

Instructions for Use

English



lympho-mat[®]
300 GRADIENT

12

12-level gradient system for
intermittent pneumatic compression therapy

passion for compression

www.lymphamat.de



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Manufacturer

BÖSL Medizintechnik GmbH
Gut-Knapp-Straße 14, 52080 Aachen, GERMANY
Phone +49(0)2405 / 6 93 90 – 00
Fax +49(0)2405 / 6 93 90 – 10
Email: info@boesl-med.de

If you have any questions or problems with the device or the sleeves, please contact the manufacturer. Visit our website: www.boesl-med.de.
You will find the latest version of these instructions for use in the download area.

General safety regulations

Please read the instructions for use before putting the device into operation and observe the list of indications and contraindications. If anything is unclear, ask your doctor or specialist retailer before commencing therapy.
The system meets the relevant safety regulations including EN 60601-1:2006/A1:2013, VDE0750:2013-12.



General safety warnings

Electrical devices can be dangerous if used incorrectly.

The device housing may be opened by authorized experts only. Repairs may only be carried out by authorized specialist retailers or the manufacturer. Under no circumstances may unauthorized persons open the device. For safety reasons, the device and the sleeves must not be modified or altered by the user. Failure to heed these warnings will void the warranty. In case of device malfunction, please contact Customer Service. This also applies to the fuses of the power socket on the rear device panel. These may be replaced only by authorized experts and never by the patient or the operator. The device must not be used in the presence of flammable gases such as anesthetic agents. The sleeves are biocompatible but should be used only on healthy skin. If you have open wounds of any kind, speak to your doctor before using the device. Open wounds must be covered completely during use. Should you nevertheless experience problems, contact your doctor immediately. Any product equipped with cables, hoses, etc. poses a potential strangulation hazard. Hoses and cables that are accessible to the patient should always be stored and used with caution and out of the reach of small children.

Use the sleeves only on the extremities to be treated (arm, leg, hips, upper body).
Never pull the sleeves over the head.



Safety precautions

For your own safety and to protect the device, the following precautions must be observed:

- During use, check the device regularly to ensure that it is operating properly and that the sleeves have been applied correctly.
- Keep the device out of the reach of pets and small children.
- Keep the device away from liquids and protect it from moisture. Do not expose the device and the sleeves to excessive soiling, dust, moisture, open flames, cigarette ash, etc. and irradiation (e.g., sunlight).
- The device consists of precision and electronic components. Protect the device and the accessories from impact, dirt, and electromagnetic interferences. Do not drop the device.
- Turn off the power switch before cleaning or inspecting the device and remove the power plug from the socket in order to disconnect it completely from the mains.
- Use only commercial cleaning agents to clean the device.
- Clean the device only with a dry cloth, never with a damp cloth.
- Make sure the device is clean and dry before placing it into storage.
- Never inspect the device using sharp objects.
- Use only the sleeve combinations and the appropriate extensions specified by BÖSL Medizintechnik (see also section "The sleeves and further accessories"). Proper device function can only be guaranteed if the correct devices and sleeve combinations are used.
- Use of this device in the immediate vicinity of other devices or stacked with other devices should be avoided, as this could result in faulty operation. If this form of use is necessary, both this device as well as the other devices should be monitored to ensure proper function.
- The use of accessories other than those provided can result in increased electromagnetic emissions or decreased electromagnetic immunity of the device and can lead to faulty operation.

Intended purpose

The control units from BÖSL Medizintechnik GmbH are active medical devices that are used in conjunction with sleeves for intermittent pneumatic compression. Taking into consideration the treatment parameters specified by the doctor, the control units are suitable for the treatment of disorders related to venous and lymphatic obstruction according to the following indications, taking into account the contraindications. The operational safety of the control units is guaranteed only when used as intended by an informed user. The user groups include patients, doctors, nurses, physical therapists, and relatives, which means that the control units can be used in professional health care facilities as well as in the home environment. There are no restrictions regarding the patient population. Children and people in need of assistance can be treated under professional guidance and supervision.

Indications

- Prophylaxis of thromboembolism
- Post-thrombotic syndrome
- Crural ulcer
- Venous edema
- Post-traumatic edema
- Lymphedema
- Lipedema
- Mixed forms of edema
- Peripheral arterial occlusive disease (with close monitoring)
- Sensory deficits in hemiplegia

Contraindications

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

Undesirable effects

While the sleeves have been shown to be biocompatible under Parts 1, 5 and 10 of DIN EN ISO 10993, in very rare cases

- skin irritation
- allergic reactions

can occur. In these cases, please talk to your doctor. If in doubt, use the sleeves only on top of clothing.

The noises emitted by the system during operation may be perceived as minor noise pollution.

After use, marks may appear on the skin, which will however disappear by themselves.

Reporting of incidents

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

The competent authority in Germany 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

For information on the competent body outside of Germany, please contact the authorities in your respective country.

Maintenance

The device and sleeves are maintenance-free. Neither the patient nor any other operator is required to perform any maintenance work.

Cleaning

Device care and cleaning should be done only with a dry cloth (please do not subject the device to chemical dry-cleaning). Commercial cleaning agents may be used.

Disinfection

Disinfection of the treatment sleeves must be carried out after use and/or before each patient change. In this regard, please perform wipe disinfection as recommended by the German Robert Koch Institute (see "Liste der vom Robert Koch-Institut geprüften und anerkannten Desinfektionsmittel und -verfahren"). For more information and instructions, please refer to our leaflet "Cleaning and disinfection instructions".

Warranty

The manufacturer offers a two-year warranty for the device and accessories, provided defects are due to material and/or manufacturing errors. The manufacturer considers itself responsible for effects on the safety, reliability, and performance of the device only if: extensions, new settings, modifications or repairs are carried out by persons authorized by the manufacturer, the electrical installation of the respective room in which the device is used meets the requirements of the VDE (Association of German Electricians), and the device is used in accordance with the instructions for use.

In case of device malfunction, please contact the supplier directly. When used properly, the typical, average useful life of the device and the accessories is 10 years.



ElektroG (German Electrical and Electronic Equipment Act)

Correct disposal of waste equipment (electronic waste)

(With separate collection systems in the countries of the European Union and in other European countries)

The marking on the device, on accessories and/or on the respective documentation states that the device and its accessories must not be disposed of with regular household waste after the end of their service life. Please dispose of this device and its accessories separately from other waste in order not to jeopardize the environment or human health through uncontrolled waste disposal. Potentially contaminated sleeves are to be disposed of in regular household waste with a corresponding note and after consultation with the manufacturer. Please help us dispose of waste equipment and accessories correctly in order to promote the sustainable recycling of material resources.

Private users should contact the retailer from whom they purchased the device, or the competent authority for information as to where they can return the waste equipment and/or the accessories to ensure environmentally friendly disposal. Commercial users should contact their supplier and proceed according to the conditions of the purchase agreement. This device and electronic accessories must not be disposed of with other industrial waste.

The device is disposed of as electronic waste and must not be thrown away in regular household waste. Return the device to the collection points of the public waste disposal authorities.

Symbols



Information



Disposal/WEEE



CAUTION!

This symbol indicates hazards that can lead to health impairments, injuries, permanent bodily injury or death. Follow the occupational safety instructions closely and take particular caution in these cases.



Keep away from rain



Manufacturer



Class II equipment

2020

Year of manufacture



Refer to instruction manual.
To ensure safe device operation it is necessary that the instructions for use are read and understood completely, as improper use can pose an unacceptable risk.



Device classification
Type BF applied part

LOT

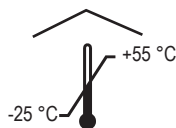
Batch code

SN

Serial number

IP21

Protected against solid objects with a diameter ≥ 12.5 mm and against vertically falling drops of water



Ambient temperature for transport and storage.
Transport and storage outside the specified temperature ranges can lead to damage of the device and thus to a hazard for the patient, user, or third persons.

CE 0197

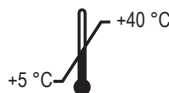
CE marking with identification number of the Notified Body



Fuse



Alternating current



Ambient temperature for use.
Device operation outside the specified temperature ranges can lead to damage of the device and thus to a hazard for the patient, user, or third persons.

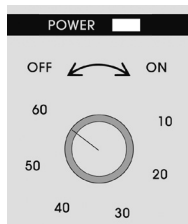
Symbols



Pressure setting/pressure indicator
20–100 mmHg



Timer 10–60 min



On/Off switch

Technical data

The **lympa-mat[®]300** is designed for use in a home environment with a direct connection to a public supply network.

To ensure correct operation of the device and its connection to the power supply grid, please use a country-specific mains adapter, where necessary, corresponding to the device specifications (not included in the scope of delivery).

Continuous pressure setting
20–100 mmHg
(accuracy approx. 15 %)

Device classification:
Type BF applied part –
treatment sleeves



Interval/pause
set to 15 sec.

Protection class:
Class II equipment



Nominal voltage ~ 230V
Nominal frequency 50/60 Hz
Nominal current 0.45 A

Environmental conditions for transport and storage:

The environmental conditions for transport and storage are -25 °C to +55 °C with humidity: 15 % to 93 % rH.

Dimensions: W – 26 cm, H – 16 cm,
D – 25 cm

Environmental conditions for use:

The environmental conditions for use are +5 °C to +40 °C, humidity: 15 % to 93 % rH atmospheric pressure: 700 to 1060 hPa

Weight: 4.6 kg

Electromagnetic compatibility (EMC)

lympa-mat[®]300 meets the EMC requirements for medical devices set forth in EN 60601-1-2. In addition, it meets the limits for mains voltage distortion for medical electrical devices pursuant to EN 61000-3-2 and EN 61000-3-3.

If electromagnetic interferences compromise the performance of the **lympa-mat®300**, the therapeutic effect may be reduced.

The lymph-a-mat®300 device is designed for use in an electromagnetic environment as indicated below. Customers or users of the lymph-a-mat®300 should ensure that the device is operated in a corresponding environment.																																								
Guidelines and manufacturer's declaration — Electromagnetic emissions																																								
Emission measurements		Conformity																																						
RF emissions according to CISPR 11		Group 1																																						
RF emissions according to CISPR 11		Class B																																						
Harmonic current emissions according to IEC 61000-3-2		Class A																																						
Emissions of voltage fluctuations/flicker according to IEC 61000-3-3		Conforms																																						
The lymph-a-mat®300 device is designed for use in a home environment with a direct connection to a public supply network.																																								
Interference testing		Compliance level																																						
Electrostatic discharge (ESD) according to IEC 61000-4-2	+/- 6 kV contact discharge +/- 15 kV air discharge	+/- 6 kV contact discharge +/- 15 kV air discharge																																						
Electrical fast transients/bursts according to IEC 61000-4-4	+/- 2 kV at 100 kHz for power supply lines	+/- 2 kV at 100 kHz for power supply lines																																						
Impulse voltages/surges according to IEC 61000-4-5	+/- 0.5 kV, +/- 1 kV voltage line to line +/- 0.5 kV, +/- 1 kV, +/- 2 kV voltage line to earth	+/- 0.5 kV, +/- 1 kV voltage line to line +/- 0.5 kV, +/- 1 kV, +/- 2 kV voltage line to earth																																						
Voltage dips, short interruptions and voltage fluctuations according to IEC 61000-4-11	Voltage dips: 0 % U _T , 1/2 cycle at 0 to 315 degrees 0 % U _T , 1 cycle and 70 % U _T , 25/30 cycles single phase Voltage interruptions: 0 %U _T , 250/300 cycles	Voltage dips: 0 % U _T , 1/2 cycle at 0 to 315 degrees 0 % U _T , 1 cycle and 70 % U _T , 25/30 cycles single phase Voltage interruptions: 0 %U _T , 250/300 cycles																																						
Magnetic field at power frequency (50/60 Hz) according to IEC 61000-4-8	30 A/m	30 A/m																																						
Interference testing	IEC 60601 test level	Compliance level																																						
Conducted RF disturbances according to 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 _{effective value} across entire frequency range																																						
Radiated RF disturbances according to 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)																																						
The field strength should be less than 3 V/m across the frequency range of 150 kHz to 80 MHz																																								
The tested RF frequencies correspond to the following radio services:																																								
<table><tr><th>Test frequency</th><th>Frequency band (MHz)</th><th>Service</th><th>Immunity test level (V/m)</th></tr><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 rowspan="4">800 to 960</td><td rowspan="4">GSM 800/900, TETRA 800, iDEN 820, CDMA 850, LTE band 5</td><td rowspan="4">28</td></tr><tr><td>930</td></tr><tr><td>1720</td></tr><tr><td>1845</td></tr><tr><td>1970</td><td rowspan="2">1700 to 1990</td><td rowspan="2">GSM 1800; CDMA 1900;GSM 1900; DECT; LTE band 1, 3, 4, 25; UMTS</td><td rowspan="2">28</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></table>	Test frequency	Frequency band (MHz)	Service	Immunity test 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	1720	1845	1970	1700 to 1990	GSM 1800; CDMA 1900;GSM 1900; DECT; LTE band 1, 3, 4, 25; UMTS	28	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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Customers or users of the **lympa-mat®300** can help prevent electromagnetic interferences in order to minimize damages. To this end, portable high-frequency radio devices, including their accessories, should not be used within a distance of 30 cm to the parts and cables of the **lympa-mat®300**. Failure to follow these instructions can lead to a reduction in performance.

Troubleshooting

Fault

No function:

Is the device connected to the power supply?

-> Connect power cord

Is the device switched on?

-> Switch on device

Fault

Sleeves are not filled or vented:

Are all hoses connected to the device?

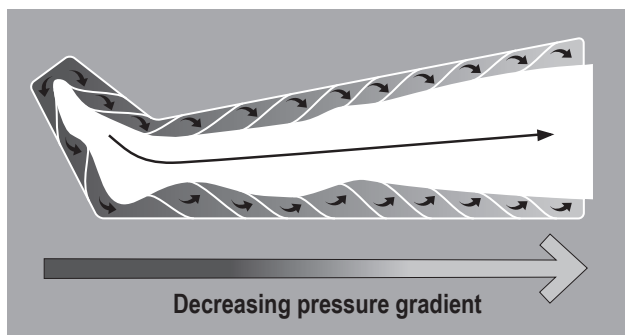
-> Connect hoses

Are unused connections closed with a dummy connector?

-> Connect dummy connector

Mode of action of the lympa-mat®300 device

The **lympa-mat®300** gradient system is designed for the treatment of disorders related to venous and lymphatic obstruction. The characteristic function of the **lympa-mat®300** is the intermittent build-up of pressure. The sleeves exert intermittent gradient pressure on the extremities (arms, legs, hips, upper body). The 12/24 chambers of the sleeves are filled with air one by one, starting from the foot or the hand. The pressure that is built up in the process decreases over various pressure ranges from the first to the last chamber. This gradient treatment pressure exerts a physiologically efficient drop in pressure. The liquid that is mobilized by means of the pressure inside the overlapping chambers can flow out unhindered and without returning.



The air chambers remain filled with air until the top chamber has reached a specified pressure level. The pressure then escapes simultaneously from all air chambers before the process of inflation is restarted after a set interval. The intermittent compression acts on the individual layers of tissue and on the blood and lymph vessels inside them. Congestion in the tissue is reduced, venous and lymphatic return is supported, and metabolism and gas exchange are improved.

Treatment recommendations

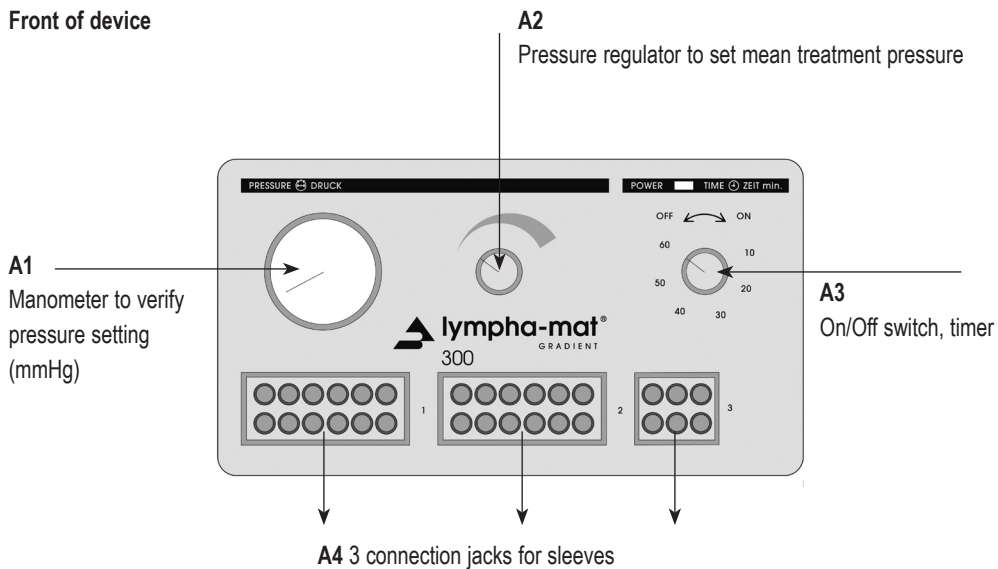
During the treatment the patient should lie down in a comfortable and relaxed position. To further support the treatment effect, the legs or arms being treated can be slightly elevated. At the start of the therapy, a low pressure setting should be selected and subsequently increased as needed. The pressure setting must never be so high that the patient experiences discomfort or pain. The treatment should feel relaxing and pleasant.

Technical instructions for installation

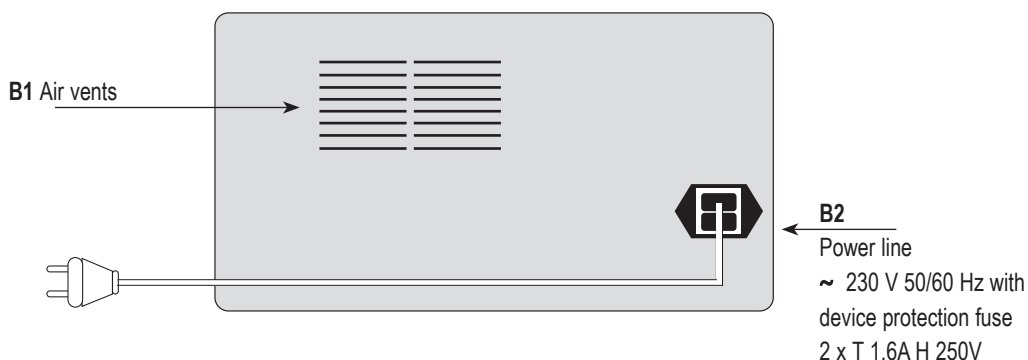
- After removal from the packaging, the device is ready for operation.
- Visually inspect the device for external damage.
- Do not use the device if there is visible damage.
- Place the device onto a flat and solid surface, e.g., a table.
- Connect the power cord to the power line (**B2**) and then to the socket (power supply).
- Connect the device to a power supply that corresponds to the specifications.
- To ensure correct operation of the device and its connection to the power supply grid, please use a country-specific mains adapter, where necessary, corresponding to the device specifications (not included in the scope of delivery).
- Position the device in such a way that the patient or the operator can pull out the power cord during treatment in case of emergency.
- Do not cover the air vents (**B1**) on the device with cloths, blankets or other objects. Do not stack devices. Do not use device as a storage surface.
- Remove the dummy connector from the connection jack to be used (**A4**) and connect the sleeve.
- Connect the sleeves to the device (**A4**) and apply the sleeves.
- All of the device features can be used safely by the patient.
- Dial the timer (**A3**) clockwise and set it to the desired treatment duration. All indicators are now lit up. After the set treatment duration has expired, the device automatically stops the treatment.
- Use the pressure regulator (**A2**) to set the desired mean treatment pressure and check it using the pressure indicator.
- Once the treatment is completed, dial the pressure regulator (**A2**) back to “minimum” (counter-clockwise).
- To end the treatment before the time has expired, dial the timer (**A3**) back to “OFF” (counter-clockwise).
- To better vent the sleeves after the treatment, disconnect the hoses from the device.

Design of the lympha-mat® 300 device

Front of device

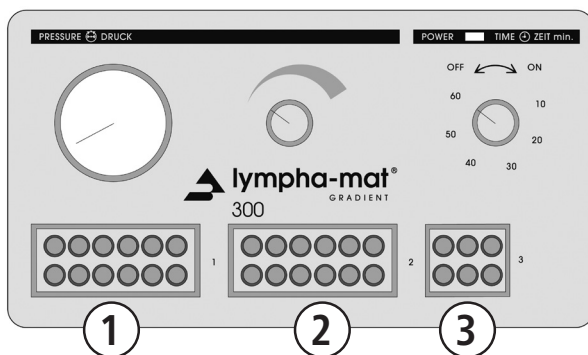


Rear of device

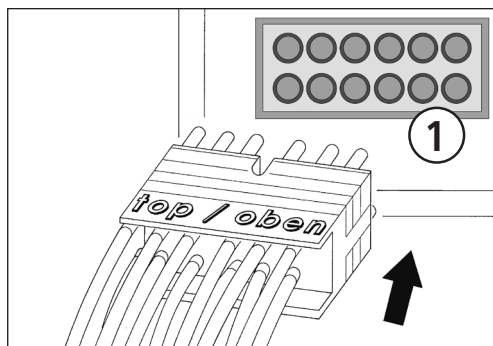


Connecting the sleeves

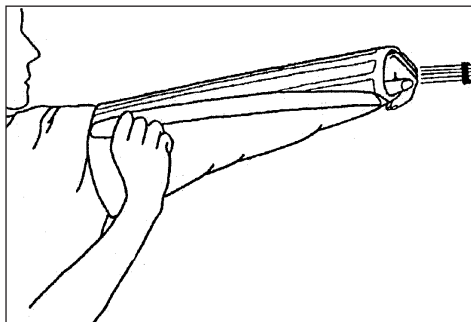
- Three sleeves can be connected to the device (**A4**) at the same time.
- Connectors 1 and 2 are intended for the leg sleeves/arm sleeves and compression pants, connector 3 is intended for the hip sleeve.
- Insert the hose connectors of the sleeves into the connection jacks (**A4**).
- Please note the markings 'top' and 'bottom' on the hose connectors!
- To ensure that the individual chambers can be filled with air, the air hoses of the sleeves must not be bent.
- The connection jacks (**A4**) that are not required for the duration of the treatment must be closed with the dummy connectors provided.



A4 3 connection jacks for sleeves



Applying the sleeves

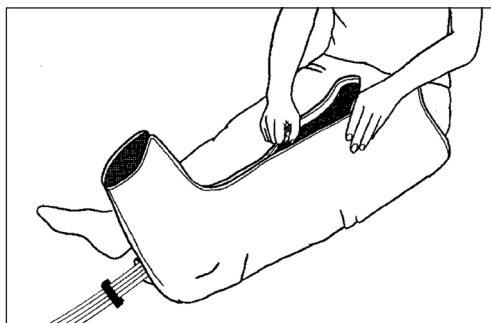


The arm sleeve

Apply the sleeve comfortably, making sure there are no creases. Use as much of the adhesive surface of the Velcro fastener as possible to prevent opening of the sleeve during the treatment. When applying the sleeves the canal covering the hoses must face outward and be visible.

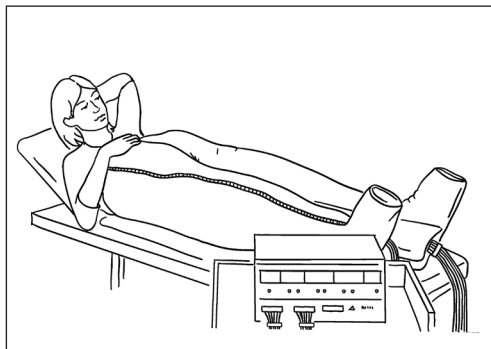
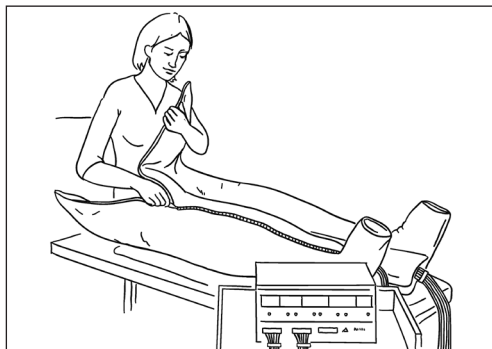
The leg sleeve

Apply the sleeve and close the zipper completely. The Velcro fastener additionally prevents possible opening of the zipper. The zipper should not be opened under pressure.



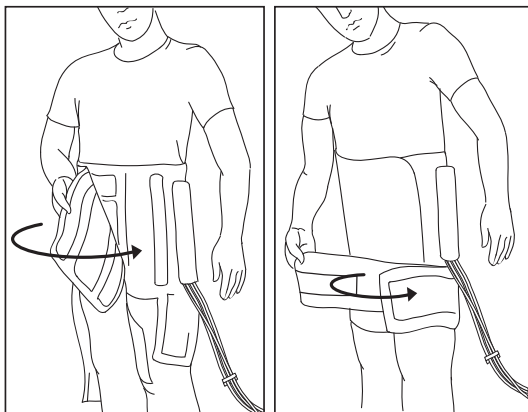
The compression pants

Close the zippers completely.



The hip sleeve

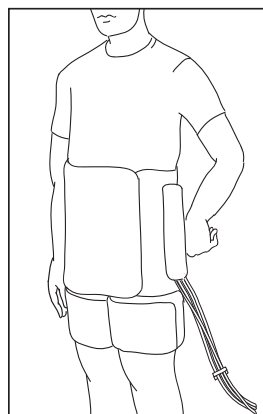
The hip sleeve consists of two halves, with 6 air chambers each, that are connected to one another using Velcro fasteners. The back Velcro fastener (blue) is used to adjust the circumference (up to 155 cm), the front Velcro fastener (gray) to close the sleeve.



The canals covering the hoses must be placed to the outside of the body.

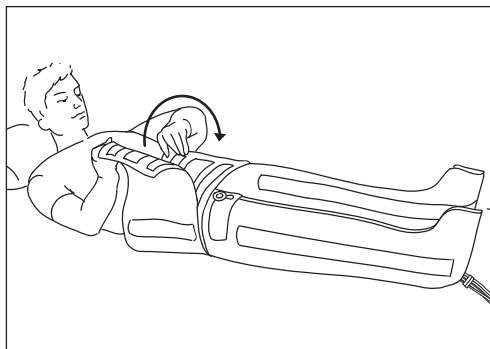
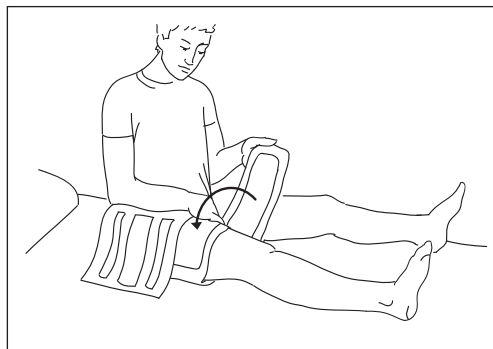
Apply the sleeves comfortably, making sure there are no creases.

Use as much of the adhesive surface of the Velcro fastener as possible to prevent opening of the sleeve during the treatment.



Trouser combination

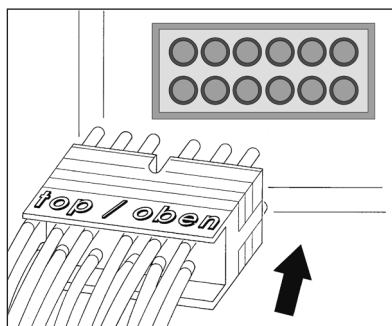
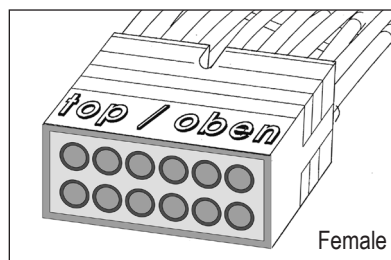
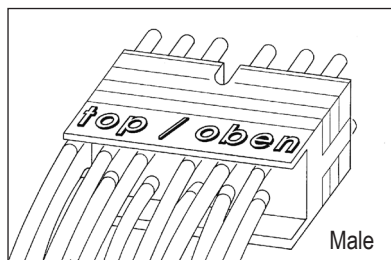
Apply and close the hip sleeve. Apply the leg sleeves and pull them over the bottom parts of the hip sleeve. Close the zipper completely.



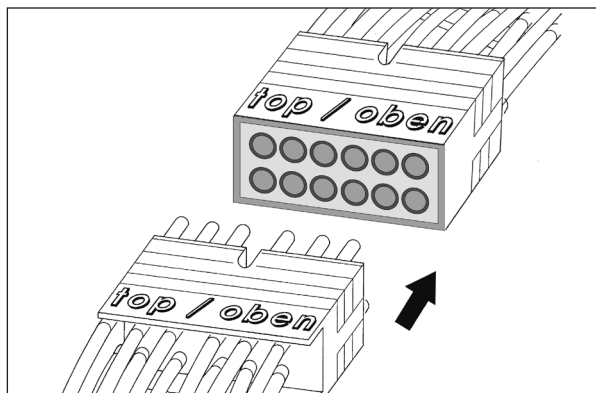
Connecting the lympa-mat® hose extensions

A hose extension that can be inserted between the control unit and the sleeve is available for all sleeves of the lympa-mat device type. It extends the entire connection between the control unit and the sleeve by 2 m.

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



The "male" connector is inserted into the connection jacks of the control unit. Please note the marking 'top' and 'bottom' on the hose connector.



The "female" connector is connected to the hose end of the sleeve. Please note the marking 'top' and 'bottom' on the two hose connectors and connect them in such a way that 'top' aligns with 'top' and 'bottom' with 'bottom'.

Connecting the extension

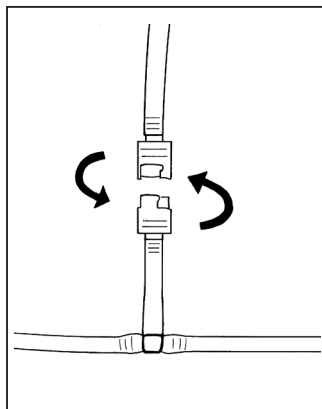
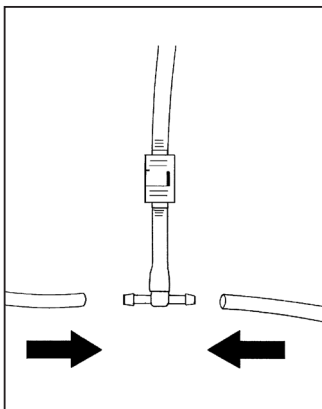
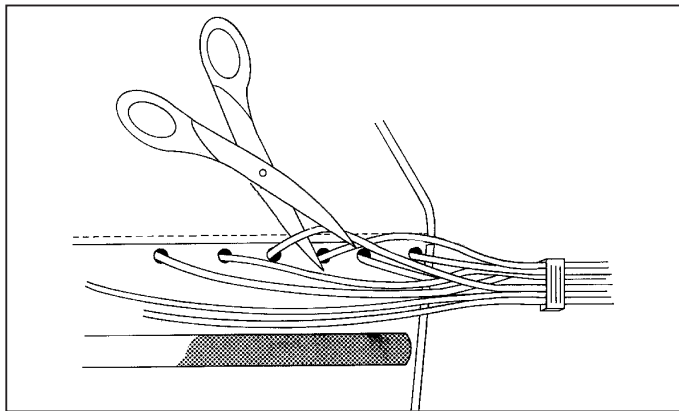
Extension

The extension extends the circumference of the leg sleeve/compression pants by 13 cm. It is attached to the sleeve using side zippers.

Assembly instructions

How to assemble the extension: Expose the hose connections by opening the cover on the side of the sleeve.

Cut the hose of the 4th air chamber at the marked spot (black line) and connect the connecting piece of the extension.



When removing the extension, disconnect it at the hose coupling.

The sleeves and further 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 circumference up to 88 cm

Length 85 cm

Art. No. 1230

Size L – Short

Thigh circumference up to 88 cm

Length 72 cm

Art. No. 1231

Extension

for leg sleeve

with one air chamber

Circumference extension 13 cm

Art. No. 1240

Extension

for leg sleeve Short

with one air chamber

Circumference 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 sleeve

with 24 air chambers

Circumference of abdomen up to 134 cm

Circumference of upper arm up to 55 cm

Art. No. 1180

Jacket sleeve left with bolero

with 12 air chambers

Circumference of abdomen up to 134 cm,

Circumference of upper arm up to 55 cm

Art. No. 1181

Jacket sleeve right with bolero

with 12 air chambers

Circumference of abdomen up to 134 cm,

Circumference of upper arm up to 55 cm

Art. No. 1182

Extension Back

extension 13 cm

Art. No. 1185

Extension Arm

extension 10 cm

Art. No. 1190

Extension Front

extension 13 cm

Art. No. 1195

Hip sleeve

with 12 air chambers

Hip circumference

adjustable up to 150 cm

Art. No. 1270/6

Extension set for hip sleeve

extension 40 cm

Art. No. 1275

Compression pants

with 24 air chambers

Hip circumference up to 145 cm

Thigh circumference 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

extension 13 cm

Art. No. 1265

Extension

for compression pants size S

with additional air chamber

extension 13 cm

Art. No. 1266

Belt for pants and jacket

To intensify pressure in the

abdominal area

Art. No. 1280

Hose extension

for all 12-chamber sleeves

Length 2 m

Art. No. 1290

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

Please use only the supply lines approved by the manufacturer.

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



BÖSL Medizintechnik GmbH
Gut-Knapp-Straße 14
52080 Aachen, GERMANY
Phone +49(0)2405 / 6 93 90 - 00
Fax +49(0)2405 / 6 93 90 - 10
Email: info@boesl-med.de
www.boesl-med.de



Made in Germany

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