

# Instructions for Use

## English



# lymphamat<sup>®</sup>

## 300N

GRADIENT

12

12-step system for  
gradient intermittent compression therapy

*passion for compression*

[www.lymphamat.de](http://www.lymphamat.de)



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## Manufacturer

Bösl Medizintechnik GmbH,

Gut-Knapp-Straße 14, D-52080 Aachen, GERMANY

Phone: +49(0)2405 / 6 93 90 - 00

Fax: +49(0)2405 / 6 93 90 - 10

Email: [info@boesl-med.de](mailto:info@boesl-med.de)

Contact the manufacturer in the event of any questions or any inconsistencies with the system or the sleeves.

## General safety instructions

Please read the instructions for use before putting the system into service and observe the list of indications and contraindications. In the event of any uncertainties, ask your doctor or specialist dealer before starting the treatment.

The system complies with the applicable safety regulations including the EN 60601-1:2006/A1:2013, VDE0750:2013-12.



## Basic safety warnings

Electrical equipment can be dangerous if used improperly.

The housing of the equipment may only be opened by authorised qualified personnel.

Repairs may only be carried out by authorised specialist dealers or the manufacturer.

Under no circumstances should unauthorised persons open the product. For safety equipment reasons, neither the device nor the sleeves may be modified or changed by the user. Failure to observe these warnings will result in the guarantee becoming void.

Please refer to our customer service in the event of any malfunction in the device. The device must not be used in the presence of flammable gases such as anaesthetics.

The sleeves are bio-compatible but should only be used on healthy skin. Talk with your doctor before using in the case of all types of open wounds. Open wounds should be covered completely during use. If problems still arise however, contact your doctor immediately.

Any product with cables, tubes etc. poses a potential strangulation hazard source.

Tubes and cables within the patient's reach should always be kept and used out of the reach of small children and with appropriate caution.

Only use the sleeves on the extremities to be treated (arm, leg, hip, torso). Never pull the sleeves over the head..



## Safety Precautions

For your own safety and to protect the device, the following precautionary measures must be taken:

- Check regularly when using the product that the device is functioning correctly and that the sleeves are attached correctly.
- Keep the equipment away from pets and small children.
- Keep the equipment away from liquids and protect it from moisture. Do not expose the equipment or the sleeves to excessive amounts of dirt, dust, moisture nor to any open flames, cigarette ash etc. nor to any radiation (e.g. sunlight).
- The product consists of precision and electronic components. Protect the product and accessories from shocks, dirt and sources of electromagnetic interference. Do not drop the equipment.
- Before cleaning or inspecting the appliance, switch off the mains switch and disconnect the mains plug from the mains socket to disconnect it completely from the mains.
- Only use alcohol-based cleaning agents to clean the device.
- Never clean the device when it is damp, but dry.
- Make sure that the equipment is clean and dry before storing it.
- Never examine the equipment using sharp objects.
- Only use the sleeve combinations and matching extension inserts specified by BÖSL Medizintechnik (see also the chapter “Sleeves and additional accessories”). Proper functioning of the device can only be guaranteed if the correct devices and sleeve combinations are used.
- Use of this device immediately adjacent to other devices or stacked with other devices should be avoided as this could result in incorrect operation. If such use is necessary, this device and the other devices should be observed to ensure their proper functioning.
- The use of accessories other than those provided may result in increased electromagnetic emissions or reduced electromagnetic immunity of the device and may lead to incorrect operation.

## Intended Purpose

The control units from BÖSL Medizintechnik GmbH are active medical devices that are used alongside sleeves for intermittent pneumatic compression. Taking into account the medically coordinated treatment parameters, the control units are suitable for treating venous and lymphatic congestion problems in accordance with the following indications and while also taking the contraindications into account. The operational safety of the control units is only guaranteed when used as intended by an informed user. Users may be patients, doctors, nurses, physiotherapists and relatives, so the control units can be used both in professional health facilities and in a home setting. There are no restrictions with regard to the patient population. Children and people requiring assistance can be treated under expert instruction and supervision.

## Indications

- Thromboembolism prophylaxis
- Post-thrombotic syndrome
- Leg ulcers
- Venous oedema
- Post-traumatic oedema
- Lymphoedema
- Lipoedema
- Mixed forms of oedema
- Peripheral arterial occlusive diseases (with strict monitoring)
- Sensory disorders in cases of hemiplegia

## Contraindications

- Decompensated heart failure
- Extensive thrombophlebitis, thrombosis or suspected thrombosis
- Erysipelas
- Severe, uncontrolled hypertension
- Acute soft tissue trauma to the extremities
- Neuropathy
- Occlusive processes in the sector of lymphatic drainage
- Compartment syndrome
- Acute phlegmon

## Side effects

Although the sleeves have been tested as being bio-compatible in accordance with sections -1, -5 and -10 of DIN EN ISO 10993, in very rare cases

- skin irritations
- allergic reactions

may occur. In these cases, please contact your doctor.

In case of doubt, only use the sleeves over covered skin.

The operating noises of the system may be considered as a slight level of noise pollution.

After the application, marks may appear on the skin that will however disappear again without any further intervention.

## Reporting of incidents

If serious incidents (death, serious deterioration of health) occur in connection with the product described in these instructions for use, they must be reported by the user to the manufacturer and the competent authority.

In Germany, the competent authority is:

Federal Institute for Drugs and Medical Devices (BfArM)

Kurt-Georg-Kiesinger-Allee 3

53175 Bonn

Phone: +49 (0)228 99 307-0

[www.bfarm.de](http://www.bfarm.de) For information on the competent authority outside Germany, ask the authority in your respective country.

## Maintenance

Neither the device nor the sleeves require servicing. Neither the patient nor any other operator is to carry out any maintenance work themselves.

## Cleaning

Maintenance and cleaning should be carried out using a dry cloth (please do not have the equipment chemically dry-cleaned). Alcohol-based cleaning agents may be used.

## Disinfection

The treatment sleeves must be disinfected after use or before being used on a new patient. For this purpose, the wipe disinfection recommended by the Robert Koch Institute is used (see "List of disinfectants and disinfection methods tested and approved by the Robert Koch Institute").

You can find further information and instructions on our "Instructions for Cleaning and Disinfection" information sheet.

## Guarantee

The manufacturer grants a two-year guarantee for the device and its accessories, provided defects can be attributed to material and/or manufacturing defects. The manufacturer considers itself responsible for the impact on the safety, reliability and performance of the device only if: expansions, readjustments, changes or repairs are carried out by persons authorised by the same and the electrical installation of the room in which the device is used meets the VDE requirements and the device is used in conformity with the instructions for use. In the event of a malfunctioning of the device, please refer to the supplying company immediately. With proper use, the typical average service life of the devices and accessories is 10 years.



## ElektroG: Electrical and Electronic Equipment Act

Correct disposal of old appliances (electrical waste)

(In countries of the European Union and other European countries with a separate collection system)

The marking on the product, accessories or associated documentation indicates that the product and accessories must not be disposed of with other household waste at the end of their working life. Please dispose of this device and its accessory parts separately from other miscellaneous waste, to prevent damage to the environment or to human health from unregulated waste disposal. Potentially contaminated sleeves should be disposed of in the normal household waste with an appropriate notice and after consultation with the manufacturer. Help to dispose of used appliances and accessory parts properly in order to promote the sustainable recycling of material resources.

Private users should refer to the dealer from which the product was purchased or contact the relevant authorities to find out where they can deliver the used appliance or accessory parts for environmentally friendly disposal. Industry users should refer to their suppliers and proceed in accordance with the conditions of the purchase agreement. This product and electronic accessory parts may not be disposed of together with other industrial waste.

The product is disposed of as electrical waste and must not be placed in normal household waste.

Take the product to the collection points of the public waste management authorities or send the product for disposal:

**Central Disposal Point GDW-Sindelfingen**

**Waldenbucher Str. 30, 71065 Sindelfingen, GERMANY**



## Key to symbols



Note



Disposal



**CAUTION!**

This symbol indicates dangers that may lead to health hazards, injuries, permanent physical injury or to death. It is imperative that you strictly adhere to the specified instructions for work safety and act with particular caution in these cases.



Protect from moisture



Manufacturer



Protection class II

**2020**

Year of manufacture



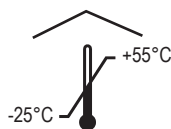
Observe the instructions for use. The instructions for use must have been fully read and understood to ensure the safe operation of the appliance, because incorrect usage may pose an unacceptable risk.



Equipment classification  
Type BF

**LOT**

Lot number



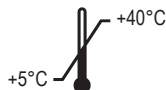
Ambient temperature for transport and storage. Transport and storage outside the specified temperature ranges can damage the device and thus endanger the patient, user or third parties.

**SN**

Serial number

**IP 32**

Protected against solid foreign bodies with diameter  $\geq 12.5$  mm and protection against dripping water



Ambient temperature for use, operation outside the specified temperature ranges may cause damage to the device and thus endanger the patient, user or third parties.

**CE 0197**

CE marking with identification number of the notified body

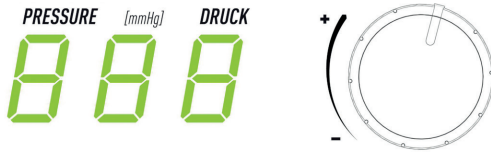


Alternating current

## Key to symbols

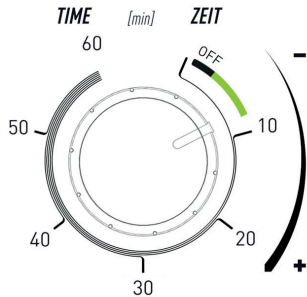
### PRESSURE / DRUCK

Pressure setting on the rotary knob  
and pressure display 20 – 100 mmHg



### POWER ON / AN

On/off switch and setting of the  
treatment time between 10 – 60 min



## Technical data

The **lympa-mat<sup>®</sup>300N** is intended for use in a domestic environment directly connected to a public supply network.

Use of the device abroad: For proper operation of the device and its connection to the power supply network, please use a country-specific mains plug adapter (not included in the scope of delivery) that corresponds to the specifications of the device.

Pressure settings without intervals  
20 – 100 mmHg  
(accuracy approx. 15%)

Interval/pulse set fixed at  
15 seconds

Rated voltage  
lympa-mat 300N Gradient  
(Article No. 1211)  
rated voltage ~230V

lympa-mat 300N Gradient 110V  
(Article No. 1212)  
Rated voltage ~110V

Rated frequency 50/60 Hz  
Rated current 0,45 A

With a daily usage time of 1 hour, this results in a total consumption of approx. 20 kWh per year at the highest possible pressure level.

Dimensions:  
W - 34 cm, H - 14 cm, D - 36 cm

Weight: 5,6 kg

Device classification:

Application part type BF -  
Treatment sleeves



Protection class:

Protection class II



### Ambient conditions for transportation and storage:

The environmental conditions for transport and storage are -25 °C to +55 °C at Humidity: 15% - 93% RH.

### Ambient conditions for usage:

The ambient conditions for use are +5 °C to +40 °C, Humidity: 15 % to 93 % RH  
Air pressure: 700 to 1060 hPa

## Electromagnetic compatibility (EMC)

**lympa-mat<sup>®</sup>300N** fulfils the EMC requirements for medical devices according to EN 60601-1-2. The requirements with regard to circuit feedback for electrical medical appliances according to EN 61000-3-2 and EN 61000-3-3 are also met.

If electromagnetic interference influences the performance of the **lympa-mat<sup>®</sup>300N**, the success of the therapy may be reduced.

The <b>lympa-mat<sup>®</sup>300N</b> device is intended for operation in an electromagnetic environment as specified below. The customer or the user of the <b>lympa-mat<sup>®</sup>300N</b> should ensure that the device is operated in such an environment.																																										
<b>Guidelines and manufacturing formula - electromagnetic interference emissions</b>																																										
<b>Interference emission measurements</b>		<b>Compliance</b>																																								
HF emissions as per CISPR 11		Group 1																																								
HF emissions as per CISPR 11		Class B																																								
Harmonic emissions as per IEC 61000-3-2		Class A																																								
Voltage fluctuations / flicker emissions as per IEC 61000-3-3		complies																																								
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<b>Electromagnetic immunity tests</b>		<b>Compliance level</b>																																								
Electrostatic discharge (ESD) as per IEC 61000-4-2		+/- 8 kV Contact discharge +/- 15 kV Air discharge																																								
Electrical fast transient disturbances / bursts as per IEC 61000-4-4		+/- 2 kV at 100 kHz for power cables																																								
Surge voltages as per IEC 61000-4-5		+/- 0.5 kV, +/- 1 kV voltage outer conductor-outer conductor +/- 0.5 kV, +/- 1 kV, +/- 2 kV voltage outer conductor-earth																																								
Voltage dips, short-time interruptions and fluctuations of the supply voltage according to IEC 61000-4-11		Voltage dips: 0% U <sub>T</sub> , 1/2 period at 0 to 315 degrees 0% U <sub>T</sub> , 1 period and 70% U <sub>T</sub> , 25/30 periods single phase voltage dips: 0% U <sub>T</sub> , 250/300 periods																																								
Magnetic field at supply frequency (50/60 Hz) as per IEC 61000-4-8		30 A/m																																								
<b>Electromagnetic immunity tests</b>		<b>IEC 60601 test level</b>	<b>Compliance level</b>																																							
Conducted HF disturbances as per IEC 61000-4-6		3 V at 0.15 MHz to 80 MHz, 6 V in ISM and amateur radio bands between 0.15 MHz to 80 MHz, 80% AM at 1 KHz	6 V <sub>effective</sub> value over the entire frequency range																																							
Radiated HF disturbances as per IEC 61000-4-3		10 V/m; 80 MHz to 2.7 GHz; 80% (compliance level also 10V)	10 V/m; 80 MHz to 2.7 GHz; 80% (compliance level also 10V)																																							
Above the frequency range of 150 kHz to 80 MHz, the field strength should be less than 3 V/m																																										
The tested RF frequencies correspond to the following radio frequencies:																																										
<table border="1"> <thead> <tr> <th>Test frequency</th> <th>Frequency band (MHz)</th> <th>Service</th> <th>Interference immunity testing level (V/m)</th> </tr> </thead> <tbody> <tr> <td>385</td> <td>380 to 390</td> <td>TETRA 400</td> <td>27</td> </tr> <tr> <td>450</td> <td>430 to 470</td> <td>GMRS 460, FRS 460</td> <td>28</td> </tr> <tr> <td>710</td> <td rowspan="4">704 to 787</td> <td rowspan="4">LTE Band 13, 17</td> <td rowspan="4">9</td> </tr> <tr> <td>745</td> </tr> <tr> <td>780</td> </tr> <tr> <td>810</td> </tr> <tr> <td>870</td> <td>800 to 960</td> <td>GSM 800/900, TETRA 800, iDEN 820, CDMA 850, LTE Band 5</td> <td>28</td> </tr> <tr> <td>930</td> <td rowspan="4">1700 to 1990</td> <td rowspan="4">GSM 1800; CDMA 1900; GSM 1900; DECT; LTE Band 1, 3, 4, 25; UMTS</td> <td rowspan="4">28</td> </tr> <tr> <td>1845</td> </tr> <tr> <td>1970</td> </tr> <tr> <td>2450</td> </tr> <tr> <td>5240</td> <td>2400 to 2570</td> <td>Bluetooth, WLAN 802.11 b/g/n, RFID 2450, LTE Band 7</td> <td>28</td> </tr> <tr> <td>5500</td> <td rowspan="2">5100 to 5800</td> <td rowspan="2">WLAN 802.11 a/n</td> <td rowspan="2">9</td> </tr> <tr> <td>5785</td> </tr> </tbody> </table>				Test frequency	Frequency band (MHz)	Service	Interference immunity testing level (V/m)	385	380 to 390	TETRA 400	27	450	430 to 470	GMRS 460, FRS 460	28	710	704 to 787	LTE Band 13, 17	9	745	780	810	870	800 to 960	GSM 800/900, TETRA 800, iDEN 820, CDMA 850, LTE Band 5	28	930	1700 to 1990	GSM 1800; CDMA 1900; GSM 1900; DECT; LTE Band 1, 3, 4, 25; UMTS	28	1845	1970	2450	5240	2400 to 2570	Bluetooth, WLAN 802.11 b/g/n, RFID 2450, LTE Band 7	28	5500	5100 to 5800	WLAN 802.11 a/n	9	5785
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The customer or user of the **lympa-mat<sup>®</sup>300N** can help prevent electromagnetic interference to minimise damage. Portable high-frequency communication devices including their accessories should therefore not be used at a distance of less than 30 cm from the parts and lines of the **lympa-mat<sup>®</sup>300N**. Non-observance of this may result in a decrease of performance.

## Troubleshooting

### **Fault**

#### **No function:**

Is the device connected to the mains voltage?

-> Plug in mains cable

Is the device switched on?

-> Switch on device

### **Fault**

#### **Sleeves are not filled or vented:**

Are all tubes connected to the device?

-> Connect tubes

Are all connections not in use sealed with a dummy plug?

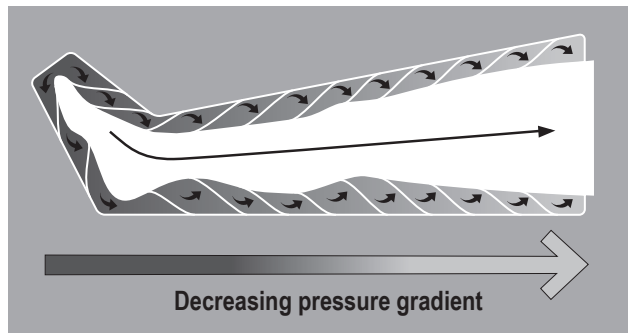
-> Insert dummy plug

#### **Pressure display fluctuates:**

No interference. Unit always shows the current pressure in the sleeve

## Mode of action of the lympha-mat<sup>®</sup>300N

The **lympa-mat<sup>®</sup>300N** gradient system is used for the therapy of venous and lymphatic congestion problems. The characteristic function of the lympha-mat<sup>®</sup>300N is intermittent pressure build-up. The sleeves apply intermittent gradient pressure to the extremities (arm, leg, hip, torso). The 12/24 chambers of the sleeves fill with air one after the other, starting at the foot or hand. As a result, the pressure built up in the process then drops through varying pressure ranges from the first to the last chamber. This gradient treatment pressure generates a physiologically effective pressure gradient, whereby the fluid mobilised by the pressure built up in the overlapping chambers can disperse unhindered and without return flow.



The air chambers remain filled with air until the topmost chamber has reached the relevant pressure. Then the pressure escapes from all the air chambers simultaneously and starts the pumping up cycle again after a break period. The intermittent compression acts on the individual tissue layers and the blood and lymphatic vessels in these. The tissue is decongested, the venous and lymphatic reflux is promoted sustainably, and the metabolism and the gas exchange is improved.

## Treatment recommendations

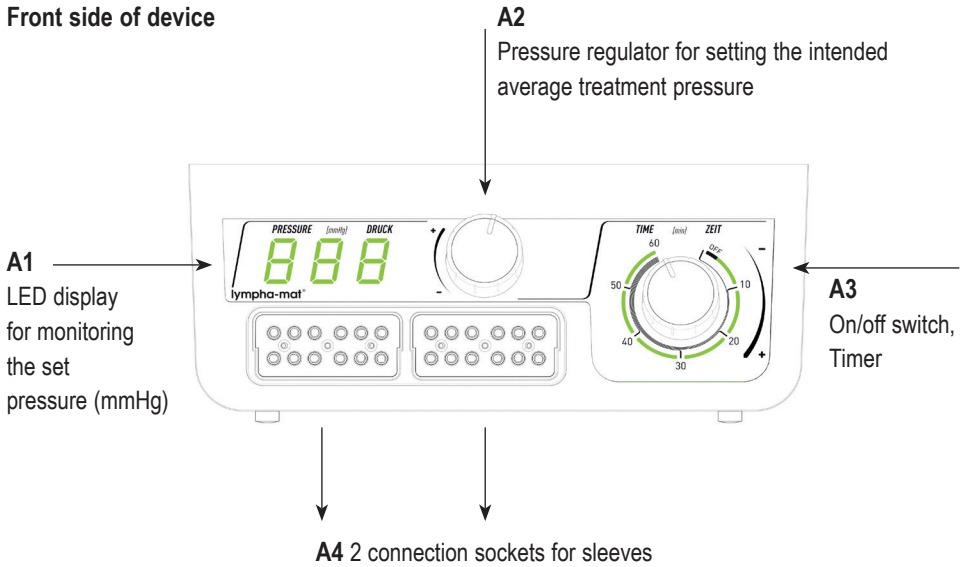
The patient should be lying comfortably and relaxed during the treatment. The legs or arms subject to treatment can be elevated slightly to support the treatment. At the start of the treatment, a low sleeve pressure should be selected and this can be increased if so required. The pressure should never be set at a level that causes the patient to feel discomfort or pain. The treatment should be relaxing and pleasant.

## Technical information for set-up

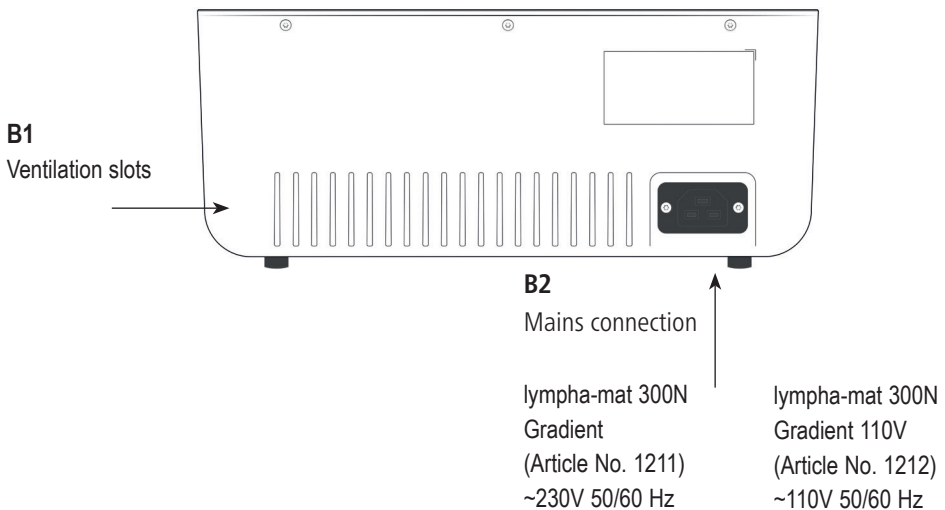
- The product is ready for operation as soon as it is removed from the packaging
- Check the device visually for any external damage
- Do not set up the device if there is any visible damage
- Place the product on a level and solid surface, e.g. table
- Insert the mains cable into the mains connector (**B2**) and connect to the socket (voltage supply)
- Connect the product to a voltage supply in line with the specifications
- Position the device so that the mains cable can be unplugged by the patient or operator in an emergency during treatment
- Do not cover the ventilation slots (**B1**) on the device with cloths, blankets or similar. Do not stack devices. Do not use the appliance as a storage surface.
- Remove the dummy connector from the connection to be used (**A4**) and connect the sleeve
- Connect the sleeves to the device (**A4**)
- All functions of the device can be used safely by the patient.
- Turn the timer (**A3**) clockwise and set it to the desired treatment time. All displays are now illuminated. After the set treatment time has elapsed, the device automatically stops the treatment
- Set the desired average treatment pressure on the pressure regulator (**A2**) and check it on the pressure display.
- After the end of the treatment, turn the pressure regulator (**A2**) back to
- "minimum" (anticlockwise)
- To end the clock timer (**A3**) prematurely, turn it in the "OFF" direction (anticlockwise)
- After treatment, remove the tube plug from the device to deflate the sleeve better

## Design of the lympha-mat® 300N

### Front side of device



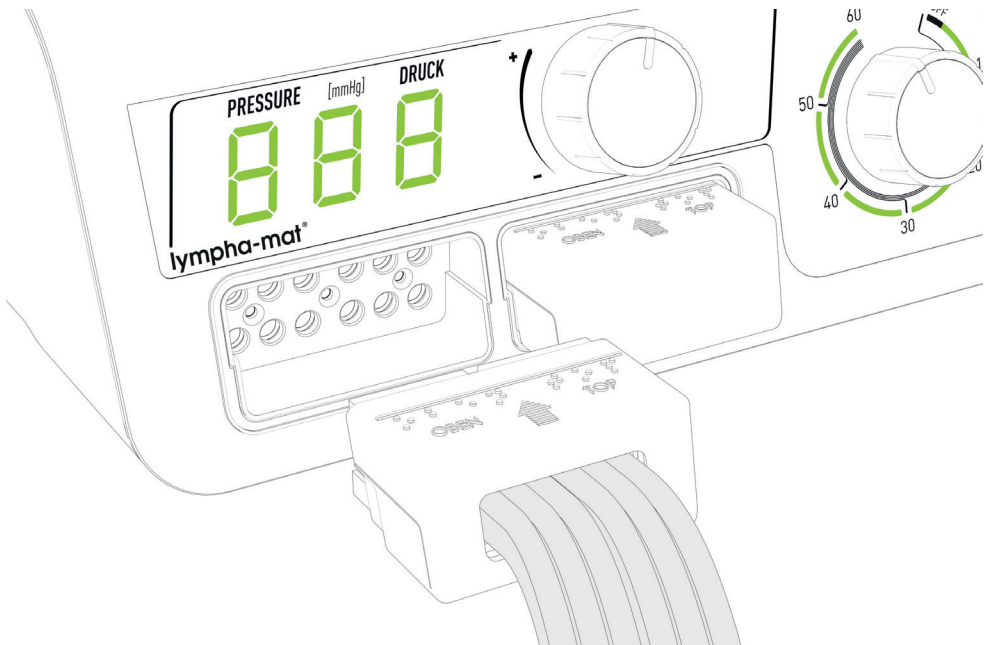
### Rear side of device





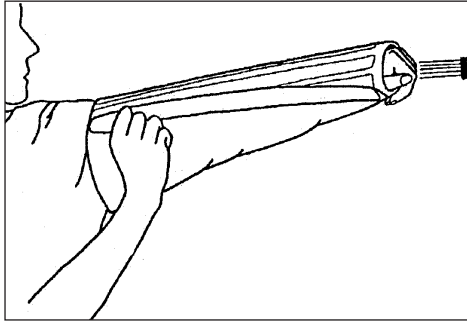
## Connecting the sleeves

- Two sleeves can be connected to the device (**A4**) at the same time.
- Insert the tube plug of the sleeves into the connection socket (**A4**).
- The air tubes for the sleeves must not be bent in order to ensure the proper filling of the individual air chambers.
- During the treatment period, the connection (**A4**) that is not needed must be closed with the dummy plug supplied.



**A4** 2 connection sockets for sleeves

## Putting on the sleeves



### Arm sleeve

Put the sleeve on comfortably and smoothly. Use up as much of the holding surface of the Velcro as possible to avoid the sleeve opening during the treatment. The covering channel with the tubes must be on the side turned away from the body.

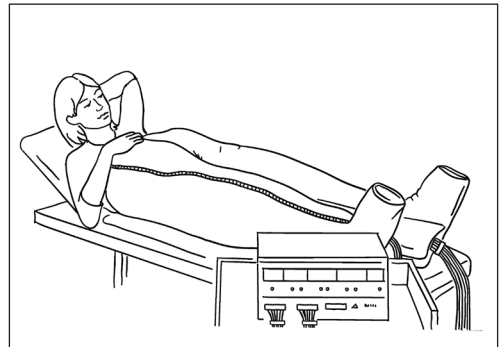
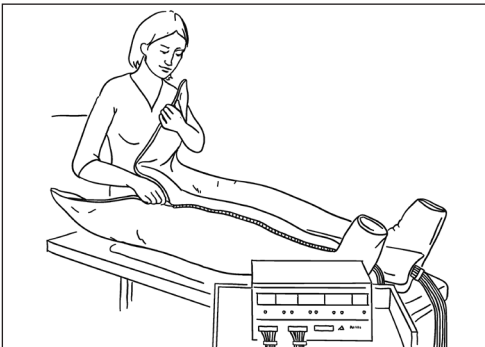
### Leg sleeve

Put on the sleeve and close the zip fastening fully. The Velcro catch also helps to prevent the zip fastening from opening. The zipper must not become opened under pressure.



## Compression trousers

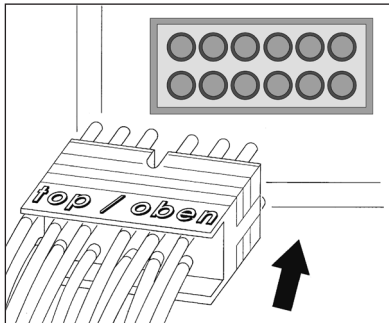
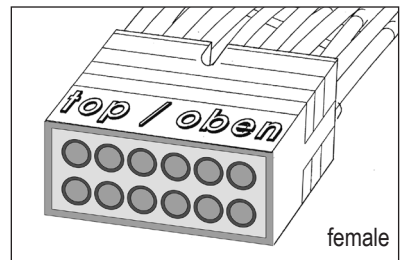
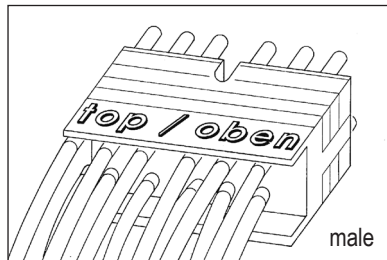
Close the zipper completely.



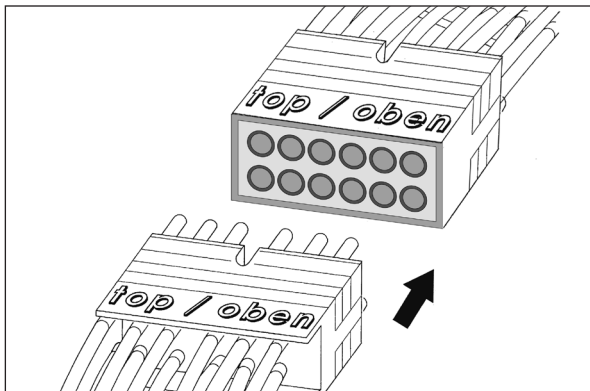
## Connecting the tube extensions of the lymphamat<sup>®</sup>

A tube extension, which can be attached between the control unit and sleeve, is available for all sleeves of the type lymphamat. This extends the entire connection between the control unit and the sleeve by 2 m.

The tube extension has a "male" connector and a "female" connector.



The "male connector" is plugged into the connection sockets of the control unit. Please pay attention to the top and bottom markings on the tube connector.



The "female" plug is connected to the tube end of the sleeve. Please pay attention to the top and bottom markings on both tube connectors and plug the connectors together so that "top" matches "top" and "bottom" matches "bottom".

## Connecting the extension

### Extension

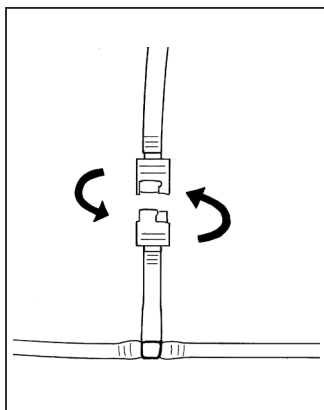
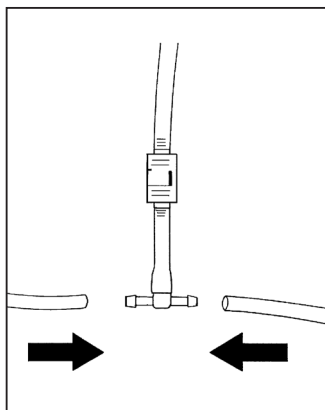
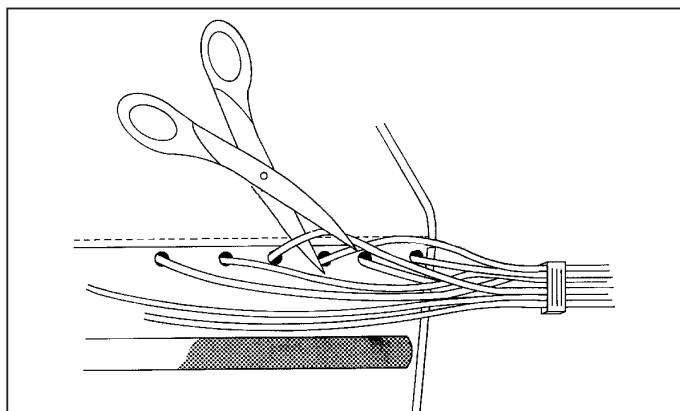
The extension increases the circumference of the leg sleeve/compression trousers by 13 cm. The zip fastenings at the sides fasten the sleeve.

### Assembly note

The extension is mounted as follows:

When opening the side cover on the sleeve, the tube connections are visible.

**Cut the tube of air chamber 4 at the marked point (black line) and connect the connecting piece of the extension.**



When removing the extension loosen this at the tube coupling.

## Sleeves and additional accessories

### Leg sleeve

with 12 air chambers

#### Size M

Thigh circumference up to 75 cm

Length 85 cm

**Art. No. 1220**

#### Size M - short

Thigh circumference up to 75 cm

Length 72 cm

**Art. No. 1221**

#### Size L

Thigh circumferences of up to 88 cm

Length 85 cm

**Art. No. 1230**

#### Size L - Short

Thigh circumferences of up to 88 cm

Length 72 cm

**Art. No. 1231**

### Extension leg sleeve

with one air chamber

Circumferential extension 13 cm

**Art. No. 1240**

### Extension leg sleeve Short

with one air chamber

Circumferential extension 13 cm

**Art. No. 1241**

### Arm sleeve

with 12 air chambers

Upper arm circumference

adjustable up to 58 cm

Length 71 cm

**Art. No. 1250**

### Jacket

with 24 air chambers

Abdominal girth up to 134 cm,

upper arm circumference up to 55 cm

**Art. No. 1180**

### Jacket

left with Bolero

with 12 air chambers

stomach size up to 134 cm,

upper arm size up to 55 cm

**Art. No. 1181**

### Jacket

right with Bolero

with 12 air chambers

stomach size up to 134 cm,

upper arm size up to 55 cm

**Art. No. 1182**

### Extension Jacket

Back

Circumferential extension 13 cm

**Art. No. 1185**

### Extension Jacket

Arm

Circumferential extension 10 cm

**Art. No. 1190**

### Extension Jacket

Front

Circumferential extension 13 cm

**Art. No. 1195**

### Compression pants

with 24 air chambers

Hip circumference up to 145 cm

Thigh circumferences of up to 83 cm

**Art. No. 1260**

### Compression pants size S

with 24 air chambers

Hip circumference up to 131 cm

Thigh circumference up to 75 cm

**Art. No. 1261**

### Extension

#### for compression pants

with additional air chamber

Circumferential extension 13 cm

**Art. No. 1265**

### Extension compression pants size S

with additional air chamber

Circumferential extension 13 cm

**Art. No. 1266**

### Belt for compression pants and jacket

To intensify pressure

in the abdominal area

**Art. No. 1280**

### Tube extension

for all 12-chamber sleeves

Length 2 m

**Art. No. 1290**

The sleeves are made out of easy-clean nylon/polyurethane fabric.

Please only use the supply lines approved by the manufacturers.

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Notes

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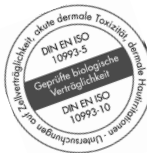
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**Made in Germany**

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