



For a **fast,**  
**effective**  
**recovery,**  
choose

**CRYCOULTRASOUND**



**INFLAMMATION  
CONTUSIVE TRAUMAS  
MUSCULAR INJURIES  
TENDINOPATHIES**

**CRYO**  **ULTRASOUND**

**TO REDUCE  
RECOVERY  
TIMES!**



### Cryoultrasound™

Cryoultrasound™ is an innovative electromedical device that exploits the synergy of two therapeutic techniques combined together:

**cryotherapy** and **ultrasound**.

The combined action of these two technologies has a strong **analgesic and anti-inflammatory** effect, revealing itself to be particularly effective in the treatment of muscular injuries and tendinopathies, even at the **acute, sub-acute or chronic** stage.

**“ The synergy between  
ultrasound and  
cryotherapy ”**

### WHY Cryoultrasound™?

Treatments with **Cryoultrasound™** accelerate the healing process by interrupting the “pain - spasm - inactivity” cycle.

The synergy between Ultrasound and Cryotherapy strengthens the therapeutic effects of the treatments, resulting in faster recovery times.



## HOW TO USE Cryoultrasound™?

Apply the appropriate cream to the area to be treated and apply the handpiece: proceed, treating the area with small, slow and concentric movements.

Upward movements are recommended for treatment of the legs to encourage lymph drainage.

The treatment is painless and lasts on average about 20 minutes, according to the condition to be treated.

The temporary discomfort caused by the low temperatures is very brief thanks to the anaesthetizing effect of the cold.

The hyperaemia and heat experienced after the treatment only last for a few hours.



## WHEN SHOULD Cryoultrasound™ BE USED?

Cryoultrasound™ is particularly recommended in the field of sports traumatology, orthopaedics traumatology and rheumatology.

Cryoultrasound™ is effective in the rehabilitation of:

- CONTUSIVE TRAUMAS
- STRETCHED MUSCLES
- MUSCLE SPRAINS OF ANY DEGREE
- TENDINITIS AND TENDINOSIS  
in SUBACUTE and CHRONIC FORMS



# CRYO●ULTRASOUND

## The winning combination

Thanks to the dual use of cold and heat, treatments with Cryoultrasound combine the analgesic effect of cryotherapy with the anti-inflammatory action of ultrasounds.

As a result blood circulation and cell metabolism tend to improve, by stimulating toxins' elimination and by speeding up the functional recovery.



**CRYOTHERAPY + ULTRASOUND =**

# CRYO●ULTRASOUND

The combined use of ultrasound and cryotherapy produces mechanical, thermal and biological effects.



# Further information

## CRYOTHERAPY

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Cryotherapy, that is to say cold therapy:

- **increases circulatory activity** thanks to the difference in temperature between the derma and the underlying muscle;
- **tones skin tissue**;
- has an effect known as “**vascular gymnastics**”, alternating phases of induced vasoconstriction with phases of reflex vasodilatation.

Treatment with Cryoultrasound™ can easily be combined with other technologies such as laser and diathermy: **the use of complementary treatments can strengthen the beneficial effects of Cryoultrasound™ making it possible to obtain even better results.**

## ULTRASOUND

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**Ultrasound** consists of high-frequency sound waves that have the following therapeutic effects:

- they generate mechanical action, effective up to a depth of about 3 cm, which consists of a **micromassage that encourages antiedematogenic action**;
- they **increase the amount of collagen and proteoglycans produced** by connective and muscle tissue cells as a result of mechanical stress;
- they **improve circulation and intercellular renewal** thanks to increased cell wall permeability;
- they cause **vasodilatation**, an increased blood flow and **increased cell metabolism** thanks to heating of the deep structures: vibrations generated by the impact and friction of cell and intercellular structures hit by the ultrasound waves have a **thermal effect**;
- finally, upward movements of the handpiece facilitate **lymph drainage**.



## Technical features:

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**MAX ULTRASOUND OUTPUT POWER:** 3 Watt /cm<sup>2</sup>

**OPERATING FREQUENCY:** 1 MHz +/- 5%

**SAFETY CLASS:** 1 type BF

**CRYOTHERAPY:** adjustable up to -10 C°

**WEIGHT:** 30 kg

**CE n°:** 0068

**DIMENSIONS:** 66x37,5x93 cm

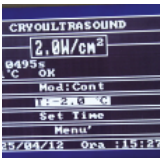
**TRANSDUCER:** piezoelectric ceramic

**DISPLAY:** digital display



### FAST COOLING

Thanks to the new volumetric expansion system that amplifies the performance of the device, the head can be cooled down very quickly and the temperature can be controlled in an optimum manner.



### INTUITIVE MULTILINGUAL DISPLAY

Effective and reliable, Cryoultrasound™ is equipped with a convenient, multilingual, digital display from which a vast range of preset therapeutic protocols can be selected.



### EASY TO MOVE AROUND IN YOUR STUDIO

Occupies a small amount of space and is convenient to use and functional thanks to practical wheels that facilitate its movement.

# MEDISPORT RECOMMENDS

FOR MORE EFFECTIVE **CRYOULTRASOUND™**  
APPLICATIONS USE  
**DIATHERM CONDUCTIVE CREAM.**



## DIATHERM CONDUCTIVE CREAM

Moisturising cream especially rich in minerals that aid its electroconductive properties (doesn't contain paraffin).

**Medical device class I Dir. 93/42/EEC.**

### Notes:

ideal for energy transfer treatments (capacitive and resistive) administered with a suitable electromedical appliance, but recommended for CRYOULTRASOUND treatments as it does not freeze on contact with the head, and will maintain its energy transfer properties.

### Method of use:

Apply to the area to be treated forming a thickness of about 1 mm, adding more cream during the treatment if needed to maintain smooth movements.

# Would you like to know more about Cryoultrasound™?

**CONTACT** our sales office  
They will be happy to answer your questions.

**REQUEST** a free, no obligation quote  
by writing to:

**info@medisport.it**

**SEE** our scientific references on our website  
**www.medisport.it**

**ASK THE EXPERT:**  
send your queries to:  
**expert@medisport.it**



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