

Varilymph

Varilymph 12 Pro

USER MANUAL

VARILYMPH 12 PRO



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1. ABOUT

VARILYMPH 12 PRO is an automatic 12-chamber control device for **Intermittent Pneumatic Compression Therapy (IPC)**. You can use the device combined with the SLK garments for a 12 step physical drainage therapy of chronic venous and lymphatic diseases.

The device can be used with one or two garments and allows a highly effective therapy on legs, arms and shoulder area. The device creates an adjustable pressure in the garments. The pressure flow begins in the areas of the body furthest (foot, hand) areas from the heart and moves in 12 steps to the body nearest areas.

The actual therapy pressure can be adjusted at the controller.

The de- and inflation of the air cells in the correct order is controlled by the VARILYMPH 12 PRO automatically.

The therapy activates the venous and lymphatic circulation.

2. SAFETY INSTRUCTIONS

- 2.1 Read the instruction manual before use carefully.
- 2.2 This product is intended only for the purpose described in the instructions for use.
- 2.3 Before patient change the system must be chemo-thermally treated by SLK or an authorized reseller. This is for hygienic reasons and for compliance with the Medical Device Regulations (MPG) and guidelines for Hospital Hygiene of Robert Koch Institute.
- 2.4 Please use the VARILYMPH 12 PRO ONLY with SLK garments.
- 2.5 The operation should be done only in closed rooms and by trained personnel or medical personnel.
- 2.6 Danger when using the system in the presence of easy flammable gasses.
- 2.7 Keep the control unit from water and moisture (eg.steam) away. If water has penetrated into the control unit, disconnect it immediately from the power supply.
- 2.8 Please do not operate the control unit before it warmed up or cooled down to the room temperature.
- 2.9 Keep the system well away from high temperatures above 50 ° C.
- 2.10 Avoid damages by sharp objects of the power cord, the flexible hoses and the treatment sleeves.
- 2.11 When a power cord is damaged, the appliance should be removed from service and the cord replaced as soon as possible to reduce the risk of electrical shock, electrocution or fire.
- 2.12 Operate the device only with the specified voltage (230V ~ 250V / 50Hz).
- 2.13 This system cannot be disposed of like regular trash. Detailed information can be obtained from the local waste disposal service or the manufacturer.
- 2.14 In the case of a defect, please contact us. +49 (0) 231-925360-0 or contact their local dealer.
- 2.15 The system meets current safety standards, including: EN60601-1 and IEC 62366.
- 2.16 Changes or modifications which have not been made by the company SLK are expressly prohibited and will result in immediate end of the warranty and certification.

3. SCOPE OF SUPPLY

- VARILYMPH 12 PRO compression therapy device
- power cable
- 2x connecting tube for 12 chamber garments
- user manual
- cover cap

4. FIELD OF APPLICATION

INDICATIONS

- thromboembolic prophylaxis
- ulcer cruris
- post-traumatic oedema
- lipoedema
- sensory disturbance caused by hemiplegia under strict observation
- post-thrombotic syndrome
- venous oedema
- lymphatic oedema
- mixed forms of oedema
- peripheral arterial occlusive disease (under strict medical supervision)
- diabetic foot syndrome

CONTRA-INDICATIONS*:

- recent myocardial infarct
- cardiac and renal caused oedema
- erysipelas
- acute soft-part-trauma of extremities
- occlusive processes in the sector of lymphatic drainage
- extensive thrombophlebitis, thrombosis or suspected thrombosis
- pulmonary oedema
- decompensated cardiac insufficiency
- severe unstabilised hypertension
- neuropathy

Relative Kontraindikationen* :

- tumors in draining area
- pain during the therapy with IPC

* ask your attending doctor

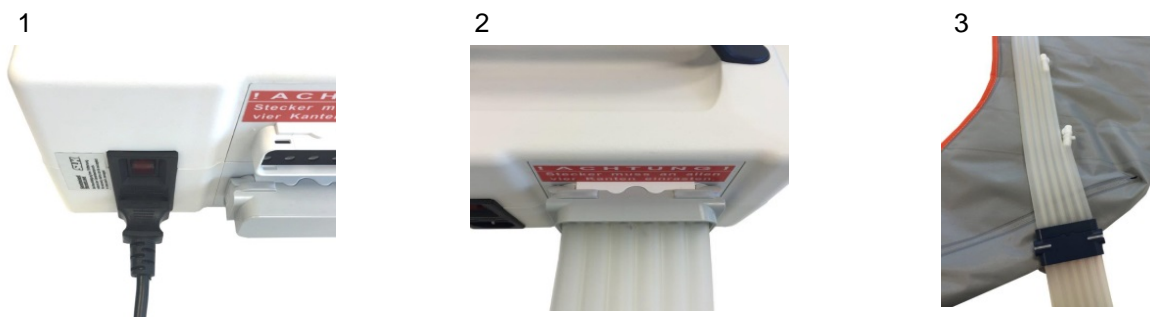
5. OPERATION INSTRUCTIONS

To put the device into operation connect the power cable with the power supply and put the plug into the power outlet.

Connect the device and the garments with the connection tubes.

Make sure that the grey plugs of the garments are plugged into the grey socket of the device.

Make sure that the cover cap closes the second tube connector on the device if you are using only one garment.



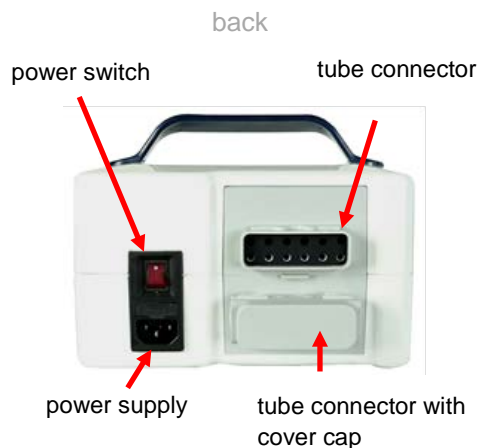
To put the device into operation, connect the power cord to the appropriate power connector (Figure 1) and insert the plug into the socket. Connect control unit and cuffs with connecting hoses. The plugs and sockets can be inserted only in one direction due to their construction. (Fig.2 and Fig.3)

Please note: Remove the protective film from the display before using.

Make sure that the grey connector of the cuff are plugged into the unit in the grey sockets. (Fig.2)

The plug must fully engage on all four edges!

control unit



- after switching on the device by the power switch the graphic on the display starts automatically
- each possible setting is shown on the display for approx. 10 seconds. Each value can be adjusted by turning the dial. Confirm the setting with the actual menu button
- each setting can be adjusted even after the start-up phase. Just press the actual menu button and adjust the value by turning the dial

Settings

- **Keylock:** Press and hold the therapy button for 3 seconds to activate or deactivate the keypad lock. This feature is available after starting the therapy.
- **time of therapy:** Press the time of therapy button
Adjust the time from **10 to 60 minutes** by turning the dial. Press the button again to confirm the setting
- **deflation time:** Press the deflation time button. Adjust the setting by turning the dial and confirm by pressing the deflation time button again
- **inflation time:** Press the inflation time button. Adjust the setting by turning the dial and confirm by pressing the inflation time button again
** You can also wait for approx. 8 seconds to confirm the settings. The display will switch to the start menu automatically*
- **target pressure:** Adjust the target pressure in the start menu directly
- turn the dial clockwise to increase the target pressure. Turn the dial counter-clockwise to decrease the target pressure
- press the start button to start the therapy

You can adjust the target pressure and all other settings during the therapy by turning the dial anytime.

The display shows the current pressure in the active air chamber.

You can stop the therapy by pressing the start/stop button anytime.

individual adjustments:

- therapy pressure
- time of therapy

Please ask your attending doctor.

6. END OF THERAPY

The device turns off automatically when the treatment time is up. The device changes over to standby mode. Disconnect the tubes to deflate the garments. Always wait till the garments are fully deflated before opening the zipper to get out of the garments.

For easier transport of the system, please loosen the hose connections to the device. This avoids damage to the control unit and the pressure cuffs.

Quick - Evacuation

The therapy can be terminated at any time by disconnecting the unit from the mains. Treatment cuffs deflate automatically during a power failure.

7. Cleaning and disinfection

Please note the attached cleaning instructions for SLK systems.

Cleaning

Clean all exposed surfaces and remove organic deposits by using a neutral detergent and a water-moistened cloth. Avoid excess of water or cleaning solution on the surface of the compressor.

The SLK pressure cuffs can also be cleaned with a water-moistened cloth. If heavily soiled, the pressure cuffs can be washed also in the washing machine at a low spin up to max. 60°C.

Caution: ensure that the connection hoses to the pressure cuff are securely closed with the enclosed plugs before laundry. They prevent the ingress of water.

Chemical disinfectants

We recommend disinfection with disinfectants based on alcohol (70%).

Moisten all surfaces with disinfection solution, then wipe with a water-moistened cloth and then dry it thoroughly.

For detailed information on cleaning and reprocessing in the SLK-Hygiene Center, please contact your dealer or directly the company SLK.

The fuse can be changed in the little compartment between power switch and E14 socket:



8. SERVICE

The VARILYMPH 12 PRO is equipped with high quality components and is subject to strict quality requirements. Please get in contact with the SLK GmbH in case of any defects.

SLK VARILYMPH 12 PRO devices can be maintained and repaired at SLK GmbH.

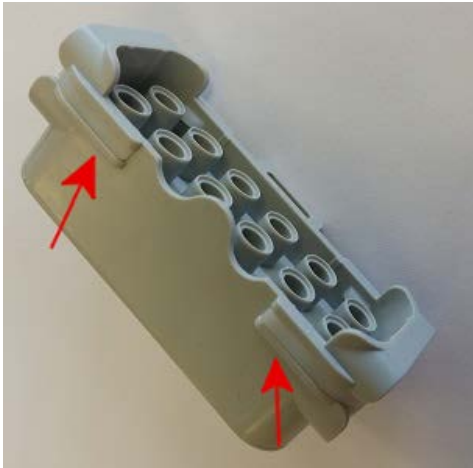
To ensure the safety of the system over a long period, it must be performed at least every 2 years a safety inspection (STK) to the system. This can be done at the company SLK or an authorized dealer.

If there are any questions please don't hesitate to contact the SLK GmbH.

8.1 Error messages and troubleshooting

The VARILYMPH 12 PRO is programmed in a way that the function of the device is monitored by electronics during operation. The following error messages may occur

Warning "Check for leakage": the electronics has determined that the selected target pressure could not be established. The reason for this may be a leak in cuffs, hoses and hose connectors. Please check the connections of the hoses to the device; please pay particular attention that the connectors are fully engaged on all four edges. The white clips on the connector must not protrude after correct locking:



If the message does not disappear after checking of connectors, then please check also the other parts of the hose system for leakages (watch out for hissing noises). If you can find no cause, so please contact the responsible dealer

Warning "Error 10": Here the electronics has determined that a movable component that is responsible for the filling of the treatment sleeves, could not go to the start position. Reason for this could be storage or operation at temperatures below 15 ° C. In this case please increase the ambient temperature. If the device has been stored at low temperatures (eg, overnight in a car) so please wait until the device has adapted to the ambient temperature. If the warning persists, you should contact the responsible dealer.

Should incidents other than those described here appear, so please contact the responsible dealer before operation.

9. TECHNICAL SPECIFICATIONS

- **power supply:** 230 volt / 50 Hz
- **input:** max. 20 watt
- **target pressure setting:** 15 – 80 mmHg
- **compressor:** 17 l/min
- **time of therapy:** 10 - 60 min.
- **fuse:** 1AL250V
- **Life time** 5 years or 2000 operation hours

Ambient condition for operation

- **Temperature:** 15°C - 40°C
- **Max. rel. humidity:** 85%, not condensing
- **Pressure:** 700mbar to 1060mbar

Transport and Storage

- **Temperature:** -20°C - 50°C
- **Max. rel. humidity:** 85%, not condensing
- **Pressure:** 700mbar to 1060mbar

medical device class IIa

protection class II (insulation protected device)

For VARILYMPH 12 PRO a manufacturer's warranty of 2 years applies.

All parts and data are in constant development and may therefore differ from the information listed.



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