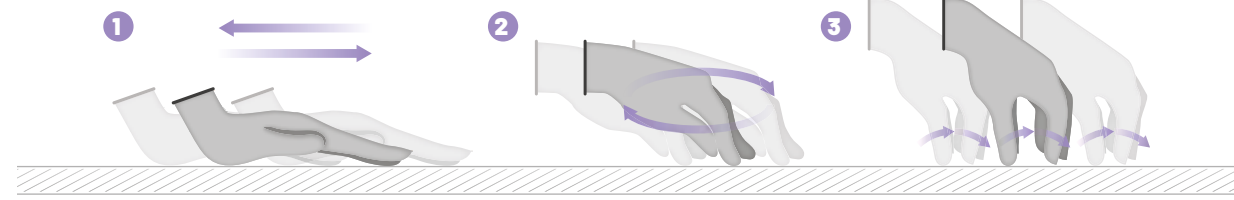
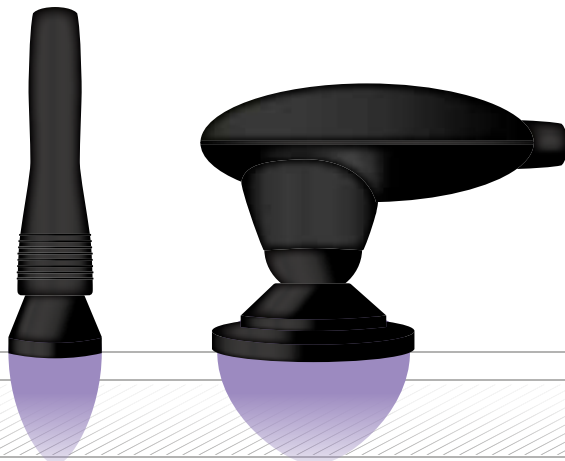


## GLOVE CONDUCTIVE ELECTRODES

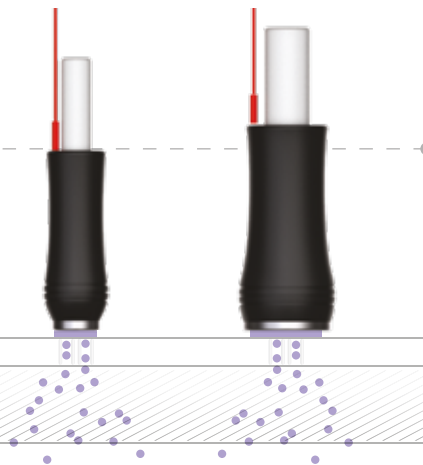
The technology uses special electro-conductive gloves in silver fibre, which are used to induce bio-stimulation with various physical and biological actions. The technology works by making parts of the body interact with electric currents having specific characteristics, suitably chosen on the basis of the physiological actions to be elicited. The main effects that can be obtained are: **excitomotor, thermal, analgesic, trophic and chemical effects**. Thanks to the **synergy between technology and manual massage techniques**, the Operator will be able to use their knowledge to "customize" the treatment, amplify its therapeutic performance and obtain an optimal result while reducing fatigue and physical effort.



The two transducers for Diathermy are perfectly ergonomically shaped for them to be light, handled easily and effective even for physiotherapeutic treatments that require maximum precision.



The synergy between Electroporation and other technologies makes it possible to achieve the desired therapeutic objectives in a much shorter time than with traditional methods.



Certified MEDICAL DEVICE in compliance with Directive 2007/47/EC amending Directive 93/42/EC

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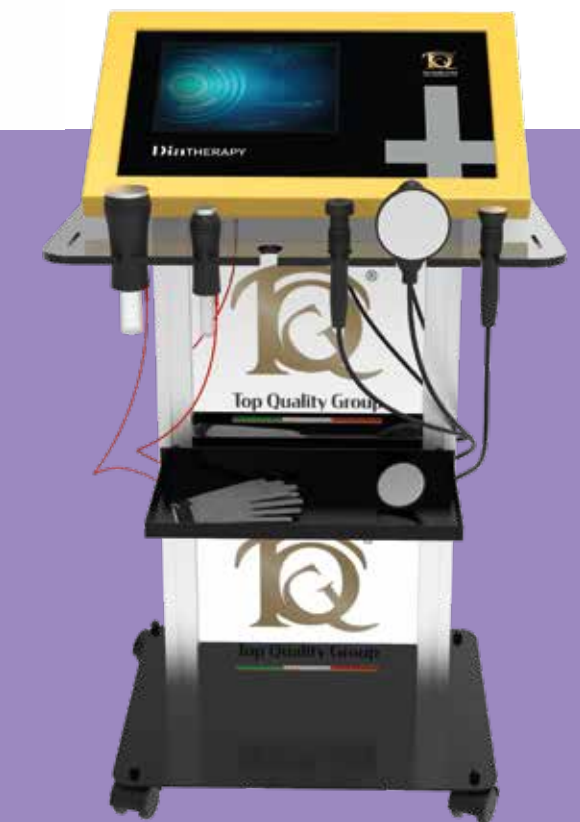


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# DiATHERMY



CAPACITIVE AND RESISTIVE DIATHERMY,  
GLOVE CONDUCTIVE ELECTRODES  
AND ELECTROPORATION TO TREAT  
**PHYSIOTHERAPEUTIC INDICATIONS**



# DiATHERMY

# DIATHERMY

To offer advanced solutions and equipment to treat several physiotherapeutic indications. This is one of the objectives that Top Quality Group pursues thanks to the significant technical potential and through its constant investment in Research & Development of new technologies, such as Diathermy.



## CAPACITIVE AND RESISTIVE DIATHERMY

This avails of the therapeutic principle based on the induction of heat for a certain pre-established region of the human body. The "heating-energy" is not applied from the outside, but it causes an "appropriated bio-physic condition" aimed at inducing **endogenous heat**; This said therapeutic action provides two synergetic effects:

- The energy potential of the cell membranes increases;
- The deep temperature (endogenous) rises, not through the transfer of heat but due to an induced physiological increase.

The generated endogenous heat acts with a selective **biostimulation of atrophic tissues** by triggering physiological responses of improvement; From the very first application, the tissue stimulation already produces a significant reduction of the symptomatology, it increases blood circulation, it increases oxygen tension in the treated area, it generates vasodilation, it reduces muscle contractures, it promotes the reabsorption of oedemas.

Acting to a "software level" the technology offers the possibility to change and modulate, according to the effective exigencies of the patient, the modalities of functioning:

- **Capacitive** • **Resistive** • **Monopolar** • **Bipolar**.

## ELECTROPORATION

This innovative method makes it possible to **transdermally transfer** allopathic, homeopathic, homotoxicological active ingredients or platelet-rich plasma (PRP) in a **non-invasive** manner. The application of a particular electrical impulse on a biological surface causes a temporary increase in tissue permeability. This promotes the **transcutaneous absorption of active ingredients with controlled release at a preset depth**. A higher concentration is achieved only on target areas, with lower systemic absorption and a subsequent decrease in "toxicity". In fact, this is a "virtual" syringe that is able to inoculate the active ingredient specifically where it is needed.

### SUPPLY

- N.01 power cable
- N.01 small diathermy transducer
- N.01 large diathermy transducer
- N.01 head for bipolar diathermy
- N.03 heads for monopolar diathermy
- N.01 elastic band
- N.01 steel plate
- N.01 steel plate cable
- N.01 cable for electroporation
- N.02 face and body electroporation transducers with syringe
- N.01 medical electroporation transducer connection cable
- N.01 buckskin plate for electroporation
- N.02 connection cables for buckskin plate for electroporation
- N.01 electro-conductive glove

### TECHNICAL SPECIFICATIONS

- Power supply 100±240 V, 50±60 Hz
- Max power consumption 450 W
- Electrical safety class II BF
- Protection rating IP IP40
- Max RF output power 150 W @ 50 ohm
- RF emission frequency 500 kPlz, 1000 kHz settable from software
- Type of emission Capacitive/Resistive
- Monopolar / Bipolar functions
- Max electroporation voltage 120 V @ 1000 ohm
- Electroporation impulse freq. 1±3000 Hz, settable from software
- Complex electroporation wave shape, settable from software
- 10.1" colour touch screen with embedded PC
- Operating temperature 0±40 °C
- Operating humidity 30±75% without condensation
- Dimensions L 45 x H 96 x D 41 cm
- Weight 7 kg

## TRANSDUCERS



## PLUS

- Feedback of the impedance of the treatment area to adapt the treatment parameters to the individual conditions of the patient.
- Possibility of setting two frequencies through the software: 500 kHz for pathologies at a greater depth and 1 MHz for more superficial pathologies.
- Possibility of setting monopolar or bipolar mode on large areas through the software without changing transducer.
- Possibility of setting capacitive or resistive mode through the software without changing transducers.
- Capacitive transducers without epoxy coating.
- Possibility of sterilising the transducer for electroporation in autoclave.
- All of the parameters are displayed on a 10.1" colour touch screen and the software is designed according to the Friendly Human-Machine Interface [FHMI] concept to make it intuitive and easy to use.

## AVAILABLE TREATMENTS

- Pre-set** programmes according to pathologies and areas.

### OSTEO-CARTILAGINOUS PATHOLOGIES

- CONTUSIONS
- DISTORTIONS
- ELONGATIONS
- ARTROSIS / ARTHRITIS
- PERIOSTITIS
- FRACTURE STRESS-CAUSED
- ESTABLISHED FRACTURES
- SESAMOIDITIS
- OSTEOPOROSIS
- DISCOPATHIE

### MUSCULAR PATHOLOGIES

- CONTRACTURES
- CONTUSIONS
- FIRST STAGE LESIONS
- SECOND STAGE LESIONS
- MYOSITIS
- ELONGATIONS
- SEROUS BURSA AND BANDS**
- BURSITIS
- FASCIITIS

### TENDONS PATHOLOGIES

- TENDONITIS
- PERI-TENDONITIS
- TENOSYNOVITIS
- IPORTIONAL TENDONITIS
- DISORDERS
- TENDINOSIS

### NEURAL PATHOLOGIES

- NEUROMAS
- CANALICULAR SYNDROME