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INSTRUCTION MANUAL

INTERFERENTIAL THERAPY UNIT

Model - Dyno: Wave LCD

Read these instructions carefully before using your Advanced Interferential Therapy Unit and keep it carefully for future reference.

For More Information visit us at www.sunmedisys.com

Sun Medisys Inc.

An ISO 9001:2015 Certified Company

An ISO 13985:2012 Certified Products

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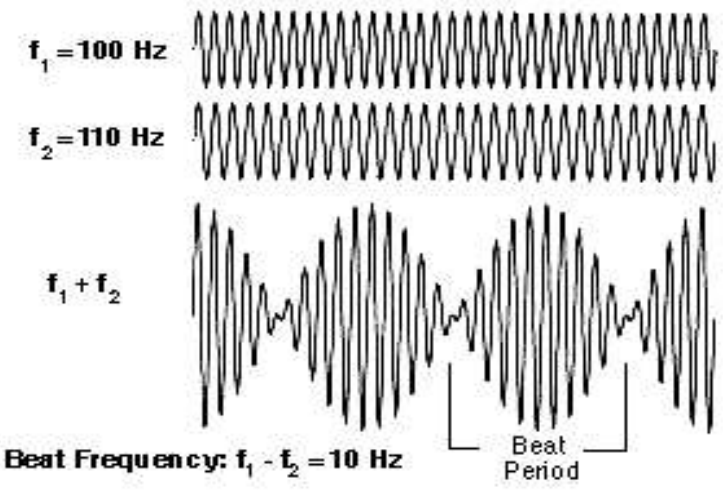
INTERFERENTIAL THERAPY

Though interferential currents are classified as low frequency on the basis of their therapeutic effective components, they have specific characteristic properties which distinguish them from any other therapeutic low frequency current. These currents are not actually produced inside the equipment and applied in this form via electrodes, but generated on the patients body in an endogenic way.

In the interferential therapy, we make use of two medium frequency alternating currents. These medium frequency currents are not identical and may differ in frequency from 0 to 250 HZ. The interaction of both these currents within the tissue results in continuous phase shift i.e. a low frequency interference or beat arises which is exactly the difference between the carrier currents.

For example, let us take two medium frequency currents, current in channel 1 = 100 HZ current in channel 2 = 110 HZ.



By applying two different frequency currents to the tissue, at the point of intersection a new beat frequency is produced whose amplitude is modulated and the frequency of the new current called the INTERFERENTIAL CURRENT.

By varying the frequency of the second channel relative to the constant frequency of the first, it is possible to produce a range of beat frequencies deep in the patients tissues. Thus it is possible to create any desired frequency rate in the range 1 to 250 Hz by varying the frequency difference of the carrier currents. This principle allows interference currents of fixed frequencies and frequency spectrum to be generated in different fashions and these may be “COMPOSED” to achieve a specific therapeutic reaction.

ADVANTAGES OF INTERFERENTIAL CURRENTS

The complexities of producing low frequency interference currents would not be warranted. If this type of current did not offer special advantageous in application.

1. The interferential currents do not produce any sensory motor irritation, irrespective of amplitude. Their application is free of any burning sensation on the skin surface as is experienced with other low frequency currents which are disturbing to currents sensitive patients.

2. A medium frequency alternative currents, it is high frequency and absence of direct current properties, is the most suitable for treating deeper layer of tissues. It is therefore most useful in treating at a greater depth. Example in muscles, tendons, nerves, bursacm periosteum unlike galvanic and interrupted galvanic which has more reaction in the skin and subcutaneous tissues.

3. Resistance of skin is at minimum when using frequencies in the range of 4000 Hz and therefore higher doses can be obtained within the body without surface skin discomfort.

4. The current can be localized more effectively in specific area. Extensive area of coverage and depth can be obtained.

5. Metal is not a contra indication in the treatment with interferential current unlike shortwave diathermy therefore a number of post-operative pain conditions associated with mental implants can be treated effectively.

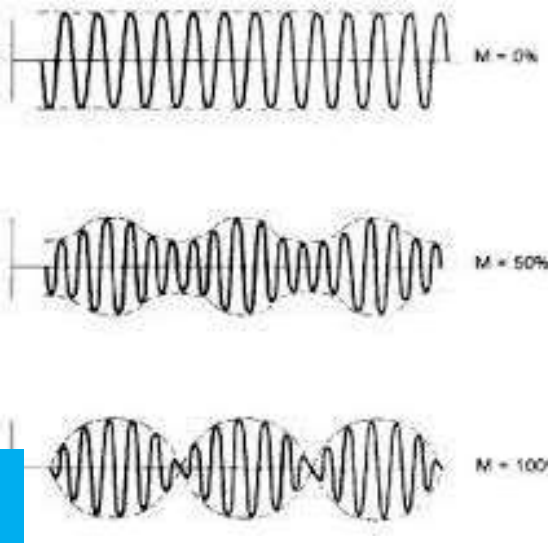
6. There are instances where referred pain in cancer patients can be effectively treated provided interferential currents is not applied directly over the malignant tumour.

DEFINITIONS AND TERMS RELATED TO INTERFERENTIAL THERAPY

1. INTERFERENTIAL CURRENT: It is the resultant current produced when two or more alternating currents are applied simultaneously at the point of intersection in a given medium.

2. AMPLITUDE MODULATED FREQUENCY(AMF): The frequency with which the amplitude of current is modulated is called AMF. In interferential therapy, the resulting current formed due to the interaction of the two carrier as its amplitude modulated at the frequency which is the difference between the two carrier frequencies:
   -For example, if channel 1 is 4000 Hz and channel 2 is 4250 Hz, the resulting AMF will be 250 Hz.

3. MODULATION DEPTH: Apart from frequency of modulation, the amplitude modulation is also characterized by depth of modulation. This modulation will be between 0 to 100%.



0 % Modulation

50% Modulation

100% Modulation

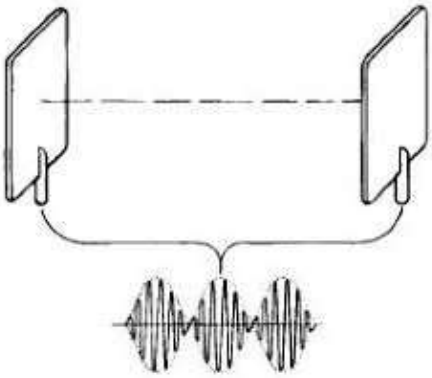
DEPTH OF MODULATION

SPECTRUM: Interferential treatment makes use of the principle of Be frequency to prevent accommodation.

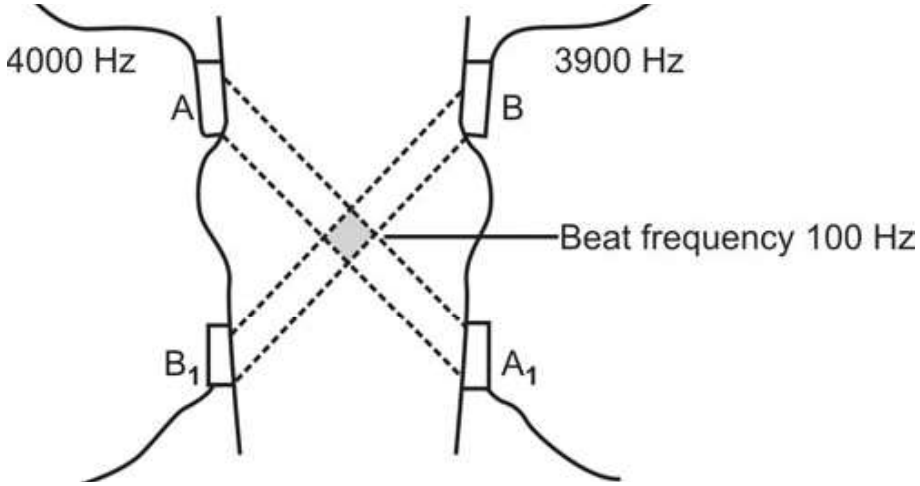
SPECTRUM denotes the treatment frequency range. In the range all frequencies are automatically are traversed. The use of a spectrum has the advantage that the tissue does not adapt to a certain frequency and thus a given treatment can be performed for a longer period and repeated more often.

BIPOLAR INTERFERENCE: Current application via 4 electrodes is more complex. In some cases however, anatomical conditions make a tetra polar application almost impossible. In such cases preference should be given to bipolar interference.

Using bipolar technique there is interference and amplitude modulation is produced electronically inside the instrument and not on the tissue. The envelope curve of such a current represents a low frequency. The therapy current comes finished out of a unit and is applied via two poles (Bipolar).



FOUR POLE CLASSICAL INTERFERENCE: Two middle frequency currents without amplitude modulation us used. The electrodes are placed so that two current intersect at the area of therapy. This causes intensity pulses at the intersection.



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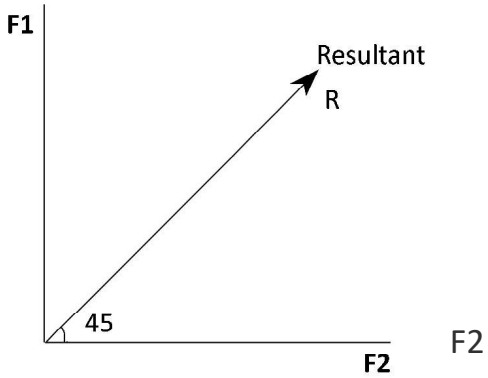
INTERFERENCE VECTOR: Within the field in which both medium frequency current interact with each other, a static interference field is built up which can vary from 0 - 100% depending on the interference angle between the component current. Because of the interference vector, this field of static interference is shifted rhythmically. The resulting broadened continuously reconstructed geometrically in consistent field of interference is called “Dynamic Interference Field”.

When two equal currents intersect each other at 90 degrees, the maximum resultant force is halfway between these two forces directed 45 degrees diagonally.

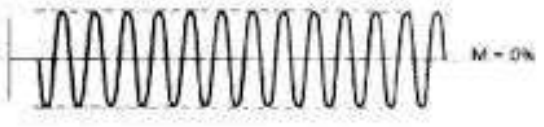
The diagram below shows the two equal forces intersecting each other and the resultant R is directed at 45 degrees with respect to the two forces.



IF F1 = F2, R WILL BE AT
45 DEGREE TO
EITHER OF THESE FORCES

Assume that F1=0 and the resultant R will lie along F2 at 0 degrees. if F2 =0 then resultant R will lie alng F1 at 90 degrees. Thus carrying the intensities of both the currents out of phase will shift or rotate the direction of the resulting interferential current from 0 to 90 degrees

This action various depth of modulation systematically from 0 to 100% as shown in the figure.



0 % Modulation

DEPTH

50% Modulation

OF

MODULATION

100% Modulation

The Automatic Vector scan makes possible a coverage of larger area because of the continuous shifting of the resultant current even if the electrodes are not positioned accurately and the varying intensities of the interference field provide varying stimulation. Therefore the vector technique is most desirable when large areas are to be treated.

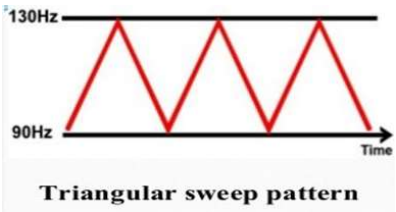
BALANCE: Electric current applied through the skin depends on the condition of the electrode,sponge and the skin. Hence when two currents are applied, there may be unequal current passing through each circuit due to the unequal resistance countered. in order to compensate this situation, the current in both channels can be equalized.

SWEEP: it is possible to change the frequency between the present one plus present one plus additional frequency continuously in a prefixed pattern and time is sweep.

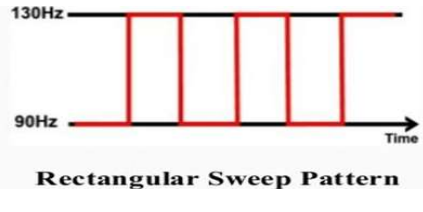
CHOICE OF SWEEP PATTERN: One possibility which is most desirable in interferential treatment is choice of sweep pattern available in Three types:

PROGRAM 1 : The frequency remains at the base frequency for 1 second then abruptly rises to the highest frequency covered by the spectrum set. It is held at the higher frequency for 1 second after which it return to the base frequency.
This form of treatment has an aggressive effect. It becomes more pronounced if a broader spectrum is chosen.
The immediate and remarkable effects of this form of treatment is a superficial hyperaemia. This is recommended for chronic and sub acute problems.

PROGRAM 2 : The base frequency is applied for 5 seconds. The frequency then rises to a higher frequency in 1 second and is maintained at that level for 5 seconds. Afterwords it returns to the base frequency in 1 second. This treatment is much milder and can be tolerated by the patients easily with acute disorders.



Triangular sweep pattern



Rectangular Sweep Pattern

Trapezoidal Sweep Pattern

PROGRAM 3 : In this case, the frequency varies from the base frequency to a higher frequency in 6 seconds and returns to the base frequency in 6 seconds covering a total time of 12 seconds. This treatment mode is mildest and well tolerated by patients

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PROGRAM LIST - IFT

PROGRAM NO.	MODE	WAVE FORM	FREQUENCY
01	2 EL	Triangular	4 KHz
02	4 EL	Triangular	4 KHz
03	4 EL 45°V	Triangular	4 KHz
04	4 EL 90°V	Triangular	4 KHz
05	2 EL	Square	4 KHz
06	4 EL	Square	4 KHz
07	4 EL 45°V	Square	4 KHz
08	4 EL 90°V	Square	4 KHz
09	2 EL	Trapezoid	4 KHz
10	4 EL	Trapezoid	4 KHz
11	4 EL 45°V	Trapezoid	4 KHz
12	4 EL 90°V	Trapezoid	4 KHz
13	2 EL	Triangular	2 KHz
14	4 EL	Triangular	2 KHz
15	4 EL 45°V	Triangular	2 KHz
16	4 EL 90°V	Triangular	2 KHz
17	2 EL	Square	2 KHz
18	4 EL	Square	2 KHz
19	4 EL 45°V	Square	2 KHz
20	4 EL 90°V	Square	2 KHz
21	2 EL	Trapezoid	2 KHz
22	4 EL	Trapezoid	2 KHz
23	4 EL 45°V	Trapezoid	2 KHz
24	4 EL 90°V	Trapezoid	2 KHz
25	2 EL	-- (0 8 Hz)	4 KHz
26	2 EL	-- (25 Hz)	4 KHz
27	2 EL	-- (50 Hz)	4 KHz
28	2 EL	-- (08 Hz)	2 KHz
29	2 EL	-- (50 Hz)	2 KHz

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PROGRAM LIST - MST

PROGRAM NO.	CURRENT TYPE	PULSE WIDTH	FREQUENCY
1	Plain Galvanic	--	--
2	Pulsed Galvanic	0.5 ms	--
3	Pulsed Galvanic	1.0 ms	--
4	Pulsed Galvanic	3.0 ms	--
5	Pulsed Galvanic	10 ms	--
6	Pulsed Galvanic	30 ms	--
7	Pulsed Galvanic	100 ms	--
8	Pulsed Galvanic	300 ms	--
9	Pulsed Galvanic	1.0 Second	--
10	Faradic	1.0 ms	50 Hz
11	Faradic	1.0 ms	50 Hz
12	Surge Faradic	0.5 Second	50 Hz
13	Surge Faradic	1.0 Second	50 Hz
14	Surge Faradic	1.5 Second	50 Hz
15	Surge Faradic	1.0 Second	50 Hz
16	Surge Faradic	3.0 Second	50 Hz
17	Surge Faradic	4.0 Second	50 Hz
18	Surge Faradic	8.0 Second	50 Hz
19	Surge Faradic	8.5 Second	50 Hz
20	Surge Faradic	0.5 Second	100 Hz
21	Surge Faradic	1.0 Second	100 Hz
22	Surge Faradic	1.5 Second	100 Hz
23	Surge Faradic	2.0 Second	100 Hz
24	Surge Faradic	4.0 Second	100 Hz
25	Triangular Pulsed	1.0 ms	--
26	Triangular Pulsed	3.0 ms	--
27	Triangular Pulsed	10.0 ms	--
28	Triangular Pulsed	30.0 ms	--
29	Triangular Pulsed	100.0 ms	--
30	Triangular Pulsed	300.0 ms	--

PROGRAM NO.	CURRENT TYPE	PULSE WIDTH	FREQUENCY
31	Triangular Pulses	1000.0 ms	--
32	Triangular Pulses	2000.0 ms	--
33	INOTOFORASIS		
34	TENS	0.5 ms	08 Hz
35	TENS SURGE	3.0 ms	20 Hz
36	TENS		08 Hz
37	TENS		50 Hz
38	TENS		100 Hz
39	TENS SURGE	0.5 Second	08 Hz
40	TENS SURGE	1.0 Second	08 Hz
41	TENS SURGE	1.5 Second	08 Hz
42	TENS SURGE	2.0 Second	08 Hz
43	TENS SURGE	2.5 Second	08 Hz
44	TENS SURGE	3.0 Second	08 Hz
45	TENS SURGE	4.0 Second	08 Hz
46	TENS SURGE	5.0 Second	08 Hz
47	TENS SURGE	0.5 Second	50 Hz
48	TENS SURGE	1.0 Second	50 Hz
49	TENS SURGE	1.5 Second	50 Hz
50	TENS SURGE	2.0 Second	50 Hz
51	TENS SURGE	3.0 Second	50 Hz
52	TENS SURGE	4.0 Second	50 Hz
53	TENS SURGE	8.0 Second	50 Hz
54	TENS SURGE	0.5 Second	100 Hz
55	TENS SURGE	1.0 Second	100 Hz
56	TENS SURGE	1.5 Second	100 Hz
57	TENS SURGE	2.0 Second	100 Hz
58	TENS SURGE	4.0 Second	100 Hz

IT CURVE PLOTTING PROGRAMS - Press the operating key S1, Program will vary for IT Curve plotting from program 59 to 66.

PROGRAM NO.	CURRENT TYPE	PULSE WIDTH	FREQUENCY
59	SURGED GALVANIC	1000.0 ms	--
60	SURGED GALVANIC	300.0 ms	--
61	SURGED GALVANIC	100.0 ms	--
62	SURGED GALVANIC	30.0 ms	--
63	SURGED GALVANIC	10.0 ms	--
64	SURGED GALVANIC	3.0 ms	--
65	SURGED GALVANIC	1.0 ms	--
66	SURGED GALVANIC	0.5 ms	--
67	DIADYNAMIC (DF)	--	--
68	DIADYNAMIC (MF)	--	--
69	DIADYNAMIC (CP)	--	--
70	DIADYNAMIC(LP)	-- (SURGE)	--

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RANGE OF STIMULATIONS

Fixed Frequency 100 Hz or SP 110 - 120 Hz	:	Sensory supraliminal : Analgetic calming Sympathetic influence
SP 50 - 100 50 Hz - 100 Hz	:	Sensory subliminal to slightly supraliminal : Spasmolytic
Fixed Frequency 50 Hz or SP 40 - 60 Hz	:	Vibration Sensation
20 - 40 Hz	:	Sensory subliminal vagal stimulation
20 - 50 Hz	:	Sensory supraliminal : Activating nonstriated muscle Attention : Slightly tentanising effect with higher doses
1 - 50 Hz	:	Myokenitic stimulating up to causing contractins when motor supraliminal
10 - 2 Hz	:	Increasing tone of vessels
1 - 10 Hz	:	Sensory supraliminal to motor subliminal; stimulating the sympathetic influence. Motor supraliminal; single contractions

INDICATIONS FOR MEDIUM FREQUENCY THERAPY

In Physical therapy, treatment is largely based on empirical values and is performed on individual basis. Treatment with medium frequency currents are no exception. It is therefore not only possible but in some cases even necessary to deviate from the recommendation given.

TREATMENT TIME - Choose short treatment times for first four treatment sessions then gradually increase the treatment time.

INTENSITY - Set the intensity in accordance with the patients perception and for the intensity of the muscle contractions. In general the interferential currents are so readily tolerated that relatively large current intensities may be utilized.

NUMBER OF SESSIONS - Six to eight sessions normally suffice for acute cases. Chronic cases frequently require 10 or more times. This, however, is a general guideline only which can be varied according to the clinical conditions and the reactions of the patients. Each treatment session should last approximately 10 - 15 minutes.

GENERAL GUIDELINES FOR CHOICE OF ELECTRODES - Varies with application and confirm generally to the types indicated for the application for interferential currents, electrodes of different sizes can be used.

2 ELECTRODE BIPOLAR INTERFERENCE - Pre modulated interferential currents are applied via two electrodes and is useful where the area of application is small.

4 ELECTRODE CLASSICAL INTERFERENCE (STATIC) - Applied where the area of application is large. The IF currents are generated in an endogenic way.

4 ELECTRODE DYNAMIC INTERFERENCE (VECTOR) - Applied where the area of application in large. The IF current rotates or scans the area under application and is specifically useful if the location of pain cannot be localised and it also prevents accommodation.

CHOICE OF INTERFERENTIAL FREQUENCY - The use of a spectrum has an advantage that the tissue does not adapt so readily to a certain frequencies and thus, a given treatment can be performed for a longer period and repeated more often.

SPECTRUM 100-200 Hz --- FIXED FREQUENCY 100 Hz

- Particular effect on automatic nerve system in that they produce calming of the sympathetic influence along with a slight analgetic effect. Therefore, this frequency is of special use in the basic treatment of nearly all painful conditions, particularly in acute cases and it is useful for the blockage of the stellate ganglion in patients with sympathetic syndrome, above all in cases of cerebral circulatory disturbances.

SPECTRUM 40-60 Hz --- FIXED FREQUENCY 50 Hz

- Corresponds to a medium stimulation frequency of low frequency currents and affects the connective tissues in particular (local stimulation). For this reason, they are outstandingly suitable for gymnastic of the fibrous tissue and for use as a test current in locating small region of inflammatory diseases.

SPECTRUM 50-100 Hz

- Creates rhythmic stimulation of all exactable structure sensitive to frequencies between 50 to 100 Hz. The analgetic and spasmolytic effect are markbly higher as compared to the 100 Hz, also the blood circulation is positively influenced. In this case, we have a mild stimulation with little calming effect on the automatic nervous system.

SPECTRUM 25-50 Hz

- Has a tetanizing and locally stimulating effect with high dosages. It has a sensory supraliminal effect on the automatic nervous system.
When using higher dosages, there is a tendency to tetanic contractions.

SPECTRUM 1-10 Hz

- The strangest stimulation of the my kinetic system with individual muscle contraction when dosages reaches a certain level.

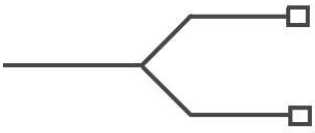
Most suitable for muscle gymnastic of the healthy musculature and for the re mobilization of joints after long periods of immobilization.

SPECTRUM 1-100 Hz

- Provides the most comprehensive general stimulating and calming effect one after the other, all responsive tissues are stimulated including sensorimotor system, musculature connective tissue and autonomic nervous system.

Thus an intensive stimulation is brought about which at the same time contains strongly calming element. It also initiate the absorption of edemas which make it useful in case of blunt traumas.

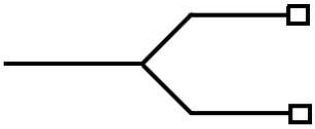
1. TENDO PATHY

Electrode Type	-	Medium
Treatment	-	
Frequency	-	4000 Hz
Base Frequency	-	50 Hz
Spectrum	-	50 Hz
Spectrum Mode	-	
Treatment time	-	10 - 15 min.

Intensity : Slight current perception - according to Individual tolerance, the current intensity can be increased with each application.

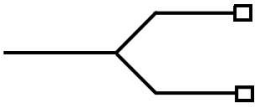
Sessions : 3 to 6

2. ANKLE DISTORTION

Electrode Type	-	Medium
Treatment	-	
Frequency	-	4000 Hz
Base Frequency	-	100 Hz
Spectrum	-	50 Hz
Spectrum Mode	-	
Treatment time	-	10 - 15 min.

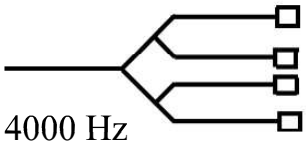
Intensity : Slight current perception - according to individual tolerance, the current intensity can be increased depending on each patient.
Sessions : 6 to 10
Remarks : Fast relief can be obtained by interface current therapy in case of distortion.

3. REYNAUD'S DISEASE

Electrode Type	-	Medium
Treatment	-	
Frequency	-	4000 Hz
Base Frequency	-	100 Hz
Spectrum	-	75 Hz
Spectrum Mode	-	
Treatment time	-	10 - 15 min.

Intensity : Slight to pronounced current perception below motor threshold.
Sessions : 6 to 10

4. LUMBAGO (Low Back Pain)

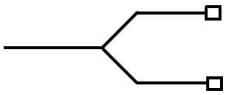
Electrode Type	-	Large/Medium
Treatment	-	 Vector
Frequency	-	4000 Hz
Base Frequency	-	100 Hz
Spectrum	-	50 Hz
Spectrum Mode	-	
Treatment time	-	15 - 20 min.

Intensity : Slight to pronounced current perception below motor threshold.

Sessions : 6 to 8

Remarks ; After the acute condition has subsided muscle vibrations may be triggered using the frequency range 1-10 Hz to normalize tonicity.

5. HERPES ZOSTER

Electrode Type	-	Medium
Treatment	-	
Frequency	-	4000 Hz
Base Frequency	-	150 Hz
Spectrum	-	50 Hz
Spectrum Mode	-	
Treatment time	-	10 min.

Intensity : Slight to pronounced current perception below motor threshold.

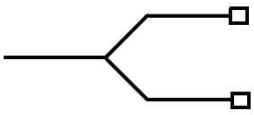
Sessions : 6 to 10

Remarks : Although Zoster is an infection caused by a neurotrpoic virus, a treatment with low frequency current is very successful.

6. TRIGEMINAL NEURALGIA

Electrode Type - Small/Medium

Treatment -



Frequency - 4000 Hz
Base Frequency - 150 Hz
Spectrum - 100 Hz

Spectrum Mode -

Treatment time - 15 min.

Intensity : Slight current perception - according to individual tolerance, the current intensity can be increased with each application.

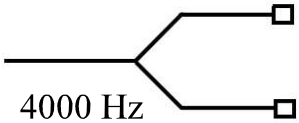
Sessions : 6 to 10

Remarks : Dose carefully during the first few since severe adverse reactions may be encountered. It is essential to inform the patient that there is reactive pain in most instances. After the third treatment patient is mostly free of pain.

7. OCCIPITAL NEURALGIA

Electrode Type - Medium

Treatment -



Frequency - 4000 Hz
Base Frequency - 150 Hz
Spectrum - 100 Hz

Spectrum Mode -

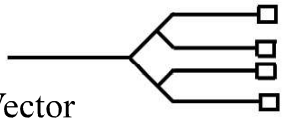
Treatment time - 5 - 10 min.

Intensity : Slight current perception - according to individual tolerance, the current intensity can be increased with each application.

Sessions : 6 to 8

Remarks : Dose carefully during the first few sessions since adverse reactions may be encountered. Remember that tolerance limit is low.

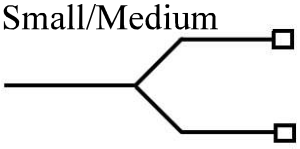
8. CRUCIATE LIGAMENT STRAIN

Electrode Type	-	Medium
Treatment	-	 Vector
Frequency	-	4000 Hz
Base Frequency	-	50 Hz
Spectrum	-	50 Hz
Spectrum Mode	-	
Treatment time	-	10 - 15 min.

Intensity : Slight current perception - according to individual tolerance, the current intensity can be increased with each application.

Sessions : 5 to 8

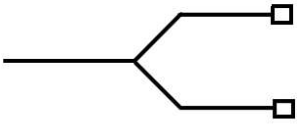
9. EPICONDYLITIS

Electrode Type	-	Small/Medium
Treatment	-	
Frequency	-	4000 Hz
Base Frequency	-	80 Hz
Spectrum	-	40 Hz
Spectrum Mode	-	
Treatment time	-	15 min.

Intensity : Slight current perception - according to individual tolerance, the current intensity can be increased with each application.

Sessions : 6 to 8

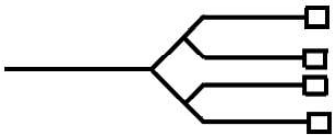
10. HYPERTONIC TRAPEZIUS MUSCLE

Electrode Type	-	Small/Medium
Treatment	-	
Frequency	-	4000 Hz
Base Frequency	-	0 Hz
Spectrum	-	10 Hz
Spectrum Mode	-	
Treatment time	-	2 - 10 min.

Intensity : Slight when contraction diminish, increase the intensity to achieve a slight contraction again.

Sessions : 6 to 8

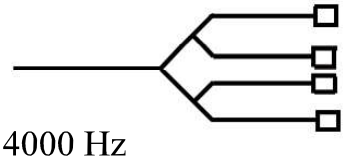
11. CAPSULITIS

Electrode Type	-	Small/Medium
Treatment	-	 with or without Vector
Frequency	-	4000 Hz
Base Frequency	-	100 Hz
Spectrum	-	50 Hz
Spectrum Mode	-	
Treatment time	-	15 min.

Intensity : Slight current perception - according to individual tolerance, the current intensity can be increased with each application.

Sessions : 5 to 8

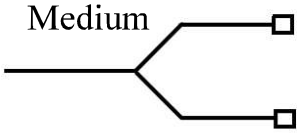
12. SPONDYLARTHRITIS

Electrode Type	-	Medium
Treatment	-	 Vector
Frequency	-	4000 Hz
Base Frequency	-	80 Hz
Spectrum	-	50 Hz
Spectrum Mode	-	
Treatment time	-	20 min.

Intensity : Slight current perception - according to individual tolerance, the current intensity can be increased with each application.

Sessions : 5 to 8

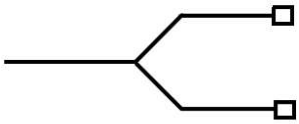
13. LIGAMENT STRAIN

Electrode Type	-	Medium
Treatment	-	
Frequency	-	4000 Hz
Base Frequency	-	50 Hz
Spectrum	-	50 Hz
Spectrum Mode	-	
Treatment time	-	10 - 15 min.

Intensity : Slight. When contact diminish, increase the intensity to achieve a slight contraction again.

Sessions : 5 to 8

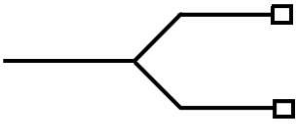
14. RUPTURED FIBRES OF CALF MUSCLE

Electrode Type	-	Small
Treatment	-	
Frequency	-	4000 Hz
Base Frequency	-	100 Hz
Spectrum	-	50 Hz
Spectrum Mode	-	
Treatment time	-	15 min.

Intensity : Slight. When contact diminish, increase the intensity to achieve a slight contraction again.

Sessions : 6 to 8

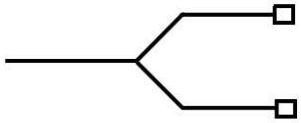
15. ISCHIALGIA

Electrode Type	-	Small
Treatment	-	
Frequency	-	4000 Hz
Base Frequency	-	120 Hz
Spectrum	-	50 Hz
Spectrum Mode	-	
Treatment time	-	10 - 15 min.

Intensity : Slight. When contact diminish, increase the intensity to achieve a slight contraction again.

Sessions : 6 to 9

16. MUSCLE STRENGTHING

Electrode Type	-	Small/Medium
Treatment	-	
Frequency	-	2000 Hz
Base Frequency	-	20 Hz
Spectrum	-	40 Hz
Spectrum Mode	-	
Treatment time	-	30 min.

Intensity : Increase the current intensity until vigorous yet well tolerable muscle contraction are ellicted.

Sessions : 5 to 10

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Advanced Therapy System

STANDARD ACCESSORIES

The Interferential therapy unit will be supplied with following accessories:

1. Electrodes (Big) : 4 Nos.
2. Electrodes (Small) : 2 Nos.
3. Electrode's Wire : 2 Pair
4. Velcro Fixations Straps : 2 Sets
5. Pen Electrode set : 1 No.
6. Power Cable : 1 No. (According to Country requirement)

WARNING

- Before using the equipment, the user should read carefully the instructions contained in this manual.
- Before treating a patient, the user should familiarize himself with the operating modes and have clear knowledge of indications & contra indications for the use of apparatus.
- Please insure this manual is readily available at all times to the personnel authorized to use the apparatus.
- For safety purpose, the power cord should be fitted with an earthed plug.
- ONLY USE AN EARTHED POWER SUPPLY SOCKET.
- The unit must be connected to approved power supply system.
- Do not use the apparatus close to SWD or MWD devices, may cause instability in output and functioning in program.
- Never leave the patient unattended during the treatment.
- The apparatus may not be used in so called "wet rooms"(hydro therapy rooms).
- Sun Medisys will not be responsible for Therapy Effects resulting from an improper use of the apparatus.

REPLACEMENT OF FUSE

Remove the mains cord:
There is one mains fuse and one extra fuse in the within the mains fuse Socket, to replace the mains fuse peel out the fuse socket with a finger nail and replace the fuse with the extra fuse - push the fuse back into the socket until you hear a click.

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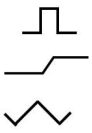
TECHNICAL SPECIFICATIONS

Operating Voltage	: 230/115v AC supply 50/60 Hz, 1.5 Amps Current
Output Type	: 100% Isolated
No. of Programs	: IFT Programs - 29 MST Programs - 70
Output Channel	: Channel-1(Red output socket): Constant carrier Frequency Channel-2(Black output socket): Variable carrier Frequency
Output Current	: 0-70 mA
Carrier Frequency	: 4 kHz and 2 kHz
Base Frequency	: 0 - 100 Hz
Spectrum Frequency	: 0 - 150 Hz
Treatment Timer	: 0-99 min. (can be varied according to requirement)
Scan Patterns	: 1). Rectangular 2). Trapezoidal 3) Triangular
Therapy Modes	: 1). 2 Pole pre-modulated interferential therapy 2). 4 Pole classic interferential therapy 3). 4 Pole 45° vector interferential therapy 4). 4 Pole 90° vector interferential thearpy



Please Refer to pg
for More Information

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Advanced Therapy System

WARRANTY CERTIFICATE

Customer Name: _____

Address: _____

_____

Equipment Name: _____

Serial No.: _____

Warranty Form: _____ To _____

* The Instrument is warrantee by the manufacturer for one year from the date of purchase and during this period, the defective parts shall be replaced or repaired, free of charges, If it is due to faulty material or workmenship, subject to the following Terms and Conditions.

*The Instrument should be used properly in accordance with the instructions as given in the instruction manual.

* The warranty does not cover the Instrument attended by others excepting our authorised service centre / dealer.

*Replacement of parts made of Rubber Electrodes, Laser Probe, Laser Diode, enclosure and carry bag are not covered within this Warranty.

* The cost incurred bringing the machine to our dealers premises or service centre and back are to borne by the customer.

*The Warranty does not cover the Instrument operated outside the range of stipulated Electric Supply i.e. below 198 volts and above 242 Volts.

* The decision of the manufacturer is final in all cases of warranty claims.

HERE CERTIFIED

Your's Truly

For Sun Medisys Inc.