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MEDICAL

VESALIUS ESSENTIAL

THE QUANTUM MOLECULAR RESONANCE GENERATOR

QMR: an innovative and unique technology for the human health that improves the quality of life

RESEARCH AND DEVELOPMENT
FOR THE PATIENT

KEY FEATURES:

- *Bipolar Coagulator for Neurosurgery*
- *Five different coagulation modes*
- *SMART Technology on board*
- *Efficient in liquid pools*
- *Easy to use*
- *Wide range of accessories*



Product code: 2501029

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THE QUANTUM MOLECULAR RESONANCE TECHNOLOGY

QMR technology: QMR is a unique and patented technology: a special combination of different frequencies (Quantized High Frequency Spectrum) that allows the cut and the coagulation thanks to a resonance effect on the tissues. Differently from the standard electro-surgical HF equipment, which cause the vessels collapse and tissue necrosis, Vesalius Essential deploys a peculiar waveform that is slightly out of resonance but enough to increase the temperature up to 63-65 °C and to trigger the denaturation processes of the fibrinogen which turns into fibrin and coagulating the blood, without thermal damaging the vessels.

Vesalius Essential is the newest bipolar coagulator with QMR Technology, developed for all the bipolar procedures. It has 5 different bipolar functions for coagulation (ranges of power), tumor debulk and vaporization of the tissue in any environment (dry or wet).

S.M.A.R.T. (Self Monitoring And Recognition Technology) is an innovative feature on-board of the newest Vesalius Series. It is a technology that allows communication between Vesalius Essential and the connected accessory. This technology helps the user giving important information on the accessory itself (ref. number, number of times it was used, indication on overuse). This information can facilitate OR operations for product identification and lifecycle management avoiding risk of overusing accessories.

Optimal coagulation even in pools (water or body fluids): Vesalius Essential is specifically designed to give the best coagulation performance in any environment. With the performance of a newly design hardware and the benefit of QMR technology, Vesalius Essential is capable of the most delicate and precise coagulation as well as the strong and fast coagulation in wet environment. Due to the tissue impedance matching Vesalius Essential is able to adapt its output to the different type of tissue the instruments is touching, granting a constant effect in different situation.

Easy to use: simple and intuitive interface with a 3,5" color display and a control dial with optical encoder which allows a precise selection of the power settings.

Wide range of accessories available: ergonomic bipolar forceps tailored for comfortable handling and non-stick forceps for a more precise coagulation.

BENEFITS*

- Low working temperature
- No thermal diffusion on surrounding tissues
- No need to irrigate the tissue
- No carbonization of the tissue
- Very effective coagulation in liquid or blood pools
- Better and faster healing of the brain tissue

TECHNICAL DATA

- **Bipolar Function:** COAG 70W/50Ω
- **Quantized High Frequency Spectrum:** 4-8-12-16MHz
- **Switching Power supply:** 90-240 VAC 50\60Hz

* see evidences on the reference list available at www.teleamedical.com/en/scientific-doc-surgery/



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