

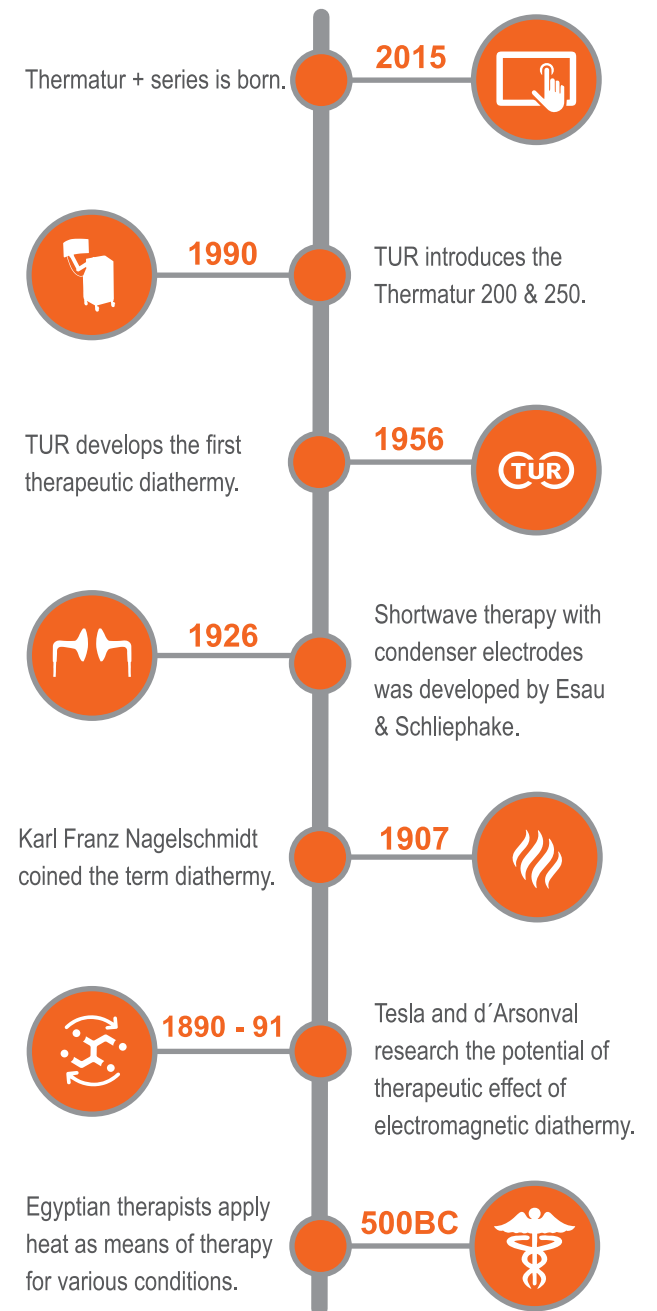


# thermatur

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# high frequency therapy



## Neurology

Neuralgia, spasmodic muscle reactions (apoplexy, transverse syndrome), nerve root compression syndrome (ischialgiae, etc.)



## Physiotherapy, ergotherapy, orthopedics, accident surgery & sports medicine

Facilitative, relaxing, analgesic effect, luxations, distortions, contusions, pre- and postoperative irritations, arthritis, arthrosis, condition after joint replacement surgery, muscular lesions (strain, contusion, fiber rupture), nerve root syndrome, reflex dystrophy



## Rheumatology

Myalgiae, rheumatic myogeloses, chronic, polyarthritis, activated arthrosis, insertion tendinitis, endovaginitis, periarthropathy

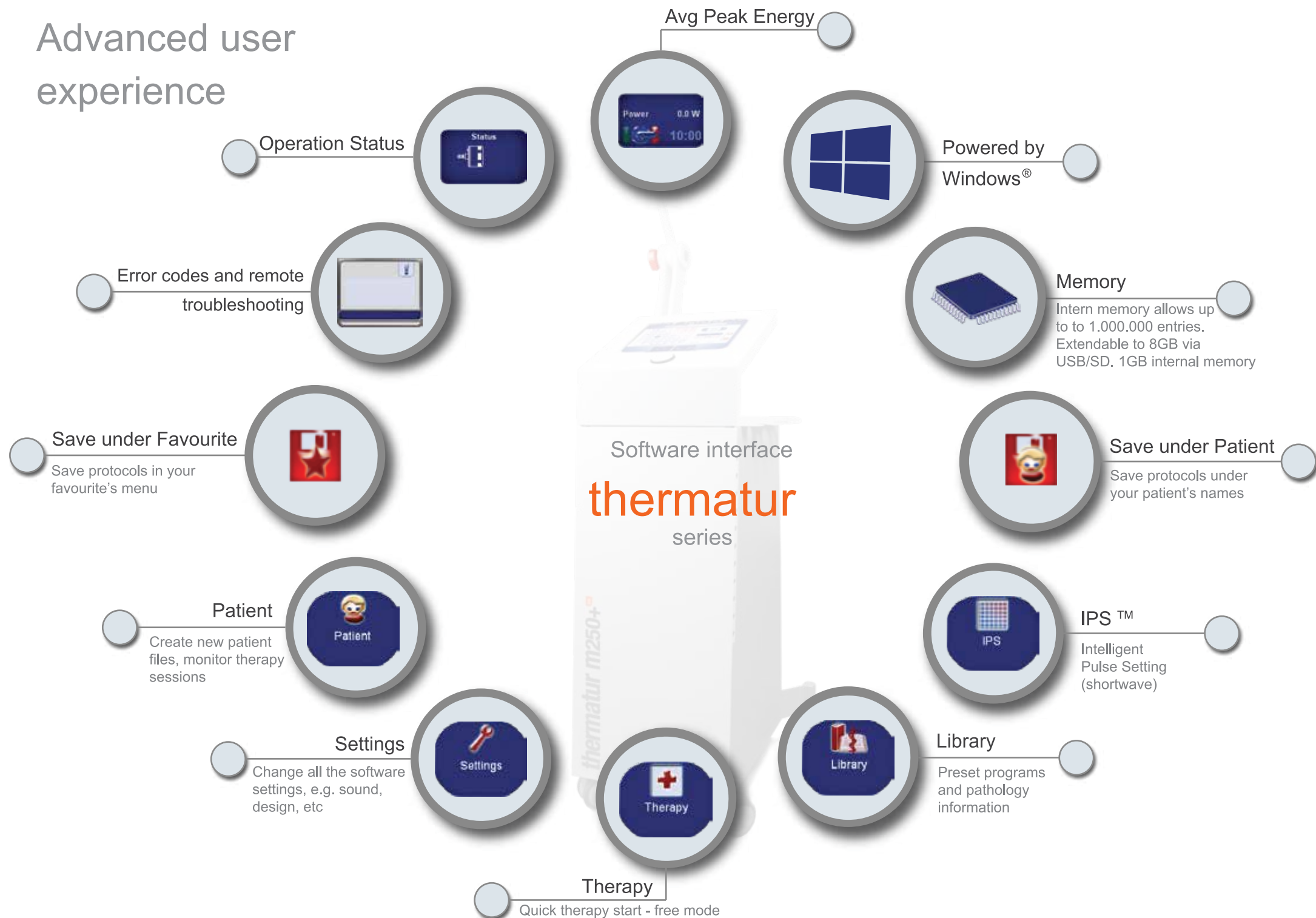


## Dermatology

Psoriasis, cellulite, in combination with high power laser therapies



# Advanced user experience



# Features

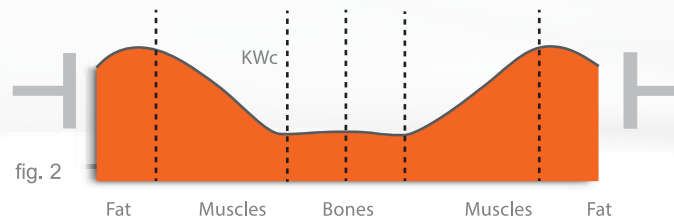


# thermatur 200+

thermatur 200+ is a versatile shortwave unit with an automatic tuning function, suitable for continuous and pulsed therapy. The shortwave therapy ensures a deep but comfortable heat radiation.

The specially designed microprocessor controls the different parameters such as intensity, continuous and pulsed mode, treatment time as well as the patient safety system. Additional features are:

- simply adjustable electrodes and arms
- no heat damage of the electrode cables at contact
- flexible silicone-rubber capacitor-field electrodes
- exchangeable Schliephake capacitor-field electrodes



## Possibilities of Treatment

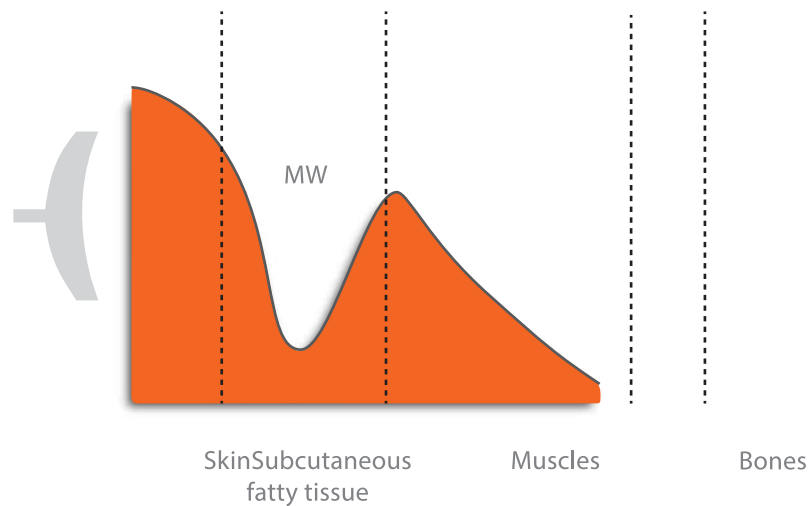
With the Schliephake capacitor-field method (fig. 2) the treated body parts are positioned between two electrodes. The electric field energy applied is converted into heat energy within the fat tissue. From there the heat flows into the muscular tissue. With the coil-field method (fig.1) the heat is precisely transported to the locations mostly required: to the muscular tissues.

## thermatur m250+

With the variety of different radiators, the microwave treatment offers a diverse field of applications. The produced heat can be reduced by increasing the distance between the radiator and the treatment site.

The microwave radiation can be focused and is therefore excellently applicable for treating locally specific body parts. Thus, it is particularly suitable for the otolaryngology, dental and orthodontic medicine. For these fields microwave is preferred over shortwave.

Within the body, microwaves execute thermal (i.e. heat) and extrathermal (i.e. vibration) physico-chemical processes.



The microwave radiation is converted into heat in the skin tissue and subcutaneous muscle tissue, since it penetrates deeper into the tissue compared to the infrared radiation.

By applying pulsed mode more energy can enter the muscular tissue, without having an intense thermal effect that for a large number of pathologies should be avoided.



# Acessories

## thermatur 200+



13 cm Ø Diameter



Pads 12 x 18 cm



Cables

## thermatur m250+



Conical



Large Field



Long Field

# Specifications

	thermatur 200+ Shortwave	thermatur m250+ Microwave
<b>Software</b>		
Therapy protocols	Yes	Yes
Patient database integrated	Up to 1 million entries expandable	Up to 1 million entries expandable
Application guide	Yes	Yes
Operational system	Windows CE	Windows CE
Anatomical library	Yes	Yes
Timer	1 - 60 min	1 - 60 min
<b>Design</b>		
Weight	52 kg	51 kg
Dimensions (w x h x l)	430 x 1100 x 450 mm	430 x 1100 x 450 mm
Display device	Graphic colour touch screen 12.1" / 30.7 cm	Graphic colour touch screen 12.1" / 30.7 cm
<b>Energy supply</b>		
Net	110 – 230VAC / 50-60Hz	110 – 230VAC / 50-60Hz
Equipment protection	Protection Class I / Protection degree IP20	Protection Class I / Protection degree IP20
Externally replaceable fuses	6A	6,3A (230 V~), 10A (110V~)
Power switch according to IEC 60601-1	Yes	Yes
<b>Classification</b>		
Applied section	type BF	type BF
Class according to with MDD 93/42/EEC	Ila	Ila
<b>Operation settings</b>		
Operational frequency	27,12 MHz ± 0,6%	2450 MHz
Operational modes	Continuous / pulsed	Continuous / pulsed
HF peak output (W)	400 / 1000	250 / 1600
Pulse frequency (Hz) Pulse	10, 25, 50, 100, 200, 400, 600, 800	N/A
Pulse duration	20, 40, 65, 100, 200, 400 (µs)	Duty cycle 10% - 90%

Hergestellt von:



GmbH an ISO 13485:2016  
certified company

TUR GmbH | Grubenstraße 20 | 18055 Rostock |  
Germany

Tel: +49 3303 5088 0 | Fax: +49 3303 5088 11

Mail: info@tur-web.com

[www.tur-web.com](http://www.tur-web.com)



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