

SUPPLIED

N.01 power cable
N.01 elastic band
N.01 TMJ transducer
N.01 small district diathermy transducer
N.01 big district diathermy transducer
N.01 intraoral diathermy transducer
N.01 steel plate
N.01 steel plate cable
N.01 cable for electroporation
N.01 electroporation transducer
N.01 deer plate electroporation

TECHNICAL SPECIFICATIONS

Power supply 100÷240 V, 50÷60 Hz
Max power consumption 450 W
Electrical safety class II BF
IP Protection rating IP40
Max RF output power 150 W @ 50 ohm
RF Emission Frequency 500 MHz, 1000kHz
settable from software
Capacitive/Resistive emission type
Monopolar / Bipolar functions
Max electroporation voltage 120 V @1000 ohm
Freq. Electroporation impulses 1÷3000
Hzsettable from software
Complex electroporation wave
formsettable from software
10.1" colour touch screen with embedded
PC
Operating temperature 0÷40 °C
Operating humidity 30÷75% without
condensation
Dimensions L 45 x H 96 x D 41 cm
Weight 7 kg

PLUS

Feedback of the impedance of the treated
area to adapt treatment parameters to the
patient's individual conditions.

Option of setting two frequencies via
software: 500 kHz for deeper pathologies
and 1 MHz for more superficial pathologies.

Option of setting monopolar or bipolar mode
via software without changing transducers.

Option of setting capacitive or resistive mode
via software without changing transducers.

Capacitive transducer without epoxy coating.

All of the parameters are displayed on a
generously-sized 10.1" colour touch screen.

The software is set up according to the
Friendly Human-Machine Interface [FHMI]
concept to make it intuitive and user-friendly.

MONOPOLAR CRD
TRANSDUCER
FOR SMALL AREAS



MONOPOLAR CRD
TRANSDUCER
FOR BIG AREAS



ELECTROPORATION
TRANSDUCER



CRD TRANSDUCER
FOR TMJ



INTRAORAL
TRANSDUCER



Equipment certified as MEDICAL DEVICE in
compliance with directive 2007/47/EC amending
directive 93/42/EC

Top Quality Group reserves the right to vary the above data without
forewarning and, in any case, said data is not valid for contractual purposes.
REV. 2.0



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VELVET
TMJ TEC

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VELVET TMJ TEC

*The effective technology for the treatment of stomatognathic system
pathologies and of physiotherapeutic indications of the whole body*



VELVET TMJ TEC is the district technology with capacitive and resistive diathermy and electroporation that can be used in daily dental practice, for the treatment of TMJ disorders.

AIMS

- Biostimulation of the healing process to allow a speedy recovery with a consequent reactivation of the function and an immediate disappearance of the pain
- Effective and fast treatment of painful inflammatory, osteoarticular, degenerative and muscular disorders such as arthrosis, lumbago, sciatica and temporomandibular dysfunctions

ADVANTAGES

- No administration of anti-inflammatory medications through a systemic way but only a district way with a transdermal vehiculation through electroporation
- Preset programs for the stomatognathic system, osteoarticular and muscular disorders.
- Short term recovery of a good functionality (about 6/10 sessions in 4 or 5 weeks)

APPLICATION FIELDS

Mucosa	Microcirculation	Muscle
Bones	Ligaments	All tissues of the stomatognathic system and nearby structures

DIATHERMY

It is a form of endogenous thermotherapy that uses heat for therapeutic aims, especially in case of pain and muscular diseases. The term “endogenous” refers to the fact that this technology transfers an appropriate quantity of energy able to stimulate the production of heat to biological substrate. This “biocompatible” energy supplied to various tissues explains thus its therapeutic action with some synergic effects, among which:

- Increase of microcirculation • Vasodilation • Increase of internal temperature

Moreover, the endogenous heat determines a selective BIOSTIMULATION on atrophic tissues triggering physiological responses of improvement. This technology, provided with a radiofrequency digital generator, allows the setting of two frequencies (500KHz and 1MHz) via software so as to be more selective about depth of action.

The technology is equipped with an intraoral transducer that allows to treat the internal muscles (eg Pterigoidei) selectively with low dosages.

According to the actual needs of the patient, acting at a “software level”, this technology allows one to vary and modulate different operating modes:

- Capacitive • Resistive • Monopolar • Bipolar

The above is aimed at achieving the strong compliance of the patient who undergoes therapy without pain.

ELECTROPORATION

System for non-invasive transdermal transfer of allopathic or homoeopathic or homotoxicological active ingredients or platelet-rich plasma (PRP). The application of a particular electrical impulse on a biological surface causes a temporary

increase of tissue permeability. This allows transcutaneous absorption of active ingredients with controlled released and predefined depths. A higher concentration is achieved only on target districts, with lower systemic absorption and a subsequent decrease in “toxicity”.

Practically it is a “virtual” syringe that is able to inject the active ingredient specifically where it is needed.

PHYSIOTHERAPY

Velvet TMJ Tec effectively and rapidly treats pathologies of knees, shoulders, hips, ankles, vertebral column, hands and muscles, as well as painful inflammatory, degenerative osteoarticular and muscular disorders such as arthrosis, low back pain and sciatica.

From the first application, tissue stimulation already produces a significant reduction of the symptomatology, increases blood circulation and oxygen tension in the treated area, generates vasodilation, reduces muscle contractures, facilitates the reabsorption of oedemas.

THERAPEUTIC INDICATIONS

DAILY CLINICAL PHYSIOTHERAPY PRACTICE

Arthrosis	Lumbago
Sciatica	Other osteoarticular, ligamental, tendinous pathologies

STOMATOGNATHIC SYSTEM AND TMD

The “good medicine” concept, aimed at increasingly careful and demanding patients, is being developed through a technology that can be used daily to solve various dental issues (from the conservative ones to prosthesis, from surgery to periodontology).

Velvet TMJ Tec represents the painless and non-invasive solution able to treat all tissues of the stomatognathic system and temporomandibular dysfunctions. In this case, the purpose of the treatment is to decompress joints, to relax muscles, and to contribute to the repositioning of the mandible. This technology creates optimal conditions for the healing and adaptation process.

THERAPEUTIC INDICATIONS

DAILY CLINICAL DENTAL PRACTICE

All acute or chronic odontogenic painful forms and not	Orocervic facial pains
Post fracture bone consolidation	Oedema and tumefaction (odontogenic and not, post surgery, trauma or tmd))
Trismus and muscle contractures (post-abscess)	Trigeminal neuralgia

TMJ INTRACAPSULAR DYSFUNCTIONS

Reducible condyle-di-sc-temporal clicking or incoordination	Reducible condyle-di-sc-temporal lock or incoordination	Degenerative processes (arthrosis, reactive arthritis)	Inflammatory pathologies (synovitis, capsulitis, inflammation of bilaminar ligament)
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TMJ EXTRACAPSULAR DYSFUNCTIONS

Subluxation	Muscle tension masticatory muscle pain	Facial trauma with mandibular involvement	Inflammatory pathologies (temporal tendinitis, coronoid inflammation)
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