

Imperium[®]

diatermologie[®]



MED
400

DIATERMOCONTRACTION
AND VIBRATION *

*International patent

ACTING IN DEPTH
MAXIMUM EFFICACY

IDEAL FOR POST-SURGICAL
TREATMENTS

In more than 30 years of experience and work, we have seen the satisfaction of our clients grow year after year. Today with a continually increasing supply of products, an ever increasing turnover, Brera Medical Technologies is a splendid expanding reality, in continuous research of professional and always more qualified figures, with ideas that are always more innovative, with continual ambitious aims, and with the precise scope to create opportunities and benefits for everybody.

Origin: the strength of an intuition

Intuition is the strength of imagination, the origin of which an idea is created, a secret that is revealed. Intuition is the capacity to anticipate the times, the power to modify destiny. BRERA was born out of intuition.

SCIENTIFIC RESEARCH: INNOVATION IN ORDER TO GROW

A fundamental column of BRERA is the activity of research, carried out by a close internal team in collaboration with Universities and private institutes. Development and innovation lead the research to the needs of the clients, right until the product is finalized, always in respect of the maximum satisfaction of the client.

DEVELOPMENT: AT THE SERVICE OF WELLBEING

The synergy of the human resources enables to transform the research into projects that, through the different productive phases, become solutions, ready for the market. Our company is regularly certified in respect to the ISO 9000 norms, this guarantees the various company processes among which: development, industrialization, production, final inspection and shipment, that take place with respect to a continuously monitored quality standard.

COMMUNICATION: THE POWER OF INFORMATION

A constant formation of human resources, continuous training of technical staff, integrated communication, participation at the most important national and international fairs and congresses, aimed publicity, are the activities on which the rapid expansion of BRERA in the world, is based.

TECHNOLOGY AND DESIGN

Brera Research Lab is the heart of BRERA and a fundamental part of its history. Technology and rehabilitation was the principle inspiration of the first physiotherapy line. Today Brera measures itself with vaster horizons, accepting challenges and seizing opportunities in different sectors. We aim to apply the medical science to global well-being.

TOGETHER IN THE WORLD

The internationality of the group is the quality that has characterised it for a long time. Its products are present in more than 20 countries in the world. The capacity to communicate with different cultures is synonymous of a vision of the global market without frontiers. Brera looks ahead even in the fulfilment of the extent of the products that it intends to offer the public and also the number of services offered to the client. The development does not stop. In the future there will be devices that are even more efficient and innovative, commercial offers that are always more competitive and a complete assistance to all clients through the direct owned Brera subsidiaries.

diatermologie®



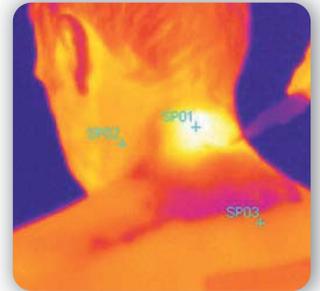
Diatermologie is the new frontier that studies and exploits the curative effect of the heat and unlike other forms of thermotherapy acts in depth because the heat is generated directly within the biological tissues.



This form of energy produces therapeutic effects not only with the heat but also through its bioelectricity. In fact, even in athermal, has the ability to reactivate the cellular metabolism and eliminate the toxins, accelerating the healing process.

Diatermologie is widely applied in physiatric medicine, sports and orthopedic medicine, rheumatology and aesthetic medicine.

Due to its physical principles, the **Diatermologie** demonstrates the capabilities of RF electromagnetism of penetrating biological tissues from the surface down to deeper layers, as well as any form of physical therapy, exercising its effectiveness in different parts of the body such as muscles (muscular diatermocontraction), adipose tissue (lipolysis), connective tissue (collagen regeneration), skin and bones (eutrophic and repairing), the vascular tissue (vasodilation and capillarization) through its action on the pain, on the tissue tropism, on the inflammation, on vasodilatation, on the muscle strength.



IMPERIUM MED 400 ADVANCED BIOMEDICAL TECHNOLOGY



This technological marvel represents the latest invention born at Brera Medical Technologies.

It belongs to the Imperium line, a family of highly technological devices for physiotherapy treatments in medicine. The Imperium Med 400 works through the emission of energy flows (radiofrequency) of high intensity (400 watts) that develop endogenous heat.

It is characterized by a technologies uncommon in its kind, protected by patents, which synthesizes, thanks to its high power output and the modulation possibilities of its electromagnetic flow both in intensity and frequency, its exclusivity of application broadening the fields and methods of it.

This equipment comes from a choice of intelligent energies able to give a reliable therapeutic effect, having been designed to activate, accelerate and amplify the effects of intra- and extracellular on human tissues releasing them from dysfunctional and pathological conditions.

The characteristic of this device is its wide range of application, thanks also to its large number of accessories that integrate it, encouraging the application of diathermy energy or painful, dysfunctional and dystrophic conditions.

- **Endogenous Thermotherapy (diatermy)**, by energy transfer inside the tissues in capacitive and/or resistive mode.
- **Striated and smooth muscle contraction (patented)**, combined or not with the action of thermotherapy.
- **Mechanical vibration in combination (infrasound).**

Imperium®



OPERATIVE MODE

Imperium Med has different ways of working that identify different modes of therapeutic applications able to enhance the effectiveness of the therapy session and identify a selective indication of the pathology.

Diathermy* in: athermal, hypothermia, hyperthermia

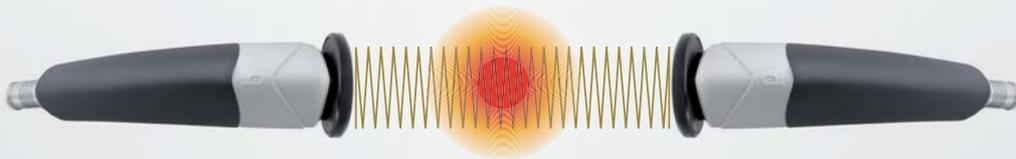
Diathermy and Vibration*

Diathermy, Vibration and Muscular Contraction*

Diathermy and Muscular Contraction*

Contraction in different application methods:
sport, fitness, beauty, vascular, rehab, relax
or customized.

*Patented system





MED
400

IMPERIUM MED 400: ACTION AND EFFECTS OF DIATHERMY

Pain Releasing Action

Analgesic and desensitization with effect the reduction of the sensitivity on trigger points, deactivation of nociceptors, increased production and release of endorphins and increase of the pain threshold.

Neurotrophic Action

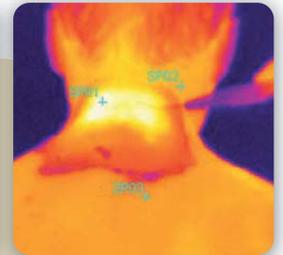
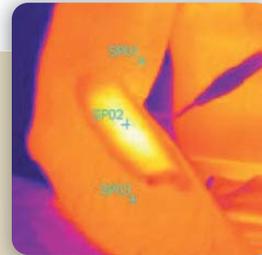
Regenerating and repairing effect on all types of tissues with increased permeability and cellular osmolarity, metabolic activation and removal of catabolites, resulting in anti-edema and anti-inflammatory response.

Neuromuscular Action

The effect of hyperaemia is proportional to the amount of energy delivered with consequent increase of bloodstream, lymphatic drainage, increased oxygenation of tissues and cell metabolism.

Neuro-Vascular Action

The effect of hyperthermia is proportional to the amount of energy delivered and thereby increasing the circumferential bloodstream, lymphatic drainage, increased oxygenation of tissues and cell metabolism.



FIELDS OF APPLICATION **diatermologie®**

Physical medicine and rehabilitation

- Orthopedics and Traumatology
- Sports Medicine
- Rheumatology
- Neurology
- Vascular Surgery
- Dermatology

Aesthetic rehabilitation Plastic Reconstructive Surgery

- Skin tissue
- Muscle tissue
- Vascular tissue
- Adipose tissue
- Connective tissue

Beauty Applications

- Facial Aesthetics
- Body Treatments
- Fluid retention
- Acne
- Muscle aesthetics
- Hypotonia



A unique feature of Imperium Med 400 is its ability to select on each handpiece a vibropercussion mode. This helps to amplify and activate the microcirculation with an endothermic massage and a uniform deep heat production without an heat peak effect in the tissues (as demonstrated by laboratory tests), and capable of amplifying the biological therapeutic effects. Great versatility and expandability was achieved by the concept of a single cable with a pressure connector (plug & treat).



The device is equipped with the TSL (Thermis Saturation Level) a system of thermal saturation. Each handpiece is able to detect changes in temperature increases until it reaches the target temperature limit programmed. This device is useful to detect that exact amount of electromagnetic energy was applied as intended by the pre-selected program.



If required you can connect the handpieces for ultrasound energy supplies at a frequency range from 40KHz to 1MHz for targeted therapies.

ACTUATORS diatermologie®



CAPACITIVE
ELECTRODE CONVEX



RESISTIVE
ELECTRODE CONVEX



CAPACITIVE/RESISTIVE
Multiaction ELECTRODE



RF-BOX-THERMO GYM
for automatic treatments



RF T-POINT
ELECTRODE



TRADITIONAL
RF-CAPACITIVE
for thermic
manual massage



TRADITIONAL
RF-RESISTIVE
for thermic
manual massage



LOW FREQUENCY
ULTRASOUND HANDPIECE
(CAVITATION)



1MHz ULTRASOUND
HANDPIECE
(optional)



ELECTROPORATOR
(optional)

TECHNICAL SPECIFICATIONS

- Capacitive Power 400 W max
- Resistive Power 400 W max
- RF Frequency from 300 KHz to 1 MHz
- Dimensions: 48x43x22cm
- Weight (excluding accessories): 14 Kg
- Color display 5.7 inch TFT with 320x240 pixel resolution
- Foot pedal
- Options and power level can be selected using keyboard membrane and control knob from the equipment
- Protection from static shock
- Protection against accidental short circuits between the neutral plate and electrode
- Equipment Classification IIa
- Classification for electrical safety classification I, type BF

brera[®]

medical technologies



Brera Medical Technologies is an Italian company that over 30 years researches, develops and manufactures medical devices for physical therapy. Imperium Med 400 is the latest innovation and was selected by professional teams in different sports.



Everton F.C. (football team) Premiere League

was chosen by the team Everton F.C. in Premiere League to assist medical staff in physiotherapy and sports injury rehabilitation.



2012 (cycling team) Colnago - CSF inox

was chosen to assist medical staff in physiotherapy and sports injury rehabilitation.



2013 (cycling team) Bardiani valvole - CSF inox

was chosen to assist medical staff in physiotherapy and sports injury rehabilitation.



many have chosen us ...

to assist medical staff in physiotherapy and rehabilitation in the activity of all the sports.

CONTACT US NOW

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brera[®]
medical technologies



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MADE IN ITALY

COMPANY WITH CERTIFIED QUALITY MANAGEMENT SYSTEM

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