

 OPERATING MANUAL

 LIPOZERO EXCEL

ULTRASOUND



DEAR CLIENT

THANKS FOR YOUR CHOICE AND WE ARE AT YOUR DISPOSAL FOR ANY HELP AND SUGGESTION

The ultrasound devices are produced by:

DOMINO s.r.l.
31020 San Vendemiano - TV
Tel. (+39) 0438.793052
Fax. (+39) 0438.796463
E-Mail: info@domino.tv.it

GLOBUS product:



Lipozero EXCEL

is distributed by:

GLOBUS ITALIA S.r.l.
Tel. 0438.7933
www.globusitalia.com
info@globusitalia.com



This product has been produced by :
Domino s.r.l. - E-mail: info@domino.tv.it-
Phone: (+ 39) 0438.793052
Fax: (+ 39) 0438.796463
31020 San Vendemiano - Treviso



Attention: read the instruction with attention

SUMMARY

Summary.....	3
Accessories.....	4
Contraindications.....	5
Warning	
Care instructions.....	6
Taking care and cleaning the device	
Maintenance.....	7
Warnings about the use and the cleaning of the diffuser	
Application mode	
Technical features.....	8
Check of the head of treatment	
Replacement of handle and/or head of treatment for ultrasound	
Connection to wiring.....	9
Connection to wiring	
How to charge the batteries	
Disposal of apparatus and probe	
Keyboard description.....	10
Warning and information for first use	
Using the apparatus.....	11
Practical use	
Turning ON/OFF	
Starting program.....	12
How to start the program	
Pausing the program	
How to stop the program	
How to change the phase time	
Increasing and decreasing the preentered power	
Modification of power measurement unit display.	
Alerts.....	13
New programs.....	14
How to create a program	
Setup.....	15
Intended use and applications.....	17
Special FITNESS and BEAUTY applications	
Special SPORT applications	
Action Mechanism of the ultrasounds.....	18
Application methods.....	19
Direct contact method	
Immersion method	
Program list	20
Frequently asked questions.....	21
Guarantee conditions.....	22
Some areas to be treated.....	23

ACCESSORIES

Accessories:

- a. 1 diffuser
- b. Bag for transport
- c. Battery charger (See technical features)
- d. Operating manual complete of guide for treatments
- e. Unit GL SD2
- f. Warranty coupon
- g. Gel
- h. Diffuser support

This ultrasound device is supplied complete with diffuser, It is therefore necessary to check that the basic equipment is complete. If some elements should be missing immediately, contact the authorized reseller. Control with care the integrity of device and diffuser.

All the supplied information can be modified without previous notice.

STANDARD SYMBOLS

The marks indicate that the apparatus is compliant to EC medical norm, class I.

A- Manufacturer

B- Technical Data

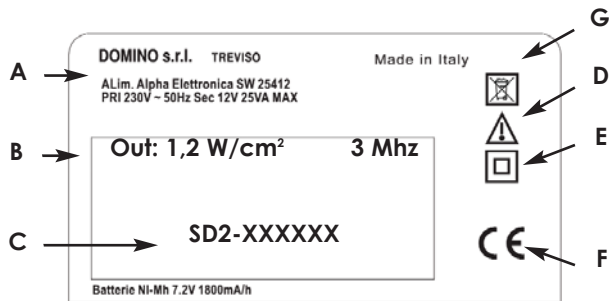
C- Model and Serial Number

D- Attention, refer to the attached documents.

E- Double insulation

F- EC mark

G- The symbol represents the separate collection of electrical and electronic apparatus.



The external power supply unit is class I.



CONTRAINDICATIONS



Don't use the ultrasounds in the following cases:

- Thrombophlebitis: ultrasounds could cause the breaking of embolus.
- Areas suffering from acute sepsis the ultrasound could diffuse the infection.
- The radio therapy produces a contrary effect on tissues, for this reason ultrasounds have not to be used on areas subjected to radiations. Use ultrasounds at least 6 months after the last application.

Don't in case of tumours, ultrasounds can get worse your state and create metastasis.

- Don't use ultrasounds during the pregnancy they could cause fetus damages. The Ultrasounds used during the pregnancy as diagnostic instrument, is different from that used for therapeutic aims.
- Patients with pacemaker should not be treated with ultrasound on thorax or column because the generator can have bad effects on the pacemaker functionality.
- Don't use ultrasounds on prosthesis and osteosynthesis material.
- Don't use in areas where synthesis of endo-tissue (for example plates entered after surgical operations).
- Don't use on children under 15.
- Don't use on organs such as ovaris, heart, head etc.
- Don't use in case of fever.

Warning

- the apparatus is suitable for non invasive use
- the device must be used exclusively on undamaged skin.
- It is advisable not to use the apparatus together with other electronic equipment above all those used for support of vital functions
- Read the manual carefully prior the use; keep this manual with care.
- In case of health problems seek your doctor before using the ultrasound
- Check the device integrity before any use. This is an indispensable condition to carry out the treatments; don't use the unit if some defects or bad workings of switches should occur.
- The unit should be only used for the foreseen treatments, use it as stated in the operating instructions
- The unit must be used only with the supplied diffusers and following therapeutic modality described in this manual.
- The user must keep the device out of reach of children or people with mental competence
- Only producer accessories must be used with this device.
- Don't use the device near inflammables such as anaesthetics mixtures, oxygen and nitrogen potassium. Keep the unit, the cable and diffuser far from heat sources.
- Don't approach the diffuser when fed to any electric or electronic device. Don't approach yourself to electric or electronic devices while you are using the ultrasound.
- Check if the unit is placed on stable supports.

In case of doubts or perplexity, it is necessary to contact your doctor

CARE INSTRUCTIONS

Taking care and cleaning the device



- In case of damage of the covering apparatus, this has to be replaced.
- In case of real or presumed spoilt, do not make any repairs by yourself. Repairs can be carried out only by authorized centres.
- Do not give a shock to the product by clashing, overturning or shaking. It may cause trouble or accident in a long run although no immediate trouble occurs.
- Store the device at a place free from wet areas and water, Avoid installing in places subject to humidity, high temperature, dust or places exposed to direct sunbeam or near to sources of high electromagnetic emission. The device must be used free and not wrapped or covered.
- Don't use thinner, gasoline, kerosene, cleaning powder or chemicals; for cleaning the machine and the cables, it is sufficient a soft lightly humid duster.
- After a long period of non-use, it is advisable to check the correct working of the machine and of the battery. (Contact authorized centres).
- The device is connected to the electricity by means of the apposite feeder. Before the connection check that electric system is complied with the requirements in force in your country.
- Don't take apart the apparatus; there are not parts repairable by the user.
- Don't detach the labels placed on the apparatus
- Don't wet the apparatus avoid installing it at open places subject to rain. Don't use the device after a possible water exposure
- Don't remove the plug from the socket by pulling it; keep the cables out of oils and objects with sharp edges.
- For the maintenance only use original spare parts.
- -The improper use of products and not original spare parts will induce the loss of warranty.
- It is also forbidden the use of this the apparatus in the water (it is not protected against the water seepage). Don't use it in environment where combustible gas, inflammables, or oxygen are present.

MAINTENANCE

Warnings about the use and cleaning of the diffuser

Avoid to use too much aggressive solvents, alcohols or detergents, they could damage the covering, moreover avoid to introduce liquids in the apparatus

Handle with care the treatment head. A not careful manipulation can influence its characteristics.

Don't knot or wind the connection cable.

Don't use the device near spray, liquids or solvents

To clean the device unconnect the diffuser and remove the cream or gel using a soft duster lightly humid; or use a solution composed by the 75% of water and the 25% of denatured ethanol.

After the cleaning dry well and remove any residual of humidity from the diffuser.

Application mode


The air mitigates the ultrasounds, for this reason it is necessary to place a consistent quantity of gel for ultrasounds or a suitable cream for massages between the diffuser and the zone to treat. The diffuser must be perpendicular the zone to treat and it should slightly slide on it without pressing. Sometimes collect the gel or the used cream with the diffuser. In order to avoid overheating the treatment zone it is necessary to always move the diffuser with slow and uniform movements. Before proceeding the application clean the skin accurately and make sure that traces of detergents or other products are not present.

Before starting the program put on the diffuser an abundant quantity of Globus Gel or anticellulite cream.

Start the desired program and put the diffuser on the treatment area and slowly move it with circular movements forward and backward.

Depending on the program a mild vibration or mild heat may be noticed.

TECHNICAL FEATURES

DIFFUSER EMISSION:	Lipozero Excel: at 1 frequency of emission 3 MHz
DIFFUSERS: EMISSION:	Head of Ø 4,4 cm. Continuous, pulsated Duty Cycle: 100%-80%-50%-25%-15%-10%
MAX POWER: Adapter:	2 W/cm ^q AC-DC Power Supply PRI: 230V~50 Hz 1.2 A 276 VA SEC: 18 V - 6.5 A 120 VA MODEL: SWD 120418
Plug:	60 ·  +
Container:	in alimentary ABS
Level of protection of container:	IP 20
Level of protection of handle:	IP 68
Size:	170x220x60
Weight:	460 gr.
Certifications:	Certified CE

Check of the head of treatment

Every time you clean or disinfect the treatment head and at the end of each treatment, check that the diffuser doesn't have fissures that could cause the seepage of the conductive liquid. In case of fissures replace it immediately.

Replacement of handle and/or head of treatment for ultrasound

In case you have to replace the handle or the head of treatment take the product to your reseller or contact the assistance centre to inform about the procedure for the product delivery. A number of returning for the repairing will be communicated (RMA).

Don't replace the parts device by yourself.

CONNECTION TO WIRING

Connection to wiring



The Lipozero EXCEL apparatus function connected to a 220 V electric network.

Do not use multiple plugs or adapters. Connect the device to an efficient and tested socket.

In case of doubt, don't connect the device.

Verify that the current tension corresponds to the voltage and frequency indicated on the apparatus label (a wrong alimentation tension can damage the device). An incorrect connection can be dangerous. Enter the plug in the current socket.

How to charge the battery (Accessory)

The apparatus can be equipped with a Nickel Metal Hydride high performance rechargeable battery pack without memory effect.

When the display indicates that the battery has just $\frac{1}{4}$ of charge left, it is advisable to recharge it.

After turning the apparatus off, connect it to the power supply provided (Globus SWD 120418), by inserting the connector into the relevant socket (see diagram on the following page).

In order to optimize the state of the battery it is advisable to carry out the first 3 charges to the full, and they must not be interrupted for any reason.

A complete recharge takes about 6-8 hours; should the apparatus accidentally stay connected for longer than 72 hours the battery will not be damaged.

Only use the charger supplied with the stimulator. Battery should only be replaced by an authorized centre.

Warning:

During the rechargement the device can be normally used.

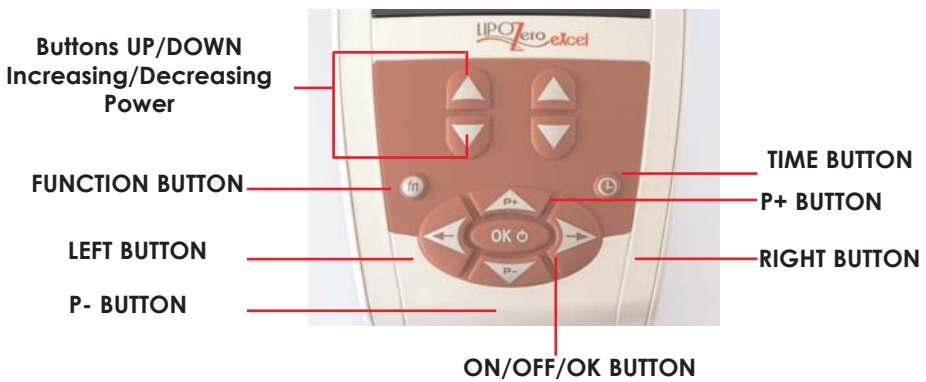
Should the cable or connector show signs of wear and tear you should replace it immediately.



Device removal

Don't throw the device out but recycle or get rid of it appropriately following the removal rules in force in your country.

KEYBOARD DESCRIPTION



WARNINGS AND INFORMATION FOR FIRST USE

Before using the stimulator read the following information:

- Carefully read this operating manual;
- Examine with care the apparatus and its parts to individuate eventual external damages;
- if the control unit is on but no indicators light up on the screen , switch off the device and switch on again. In case the problem still persists, contact the assistance centre without using the machine
- .- The device is ready to be used when the machine animation will appear.
- l- l, immediately after switching on the machine, it switches itself off, it means that the battery pack is present (accessory) and there is not sufficient battery charge for it to be used. It is therefore advised that the apparatus be recharged by following the instructions provided in the section HOW TO RECHARGE THE BATTERIES.

USING THE APPARATUS

Practical use

For a correct use, proceed as follow:

- make sure that the instrument does not show any error lights when switched on.
- connect the diffuser to the special output;

The unit and its accessories must be put back in the special bag respecting the following conditions:

Temperature: 5-45 °C

Humidity: 20-85 %



Switching on/switching off

Connect the apparatus to the electric network.

To switch on or switch off, hold down the On/Off (OK) button until you hear the aural signal.

On switch on the animation is displayed.

PROGRAM LIST

How to select the program

Lipozero Excel

- ➔ PROGRAMLIST
- ▶ NEWPROGRAMS
- ▶ SETUP

By using buttons P+ e P- select **Program List** Confirm your choice with OK.

According to the model the following areas are displayed:

Lipozero EXCEL

- MY PROGRAMS (Area reserved for new programs)
- BEAUTY
- CELLULYSE

Step 1 – Area selection:

By button P+ and P- of joypad, move the cursor on the desired area. Press OK to confirm.

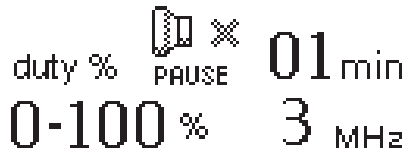
Step 2 – Program selection



By button P+ and P- of joypad, select the desired program and confirm with OK.

STARTING PROGRAM

How to start the program.

When the program is selected the display will show you the following parameters: the name of the program, the symbol indicating if the machine is connected to wiring or the state of batteries, the total time, the duty cycle, the frequency value of the head and the value of the emitted power.



duty %   PAUSE 01 min
0-100 % 3 MHz

Start the program by pressing button OK. To start the program press the OK key and adjust the output power with the Up and/or Down keys.

Pausing the program

You can rest the program by pressing OK of Joypad the power turns to 0 and the time stops. Press OK again to restart the program.

During the pause the message PAUSE will appear on the screen.

How to stop the program

To stop the program hold down the button OK until a beep is heard.

The here below window will appear.

How to change the phase time

To change the phase time, press button TIME press then buttons P+ or P- to regulate the time.

Press button TIME again to confirm.

Increasing and decreasing the preentered power

If you want to increase or decrease the power, use the buttons UP/DOWN (power).

ALERTS

Open circuit

This apparatus has a check of power emission. It is therefore necessary, before starting any treatment, to ensure that the diffuser is connected to the apparatus, it is positioned on the area to be treated and has gel on the probe.



Correct power emission.

The treatment correctly proceeds.



NO CABLE

Cable not connected

Verify that the cable is connected to the right output.



PAUSE

Device in Pause

Push OK to continue.

NOTE:

In case the window of not connected cable should appear verify that the apparatus, the cables and the diffuser are integral and correctly used. If the problem should persist contact the assistance centres.

Overheating alarms:

Red led lights up : means that either the head or the ultrasound are overheating. The machine goes automatically on pause and the yellow Led lights up.

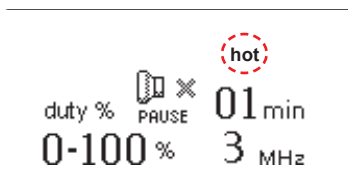
Overheating of the head: add gel onto the head or immerse the head into water to cool it down.

Overheating of the ultrasound: Check that the internal fan is on and wait for the red Led to turn itself off. Then it is possible to finish the treatment by pressing the OK button.

- If the Red led is still on after checking these 2 solutions, turn off the ultrasound and wait few more minutes.

Then turn on the ultrasound. Is the red led still on?
No: the problem is solved. you can start using the ultrasound

YES: contact your service assistance.



NEW PROGRAMS

How to create a program

From main menu select New Programs menu by using the P+ and P- buttons. Press OK, to confirm.



With the P+ or P- buttons, move the cursor on the parameter you wish to modify. Set the required value with the UP/DOWN Power Increase/Decrease BUTTONS.

The settable parameters are:

- Emitted power %
- Treatment duration
- Duty cycle %

With the Left button it is possible to go back to the previous screen. To confirm the parameters, press the OK button.

SETUP

By selecting Set-up you will access the following menus:



sn:XXXXXX

Fw: x.x

- Sonorous warnings
- Auto Turning-off
- Contrast
- Language
- Serial number
- Firmware

Sonorous warnings

If the sound alerts function is activated (ON) the device makes a sound when the buttons are being pressed.

SONOROUS WARNINGS

SONOROUS: ON



PRESS OK TO EXIT

Enabled Mode

SONOROUS WARNINGS

SONOROUS: OFF



PRESS OK TO EXIT

Disabled Mode

It is possible to select one of the two modes by pressing the P+ or P- buttons. Confirm your selection with the OK button.

Auto power-off

It enables to set the time after which the machine, if not used, buttons off automatically.

It is possible to select a value between 1 and 20 minutes.

The selection can be made with the P+ and P- buttons, and confirmed with the OK button.



Contrast



It is possible to change the contrast.

The selection can be made by using the P+ and P- buttons, and confirmed with the OK button.

Language



It allows modification of program and menu language.

The selection can be made with the P+ and P- buttons, and confirmed with the OK key.

INTENDED USE AND APPLICATIONS

Intended Use

Carefully read the user manual in order to avoid incorrect installation, use and maintenance operations which may damage the device, the operator or the user. Magnetotherapy devices are designed to be used for the following range of operations:

- home environment;
- outpatient departments;
- physiotherapy;
- rehabilitation;
- pain treatments;
- cosmetic and sports purposes;

The device may be used by patients themselves (after they have been fully instructed in the use of the apparatus), as well as by medical and paramedical staff.

NOTE: The programs have a pre-set power value (unit of measure Watt. Thus, it is not necessary to adjust the power value.

If, upon your therapist's advice, you wish to modify the work protocol by changing the power, hold the power UP/DOWN button.

Specific applications for FITNESS and BEAUTY

- Applications for the absorption of active substances on face and body.

The program is used for the application of cosmetic agents. The ultrasound facilitates the absorption of oil, fat-soluble vitamins, products with liposome, emulsions and water-soluble agents.

The effect is to increase the permeability of the cells, to diminish the functional barrier works of skin and to increase the activity of channels of the active ingredients.

- Treatment for surface wrinkles and sensitive skins.

The treatment is used to spread and smooth the wrinkles (expression wrinkles). The ultrasound, thanks to its thermic effects, warms the tissues and favours the metabolic and biochemists processes

- Treatment for acne, pimples on face and body.

Beyond an anti-inflammatory effect the ultrasound activates the

fibroblasts that have an important role in the process of

regeneration post-inflammatory. Collagen and the elastic fibres produced after the ultrasound treatment increase the tissues elasticity reducing the possible formation of scars post-acne. It is also possible to favour the absorption of the anti-acne products increasing the effectiveness.

- Treatment anti-cellulite.

The thermic effect allows an action of mobilisation of fat on the treated zone. It is therefore favoured the metabolism of fat and its removal.

Special SPORT applications

- Relaxation of contracted muscles

The relaxation of contracted muscles is due to the thermic effect and to the action of tissues micro-massage induced by the ultrasounds. Ideal to relax stressed muscles and to eliminate the muscular spasms caused by sport activity or injury.

ACTION MECHANISM OF THE ULTRASOUNDS

Mechanical effects:

the mechanical action is due to the movement of particles of the tissues crossed by the ultrasonic wave.

Although the movement endured from single particles is small, the pressure variations that it produces are so considerable to generate important mechanical effects on tissues.

The induced mechanical modifications determine:

- a) acceleration of the processes of diffusion through cellular membranes.
- b) complex molecule division (proteins, polysaccharides., etc).
- c) tissues Micro massage

Thermic effects;

the passage of ultrasounds through "the soft" tissues creates an elevation of the temperature for:

- absorption due to the viscosity,
- absorption due to the thermic conductivity and chemical absorption.

The ultrasounds produce heat through the vibrations, the collision and the friction of the cellular and intercellular

structures that compose the tissues, crossed by the sonorous waves. The thermal elevation generates, as secondary effects, an increasing of the cellular metabolism and vasodilatation.

Chemical effects:

the chemical action with modification of the local ph, the permeability of cellular membranes and with molecular changes is caused by the remarkable forces of acceleration to which particles of the tissues are subjected at the passage of the ultrasonic wave.

APPLICATION METHODS

General application

The therapy with ultrasounds can be given following two different methods: at direct contact , with mobile head and at immersion.

Direct contact method

The modality at direct contact consists on the application of the emission head to a direct contact with skin with the interposition of a substance (usually a special conductive gel) which favours the transmission between the skin and the head, the sliding of the head and the elimination of possible air placed between skin and transducer

who could hinder, for its reflecting capacity, the transmission of the ultrasonic waves.

Immersion method

It is useful when the areas to be treated are too small or irregular or when the zone is so hurting to prevent the direct contact.

The area to be treated should be dipped in a container with water together with the diffuser. The diffuser must be placed at a maximum distance of 2-3 cm from the body surface in order to avoid an excessive dispersion of the ultrasonic beam that could decrease the therapeutic effect. The water temperature has to be of about of 37° the lower the water temperature is the more is the loss of cutaneous heat and the less is the therapeutic effect. The common water has the problem that gas bubbles dissociate themselves from the water, they accumulate on the patient skin and on treatment head reflecting the ultrasound wave. If it is not possible to avoid the use of the common water, it is necessary to frequently remove the gas bubbles from the surface and to

clean up the zone of emission of the head at the end of the treatment.

In treatment with gas water, the ultrasonic power decreases for this reason it is necessary a more elevated dosage. Instead, when you use no gas water the dosage has to be the same as used with the treatment at a direct contact.

RECOMMENDED INTENSITY:

The Ultrasound start with a preset intensity and can reach a maximum intensity according to each protocols. The intensities shown in this manual are the one we suggest for this product and reflect the ones that are mainly used in the known protocols. The physiotherapist is free to use the maximum recommended intensity or to modify it according his needs and to the type of treatments and patients.

Program List

X = Available program

PROGRAM NAME	Lipozero Excel	FREQ. MHz	TIME min.	RECOMMENDED INTENSITY
CELLULITE				
CELU MAX	X	3	20	50 - 100 %
CELLULITE	X	3	20	50 - 100 %
BEAUTY				
MASSAGE	X	3	30	50 - 75 %
SCULPTING	X	3	20	50 - 100 %
DRAINAGE	X	3	15	50 - 75 %
STRETCH MARKS	X	3	25	50 - 75 %
APP. ACTIVE PRINC.	X	3	10	25 - 50 %

FREQUENTLY ASKED QUESTIONS

The low battery indicator is displayed. What should I do?

Connect the device to a 220 V power outlet. This will enable you to continue the treatment.

Can ultrasound therapy cause any harm?

Ultrasounds applications do not cause any harm expect when used in contraindicated cases (see chapter "Contraindications").

If during the program doesn't perceive anything or the light vibration is not always felt, What does it means?

The treated zone is less sensitive but this does not mean that the ultrasound is not effective.

How do I have to use the Head of treatment?

The head of treatment must always slide otherwise the treated area could overheat and cause an unpleasant feeling.

It is therefore necessary to follow the manual indications to use the ultrasounds, on the whole zone stimulating the blood circulation of the treated areas.

Is it always necessary to use the Globus Gel on skin and treatment head?

Yes and the quantity must be sufficient for all the involved area, otherwise the ultrasounds are not transmitted and the head of treatment could overheat losing its effect and above all it could cause unpleasant feelings.

How can I know if the treatment head is working well?

This instrument has an alert system. In case of problems a message on screen will warn you about the error in course. (See paragraph ALERTS).

How can I clean the treatment head ?

To clean the treatment head after each application is extremely important. The Gel or cream residuals, drying, can cause the production of bacterium or moulds and compromise the correct working of the ultrasonic transducer incorporated with the treatment head. To clean it follow the instructions indicated in paragraph "Care instructions"

If the treatment cable should have fissures or the cable should be damaged, can I use them?

Absolutely not!

Is it possible to use ultrasounds during the menstrual cycle?

Interferences such as early or late periods or heavier or lighter flows are extremely subjective and variable. In any case it is recommended to avoid treatments during the cycle and immediately before or after it.

Can I have applications during pregnancy?

NO, these applications are absolutely contraindicated

It is possible to use ultrasounds on children?

NO, it is absolutely forbidden.

I have a pace-maker, can I still use the device?

NO, the use of ultrasound therapy devices is contraindicated for people with pace-makers. Seek your doctor's advice.

How long does it take for the first results to become apparent in the cosmetic field?

The results achieved in the cosmetic field are obviously subjective. Better and quicker results can be achieved if combined with a good physical activity and a healthy life style.

GUARANTEE CONDITIONS

The device is guaranteed to the first user for 24 months from the purchase date against material or manufacturing defects, provided that it is used properly and maintained under normal operating conditions.

In order to take advantage of the guarantee service, the user must comply with the following guarantee clauses:

1.The products to be repaired must be sent by and at the expenses of the customer in their original packages.

2.The product's guarantee is subjected to the production of a fiscal document (fiscal receipt, receipted bill or sale invoice), attesting the product's purchase date.

3.The repair work shall have no effect on the original guarantee expiry date and shall neither renew nor extend it.

4.If, prior to carrying out the repair work, no defects are found, the costs related to inspection times shall in any case be charged.

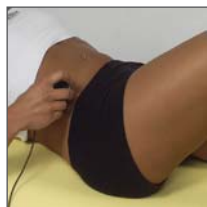
5.The guarantee becomes void where the fault has been caused by: impacts, falls, erroneous or improper use of the product, use of non-original external feeders, accidental events, alteration, replacement/detachment of the guarantee seals and/or tampering with the product. Said guarantee does not cover damages caused during transport when unsuitable packages are used (see point 1).

6.The guarantee does not cover the inability to use the product, other incidental or consequent costs or other expenses incurred by the purchaser.

Note: Before returning the device for repairs, we recommend to read carefully the user instructions contained in the manual. In case of any faults caused to the device, refer to your dealer. The manufacturer reserves the right to make all necessary modifications at any time in order to improve the appearance and quality of the product.

The size and features described in this manual may differ and are not binding. The manufacturer reserves the right to make modifications without notice.

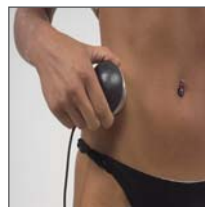
SOME AREAS TO BE TREATED



working position



working position



working position



working position



working position



working position



working position



working position



working position

GLOBUS ITALIA S.r.l.
via Vittorio Veneto 52
31013 Codognè - TV-
E-mail: info@globusitalia.com