / device parts touched by the user during use must be disinfected after every use:

- Handle
  - Control panel
  - Rubber blanket
  - Frame
  - Headrest
-

### 4.3.1 Disinfection



13104 / 0

We recommend the following cleaning agents for rapid and thorough disinfection:

mikrozid® sensitive fast disinfectant cleaner

- |   |   |            |            |
|---|---|------------|------------|
| 1 | mikrozid® sensitive liquid,<br>1 Ltr.                 | Order no.: | 1010283-.. |
| 2 | Foam spray head                                       | Order no.: | 1016765-.. |
| 3 | mikrozid® sensitive wipes (container),<br>200 wipes   | Order no.: | 1010285-.. |
| 4 | mikrozid® sensitive wipes (refill pack),<br>200 wipes | Order no.: | 1010286-.. |



**NOTE:**

Adhere to the stipulated times to ensure thorough disinfection. Follow the manufacturer's instructions for use.



### 4.3.2 Cleaning the surfaces

#### WARNING!



**Do not rub with a dry cloth – danger of scratching!**

Failure to comply voids any warranty claims.

- Only the specially-developed fast disinfectant mikrozid® sensitive cleaner should be used for fast, hygienic and correct cleaning of surfaces.
- Do not use other cleaning agents, especially concentrated disinfectants or solvents (e.g. Lysoform, ethyl alcohol or other fluids containing alcohol) for cleaning.

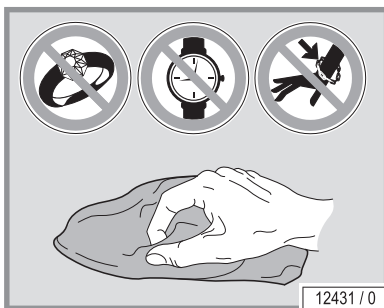
#### Plastic surfaces

For cleaning the painted and unpainted plastic surfaces, it is best to simply use warm water and a leather cloth. Never use aggressive cleaning agents containing alcohol or essential oils. These may lead, in the long run, to damages not covered by the guarantee.

During cleaning a slight discolouration of the leather cloth by the rubber seals must be expected for production-related reasons.

Prevent the plastic surfaces from being damaged.

- Remove rings, watches, bracelets etc. before starting cleaning work.



### 4.4 Maintenance performed by the customer service



#### NOTE:

The maintenance work must be carried out by wellsystem MEDICAL the customer services of the manufacturer or by qualified specialist personnel authorised by the manufacturer following a check list.

#### WARNING!



Only use **genuine spare parts** of the same type! Material damage or personal injuries may result when using other parts.

Any liability for damage or injury proven to be the result of the use of non-genuine spare parts is excluded.



**Maintenance performed by authorized, trained and qualified staff****WARNING!****Danger to persons from maintenance work that has not been carried out!**

If maintenance work is not carried out, it can lead to material damage or personal injuries!

- Maintenance work may only be carried out by personnel who have been authorized, trained and qualified by JK Products & Services, Inc.!
- The operator is responsible for compliance with the maintenance intervals!

The maintenance work must be carried out in accordance with checklist 1016789-.. by a JK Factory Certified Technician at the manufacturer or by personnel who have been authorized, trained and qualified by the manufacturer.

The correctly carried out maintenance work must be entered and confirmed in checklist 1016789-..

The maintenance work must be carried out at the following intervals:

- Annually or every 2000 hours, whichever is sooner.
- Every 3000 hours
- After 5 years or 4,000 hours, whichever is sooner.
- After 8 years or 6,500 hours, whichever is sooner.
- After 10 years or 20,000 hours, whichever is sooner.

Once the age of the device reaches ten (10) years from the date of manufacture, its condition must be assessed by a JK-International GmbH, Division JK-Global Service Certified Technician before use of the device can be continued.

Failure to have this device assessment performed may result in personal injury or property damage.

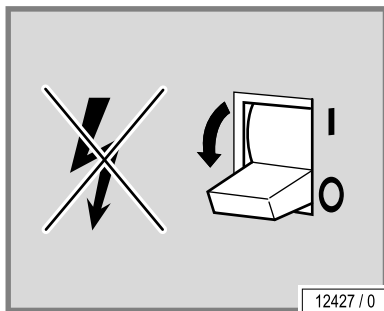
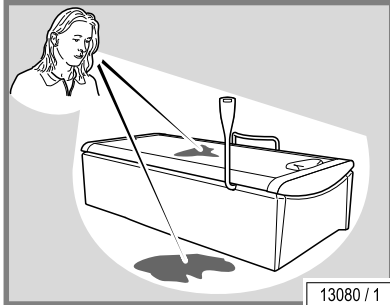
Any liability is excluded if use of the device continues ten (10) years after the date of manufacture, without the "condition assessment" having been performed.



## 4.5 Maintenance performed by the operator

### 4.5.1 Daily visual inspection

- Inspect the device for leaks.



#### WARNING!

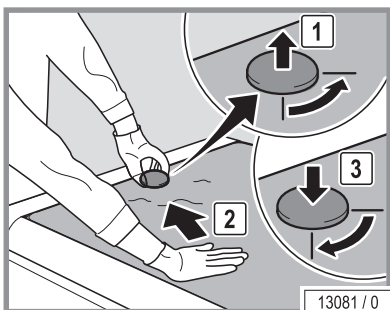


#### The device might be damaged by moisture!

- The device may no longer be used in the event of water loss (puddles on the floor). Please inform our customer service department – see page 2.
- Do not switch the device on if there are leaks or if it is damaged. Inform our customer service department – see page 2.

### 4.5.2 Venting

The tank must be vented 3 days after commissioning or after it has been initially filled. After this, venting is unnecessary unless leakages occur and the tank has to be topped up.



#### DANGER!



#### Illnesses can be caused by contaminated water!

The water in the tank is untreated and can be contaminated with bacteria.

- Wear protective gloves if you are likely to come into contact with the water.

- Open the valve.
- Press the rubber blanket down gently, so that the air escapes.
- Shut the valve again afterwards.

## 5 Technical data

### 5.1 Power, connection rating and weight



wellsystem MEDICAL	
Power consumption rating:	2800 W
Rated frequency:	50/60 Hz
Rated voltage:	230 V ~
Power consumption:	14 A
Rated fuse:	16 A
Connection type:	Landline connection (3.00 m)
Noise level 1m away from device:	57.0 dB(A)
Noise level inside the device:	< 61 dB(A)
Classification	
by the type of protection against electric shock:	Protection class I
by the degree of protection against electric shock:	Type BF application part
Protection class:	I
Protection type:	IP20
Empty weight (unfilled):	ca. 168 kg
Weight:	ca. 472 kg
No continuous operation:	on <= 45 min off > 1 min

#### Essential performance features



#### NOTE

The essential performance features of the device are carried out within the following limits:

<b>Lower limit</b>	Massage pressure: 0.50
	Temperature: 20°C
	Application time: 5 Min.

<b>Upper limit</b>	Massage pressure: 4.00
	Temperature: 40°C
	Application time: 45 Min.



## 5.2 Water and cooling conditions

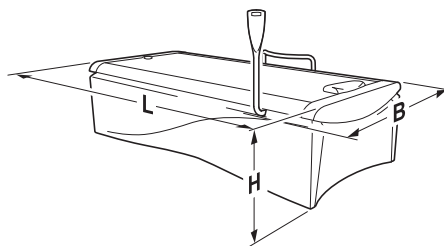
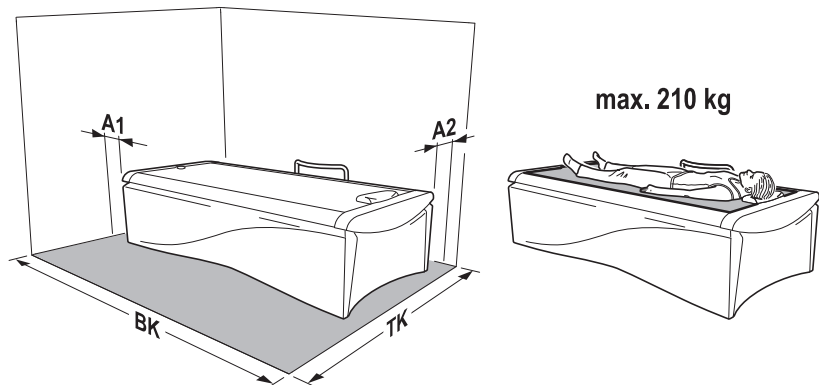
The device is filled with normal tap water without additives. The water can be drained off into the public sewage system after it has been used.

### Water and cooling conditions

- Permissible water pressure (water inlet): 0.8 MPa (8 bar)
- Maximum coolant temperature: 16 °C > setpoint temperature and set time.

The device may only be operated with the pressure hose included in the scope of delivery.

## 5.3 Dimensions



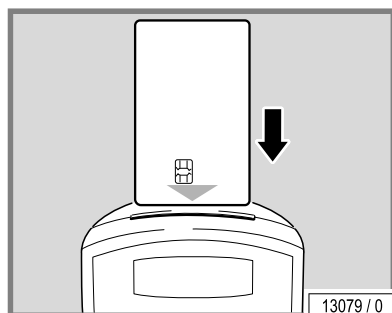
14140 / 1

A1 =	150 mm
A2 =	100 mm
BK =	2450 mm
TK =	1900 mm
L =	2150 mm
B =	1100 mm
H =	570 mm

## 5.4 Spare parts and accessories

Not applicable for this device.

## 6 Presettings



Operating states can be called up and presettings entered in service / preset mode.

See page 30.

- Insert service card.
- The code for the last function setting is displayed on the screen e.g. 06 and SER alternating.
- Press the massage pressure button to display the current setting for this function, e.g. 10.00.
- Press the plus button (4) or minus button (4) to modify the setting.
- Press the massage pressure button (14) to confirm the setting. 06 will be displayed on the screen again.
- Press the plus button (4) to scroll up to the next function.
- Press the minus button (4) to scroll down to the next function.

No.	Description	On delivery	Values from - to
01	Total operating hours (Reset: Press the plus and minus keys simultaneously)	0	0 - 9999
02	Operating hours since the last service (Reset: Press the plus and minus keys simultaneously)	0	0 - 9999
03	Water temperature unit The change from °C to °F and back is done by conversion; the actual temperature may vary slightly.	°C	°F, °C
04	Time controller (FREE = freely selectable massage time, SEAL = default time setting, COIN = coin operation)	FREE	FREE, SEAL, COIN
05	Maximum massage time in minutes (when Setting 04 = FREE)	30	5 - 45
06	Default massage time / chip card program time in minutes (when Setting 04 = SEAL)	30	5 - 45
07	Water default temperature setting in °C Water default temperature setting in °F	35 95	20 - 40 68 - 104
08	Actual water temperature in °C or °F	-	-
09	Normal operation = FREE – see 'Expanding the chip card functions'; chip card-dependent operation = PAY	FREE	FREE, PAY
10	Chip card upgrading – see 'Expanding the chip card functions' (number of massages)	20	1 - 50
11	Reset the device default status (i.e. delivery status) by pressing the plus and minus buttons simultaneously and holding them down.	-	RSET
12	Programming mode (OFF = programming mode switched off, PHAS = phase mode programming)	OFF	OFF, PHAS





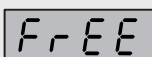







No.	Description	On delivery	Values from - to
13	Pause function – if the START / STOP button is pressed during a message (ON = message will be interrupted, OFF = the message will continue without being interrupted) then STOP will be displayed briefly)	OFF	ON, OFF
14	Pressure at massage start	1.50	0.50 - 2.75
15	Cooling time after massage Starts to cool once the selected setpoint temperature (07) has been exceeded. Selection: 0- 60 minutes, when ON continuous until the setpoint temperature has been reached.	60	00 - 60
17	Control panel key lock ON = key lock is activated, the patient can only use the START/STOP function OFF = key lock is deactivated, the patient can change the massage areas and massage types.	OFF	ON, OFF

## 6.1 Expanding the chip card functions

The chip card (massage card) can also be used as a means of payment. Two further pre-setting possibilities are added for this purpose: 09 and 10.

**09 controls the device operation:**

Button sequence	Description
	Service card
 	Select 09
 	If 'FREE' is selected then the device will operate as before.
 	If 'PAY' is selected then the device can only be used with an upgraded chip card (massage card).
 	
	

### 10: Number of massages / Chip card upgrade

#### WARNING!



Any credit remaining on the chip card will be overwritten when topped up!

- Check the remaining credit on the chip card.
- Any new massages that are entered will be added to the remaining massages.



#### NOTE:

After inserting, chip cards upgraded to the new software version briefly display the number of massage sessions still available and then the operating mode display reappears.

#### Loading procedure:

Button sequence	Description
	Service card
	Select 10
	Press the plus or minus button to enter the number of massages (1 - 50). Add on the remaining credit!











#### WARNING!



The card can be destroyed.

- Never pull the chip card out during upgrading.



Button sequence	Description
	Chip card (massage card)
	The LED in the time display will flash. Wait until the upgrade has been completed (flashing stops).
	The card can be removed when 'Cout' is displayed on the screen.
	
	Service card
	
	 Exiting sub-menu.
	

This procedure can be repeated with as many chip cards as required. When the loading procedure has been completed and no chip card has been inserted within approx. 4 minutes the system exits the loading procedure automatically.

The service card must be reinserted to be able to swap to another menu.



## 7 Appendix



### 7.1 wellsystem MEDICAL: EMC information

#### 7.1.1 Table 201: Guidelines and manufacturer's declaration – Electromagnetic emissions

The wellsystem MEDICAL massage device has been designed for use in the electromagnetic environment specified below. The device operator must ensure that it is used such an environment.

Emission measurements	Conformity	Electromagnetic environment – Guidelines
HF emissions as per CISPR 11	Group 1	wellsystem MEDICAL uses HF power solely for internal functions. Therefore the HF emissions are very low and it is highly unlikely that it will cause any interference to adjacent electronic equipment.
HF emissions as per CISPR 11	Class B	wellsystem MEDICAL has been designed for use in all devices, including those in residential areas, and it has been determined that it can be used for residential purposes as soon as it is connected up to a public mains supply that also supplies buildings.
Harmonics IEC 61000-3-2	Class A	
Voltage fluctuations / Flicker IEC 61000-3-11	Fulfilled	The obligations listed in Sub-section 6.2.2 of EN 61000-3-11:2000 must be taken into consideration. In particular, the 0.14 ohm line impedance must be guaranteed for pulse massaging.



## 7.1.2 Table 202: Guidelines and manufacturer's declaration – Electromagnetic interference


The wellsystem MEDICAL massage device has been designed for use in the electromagnetic environment specified below. The device operator must ensure that it is used such an environment.

Interference immunity tests	IEC 60601 - Test level	Defined level	Electromagnetic environment – Guidelines
Discharging static electricity (ESD) IEC 61000-4-2	±8 kV contact discharge ±2 kV air discharge ±4 kV air discharge ±8 kV air discharge ±15 kV air discharge	±8 kV contact discharge ±2 kV air discharge ±4 kV air discharge ±8 kV air discharge ±15 kV air discharge	–
Fast transient electrical noise / bursts IEC 61000-4-4	±2 kV for mains supplies	±2 kV for mains supplies	–
Surges 61000-4-5	±1 kV series mode voltage ±2 kV common mode voltage	±1 kV series mode voltage ±2 kV common mode voltage	–
Magnetic field radiated by supply frequency (50/60 Hz) IEC 61000-4-8	30 A/m	30 A/m	–
Voltage drops, Short interruptions and supply voltage fluctuations IEC 61000-4-11	<5% $U_T$ (>95% drop in $U_T$ ) for 0.5 periods 40% $U_T$ (60% drop in $U_T$ ) for 5 periods 70% $U_T$ (30% drop in $U_T$ ) for 25 periods <5% $U_T$ (>95% drop in $U_T$ ) for 5 s	<5% $U_T$ (>95% drop in $U_T$ ) for 0.5 periods 40% $U_T$ (60% drop in $U_T$ ) for 5 periods 70% $U_T$ (30% drop in $U_T$ ) for 25 periods <5% $U_T$ (>95% drop in $U_T$ ) for 5 s	–

Note:  $U_T$  is the mains alternating voltage used for the test levels.

### 7.1.3 Table 204: Guidelines and manufacturer's declaration – Electromagnetic interference

The wellsystem MEDICAL massage device has been designed for use in the electromagnetic environment specified below. The device operator must ensure that it is used such an environment.

Interference immunity tests	IEC 60601 - Test level	Defined level	Electromagnetic environment – Guidelines
Conducted HF noise IEC 61000-4-6	3 V rms 150 kHz to 80 MHz outside the ISM band, 6 V RMS in the ISM and amateur radio bands <b>Modulation:</b> 80% AM at 1kHz	3 V rms 150 kHz to 80 MHz outside the ISM band, 6 V RMS in the ISM and amateur radio bands <b>Modulation:</b> 80% AM at 1kHz	Portable and mobile radios are not to be used at shorter distances to the wellsystem MEDICAL and its cables other than the recommended safe distance, which has been calculated according to the transmitting frequency are made.
Radiated HF noise IEC 61000-4-3	10 V/m 80 MHz to 2,7GHz <b>Modulation:</b> 80% AM at 1kHz 27 V/m 385 MHz <b>Modulation:</b> Pulse Modulation: 18 Hz 28 V/m 450 MHz <b>Modulation:</b> FM + 5 Hz deviation: 1 kHz sine 9 V/m 710, 745, 780 MHz <b>Modulation:</b> Pulse Modulation: 217 Hz 28 V/m 810, 870, 930 MHz <b>Modulation:</b> Pulse Modulation: 18 Hz 28 V/m 1720, 1845 MHz <b>Modulation:</b> Pulse Modulation: 217 Hz 28 V/m 1970, 2450 MHz <b>Modulation:</b> Pulse Modulation: 217 Hz 9 V/m 5240, 5500, 5785 MHz <b>Modulation:</b> Pulse Modulation: 217 Hz	10 V/m 80 MHz to 2,7GHz <b>Modulation:</b> 80% AM at 1kHz 27 V/m 385 MHz <b>Modulation:</b> Pulse Modulation: 18 Hz 28 V/m 450 MHz <b>Modulation:</b> FM + 5 Hz deviation: 1 kHz sine 9 V/m 710, 745, 780 MHz <b>Modulation:</b> Pulse Modulation: 217 Hz 28 V/m 810, 870, 930 MHz <b>Modulation:</b> Pulse Modulation: 18 Hz 28 V/m 1720, 1845 MHz <b>Modulation:</b> Pulse Modulation: 217 Hz 28 V/m 1970, 2450 MHz <b>Modulation:</b> Pulse Modulation: 217 Hz 9 V/m 5240, 5500, 5785 MHz <b>Modulation:</b> Pulse Modulation: 217 Hz	<b>Recommended safe distance:</b> $d = 1.2\sqrt{P}$ $d = 1.2\sqrt{P}$ 80 MHz to 800 MHz $d = 2.3\sqrt{P}$ 800 MHz to 2,7 GHz  P is the transmitter's maximum output power (nominal rating) in Watts (W) according to the details provided by the manufacturer of the transmitter and the recommended safe distance is given in metres (m).  The field strength of the stationary radio transmitter is for all frequencies <sup>b</sup> in accordance with tests that were carried out onsite <sup>a</sup> less than the determined level.  Interference is possible in the immediate surrounding of equipment that carry the following symbols. 

Comment 1: The higher value applies to 80 MHz und 800 MHz.

Comment 2: These guidelines might not apply to all situations. The propagation of electromagnetic waves is affected by absorption and reflexes caused by buildings, objects and people.

- a The field strength of a stationary transmitter e.g. standard cell phone stations (mobile / cordless phones) and public mobile radio services, amateur stations, MW and UHF radio and TV transmitters) cannot be precisely determined for theoretical reasons. It is recommended that an onsite test should be carried out in order to determine the electromagnetic environment caused by stationary HF transmitters. If the field strength of the massage device determined at the installation site exceeds the defined HF level listed above then the device must be monitored with regard to its normal operation. If any abnormal characteristics are recorded then it will be necessary to introduce additional measures, such as reorientation or converting the device.
- b The field strength must be less than 3 V/m over the frequency ranges from 150 kHz to 80 MHz.



**7.1.4 Table 206: Recommended safe distances between portable and mobile HF communications equipment and wellsystem MEDICAL**

wellsystem MEDICAL has been designed for use in an electromagnetic environment in which the radiated HF interference is controlled. The operator of the massage device can help to reduce electromagnetic interference by maintaining a safe distance between the portable and mobile HF communication devices (transmitters) and the device itself as recommended below with regard to the communication device's maximum output power.

Nominal transmitter power (W)	Safe distance with regard to the transmitting frequency (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

The recommended safe distance (d) in metres (m) can be determined by using the equation that applies to the transmitters frequency in the case of transmitters where their nominal power is not listed above, whereby 'P' is the nominal transmitter power in Watts (W) according to the details supplied by the manufacturer of the transmitter.

Comment 1: The higher value applies to 80 MHz und 800 MHz.

Comment 2: The propagation of electromagnetic waves is affected by absorption and reflexes caused by buildings, objects and people.

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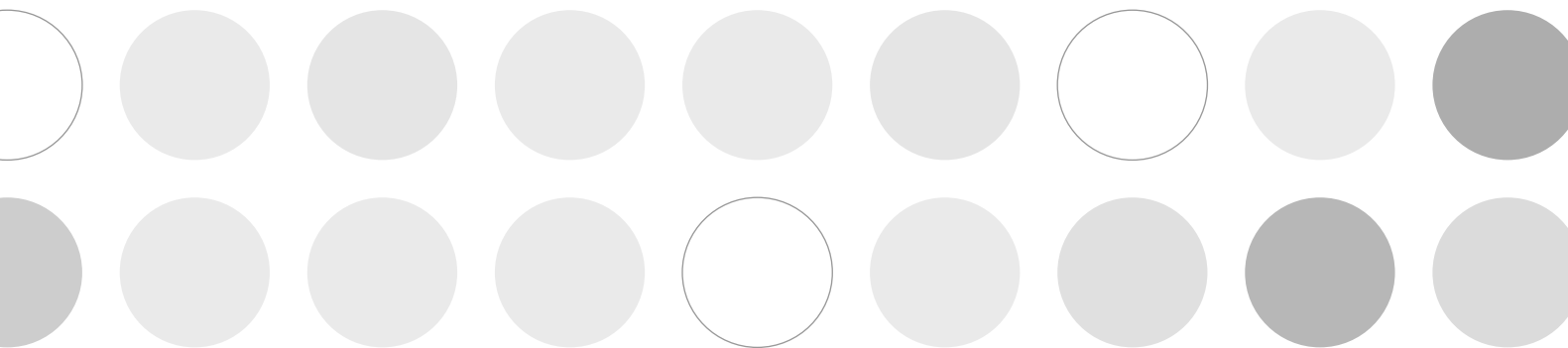
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