

BLACK LIGHT THOR



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lighting

ELISIUM 3000



MOLECULAR ELECTROPORATOR

Principle of operation

ELISIUM3000 Molecular Electroporator is a device that allows the delivery of active ingredients dispensed through a handpiece.

Ionophoresis treatments allow localized administration of medicinal substances through the skin layers. The transport of pharmacological ions is indicated in all acute inflammatory forms, sprains, bruises, hematomas and in the pathologies of the musculoskeletal system. Recent studies have shown the different ability to penetrate pharmacological quanta.

The prevailing therapeutic effect depends on the specific action of the introduced medicament, however the vasodilation induced by the pulsed electric current in frequency and amplitude sensitively facilitates the absorption of the medicament ion.

Its versatility makes it particularly indicated in the following treatments:

- Physiotherapy
- Pain therapy
- Sports medicine.

and also in the field of aesthetic medicine such as

- Anti-cellulite treatments
- Anti-wrinkle treatments
- Stretch Marks
- Keloid reduction
- Non-invasive lifting

The treatment is carried out by means of a hand piece and a rubber-like plate with a high conductive power, between which the affected part is interposed, thus being traversed by a weak modulated electrical current.

It is equipped with electronic controls to detect the correct connection of the outputs for patient safety.

The microprocessor manages a small keyboard with only 5 keys with which it is possible to program the treatments and related parameters very simply, displaying each operation via a graphic display.

Programming is therefore "guided" by the device itself and does not require special learning by the operator.

Treatments with voltage impulse half-wave, with a triangular envelope amplitude, are provided.

The appliance must be installed and used only in premises for medical use, prepared, according to the law, for the effectiveness of the therapies provided.

These environments must have electrical systems built and checked periodically in compliance with the laws, regulations and safety regulations in force (in Italy: law No. 46/90 and safety standard CEI 64-8 section 710).

Instructions for Use

Electrophoretic Molecular delivery with the ELISIUM3000 device produces the following effects:

- Relaxation of muscle spasm;
- Treatment for epidermis sanitization;
- Increased toning of the epidermis;

Before starting the programs, prepare the treatment product by adding the carrier for the specific treatment to the vial of the product.

It is recommended only the use of products supplied by the distributor with warranty seal, since the use of unsuitable products may lead to incompatibility with the appliance.

- Fill the syringe, then place it in the housing provided on the handpiece (see Fig. 1).
- Place the large plate electrode with a sufficient amount of conductive gel over the entire surface that will come into contact with the body.
- At this point the treatment can start keeping the surface of the handpiece adherent to the skin surface to be treated. Press the button to release a small amount of product, spread it and let it penetrate. When the part affected by the treatment is reduced, press the button again.



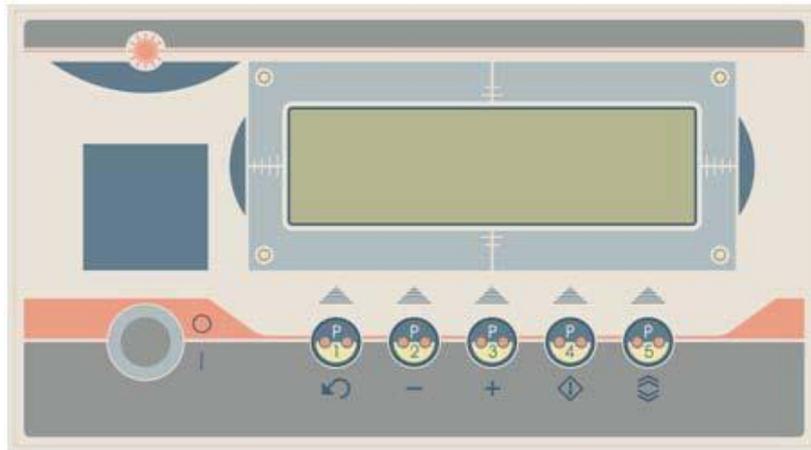
fig. 1

- Do not lower the times of applications foreseen by the programs, to give the necessary time to

the products to act.

- For all treatment programs provided by the equipment (except for the "wrinkle program") a treatment of 20 minutes a day twice a week is recommended.
- For the "wrinkle program" a 14-minute treatment is recommended twice a week.

Commands, Controls and Views



LEGEND OF PANEL COMMANDS AND CONTROLS

- 1 POWER Main switch with key to switch the appliance on and off.
- 2 P1-P2-P3-P4-P5 Function selection keys shown on the LCD (liquid crystal display).
- 3 LCD DISPLAY Displays information on the use of the appliance.
- 4 OUT 1 Connection for the part applied to the patient (electrodes and handpiece).

After a few seconds of waiting, the appliance automatically positions itself in the main menu of the system:

- Scars>
- Cellulite>
- Muscle>
- Wrinkles>
- Pain therapy>
- Depth free> Time [20:00]

The time of each treatment is already established.

If you want to change it, scroll the cursor to TIME, then press P2 or P3 to change the values in minutes.

Press the P4 key to scroll the cursor down to select the treatment concerned, then confirm with P5 and confirm again to go to the next screen.

The desired therapy has been selected and the relative menu is displayed to set the treatment power expressed in percentage points in the desired channel.

The P4 key allows to switch to the set therapy by starting the treatment time count and at the same time the EMISS writing will be highlighted (EMISS) accompanied by a timed acoustic signal (BIP) during the whole treatment.

Make the intensity adjustment with keys P2 and P3 after the EMISS icon will flash.

The value of the intensity (variable in percentage from 0 to 100) regulates the output voltage which can thus vary from 0 to 5V_{eff} and therefore the output current will vary from 0 to 10 mA (assuming for the part involved between the handpiece and the plate the value of resistance $R = 500$ ohms)

If pressed again, the P4 key stops both the Tempo and the Emission. Pressing it again will restart the suspended program (Time and Emission).

At the end of the treatment an acoustic warning will signal the automatic detachment.

N.B. The action on the P1 key allows the return to the main menu for a new selection.

Safety and Guarantee

The security of the hardware and software system is guaranteed through a system of updating and protection using a coded chip, supplied by the parent company.

The instrument warranty is two years, extendable for another three years, with an insurance-type guarantee extension.