

THERMEDICO NK1

THE LESION GENERATOR
FOR SUCCESSFUL RADIOFREQUENCY
PAIN MANAGEMENT

ACCESSORIES FOR
RADIOFREQUENCY LESION

- Disposable Cannulae
- Thermocouples
- Neutral Electrodes



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The new TherMedico NK1 has been developed for the routine treatment of chronic pain. Its easy handling and ergonomic design makes the TherMedico NK1 an easy-to-use and safe radiofrequency system.

A full range of accessories and frequent training courses ensure perfect material and state-of-the-art knowledge for maximum therapy success.

Indications

- Selective facette denervation
- Thermocoagulation of the ganglion gasseri
- Pain therapy on the spinal cord
- Pain therapy on the peripheral nerves
- Sympathetic nerve block

TherMedico NK1

- Ergonomic design and handling
- Electronic temperature control
- Automatic lesion via start button
- Manual lesion with direct temperature preselection
- Pulsed radiofrequency mode
- Protective circuit for maximum security
- Different thermocouples and cannulae available

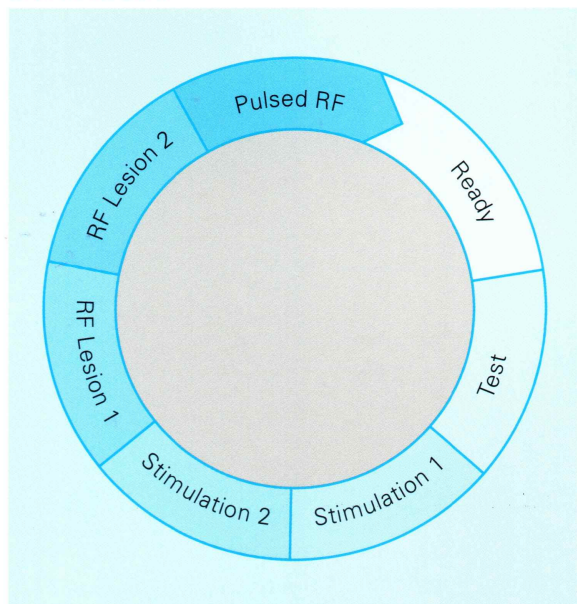
Main Functions

- RF lesion with up to 25 Watt
- Pulsed RF-Lesion with up to 50 Volt
- Stimulation with up to 3 Volt
- Analog and digital temperature control
- Easy menu navigation

Individual User Modes

The lesion time and maximum temperature can be stored in up to 4 individual, user defined RF-modes. Before starting the treatment it is unnecessary to reselect or change these particular parameters. The usermodes make it easy and convenient to switch between the various therapy modes.

Menu Structure



Two Stimulation Modes

The frequency used for the sensory and the motor stimulation can be varied by the user between 2 and 100 Hz. respectively. The standard value for the sensory stimulation in mode "stimulation 1" is 50 Hz. For the motor stimulation in mode "stimulation 2" the standard value is 2 Hz.

Menu Navigation

Operating TherMedico is easy thanks step by step menu navigation. Only important operating elements are active and selectable.

The menu navigation is available in German, English, French, Dutch, Portuguese, Spanish and Italian.

Status and error messages are clear and plain.

Safety Features

- Microprocessor controlled
- Automatic thermocouple control
- Permanent electric circuit control
- Maximum temperature limit: 95 °C
- Automatic power save function

Technical Specification

General	
Mains voltage	230 VAC
Mains frequency	50/60 Hz
Power	80 W
Dimensions	(35 x 38 x 17) cm
Weight	8,5 Kg
Impedance Measurement	
Range	0 to 3000 Ω ($\pm$ 20%)
Frequency	54 kHz ($\pm$ 0,5 kHz)
Testresistor	500 Ω ($\pm$ 25 Ω)
Display	0 to 3000 Ω in 1 Ω steps
Stimulation	
Voltage	0 to 3,0 Volt ($\pm$ 0,3 V)
Frequency	2 to 100 Hz
Wave form	biphasic square, 1 ms neg., 1 ms pos.
Display	0 to 100 Hz in 1 Hz steps
Temperature	
Thermoelement	Type K
Range	0 to 100 °C
Digital display	0 to 100 °C in 1 °C steps
Analog display	0 to 100 °C
RF-Lesion	
Power	0 to 25 W into 100 Ω
Frequency	485 kHz ($\pm$ 0,5 kHz)
Max. voltage	50 V
Max. lesion time	300 s
Max. temperature	95 °C
Timer	1 to 300 s

Cannulae for radiofrequency lesion

The insulated disposable cannulae with non-insulated active tip are covered with a non-stick coating. This coating and the special grinding of the cannulae ensure smooth skin penetration and accurate guidance into the deeper regions.

The insulated cannulae for the TherMedico NK1 are available in three different lengths, with different diameters and different active tips. For the facette denervation we recommend the 18 G cannulae with the largest possible lesion area. The cannulae with a curved tip is especially applicable for the puncture of areas difficult to access.

Disposable Cannulae		
Item no.	Length	Active tip
500887	50 mm 22 G	5 mm, straight
500888	100 mm 22 G	5 mm, straight
503713	100 mm 22 G	10 mm, straight
500889	150 mm 20 G	5 mm, straight
503714	150 mm 20 G	10 mm, straight
500892	100 mm 18 G	10 mm, curved
500894	150 mm 18 G	10 mm, curved

Disposable cannulae for radiofrequency lesion with active, non-insulated tip.



Disposable TherMedico Thermocouples

The single use disposable TherMedico Thermocouples eliminates the risk of cross contamination, eliminates the cost of sterilization and improves the safety of the patient.

Disposable TherMedico Thermocouples		
Item no.	Description	Length
503785	Disposable TherMedico Thermocouple 50 mm	50 mm
503786	Disposable TherMedico Thermocouple 100 mm	100 mm
503787	Disposable TherMedico Thermocouple 150 mm	150 mm

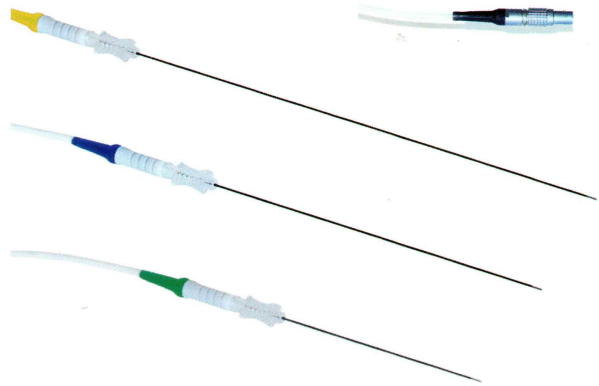
Reusable TherMedico Thermocouples		
Item no.	Description	Length
503680	Reusable TherMedico Thermocouple 50 mm	50 mm
503681	Reusable TherMedico Thermocouple 100 mm	100 mm
503682	Reusable TherMedico Thermocouple 150 mm	150 mm

Thermocouples for radiofrequency lesion

The long-lasting thermocouples can be sterilised in a steam autoclave. Concerted with the lengths of the TherMedico cannulae and equipped with a coloured bent protection, the thermo couples are available in 50 mm, 100 mm and 150 mm lengths.

The colour code that indicates the length of the thermocouple is also printed on the packaging of the cannulae, which facilitates determination of the matching length.

The length of the cannulae corresponds with the TherMedico NK1 thermocouples

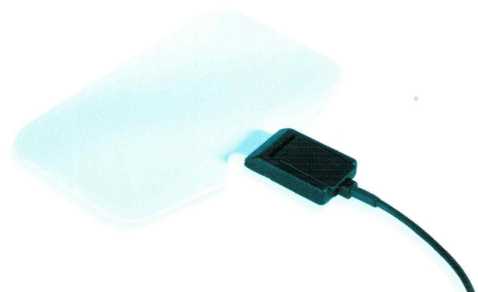


Neutral Electrodes

The large, self-adhesive and HF-compatible neutral electrodes with an active size of 136 cm² are excellent for radio frequency lesion. The neutral electrode cable is connected via a connecting clip.

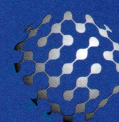
Neutral Electrodes		
Item no.	Feature	Packaging unit
500990	Neutral electrode cable	1 pc
500991	self-adhesive	Set of 5

Neutral electrodes



Connecting cable for disposable TherMedico Thermocouples

Item no.	Description
503788	TherMedico adapter cable



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