

# VACUMED®

---



Intermittent vacuum therapy (IVT)  
for the lower body



More momentum in the treatment of vascular diseases.

When the >>flow<< becomes a problem, here is the solution! Intermittent vacuum therapy –IVT- with the Flow Regeneration System VACUMED®.

A powerful, cost-effective method for improving circulation in all stages of peripheral arterial occlusive diseases. The innovative wound healing acceleration for diabetic foot syndrome and chronic wounds (arterial, venous and mixed). As passive vascular training it brings capillarisation into action, thus extending walking distances and reducing pain. The innovative IVT is not only well tolerated and ingeniously easy to apply but also economically profitable with surprisingly fast results.

### External second heart

Intermittent vacuum therapy –IVT- applies alternating negative pressure (vacuum) and positive pressure to the lower extremities up to the abdomen. Physiologically this creates a rhythmic vascular dilation and compression and stimulates the >>flow<< in a natural, purely physical way. The result is better circulation, more capillarisation and an increase in the venous and lymphatic return. The central nervous system is also stimulated. The treatment is completely pain-free independent of the disease and its stage, as it functions without compression. The patient remains totally passive. Undressing is not necessary.



The IVT stands for good tolerance and high patient benefit.

### INSPIRED BY SPACE MEDICINE

The technological origin of IVT lies in the space medicine of the American NASA. In the weightlessness of the orbit the astronauts have to undergo a negative pressure treatment in an LBNPD (Lower Body Negative Pressure Device) every ten hours to avoid orthostatic complications. This is the only way to ensure sufficient blood circulation in the lower extremities in spite of a lack of gravity. The further development of the LBNPD is the VACUMED® Flow Regeneration System. The device was developed at the Institute for Space Medicine of the Germany Aerospace Centre (DLR). The main areas of use are cardio-vascular stimulation and revascularisation. IVT is also recognised as a modern, cost-effective therapy for lymph- and lipoedemas. In a different form the method is also used to boost post-traumatic or post-operative rehabilitation (VACUSPORT® device) or as pain therapy for the arms, neck and shoulders (VACUMED® A.N.S. device). High tolerance, high patient benefit and the positive effect on the profitability of the medical facility are documented.



## Make it easy

The treatment parameters of the innovative IVT are almost freely variable intervals of negative and normal pressure phases and the variable intensity of the negative pressure. So the arterial, venous or lymphatic flow can be triggered in a differentiated way functionally and depending on the indication.

Several different indication-specific treatment programmes are available. They run automatically at the press of a button. The pre-programmed settings are based on the experience of over 100,000 applications. This guarantees best practice and makes the therapy not only successful but also simple, safe and delegable.

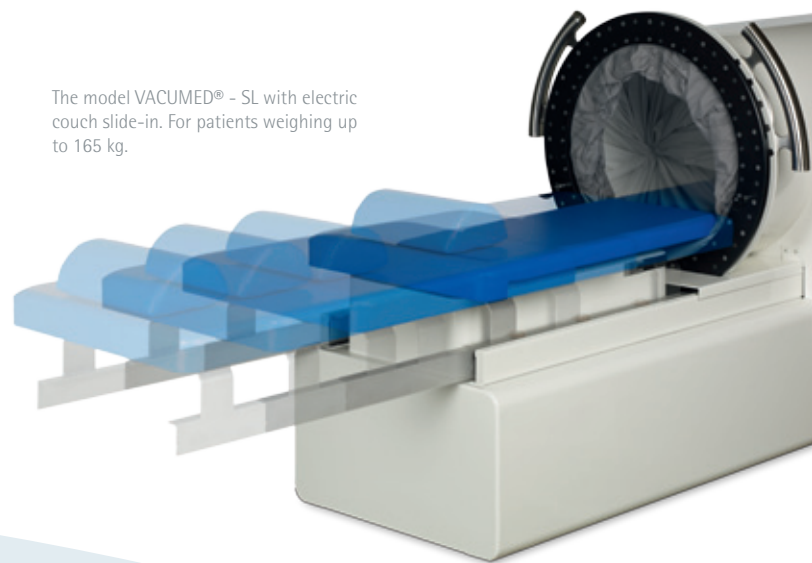
A treatment takes between 30 and 40 minutes depending on the indication. The application is almost contact-free and is always perceived as pleasant by the patient. In pain therapy for peripheral arterial diseases or in the treatment of chronic wounds eight to 16 sessions within a period of three to six weeks are prescribed. Inpatients can be treated daily with IVT.

## Suitable for whom?

IVT with the patented VACUMED® device is used in vascular medicine (also vascular surgery) and in wound management. The locations are facilities for physiotherapy, diabetes centres, leg clinics, wound centres or rehab clinics with a focus on vascular medicine. Internal medicine practices are also



possible. IVT reduces the costs for DRGs and has attractive invoicing models. The investment pays for itself surprisingly fast. It contributes towards an increase in the performance and efficiency of the medical facility and improves the quality of life of the patients fast and permanently. >>Flow is the name of the game<<.



The model VACUMED® - SL with electric couch slide-in. For patients weighing up to 165 kg.

## Details

- Automatic pre-set treatment programmes for amongst others the following indications:
  - peripheral arterial occlusive diseases (PAOD, stage II - IV)
  - diabetic foot syndrome
  - chronic wounds (arterial, venous and mixed)
  - post-thrombotic syndrome (CVI)
  - ec. lymphoedemas and combined lymph- / lipoedemas
  - arteriosclerotic-induced erectile dysfunction (ED)
  - passive vascular and walking distance training
- Electrically adjustable backrest angle for an optimum bent position (standard model)
- Electric couch slide-in for non-mobile patients (only VACUMED® SL)
- Medical product class IIa
- Patented
- Made in Germany

## Technical details

Size of device	2200 (2250*) x 1200 x 1100mm (L, D, H) For patients weighing up to 165 kg
Weight of device	110 kg (185 kg*)
Mains voltage	230 V / 50 - 650 Hz, 1.300 VA
Colour	Alpine white. Special paintwork available on request

\* VACUMED® SL



Zertifizierte  
Wirkung und  
Qualität  
Evidence  
based and  
quality proofed

**made**  
**in**  
**Germany**

Weyergans High Care AG | D-52355 Dueren  
[www.vacumed.de](http://www.vacumed.de) | [info@vacumed.de](mailto:info@vacumed.de)  
Tel. +49-(0)2421-96780



**WEYERGANS**  
high care® medical