

VECTORSONIC

Combined 2/4 Pole Interferential, 1 & 3 MHz Ultrasound

Metron Advanced Laser - with 100mW single diode The Vectorsonic is a combination interferential ultrasound unit, offering three modes of operation, Interferential, Ultrasound or combination mode.

The interferential module offers 10 user defined programmes, manual sweep control, optional user defined surge function, automatic vector rotation, bi-polar and quadropolar operation, and digital displays of time and output.

C € 0120 ♥¥ ♥¥ ♥¥ The ultrasound module offers various pulsed and continuous 1 & 3 MHz outputs.

Each module can be used independently of each other allowing two patient treatments or in combination. When being used in combination the 1 MHz ultrasound transducer becomes the active electrode.

(Please see overleaf for technical details & accessories)



Ph: 800-500-4844

VECTORSONIC Accessories

Accessories (supplied)



Accessories (optional)





METTROLLEYT7270

VECTORSONIC SPECIFICATIONS

OUTPUT SPECIFICATION - INTERFERENTIAL THERAPY:

Maximum current in each patient circuit 80 mA average Indicator resolution 1 Segment = 4 mA Indicator accuracy +/- 10% for currents greater than 10mA Maximum voltage in each patient circuit 160 V peak-to-peak Current Surge Programmes Disabled or Enabled Rise 0 - 20 seconds On 0 - 20 seconds

0 - 20 seconds 0 - 80 seconds

Waveform Beat Frequencies Preset Ranges

0 - 150 Hz 80 - 150 Hz 0 - 250 Hz Adjustable Range Current Waveform Sinewave

Waveform Pulse 2, 4 or 10 kHz Frequencies Frequency accuracy Waveform Pulse Widths Current Delivery Modes Better than +/- 1% 50, 125 or 250 μs 2 or 4 Pole

OUTPUT SPECIFICATION - ULTRASOUND THERAPY:

1.1 Mrl2 +/- 1070 2.4 Watts/cm2 +/- 10% maximum continuous mode (Equivalent to 12 watts absolute for the 5 cm head) 2.4 Watts/cm2 +/- 10% maximum (Equivalent to 2.4 watts absolute for the 1 cm head) Output power in

Frequency 3.3 MHz +/- 10% Output power in 2.4 Watts/cm2 +/- 10% (Equivalent to 2.4 watts absolute for the 1 cm head) 3.3 MHz +/- 10% 2.4 Watts/cm2 +/- 10% maximum continuous mode

Effective Radiating

Nominally 0.8 square cms +/- 20%

(1 cm head) Nominally 5.0 square cms +/- 20%

(5 cm head)

Power/intensity accurate to +/- 20% of reading for output in excess of display

0.2 Watt/cm2.

Beam Non-Uniformity Ratio

Nominally 5:1 +/- 20% Ultrasound Modulation

Modulation modes continuous or pulsed

Pulsed modulation: 100 Hz +/- 2%

Pulse frequency Pulse period 10 milliseconds +/- 2% Pulse width 1.0, 2.0, 5.0 milliseconds +/- 2% Pulse duty cycle (10%), 1:4 (20%), 1:1 (50%) respectively +/- 2%

Treatment Timer Maximum treatment time 30 minutes +/- 2%

At time expiration time display shows zero and a two second audible

Contact Display Function

Displays the degree of contact being made with the patient by the treatment applicator. Loss of contact, which activates the contact control feature, occurs at approximately 25% of full scale.

Contact Control Function

MODES OF OPERATION:

To detect poor acoustic coupling between ultrasonic treatment applicator and patient. At detection of contact loss the indicator on applicator illuminates red and after 1 second the treatment timer is halted, treatment time display flashes and ultrasonic output power is reduced. On contact detection the treatment timer is restarted and ultrasonic out put power is restored to the selected value.

Available modes: Interferential, Ultrasound, Combined

TIMER: Operating range 0 - 40 minutes Better than +/- 2.5 % Timer accuracy

SAFETY FEATURES: Lead Off Detector Alarm indicates when electrode impedance exceeds

10 Kohms Current Limit

Current increases limited to +10% of set level

ELECTRICAL SAFETY: Manufactured to standards: AS 3200.1 - 1990 IEC 601-1, 1988. Conformity - Complies with Medical Device Directive (CE)

Applied parts Patient Connections

Applied part classification Chassis classification Class 1

DIMENSIONS:

14.8″ 4.8″ 10″ Heiaht 6.6 lbs Weight:

ORDERING DETAILS:

METVECTORSONIC Ultrasound Unit

Supplied with the following accessories:

1 x PHYSIOGELU250ML METPATIENTLEADB METPATIENTLEADSW 250ml Ultrasound Gel Electrode Cable (Blue) - 1 pair Electrode Cable (White) - 1 pair Rubber Electrodes 8cm x 6cm - 2 Pairs

METCARBONELECT<u>RODE</u>

Elastic Wraps 7.5cm x 61cm - 1 pair Elastic Wraps 7.5cm x 120cm - 1 pair

Optional accessories:

. METTROLLEYT7270 METACCUSONICPLH3.7