A slimming device based on the cavitational effect

CAVIFAST 2 Cavitational lipolysis & lipoclasia



Frequency 38 kHz +/-2 kHz Highly powerful ultrasounds of 3 W/cm² (RMS)

Medical Certification Class IIb Autocalibration of the transducers Bio-impedance analysis system

Proved efficiency and innocuity

A <u>lipolysis</u> (reduction of the volume of adipocytes) by mobilization and removal of glycerol stored in adipocytes.







Paris

Non-invasive <u>lipoclasia</u> (by membrane cell disruption of adipocities) without any alteration on the dermo-hypodermical junction

"The compliance with the essential structures of the skin such as blood and lymph vessels certifies the innocuity of the device " Dr.Boisnic, GREDECO



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Intertek Intertek









JRGANISATION

Our researchers, our innovations, our knowledge



The Company

With over 10 years of knowledge, DERMEO offers you 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.

manufacturing, industrialisation, Designing, distribution, and after sales services of medical devices

French design and manufacturing

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



Quality

DERMEO brings you the expertise of a ISO 9001 and ISO 13485 certified expert. For better security, the CAVIFAST 2 device respects the international medical standards CEI EN 60601-1 and CEI EN 60601-1-2.



Innovative non-invasive technology for slimming treatments TECHNOLOGY



The principles of cavitation

Cavitation is the emission 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

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

Cavitational 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 in volume until they implode, thus weakening the membrane of the adipocytes and releasing the triglycerides.

A study conducted by the laboratory GREDECO, certifies the efficiency and the innocuity of the CAVIFAST 2 device.





Frequency

of pulses

Histological examination of human skin explants conducted by researchers and dermatologist connected to the hospital de la Pitie Salpetriere in Paris, show a non-invasive lipoclasia.

DERMEO's CAVIFAST 2 combines two programs for one optimal result

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Powerful, performant and efficient systems

Technical

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 legibility and comfort of working even when wearing gloves.

A scalable software

The SD card allows easy and fast updates for the system.

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 prevent overheating. 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 suffer from oxidation when it comes into contact with the gel.

Bio-impedance

The analysis system measures the body's composition by bio-impedance at 50 kHz. This process is used as a part of the slimming treatment in order 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

Fast and simple loss of centimeters

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 the skin.

Thanks to the elimination of fibrous nodules, the improvement of oxygenation and the revascularization of the subcutaneous tissue, a considerable improvement

Proven results

The anti-cellulite activity of the device CAVIFAST 2 is confirmed by the cavitational lipolysis observed at hypodermis level for all donors associated with a nearly double increase of released glycerol.

Biochemical dosage of glycerol based on hypodermis fragments of skins of each donor.



Clinical study conducted on volontary patients by the independent laboratory GREDECO at the hospital de la Pitié Salpetrier in Paris



Superficial ; L12-4 ; 18Hz ; 10,0cm 2D Pén ; Gn 40 ; 60 ; 3/3/2

After 10 minutes

Before

µg/g of adipose tissue

 $23,9 \pm 9,0$

 45.54 ± 11.8

* p = 0.01

CLINICAL

Treatment Protocol

The technique of lipolysis addresses the problems of dissatisfying silhouettes and the excess of localized cellulite (the arms, abdomen, thighs, 'love-handles' and buttocks). The technique of cavitational lipolysis and lipoclasia 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 x10 cm) and can be attended once a week. On average 5 or 6 sessions are sufficient.

CAVIFAST 2 combines "remodeling," a 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 a use non-invasive treament

WORKSHOP Marketing, sales, legal

Marketing pack



Profitability

The CAVIFAST 2 device provides your patients with proven results by both medical and aesthetical professionals. The results are visible and measurable after the first session. In the 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 carry out the cavitational ultrasound treatment. The training is split into two parts, one theoretical and technical, and one commercial and practical.



Clinical and Legal

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



YOUR RETAILER

Media Exposure

DERMEO products and treatments receive strong national and international exposure.





Technical Specifications :

Technical characteristics

Dimension in mm ($H \times W \times D$)	260 x 510 x 440 (without trolley) 1020 x 510 x 520 (with trolley)
Weight	+/- 9 kg
Electricity supply	100 - 240 V~ / 50-60 Hz
Consumption	140 Watts
Protection category	1, type BF
Conformities	Electromedical Standards CEI 60601-1 : 2005/2007 CEI 60601-1-6 : 2010 CEI 62366 : 2007 CEI 60601 -1-2 : 2007 oc certificate
Medical certification	Class IIB
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/cm² (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





www.dermeo.com info@dermeo.com 189, rue d'Aubervilliers 75018 Paris - FRANCE Tel + 33 (0) 1 72 98 98 72 Fax + 33 (0) 1 72 98 98 73 ©DERMEO® - Illustrations and information non-contractual. The products and treatments offered by DERMEO® or its distributors may be subject to specific regulations. Also it will suit the user or purchaser of the equipment to check with its distributor and competent authorities on the regulations applicable in the country of use as well as the specific conditions of use of such equipment.