Shortwave Therapy

Targeted heating of the tissue by electromagnetic waves

TECHNOLOGY FOR THERAPY

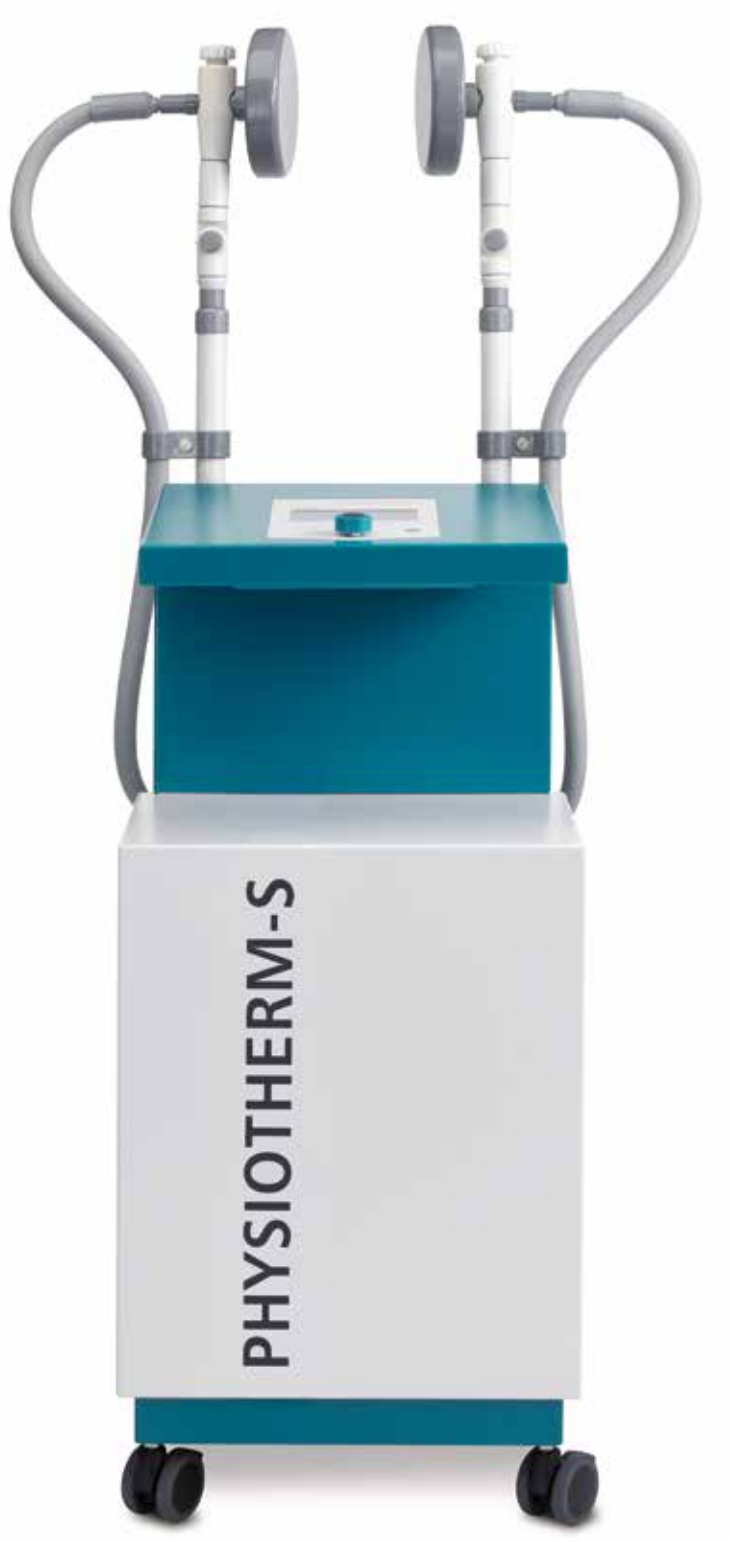
PHYSIOMED®

PHYSIOTHERM-S

Perfected shortwave therapy

The PHYSIOTHERM-S high-end shortwave therapy unit enables continuous and pulsed energy output for thermal and athermal applications. You can choose between the capacitor field method for uniform heating of all the tissue layers as well as the coil field method (optional) for selective treatment of tissue with good conductive structures, such as connective tissue and muscles. In addition to the graphic display of the effective power output, the ingenious automatic matching feature (dynamic matching) ensures the steady development of heat and prevents overdosage by reducing the power if there is a problem. The extremely well-shielded, high-frequency connection cables provide trouble-free operation.

The easily adjustable supporting arms ensure quick and exact electrode placement. The smooth running castors with latches ensure good mobility and secure positioning of the PHYSIOTHERM-S.



Shoulder treatment with a diplode

Shortwave therapy

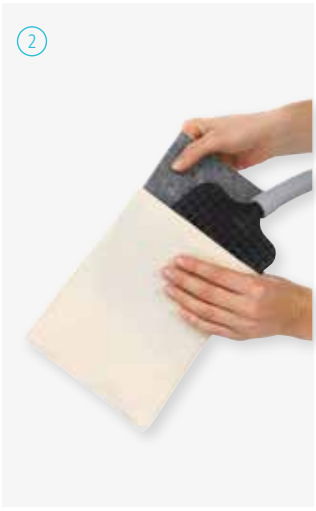
The application of shortwave therapy generates warmth in tissue for which electric and magnetic fields are used. Shortwaves are applied either using the condensor field method or the coil field method.

With the condenser field method the treated body part is placed between two condenser plates (shell electrodes or soft rubber electrodes). A periodic charge exchange process occurs in the treated tissue under the influence of high frequency electrical alternating fields, which results in uniform heating through of all levels of the treated tissue segments.

The coil field method uses a coil in the form of a vortex current electrode (monode or diplode). The high frequency current flows through the coil, which creates a variable magnetic field in its environment. The magnetic field causes a predominant warming in tissue with good conductive structure, such as connective tissue and muscles.

In the impulse mode during the shortwave therapy, the focus is on the athermal effect with trophic enhancement and reflective influences on the vascular system. The local thermal effect dominates in continuous operation, causing improved cell metabolism, reduced viscosity of bodily fluids, higher tensibility of collagen fibres, circulation stimulation and manipulation of the nervous system. Shortwave therapy is therefore used predominantly in the fields of orthopaedics, traumatology, rheumatology as well as in ENT, urology, gynaecology and internal medicine for:

» Treatment of chronic inflammations
» Pain reduction
» Spasm reduction and muscular relaxation
» Treatment of acute and chronic infections



SPECIAL FEATURES

Shortwave therapy

Continuous or pulsed power output

Matching function for steady development of heat and prevention of overdosage

ACCESSORIES

1. Plate electrodes available in three sizes (8, 12 and 16.5 cm in diameter)
2. Rubber capacitor electrodes for treatment using capacitor technology (18 x 12 cm or 25 x 14.5 cm)
3. Diplode for shortwave therapy with coil field method
4. Monode (special eddy current electrode) for shortwave therapy with coil field method

GENERAL FEATURES

Intuitive PHYSIOMED one-button operation

Fastest therapy start: direct, through program memory or indications index

Extensive treatment index by medical fields featuring therapeutic information, dosage proposals and application graphics

Patient database

1

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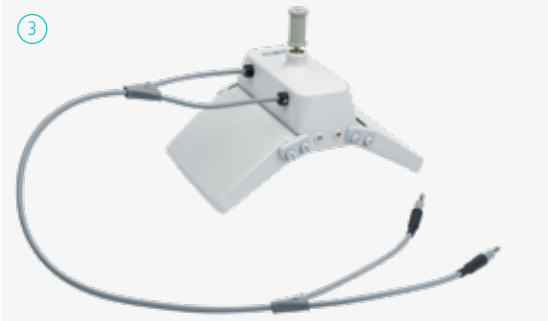

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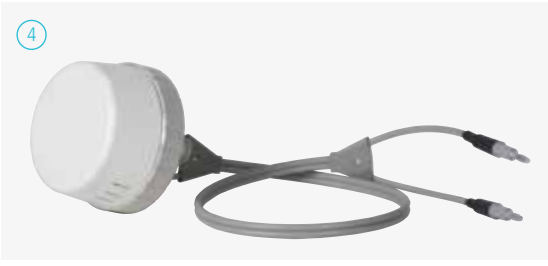

TECHNICAL DATA

Protection class	1, Typ BF
Power connection	230 V ±10 % or 115 V ±10 %
Mains frequency	50 – 60 Hz
Current consumption	6 A (at 230V) or 12 A (at 115V)
Power consumption	1400 VA
Operating frequency	27.12 MHz

Power output max.	Continuous operation Impulse mode	400 W 1000 W
Impulse frequency	10 – 300 Hz	
Impulse duration	200 – 600 µs	
Dimensions (W x H x D)	420 x 970 x 410 mm	
Weight	60 kg	

STANDARD ACCESSORIES

[2]	Cable holder
[2]	Electrode supporting arms
[2]	HF connection cables
[1]	Mains cable
[1]	Operating instructions
[2]	Plate electrodes 16,5 cm

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DEALER MARK / STAMP

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