

VACUSPORT®

Regeneration System



Fit and healthy faster with the innovative
rehabilitation booster

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Ref.nnr. 02464 grün-gedruckt.de printed-green.eu



High end in the boosting of regeneration and rehabilitation

Here it is: the new method of boosting regeneration and rehabilitation from the realm of space medicine. Already a hit with world-class athletes and top football, rugby and icehockey clubs who do everything they can to improve their performance. In daily use in leading international clinics for orthopedics and traumatology. For surprisingly fast results in the therapy and rehabilitation and mobilisation of patients: the Vacusport® Regeneration System.

Flow is the name of the game

In particular with regard to post-traumatic or post-operative swelling, the start of the healing process is delayed until the oedemas subside. Such tissue cannot be subjected to manual or mechanical compression treatments in the initial stage after a trauma. The arterial, venous and lymphatic vessel systems are affected for days; circulatory disorders and lymph drainage problems in the injured tissue can continue to exist for months or years.

But now that's finally over. The VACUSPORT® Regeneration System reduces oedemas spontaneously and permanently. By supporting peripheral perfusion, IVT stimulates the supply of nutrients and oxygen to the wounds and leads to significantly faster wound healing and faster convalescence. Totally contact-free and pain-free for the patient.

VACUSPORT® is ideal for care after typical sport injuries and significantly reduces the rehabilitation time for the benefit of the patients and their sponsors. Also ideal for accelerating rehabilitation after joint internal injury surgery including endoprosthetics. The result: improvement in quality of life due to faster profound rehabilitation.

Due to the excellent effect of IVT on lymph flow, the VACUSPORT® Regeneration System is also recognised as a modern, cost-effective therapy for lymphoedemas.



IVT with the VACUSPORT® increases the attractiveness and rentability of medical facilities.

INSPIRED BY SPACE MEDICINE

The technological, medical and scientific origins of the Vacusport® Regeneration System lie in space medicine. 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 VACUSPORT® Regeneration System. The result is intermittent vacuum therapy -IVT-. Through rhythmic vessel dilatation it stimulates the flow in the lymph system, arteries and veins. At the same time capillarisation is increased. And all that completely passively. With non-mobile patients too.



Make it easy

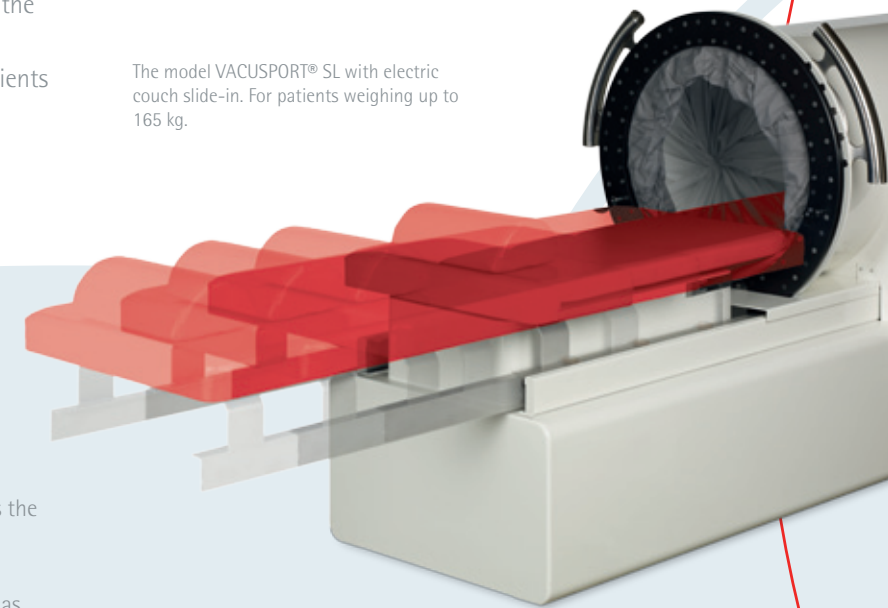
Such an even, pain-free treatment of the lower extremities in cases of peripheral circulation disorders or lymph drainage problems cannot be achieved by a human hand. The physiotherapist leaves this job to the VACUSPORT® and can use his high qualifications for functional therapy and the development of neurological-orthopedic skills.

The effect on lymph flow and peripheral perfusion in the subcutaneous / epifascial region can be triggered in different ways. Pre-programmed settings are available for typical indications in the area of regeneration and rehabilitation. These automatic treatment programmes are based on the experience of several 100,000 applications in leading clinics worldwide. This guarantees best practice and makes the therapy successful, simple, safe and delegable.

A treatment takes between 30 and 40 minutes depending on the indications and is always perceived as pleasant by the patient. Depending on the indication eight to 16 sessions within a period of three to six weeks are prescribed. Inpatients can be treated daily with IVT.

Suitable for whom?

The Regeneration System with the patented VACUSPORT® device is used in the fields of orthopedics, traumatology and sports medicine. The locations are facilities for physiotherapy, centres for orthopedic or neurological rehabilitation and sports performance support points. Orthopedic and internal medicine practices are also a possibility. The use is convincing due to attractive accounting models. The investment pays itself off surprisingly fast and contributes towards an increase in the performance and attractiveness of the facility.



The model VACUSPORT® 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:
 - post-operative or post-traumatic swelling
 - secondary lymphoedemas and combined lymph- / lipoedemas
 - passive vascular and walking distance training
 - injuries to ligament structures in the lower extremities
 - torn muscle fibre
 - distorsions
 - plegie
 - rehabilitation boosting after endoprosthetics
 - regeneration boosting and injury prevention in competitive sport
- Electrically adjustable backrest angle for an optimum bent position (standard model)
- Electric couch slide-in for non-mobile patients (only VACUSPORT® SL)
- Medical product class IIa
- Patented
- Made in Germany

Technical details

Size of device	2200 (2250*, 2450**) x 1200 x 1100mm (L, D, H) For patients of up to 165 kg weight and 195 cm height
Weight of device	110 kg (185 kg*, 115**)
Supply voltage	230 V / 50 - 60 Hz, 1.300 VA
Colour	Alpine white / red. Special paintwork available on request

*) VACUSPORT® - SL

**) VACUSPORT XXL (special model for patients of up to 225 cm height)