

NEW TECHNOLOGY FOR SONO-COSMETIC TREATMENTS

DERMEO

Slimming device based on cavitation effect

CAVIFAST 2 The cavitation lipolysis



Frequency 38 kHz \pm 2 kHz
Highly powerful ultrasounds of 3 W/cm² (RMS)

Autocalibration of the transducers
Analysis system of bio-impedance




Dermeo[®]
Paris

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CEI EN 60601-1
CEI EN 60601-1-2



DESIGNED
AND MADE
IN FRANCE

ORGANISATION

Our researches, our innovations, our knowledge



The Company

With over 10 years of knowledge, DERMEO offers you our technical expertise in the manufacturing of medical devices for optimal clinical results.

DERMEO is involved in the design, the manufacturing, the industrialisation, the distribution and the after sales services of medical devices.

French design and manufacture

Thanks to the quality of our research and development, DERMEO enrolls in a dynamic progression. At the cutting edge of technology, DERMEO selects the best components from French or European origin. All the devices are manufactured in our workshop in Paris.



Quality

DERMEO brings you the expertise of an expert certified ISO 9001. For better security, the CAVIFAST 2 device respects the international medical standards CEI EN 60601-1 and CEI EN 60601-1-2.



Design, manufacturing, industrialisation, distribution, after sales service of medical devices

Innovative non-invasive technology for slimming treatment

TECHNOLOGY



The principles of cavitation

Cavitation is the action of ultrasounds within a liquid environment. When the liquid is submitted to a high intensity pressure ultrasound wave, micro-cavity bubbles are formed and their volume increases until imploding.

The generated thermal energy during this phenomenon and the compressing and decompressing waves, are responsible for the implosion of the micro-cavities.

Ultrasounds

The ultrasounds, also called sound pressure or pressure waves, which frequency is between 15 kHz and many hundreds of megahertz, are elastic waves, which break into compressed waves (positive pressure) and decompressed waves (negative pressure).

The pressure waves phenomenon is diffused by transducers, one concave and one flat, in order to adapt the treatment to the different zones treated.

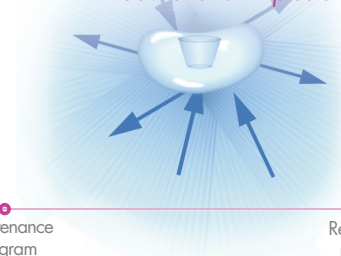
Micro-cavity bubbles
Without cavitation effect



Application of
ultrasounds

Maintenance
program

Multipulsed mode
Cavitation implosion



Frequency
of pulses

Remodeling
program

DERMEO's CAVIFAST 2 combines 2 programs for one optimal action

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Highly powerful system

The power of the transducers is more than 60 Watts for a diameter of 50 mm, which means a power of 3 W/cm² (RMS).

A power of 3 W/cm² (RMS) coupled with a system of pulsed emission is considered as ultrasounds with a high power. Only highly powerful ultrasounds can modify the environment within which they are spread.

Large treatment area

CAVIFAST 2 is provided with handheld transducers with a diameter of 50 mm which corresponds to a treatment area of 19.6 cm². By having a large treatment area, the treatment is performed very quickly allowing to obtain a larger profitability.

An LCD touch screen

CAVIFAST 2 is equipped with a 'resistant' color touch screen of 5.7 inches, which offers the user readability and comfort of working even when wearing gloves.

Transducers ...

A transducer allows the conversion of electric energy into mechanical ultrasound energy. Composed of inalterable piezoelectric material, each transducer is formed of two pieces of ceramic adjusted in order to not overheat. When activating the device, the two ceramic pieces vibrate simultaneously, each at a different frequency, (called resonant frequency) and therefore create ultrasounds.

... indicate ...

The concave transducer (with a diameter of 50 mm) is used for focalized treatment. It works on small areas and treats fibrous cellulite (the skin is dimpled when standing, has a rugged touch, and painful when pinched). The flat transducer (with a diameter of 50 mm) targets edematous cellulite (the skin is dimpled when standing and laying down).

... autocalibrate and endurance

At each start-up, the system autocalibrates the transducers, reajusting the resonant frequency to optimum. Thanks to its coating of anodized aluminum, the treatment head does not undergo oxidation when it comes into contact with the gel.

Bio-impedance

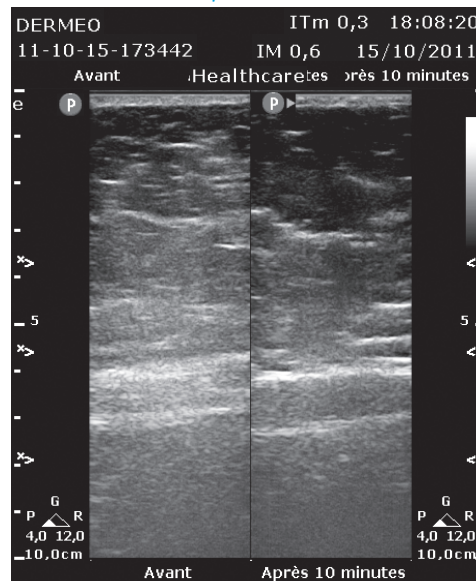
The analysis system measures the body composition by bio-impedance at 50 kHz. This process is used as part of slimming treatment to determine the amount of fat mass. By measuring the body's resistance to a low alternating stream with one or several frequencies, reliable measures are obtained showing the scientific efficiency of the device.



Autocalibration of transducers

Fast and simple loss of centimeters

Tissue ultrasound Before/After 1 session



Clinical Description

The CAVIFAST 2 device allows a decrease in the size of the treated zone by reducing the number of triglycerides within the adipose cells which leads to a loss of centimeters and an improvement in the quality of skin. A considerable change in the aspect of orange peel is observed, thanks to the elimination of fibrous nodules from the cellulite tissue, the improving of oxygenation and the revascularization of the subcutaneous tissue.

Cavitation Slimming

The cavitation principle allows the treatment of excess localised fat and reduces the built-up layers in order to lose centimeters from the treated zone. Low frequency ultrasounds generated by the transducers use the water located in our cells to form bubbles. These bubbles increase their volume until imploding, thus weakening the membrane of the adipocytes and releasing the triglycerides.



1 session

Clinical research performed on voluntary patients, by medical specialist and a clinical researcher.

CLINICAL

Treatment Protocol

The technique of lipolysis addresses the problems of silhouettes and the excess of localized cellulite (the arms, abdomen, thighs, 'love-handles' and buttocks). The technique of cavitation lipolysis is non-invasive, so it allows the customer to return to normal activities immediately after the session. A session can last up to 60 minutes (10 minutes per zone of 10 x 10 cm) and can be attended once a week. On average 5 or 6 sessions are sufficient.

CAVIFAST 2 combines 'remodeling' deep and intense treatment for reshaping the target zones and a 'maintenance' treatment to maintain the tonicity of the skin.

Instant loss of 1 up to 8 cm



A fast and easy to use non-invasive treatment

WORKSHOP

Marketing, sales, legal

Marketing pack



Profitability

Thanks to the CAVIFAST 2 device, you provide to your patients proven results by both medical and aesthetical professionals. The results are visible and measurable after the first session. In context of an expanding market, the acquisition of DERMEO's CAVIFAST 2 device is a highly profitable investment.



Training and Use

A one day training session is provided in order to obtain the required knowledge and skills to practice the cavitationultrasound treatment. The training is split into 2 parts, one theoretical and technical and one commercial and practical.



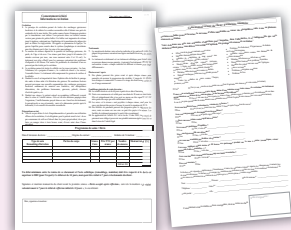
Media Exposure

DERMEO products and treatments receive strong national and international exposure.



Clinical and Legal

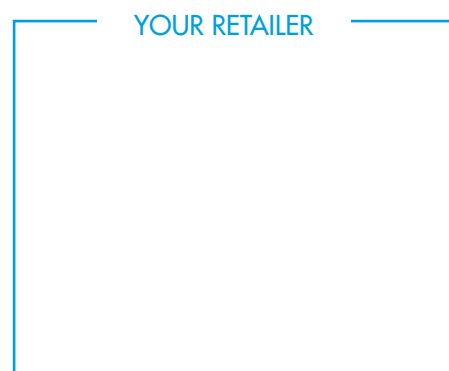
For more information on patients and practitioners protection quote model/consent forms anamnesis are available to operators.



Technical Specifications :

| Technical characteristics | |
|-----------------------------|--|
| Dimension in mm (H x W x D) | 260 x 510 x 440 (without trolley) 1020 x 510 x 520 (with trolley) |
| Weight | +/- 9 kg |
| Electricity supply | 85 - 264 VAC - 47/63 Hz |
| Consumption | 175 Watts |
| Protection category | 1, type BF |
| Conformities | Medical Electrical equipment standards CEI EN 60601-1 CEI EN 60601-1-2 |
| Control Panel | LCD 320 x 240 pixel |
| Keyboard/Screen | Touch screen «Resistant» 5"7 Color TFT |
| Guarantee | 2 years parts and labor within the limit of 500 hours of use for the device |

| | |
|------------------------|---|
| Power of Transducers | 60 Watts or 3 W/cm ² (RMS) |
| Resonant Frequency | 38 kHz +/- 2 kHz |
| Emission mode | Pulsed with active control pulse |
| Transducer dimensions | Ø 50 mm +/- 1 mm (Flat) Ø 50 mm +/- 1 mm (Concave) |
| Maximum treatment time | 60 minutes |
| Number of programs | 2 : Remodeling, Maintenance |



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