
User's Manual

Chapter I General Outline

1.1 Product characteristics

The Series Male Function Rehabilitative and Therapeutic Aparatus is a integrative apparatus used for treating recuperation of male sexual dysfunction. The instrument is integrated technology of modern computer, automatic control, electric pulse, digital display.

Therapy scheme is based on the combination of meridian doctrine principle of traditional Chinese medicine and modern digital electronic technology. And the instrument has multiple comprehensive physical-chemical functions, such as electrical stimulation, water massage, gas massage, bubble massage, attraction by negative pressure, etc. Treating penis and related acupoint through special medical device can adjust cerebral cortex function, stimulate spinal nerve center, promote channels circulation, and enhance the male erectile function. The instrument has whole therapeutic effectiveness, and so it has whole therapeutic effectiveness.

- A. Using computer control, the therapeutic time can be adjusted at will;
- B. Setting alarm prompt system
- C. Many therapeutic modes;

1.2 Product functions

- 1. Intermittent negative pressure suction
- 2. Pneumatic and water massage
- 3. Low electrical frequency stimulation
- 4. Aduio and video

1.3 Main purposes and suitable scope

The instrument is used for diagnosis and therapy of non-organic male sexual dysfunction. for instance, sexual function degeneration of middle and old aged men , functional impotence, erectile disorder, defective ejaculation, delayed puberty of male teenagers, premature ejaculation etc.

1.4 Normal work conditions

- 1. Environment temperature: 5—40 °C;
- 2. Relative humidity: ≤80%;
- 3. Use voltage: AC 220V±22V, 50Hz±1Hz

1.5 Safety Standard and Requirement

1. The safety requirement of instrument shall conform to EN60601-1:1990 “Medical Electric Equipment Part one: General Safety Requirement”.

2. Use standard three-phase power source socket in the instrument room, connect its grounding terminal to protective earthed conductor of power supply system. Using the socket without protective grounding terminal, please adopt a metal conductor with cross area of not less than 1.0 mm², connect one end of the conductor to ground pole and other end to earth.

Notice: Laying ground conductor shall carry out according to related standard or under guide of experienced electrician.

Chapter II Structure Characteristics and Work Principle

2.1 Structure characteristics

1. Main parts

Host computer electrode wires negative pressure pipe

Liquid storage bottle monitor earphone disposable electrode

2. Accessories

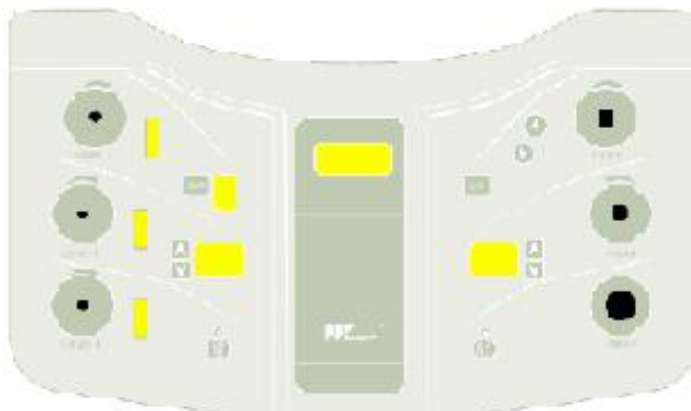
Power wire safety fuse signal wire packing data

2.2 Operation part diagram of instrument

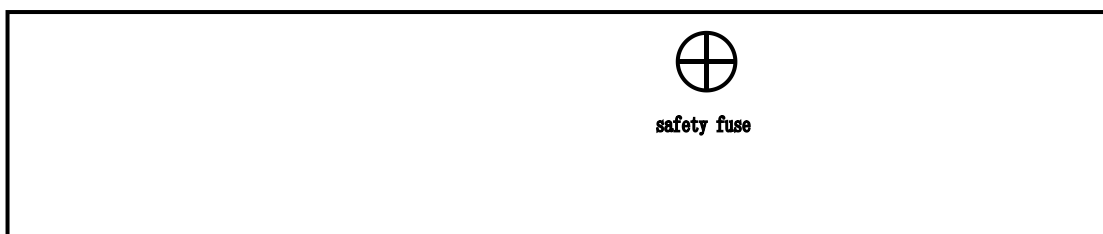
1. Front view of the instrument

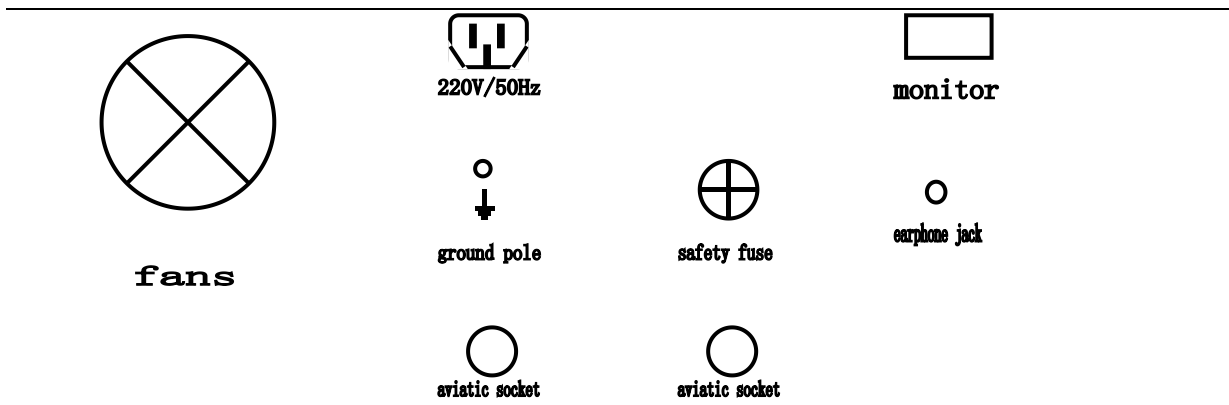


2. Schematic diagram of keyboard

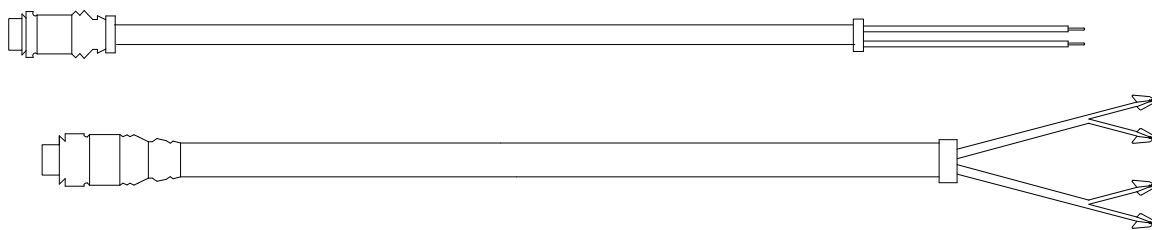


3. Rear panel diagram

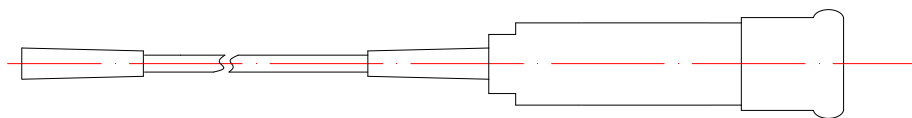




4 Outlet electrode lead



5. Connecting diagram of negative pressure Pipe



6. Keyboard notes:

A、 Electric frequency therapy notes:

1) “electric stimulation” Min Digital display: It shows electric frequency therapy time, “△”increase electric stimulation therapy time, “▽”decrease electric stimulation therapy time

2) Mode key: Before starting electric stimulation, press Mode Key to change therapy mode. Total 7 therapy modes can be circularly selected.

3) Start/stop key: Pressing this Key can switchover between start and stop electric

stimulation.

4) Electric stimulation strength adjustment knob 1: During therapy, the knob can adjust the output strength of electric stimulation (indicator lamp comes on). Turn the Knob clockwise, and the strength and the number of indicator lamps, which come on, will increase; Turn the Knob counterclockwise, and the strength and the number of indicator lamps, which go out, will decrease. The knob 2 and the knob 3 work similarly.

B、 Negative pressure therapy notes :

1) Negative pressure massage digital display: It shows negative pressure massage therapy time, “△”is used for increasing negative pressure therapy time. “▽”is used for decreasing negative pressure therapy time. The massage time can be continuously adjusted between 0 and 50 min.

2) Massage key: Under negative attraction, press this key can switchover between start and stop electric stimulation.

3) Massage frequency key: Massage frequency adjustment key “△” is used for increasing massage frequency. Massage frequency adjustment key “▽” is used for decreasing massage frequency.

4) Start/stop key: Under negative attraction, press this key can switchover between start and stop negative pressure.

5) Negative pressure adjustment knob: Turn this Knob clockwise and negative pressure output strength increase; Turn this Knob counterclockwise and negative pressure output strength decrease. Negative pressure strength is showed by medical vacuum meter.

6) Bubble Massage Knob: Turn this Knob clockwise and make bubble smaller; Turn this Knob counterclockwise and make bubble larger.

7) Liquid Injection Switch: Press this switch (light) to inject liquid; eject to stop liquid injection.

2.3 Working principle

A、 Electric pulse stimulation: Using many electric frequency therapy modes and through abundant blood vessel and meridian, the stimulation can directly act on special acupoint, speed up blood circulation, reduce thrombosis, effectively expand narrow and closed blood vessel,

activate cerebral cortex and hypophysis cerebri and then they produce feedback action, strengthen the stimulation of androgen, activate the action of spinal center and improve microcirculation.

B、 Air massage, water massage and bubble massage: Using arterial blood flow principle, the massages can activate the blood circulation of organ, promote the rapid hyperemia of spongy body of penis. With negative suction and vibration massage, liquid medicine dipping bath can lead deep conduction of drug ion.

C、 Air massage: Using arterial blood flow principle, the massages can activate the blood circulation of organ; promote the rapid hyperemia of spongy body of penis.

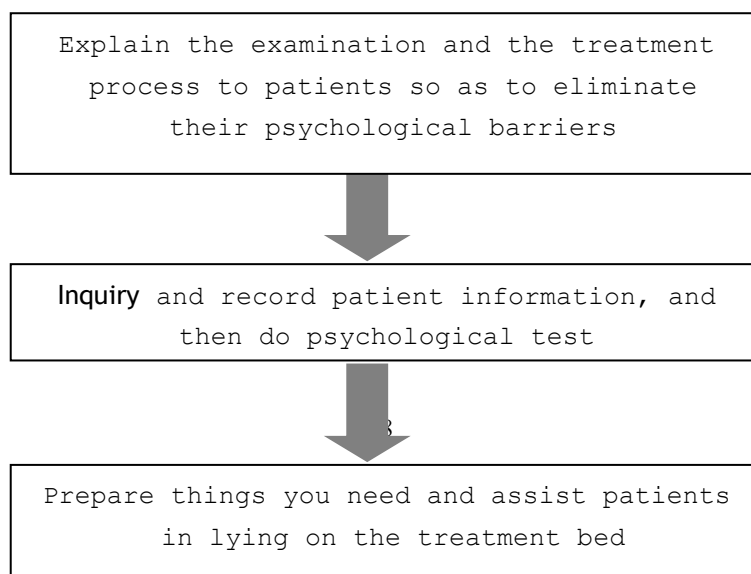
D、 Audio and video is processed by computer so that VCD playing system with high definition can supply beautiful music and high quality image, create a light atmosphere for therapy. doctor can diagnose and treat accurately 。 Audio and video frequency therapy: Through enjoying graceful music during therapy process, audio frequency therapy can eliminate nervous feeling, relax muscle, expand blood vessel, promote blood circulation, thus it is favorable to relaxing muscles and activating collaterals, to entering of warm liquid medicine, to increasing therapeutic effectiveness and to having ease of mind.

Chapter III Technical Characteristics

- Electric frequency therapy mode:1- 7 therapy modes;
- Time control scope: The range of 0—50 min is adjustable.
- When the open circuit at the output end of instrument is 10 min or the short circuit at that is 5 min, its performance is not reduced.
- When the short circuit of this circuit is 5s, the open circuit of that is 15s, the output is closed for 10 min and this operation is repeated 10 times during maximum output, the instrument is operated in good order.
- When the instrument resumes after broken circuit, it is without output;

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- While measuring in open circuit condition, the peak value of output voltage of the instrument is not greater than 500 V;
 - Maximum output negative pressure: 0~0.04Mpa is adjustable.
 - Negative pressure attraction frequency(massage frequency): 0.6—1.5Hz;
 - Input power: 200VA.
 - Size: 550mm×580mm×770mm
 - Weight: about 40Kg

Chapter IV Operational Flowchart



Chapter V Installation



- Notice! Please consult the random file.

Notice: The instrument shall be used in clean room with adequate air circulation. Its environment is clean and dry. Don't install the instrument in a location near chemical materials and electric devices with strong electromagnetic and electric fields. The instrument position should be easy in operation.

- After unpacking, check all the parts according to packing list. Host computer and

accessories shall be in conformity with packing list. Read this operation manual carefully and know using method of the instrument well.

- Mount the bracket of negative pressure pipe
- Put monitor on the host computer, connect Q9 end of signal wire with socket on the rear panel, and connect other end of signal wire with monitor. Connect to Power supply.
- Insert 9-pin D-type head of Doppler probe into the place with Doppler probe socket, the Doppler probe put in Probe planes.
- Insert earphone into the place which fixed on the rear panel
- Insert D type plug of electrode conductor (with multiple output ends) into electric frequency socket on the rear panel and turn tightly.
- Connect the joint at the bottom of negative pressure pipe with one end of attraction hose; connect other end of the hose with filter network. Connect filter network to negative pressure outlet trough rubber tube and turn tightly.
- Connect one end of the other attraction hose with the joint at the side of negative pressure pipe and the other end of that with bubble massage outlet.
- Check power supply source for the instrument and determine it conforms to given power supply parameters. After this, insert one end of power wire into the place with 220V/50Hz on the rear panel of host computer and connect the other end of that into connection board for power supply.
- Check all connecting wires of the instrument and then electric power is turned on.

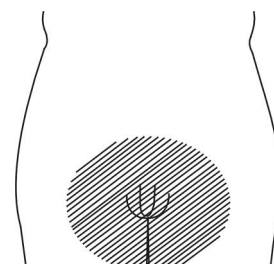
Notice:

1. Do not pull or insert electrode plug under on-position to avoid damaging electrodes and host computer.

2. Must install filter network. Otherwise, impurity will clog solenoid valve and disrupt normal operation. Should clean and sterilize filter network regularly.

Chapter VI Operation process

6.1 Preparations



a) With items:

Iodine, the cotton, lubricant, couplant, paper handkerchief, compression ring, alcohol cotton, disposable bed sheets, disposable electrodes, negative pressure tubes, razor, gloves etc;

b) With the supine posture to fully expose genitals and peripheral parts;

c) Doctors examine the treatment of patients with genital whether it has abnormal shape, excrescence, skin lesions or hyperaemia.

d) Conventional skin disinfection

6.2 Low-frequency electrical stimulation therapy:

Operating steps: dispensed a acupoint prescription to patients→ Connect electrodes and wires→ affix patch to the acupoint→set therapy time→start and adjust frequency strength →The end of the treatment, the system automatically alarm→Remove electrode

Operating essentials:

a) Therapy strength is determined according to patient's bearing capability

b) If electrical stimulation is not apparent, doctors can clean the skin with alcohol cotton and put electrode sandpaper on the fringe, electrode can be enhanced conductivity after being dry.

c) A small number of patients may be allergic to the patch, allergy may ease after removing the patch.

6.3 Negative pressure therapy:

Operating steps:

1. negative pressure attraction:

local disinfection→Cover penis with the negative pressure pipe→set therapy time→start negative pressure and adjust the strength→therapy time is over, stop the negative pressure;

2. pneumatic massage: set therapy time→start the negative pressure and press only massage key →adjust massage frequency and negative pressure strength→therapy time is over, stop negative pressure;

3. Water massage: set therapy time→Pour warm water into liquid storage bottle.→start negative pressure and press liquid injection key to pour warm water→press massage key after

injecting liquid→adjust massage frequency and negative pressure strength→Therapy time is over, stop negative pressure;

4. Bubble massage: bubble massage therapy can be conducted in the same way as the water massage operation method→adjust bubble massage knob→remove negative pressure tube after therapy is over → Record all results of the treatment, such as the feeling of patients etc.

Operating essentials:

- a) Therapy strength is determined according to patient's bearing capability
- b) Before treatment patients should shave pubic hair entirely to ensure negative pressure attraction effect
- c) Every patient shall use his own one set of negative pressure tube and pipe, disposable electrode to prevent cross-infection.
- d) A small number of patients with prolonged foreskin may occur foreskin edema; we should decrease negative pressure strength properly during therapy.
- e) Observe Erection of patients closely and whether there is subcutaneous gore, and ask the patient's own feeling and adjust negative pressure properly.

Notice:

- 1. Acupoint selection:
 - Output 1: Guanyuan, Zhongji ,Qihai and Shenque
 - Output 2: Shenyu,Minmen,Yaoyangguan and Yanglingquan
 - Output 3: Both sides of the penis
- 2. The selection method of acupuncture points, please refer to Appendix and related medical books.
- 3. Therapy and diagnosis can only be separately carried out. Negative pressure attraction therapy and electric frequency therapy can be simultaneously carried out.

Chapter VII operation instruction

7.1 Accessory Function

- 1) Note on negative pressure pipe:

Negative pressure pipe with scale is transparent. During attraction therapy under negative pressure, the erectile state of penis can be clearly observed and recorded with data. The pipe is suitable for negative pressure attraction therapy and massage therapy.

During therapy, apply Vaseline to the front end of negative pressure pipe and it can reach better effectiveness.

Note:

Disposable electrodes and negative pressure canister specialized for individuals can effectively prevent cross-infection.

Every patient shall use his own one set of negative pressure pipe and suction hose. After therapy, it shall be destroyed first, and then discarded. Please buy accessory from our company.

2) Function of liquid storage bottle

Cushioning action: Avoid too quick increase of pressure and cause mechanical damage.

Storage of waste liquid: Sometimes the negative pressure attraction and massage therapy may cause patient's ejaculation. During washing negative pressure pipe and conduit pipe, using negative pressure attraction can completely remove remaining liquid in conduit pipe and recover it into liquid storage bottle.

Note: Pour out the ponded water after use, when water (liquid medicine) in liquid storage bottle reaches 700 ml, must remove water (liquid medicine) from it; otherwise the instrument will automatically stop and at the same time buzzer will produce buzzing alarm sound. After removing the water from liquid storage bottle, the instrument can be continuously and normally used.

Every patient shall use his own one set of negative pressure tube and pipe, disposable electrode to prevent cross-infection.

3) Waste liquid bottle

It is used for storing backed waste liquid.

7.2 Negative pressure attraction therapy operation

1) Turn negative pressure adjustment knob on the keyboard to end counterclockwise and turn bubble massage adjustment knob to end clockwise.

2) Press negative pressure massage $\triangle \nabla$ key for setting therapy time; The therapy time can be continuously adjusted between 0 and 50 min. In general, therapy time is 15 min and time display is 15.

3) Cover penis with the negative pressure pipe at its root place and let patient press the pipe to avoid air-leakage (Proper Vaseline can be applied if necessary). Notice: Do not cover scrotum.

4) Press start/stop key and start, state indicator lamp comes on. Turn negative pressure adjustment knob clockwise and negative pressure increases, otherwise, negative pressure decreases. The negative pressure shall be controlled between 0.015 and 0.02 Mpa (Concrete negative pressure is determined according to patient's bearing capability).

5) The negative pressure shall be kept for 5 min; Turn negative pressure adjustment knob counterclockwise to zero and keep it for about 1 min. Then gradually increase negative pressure to the range of 0.015~0.025 Mpa.

6) Repeat the abovementioned therapy process some times. After ending therapy, the instrument sounds alarm and is automatically stopped. At this moment, time display is 00. Turn negative pressure adjustment knob counterclockwise to end.

7) During the course of therapy, press start key for suspending therapy; again press start key for next therapy; Press set key for stopping therapy.

Notice:

During the course of therapy, Sustained negative pressure value is not greater than 0.025 Mpa. Too large negative pressure may cause hydrops or subcutaneous bleeding. Ask the patient's own feeling and adjust negative pressure properly. Record all results of the treatment, such as the feeling of patients etc.

Operating essentials:

- A) Therapy strength is determined according to patient's bearing capability
- B) Before treatment patients should shave pubic hair entirely to ensure negative pressure attraction effect
- C) A small number of patients with prolonged foreskin may occur foreskin edema; we should decrease negative pressure strength properly during therapy.

7.3 Air massage operation method

After negative pressure attraction, can select air massage therapy to relax body.

1) Air massage operation may be conducted in the same manner as negative pressure operation, therapy time is 15 min. When negative pressure attraction operation is being conducted, press only massage key for realizing air massage function. At the same time, the adjustment of massage rhythm can be realized by adjusting massage frequency (Press Δ key to increase massage frequency and press ∇ key to decrease massage frequency according to patient's requirement).

2) The massage strength should be adjusted according to patient's requirement. It is proportional to negative pressure strength. If increasing massage strength is necessary, turn negative pressure adjustment knob clockwise to increase negative pressure. Turn the knob counterclockwise for reducing the massage strength.

3) In the course of therapy, press start key for suspending therapy and again press start key for continuing therapy.

4) After therapy ends, the instrument sounds alarm signal and massage is stopped automatically. At this moment, time display is 00.

5) In the course of negative pressure attraction therapy, air massage therapy can be conducted alternately.

6) When air massage becomes negative pressure attraction therapy, should pay great attention to following matters: After turning negative pressure adjustment knob to reduce negative pressure, turn massage adjustment knob to off position. In this case, both sudden increase of negative pressure and personal injury can be prohibited. **Notice: Electric motor has overheating protection function. When electricity is suddenly turned off during operation and then it is turned on to start again, the time interval shall be not less than 3 min; otherwise the motor do not respond to it.**

Notice:

1. Air massage operation is completed. After turning negative pressure adjustment knob to reduce negative pressure, turn massage adjustment knob to off position. In this case, sudden increase of negative pressure causing personal injury can be prohibited.

2. Water massage operation is conducted in the same manner as air massage operation.

7.4 Water massage therapy (medicated bath therapy) operation

Refer to air massage therapy operation for water massage therapy, the therapy time is 15 min.

- 1) Pour warm water of 500 ml at 45°C into liquid storage bottle.
- 2) Cover penis with negative pressure pipe at the root of it.
- 3) Press start/stop key for starting negative pressure attraction. When negative pressure reaches 0.02 Mpa, press liquid injection key at the right side of the instrument (indicator lamp comes on) and at the same time liquid flows into negative pressure pipe. After inundating penis with liquid, press liquid injection switch to off position for stopping injection.
- 4) After injecting liquid, press massage key for adjusting massage frequency. Continue to increase negative pressure until patient feels comfort. While using water massage therapy, negative pressure can be properly increased.
- 5) At the same time that water massage therapy is being conducted, bubble impact massage therapy can be carried out. Turn bubble massage knob counterclockwise and continuous bubbles form string by string and roll in negative pressure pipe to reach the effectiveness of impact massage therapy. Do not turn on bubble massage knob excessively to avoid of water leakage in the negative pressure pipe due to its lower pressure.
- 6) Provided turn off massage, Separated bubble impact massage therapy can be conducted in the same way as the abovementioned operation method.

Notice:

- 1. Do not turn on bubble massage knob excessively to avoid lower pressure of water in the negative pressure pipe causing leakage.**
- 2. Keep the bottom of negative pressure pipe up and 3 cm distance from water level in negative pressure pipe to avoid sucking the liquid from negative pressure pipe into liquid storage bottle.**
- 3. Negative pressure pipe and attraction hose can be used only one time. Soak negative pressure pipe and attraction hose in dilute glutaraldehyde with concentration of 2% for 30 min or in sodium bicarbonate for 10 min before and after using them for disinfection.**
- 4. Soak liquid storage bottle everytime, do it as the abovementioned operation method.**

7.5 Electrical stimulation therapy:

1) The total 7 therapy modes can be selected. Doctor should determine concrete therapy mode according to the practical disease state of patient.

2) Take out N disposable electrodes and connect them with electrode lead, clean the skin near acupoint with normal saline. Take protective film off electrode and paste it on acupoint. About the therapy method, can refer to later Chapter: Brief Introduction to Case and Acupoint Selection Therapy for indication only.

3) Press electric frequency start key to set work state of the instrument, then work state indicator lamp comes on, electric frequency signals are produced and count down starts. Turn electric frequency strength knob clockwise slowly and electric frequency output strength gradually increases until patient feels light tingling sense and considers the sense comfortable (In this case, electric frequency strength indicator lamps come on from lower to upper and the strength increases with this).

4) When one acupoint therapy time ends, it will switch to next acupoint, until the last acupoint therapy finished. The instrument automatically stops giving electric stimulation signals and sounds alarm. When therapy finished, turn electric stimulation strength knob counterclockwise to end. During therapy, if patient feels indisposition, press start key for suspending therapy; again press start key for next therapy.

- Take care that during electric frequency, electrode must contact with skin reliably and therapy under non-complete contact shall be prohibited.
- The therapeutic electrode is a disposable pasting one and do not repeat using it.

Seven modes of electric frequency therapy and application

[Mode I] condensation wave (high-frequency wave): The stimulation is weaker and lasting, causes the nerve to have the inhibited reaction, and can stop pain, but because the organism easy to have the adaptation, therefore the function of stop pain is temporary. It may alleviate the muscle convulsion blood circulation barrier, sympatheticotonia and so on. During therapy, generally uses it to therapy first, then uses other way coordination therapy again; it is suitable to the initial period of therapy.

[Mode II] Acupuncture wave: Stimulation is weak, can alleviate the muscle ache and nervous, enables the therapy spot to achieve a more comfortable feeling, it is suitable for the initial period of therapy.

[Mode III] Suction wave: Stimulation is strong and lasting, may cause the feeling which intensely trembles, it have obvious function to contraction function of striated muscle, It can excited organism organization, human's organism is slower to adaptation it, therefore its function is lasting, and it is suitable for the intermediate period of therapy .

[Mode IV] Fluctuation wave: The stimulation is from weakly to strongly, from strongly to weakly, circulation and reciprocation, stimulation comparatively gentle, and human body is easy to accept, it is suitable to the later period of therapy.

[Mode V] Interrupted continuous waves : The stimulation is intermittent, automatic alternation. The break time of stimulation is 2.5 seconds. This kind of stimulation causes the organism not to be easy to adaptation. This wave power is stronger, can cause obvious feeling and the intense muscle contraction.

[Mode VI] Fluctuation Interrupted continuous waves(ICW): The stimulation IS from strongly to weakly (the time is 2.5 seconds), then interrupted (the time is 2.5 seconds), stimulation fierce, the wave power is strong, intensely stimulates muscle contraction.

[Mode VII] Audio frequency wave: The intensity of scope output changes along with the music melody, the stimulation is often weakly, often quickly and often slowly.

7.6 Therapy scheme

Negative pressure attraction therapy, air massage therapy, water massage therapy and electric frequency therapy can be simultaneously carried out and separately carried out. Usually the sequence is: carry on the therapy of electric stimulation and negative pressure attraction at the same time, and then carry on the negative pressure massage therapy; Patient is treated one time daily or one time per every two days, five times a week. One therapy course is four weeks. Therapy plan is also determined by doctor according to concrete conditions.


Chapter VIII Precautions

8.1 Please read and observe the following precautions

- During electric frequency therapy, electrode must contact the skin of patient closely and the operation under non-close contact condition is strictly prohibited.
- Electric stimulation strength should be adjusted according to the bearing capability of patient.

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- During negative pressure therapy, do not cover scrotum.
 - During the course of therapy under negative pressure, the largest negative pressure value shall be determined according to the bearing capability of patient. Too large negative pressure may cause hydrops or subcutaneous bleeding. During the course of therapy, sustained negative pressure value is not greater than 0.025 Mpa and maximum negative pressure value is 0.04Mpa. If negative pressure value exceeds 0.04 Mpa during therapy, must turn negative pressure adjustment knob counterclockwise immediately to reduce negative pressure or stop use. After negative pressure is adjusted to maximum value of 0.04 Mpa, the therapy can be started again.
 - When massage therapy becomes negative pressure attraction therapy or ends, you must first turn negative pressure adjustment knob to reduce negative pressure, turn massage adjustment knob to off position. In this case, sudden increase of negative pressure and personal injury can be prohibited.
 - Do not turn on bubble massage knob excessively to avoid the water leakage in the negative pressure pipe due to its lower pressure.
 - Keep the bottom of negative pressure pipe up and 3 cm distance from water level in negative pressure pipe to avoid sucking the liquid from negative pressure pipe into liquid storage bottle.
 - After ending therapy, turn “negative pressure adjustment knob” and “electric frequency strength adjustment” knob to off-position to avoid doing an injury to patient due to very large strength during next therapy.
 - Every patient shall use his own one set of electrode and negative pressure pipe and suction hose. After therapy, it shall be destroyed first, and then discarded.

8.2 Please read and observe the following precautions for the instrument

-  High Voltage Inside! No permission for operation except professionals.
- Turn vent valve on the rear panel to end counterclockwise firstly when you use the instrument; otherwise, the pipeline will burst.
- Do not pull or insert electrode plug under working state in order to avoid damaging electrodes or host computer.
- Must not use diagnosis function and therapy function simultaneously, avoiding being damaged.
- Must install filter network during installing; Otherwise impurity will clog solenoid valve. Often clean filter network; otherwise it will disrupt normal operation.

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- Electric motor has overheating protection function. During operation, electricity is suddenly turned off. When it is turned on to start again, time interval shall be not less than 3 min; otherwise the motor do not respond to it.
 - When water (liquid medicine) in liquid storage bottle reaches 700 ml, must remove water (liquid medicine) from it; otherwise the instrument will automatically stop and at the same time buzzer will produce buzzing alarm sound. After removing the water from liquid storage bottle, the instrument can be continuously and normally used.
 - When the instrument fail to work during the therapy, please turn off electric current and power switch of the instrument or pluck off the attaching plug.
 - The instrument shall be used in clean room with adequate air circulation. Its environment is clean and dry. Don't install the instrument in a location near chemical materials and electric devices with strong electromagnetic and electric fields.
 - There is compressor in the instrument. Not to be tilted.
 - Under on-position, do not move or shake the instrument. Connection, insertion, dismantling and installation of all the parts of the instrument shall be conducted under off-position.
 - Frequent switching on and off of the instrument shall be prohibited; Otherwise it is easy to be damaged. When the instrument is not used, you must turn off it, remove the mains plug from the wall socket and cover it with cloth. If the instrument will be not used for a long period of time, please clean and put it into packing box. At the same time, please open the box at regular intervals and run the instrument when electricity is turned on.
 - The instrument is packed in the box of paper or wood materials and transported by air, road or railway. During the course of transportation wet, collision, extrusion and solarization shall be avoided.
 - The basic configuration in the product instruction book for indication only, please sees the package data.

Chapter IX Maintenance

- Often check power supply source. If voltage exceed specified range for the instrument(AC 198V ~ 242V), never start the instrument. Use the instrument only after mounting voltage-stabilized source.
- Often check power wire and probe cable of the instrument. Find damage or break and replace them immediately.
- After pulling power plug, clean the appearance of the instrument with absorbent cotton and toothpaste. Never use cleaning agent or germicide with alcohol to wipe it.

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- Never open chassis to clean, shake and dismantle internal parts.
 - After moving the instrument, check whether the connecting wires between parts are loose. Again properly connect all the wires which are loose.
 - If the instrument is out of order, shall contact company or local agent, or can invite experienced technician to examine and repair if company or agent allowed.

Chapter X After-sale service

- This product is guaranteed by our company for a period of 18 months. If necessary the company can provide electric circuit diagram, element list. Within the guarantee period, our company will provide a free repair service for the fault caused by the product quality. After the guarantee period, our company will provide a long-term repair service.

The guarantee shall not apply to any following faults:

- a) The faults caused by dismantle and modification carried out by unauthorized people.
 - b) The faults caused by beat and/or fall during the course of use.
 - c) The faults caused by non-rational maintenance and/or undesirable environment.
 - d) The faults caused by misusing counter to this operation manual.
 - e) The faults caused by repair unauthorized by our company.
 - f) The faults caused by controlled factors.
- The guarantee is not suitable for consumption goods, such as negative pressure pipe, attraction hose, electrode sheet, etc.
 - The repair service under the guarantee is provided upon presentation of completed guarantee card delivered with the product.
 - If the instrument is purchased from the commercial agent of our company, please contact the agent directly.

Chapter XI Trouble shooting

11.1 Check

- Check whether power supply is normal, power is connected to host computer and plug is inserted to power source socket.
- Check whether the connection between all the wirings and host computer is normal.

11.2 Trouble shooting

- During replacing fuse tube, switch off power source, turn fuse cap counterclockwise and take fuse tube. After replacing the fuse tube, turn fuse cap clockwise tightly.

Other trouble shootings (see table following up)

1) Host computer can not work, there is no image at all.

Troubles	Analysis	trouble shooting
1	Wire connection is wrong.	Properly connect wires.
2	Fuse breaks	Replace fuse (F5A/250V)
3	Instrument with alarm output, Water level is high or level switch is closed.	Pour out water and poke level switch floater.
4	Wire is off with the front panel	Open the instrument and connect it
5	Power Panel is damaged	Contact the company for repair

2) Starting instrument is normal, but time is not adjusted

Troubles	Analysis	trouble shooting
1	the key is closed.	Adjust the key on properly or contact the company for repair
2	the key is damaged	Contact the company for repair.

3) Starting instrument is normal, but digital tube shows abnormal

Troubles	Analysis	trouble shooting
1	the key is closed.	Adjust the key on properly or contact the company for repair
2	Master Chip have access or be damaged	open the instrument and pull down the chip and insert it again or contact the company for repair

4) Starting instrument is normal, there is no electric frequency stimulation

Please check whether set therapy time firstly .Secondly, please check whether press electric frequency start key to set work state of the instrument and then work state indicator lamp comes on. Thirdly, whether the acupoints shows on the keyboard conform to the acupoints electrodes diagnose.

Troubles	Analysis	trouble shooting
1	Output electrode socket is not properly placed.	Pull socket and insert it properly again.
2	Electric frequency strength is too small.	Adjust electric frequency strength to properly large value.
3	Electric frequency adjustment knob or electric frequency adjustment knob is damaged.	Notify the company for repair
4	Element of circuit board is damaged.	Notify the company for repair
5	Disposable electrodes have poor Performance or the skin near acupoint is dry.	Replace disposable electrodes or again clean the skin near acupoint with normal saline
6	Electrode lead is used a long time ,and then the connection between electrode and electrode lead become flexible or electrode lead is damaged	Buy the electrode lead from our company
7	Connecting wire is damaged	Open the instrument and connect it again.

5) There is no negative pressure attraction and negative pressure indicators do not work, but other functions are normal.

After starting the instrument, check whether press electric frequency start key to set work

state of the instrument and then work state indicator lamp comes on firstly. Secondly, check whether plug of liquid storage bottle is placed properly. Thirdly, check whether compressor works normally and there is exhaust sound come out by exhaust valve on rear panel.

Troubles	Analysis	trouble shooting
1	Negative pressure adjustment value be opened or it is damaged	Turn negative pressure adjustment knob clockwise tightly or contact the company for repair.
2	Do not connect negative pressure pipe or it bursts	Connect it again or replace the pipe
3	There is no vibration and noise come out after starting the instrument	220V connect compressor into the power connecting block (220v), if compressor work properly, power panel is damaged. Otherwise, compressor is damaged. Contact the company for repair.
4	There is vibration and noise comes out after starting the instrument but there is no exhaust. Check whether there is negative pressure after removing the lower end of the rubber tube.	If there is negative pressure, solenoid valve clog. Replace and clean solenoid valve. If not, compressor is damaged, contact the company for repair.
5	There is vibration and noise come out and there is exhaust after starting the instrument.	Pipeline inside the instrument burst, replace rubber tube

6) There is a little negative pressure attraction and negative pressure indicators shows weakly, but other functions are normal.

Remove negative pressure pipe and block the output end to obverse negative pressure.

Troubles	Analysis	trouble shooting
1	Connection between	Press negative pressure pipe on human

	negative pressure pipe and human body is not adequate and there is a air leakage.	body tightly
2	There is a air leakage from negative pressure pipe	Replace it or repair it
3	Plug of liquid storage bottle is placed properly.	Insert the bottle plug into bottle again tightly.
4	Negative pressure adjusting valve open or is damaged	Turn negative pressure adjusting value tightly or contact the company for repair
5	Three-way solenoid valve clog	Remove and clean it or replace it.
6	Filter network clog	Remove and clean it or replace it.
7	Rubber hose above the bottle is twisted	Straighten out the hose

7) there is no massage, but other functions are normal. Check whether there is sound come out.

Troubles	Analysis	trouble shooting
1	Sound come out rhythmically, but there is no negative pressure. Because solenoid valve clog	Remove and clean it or replace it.
2	No Sound comes out rhythmically, but there is negative pressure. because solenoid valve is damaged or the key is damaged	Replace solenoid valve or replace the key

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