

microderm[®] 2000

The blood vessels in the skin surface treated with galvanic current dilate and blood flow is stimulated. Oxygen and nutritional supply to the cells improves, as well as the removal of waste materials and skin functions. Owing to the vasodilating effect, the speed of absorption of active ingredients may be multiplied. As a result of these, the iontophoresis device has been pertaining to the "basic devices" for decades. Though the use of iontophoresis has been limited by the appearance of ultrasound, but even today, the iontophoresis devices can be applied the more effectively to take in water-soluble, charged ingredients.

However, the use of galvanic current has various side effects as well: it causes the migration of ions in the cells, which tilts over the normal equilibrium of ions in the cells and alters their charge, beyond that causes a shift of the skin pH value. With the exception of the fact that we use this effect during the deep-cleaning (desincustration), this is to be seen as a non-desirable side effect of the iontophoresis treatment, exceptionally because these changes influence the intake of active ingredients and cause itching.

Another side effect of the use of galvanic current is the stimulation of the nerves responsible for vascular reactions. The blood vessels in treated area dilate, thus skin types prone to reddening (rosacea) must not be treated with galvanic current.

Autopolar[®]

We have developed a new form of current which keeps the advantages of galvanic current but eliminates its side effects. Therefore the microderm[®] 2000 throws new light upon the cosmetic treatment done with galvanic current.

The new form of current, the so-called autopolar[®], which:

- is a modified version of direct current, a special type of current controlled by computer
- restores the original charge of the cells
- makes iontophoresis more effective
- prevents reddening of the skin
- prevent the shift of pH

Iontosoft

During galvanic treatments with traditional instrument, when the contact between the handpiece electrode and skin is interrupted, the client experiences a mild electric shock. This inconvenience is well-known by the beauty salon-goer clients, thus many people are reluctant to treatments done with current. Our own development, the iontosoft patient protection electronics integrated in the microderm[®] 2000 monitors the contact between the skin and the handpiece, and immediately intervenes if the contact is broken down. When the beautician touches the skin with the electrode again, the device slowly and gradually restores the output to the preset value. Due to these new technical solutions, those clients would come back as well that before have shrunk back from the iontophoresis treatments.



11 treatment programs

■ FINE GALVAN

Fine treatment with galvanic current

Skin stimulating treatment with low amperage

■ DESINCRUSTATION

Deep cleaning

Traditional skin cleaning process with the help of galvanic current

■ IONTO GALVAN

Iontophoresis with galvanic current

"Traditional" intake of active ingredients with direct current.

■ IONTO AUTOPOLAR

Iontophoresis with autopolar® current

Intake of active ingredients with the new, fine form of current

■ MICRO LIN

Micromassage at constant speed

Indirect electro-cosmetic method without direct electric effect: the micromotors of the handpiece cause a fine vibration, with which massaging the skin we practically hammer the active ingredients into the skin.

■ MICRO MOD

Micromassage at changing speed

Indirect electro-cosmetic method without direct electric effect: the micromotors of the handpiece cause a fine vibration. The handpieces oscillate at a continuously changing speed, which causes a feeling similar to that of a reflexzone massage.

■ MICRO GALVAN LIN

Iontophoresis with galvanic current and micromassage at constant speed

Combined treatment: "traditional" method of intake of active ingredients done with direct current accompanied by the oscillation of the handpieces at constant speed.

■ MICRO GALVAN MOD

Iontophoresis with galvanic current and micromassage at changing speed

Combined treatment: "traditional" method of intake of active ingredients done with direct current accompanied by the oscillation of the handpieces at changing speed.

■ MICRO AUTOPOLAR LIN

Iontophoresis with autopolar® current and micromassage at constant speed

Combined treatment: intake of active ingredients done with the new, fine form of current accompanied by the oscillation of the handpieces at constant speed.

■ MICRO AUTOPOLAR MOD

Iontophoresis with autopolar® current and micromassage at changing speed

Combined treatment: intake of active ingredients done with the new, fine form of current accompanied by the oscillation of the handpieces at changing speed.

■ MICROPHORESIS

Three-phase treatment, during which the certain phases follow each other automatically.



Microphoresis®

After selecting the microphoresis treatment program, the microderm® 2000 device carries out a treatment section consisting of three steps.

The first phase of the treatment is **LYMPHATIC MASSAGE**: the handpieces oscillate at a constant speed, and the movements of the electrodes follow the usual directions of lymphatic massage - simultaneously on both cheeks, from the centerline outwards, to the lymph nodes. The fine vibration triggers the lymph flow in the lymphatic vessels of the face and the neck, thus reducing the oedema of the face and the eye region, stimulating the removal of waste materials, therefore the healing of problem skin.

The second phase of the treatment is **STIMULATING-NUTRITION**: we have to set only the polarity according to the type of active ingredient applied during the treatment. The handpieces oscillate at a constant speed and conduct autopolar® current into the skin as well. First we apply gel ampoule and moisturising gel on the skin, and then we work these active ingredients entirely into the skin by conducting the handpieces with circular, slow and smoothing movements on the surface of the skin.

The third and last phase of the treatment is **REFLEX STIMULATION**: the handpieces oscillate at a continuously changing speed but don't conduct current to the skin. The electrodes are kept on the reflex points symmetrically on both cheeks for a few seconds. The reflex stimulation stimulates the metabolic processes of the skin and refreshes our client.



Technical details

The amperage of iontophoresis:

0 - 10 mA, at steps of 0,2 mA

Treatment time:

1 - 30 minutes, in 1 minute steps

Dimensions: 230x200x85 mm

Weight: 2 kg