

Operating Manual For H2301

High-Frequency Electrotherapy Beauty Instrument

Working Principle of High Frequency Electrotherapeutics:

High Frequency Electrotherapeutics can produce high speed vibration current and conduct to human body with electrotherapeutics tube. Because there is inert gas, e.g. argon or neon, etc. in the electrotherapeutics tube, different inert gases in the tube will emit light in different colors when working with different assistant treatment effect; While high speed vibration current can be transformed to heat and produce ozone around the electrotherapeutics tube with better effect of sterilization. Because the vibrating frequency of current is very high, it will not make muscle shrink but with physiological stimulation effect.

High Frequency Electrotherapeutics has the following functions:

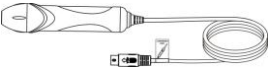
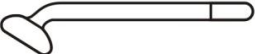
- A. Stimulate Blood Circulation
- A. Enhance Gland Activity
- B. Assist in Excretion and Absorption
- C. Promote Metabolism
- D. Effect of Sterilization
- E. Produce Heat in Skin Texture
- F. Help Beauty and Skincare Products to Penetrate into the Deep Layer of Skin

Lights in different colors will produce different assistant treatment effects after being absorbed by skin.

Specification, Model & Technical Data :

Product	Beauty Instrument
Model No	H2301
Functions	High-Frequency Electrotherapy
Nominal Working Voltage	ac. 100-130V / 220-240V
Nominal Working Frequency	50/60Hz
Output Power	20 W
Dimension (L*W*H)	442*347*147mm
Net Weight	1.95Kg

Packing List :

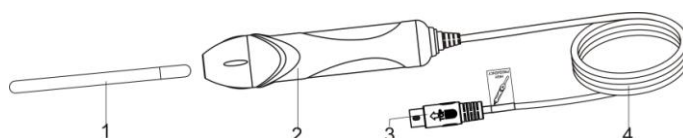
Name	Graphic	Quantity
Host Machine		1 Round
Power cable		1 Piece
High-frequency Electrotherapy Handle		1 Piece
Mushroom-shape Glass Electrotherapy Tube		1 Piece
Spoon-shape Glass Electrotherapy tube		1 Piece
Dot Glass Electrotherapy Tube		1 Piece
Straight-Bar Glass Electrotherapy Tube		1 Piece
说明书 Instruction Manual		1 Copy

Host Machine:



Accessories :

Accessories to High-Frequency Electrotherapy:



1. Electrotherapy Tube
2. High-Frequency Electrotherapy Handle
3. Plug for Electrotherapy handle flexible cable
4. Electrotherapy handle flexible cable

Different glass electrotherapy tubes are suited for treatment of different parts:



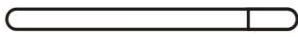
A: Mushroom-shape Glass Electrotherapy Tube — large area such as cheek, forehead, neck etc.



B: Spoon-shape Glass Electrotherapy tube — medium area such as chin etc.

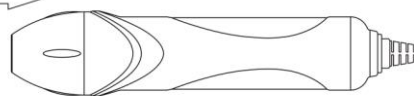
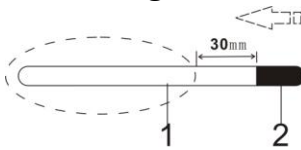


C: Dot Glass Electrotherapy Tube — small area such as nasal pit etc.



D: Straight-Bar Glass Electrotherapy Tube — Indirect treatment for clients.

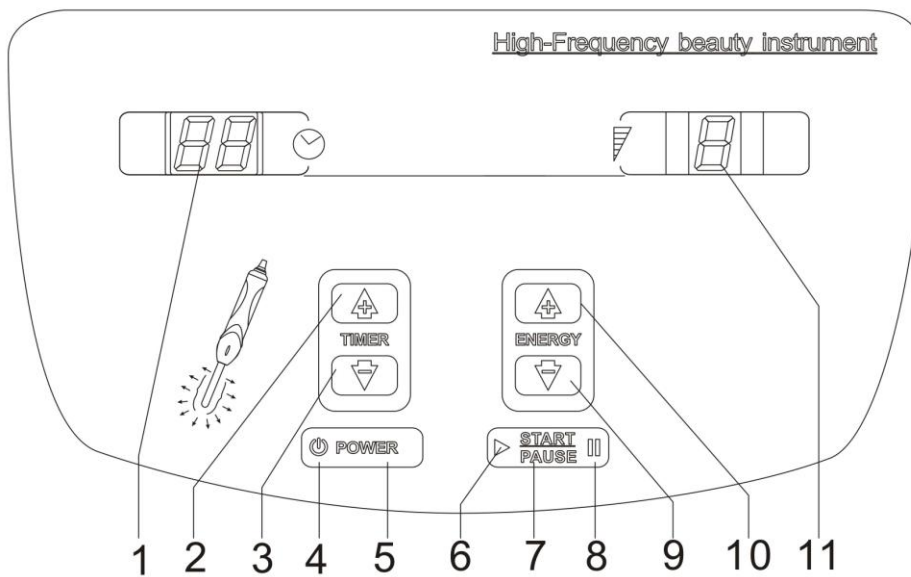
Assembling and Disassembling of Electrotherapy Tube:



1. Glass part of Electrotherapy tube
2. Metal electrode of Electrotherapy tube

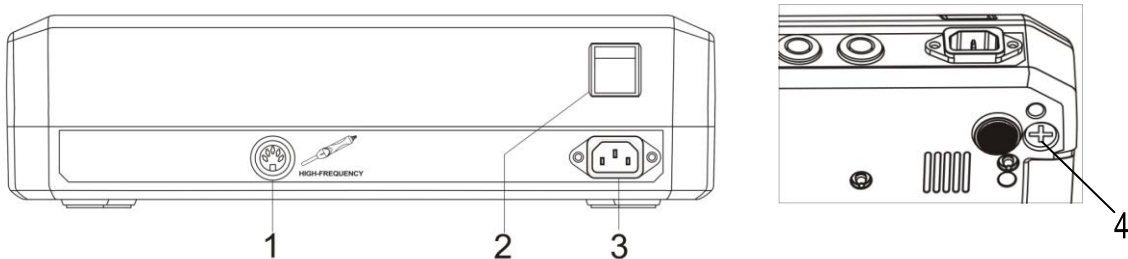
During the assembling and disassembling of electrotherapy tube, hand should hold the parts within dotted line and keep distance with metal part more than 30mm.

Introduction to Control Panel:



1. Time display
2. Time increase key
3. Time decrease key
4. Power indicator
5. Power Switch
6. Start working indicator
7. Start/Pause
8. Pause indicator
9. Energy decrease key
10. Energy increase key
11. Energy display

Introduction to Back Panel :

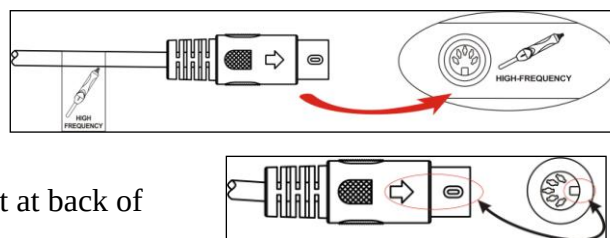


1. High-frequency electrotherapy output 2. High-frequency electrotherapy output
3. Power input plug 4. Protective tube plug

Connection Instruction :

1. Connect the power cable with host machine;

Plug-in flexible cable of High-frequency electrotherapy handle with corresponding output at back of host machine.



2. Switch on the power at back of host machine, the indicator of main power is lighting.

Press the key "POWER 

Stand-by: **HIGH FREQUENCY** function indicator lights;

Time display "15";

Energy display "1";

" pause indicator at right side  lights.

Prompt Volume Adjusting Function:

The prompt volume can be adjusted according to the using environment.

Adjustment: under status of stand-by, press "POWER 

the host machine will automatically save the current setting after energy display flashes for 5 seconds, and return to the current status.

High-Frequency Electrotherapy Function Adjustment:

Under the status of stand-by, press "SELECT FUNCTION" to select High-frequency electrotherapy function. The indicator "HIGH FREQUENCY" lights, the host machine enters the adjustment status; under this status, it is ok to adjust as demand.

Time setting: press key "▲" and "▼" for "TIMER" to set up the working time of host machine, time range 1~30 min.

Energy adjustment: press "▲" and "▼" for "ENERGY" to control the energy output of host machine, adjustment levels 1~9.

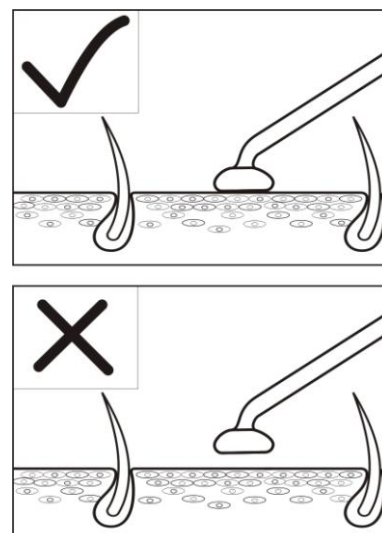
Start or pause output: under the status of stand-by or adjustment completes, press "START PAUSE" to start or pause the output from host machine; when the host is starting output, the start up working indicator ► lights; when the host is pause or stand-by, the pause indicator || lights.

Direct Electrotherapy:

1. The beautician holds the handle of high-frequency electrotherapy (see Fig. right), DO NOT contact the glass electrotherapy tube with hand or metal matter, switches on the power of host machine, and adjusts "ENERGY" to min. Level.



2. Contacts the cured part of client with glass electrotherapy tube (see Fig. right side), and presses "START PAUSE" till the indicator ► lights, slowly press "ENERGY" ▲ key to adjust the energy output and the glass tube will generate ionization lighting until there is output of warm high-frequency current. When face creams or face mask is being used by the client, moves slowly the glass electrotherapy tube from neck toward



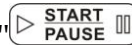
chin, face, cheek, nose and forehead. During the course, adjusts slowly the "ENERGY" level as demand. When the heat is generated face skin, it has effectiveness of appeasement and sedation by directly using high-frequency electrotherapy. Meanwhile it has bactericidal effect, and is suitable for oily and acne skin.

3. After the operation, firstly slowly adjusts down the "ENERGY", presses " key till pause indicator " lights, the output of host machine pauses. And then takes away the glass electrotherapy tube contacting with face.

The Functions of Direct Electrotherapy:

1. Warm vibration is good to appease the skin.
2. Stimulates the circulation of blood, provides nutrition for skin to improve gloss and elasticity of skin.
3. Promotes cell metabolism, helps to breath and excretion of skin.
4. Heating effect on the skin will increase the cell permeability, and helps to improve the absorption ability of skin and enhance the treatment effect.

Indirect Electrotherapy:

Firstly the client holds the straight-bar electrotherapy tube, switches on the power, then presses "", adjusts "ENERGY" to level as demand, the beautician give a massage to treatment part. During the whole course, the beautician does not contact with electrode, and before take away the electrode bar, must press " till pause indicator " lights, and operates after the output stops.

Functions of Indirect Electrotherapy:

1. Stimulates the circulation of blood, promotes cell metabolism.
2. Adjusts and recover the absorption of nutrition and resistance to bacteria.
3. Enhances the activity of skin basement cell by current effect, to improve the massage effect.

Notice for High-Frequency Electrotherapy Operation:

1. Squeak sounds during the normal working of electrotherapy handle.

2. When direct electrotherapy is used, the spark may spray when the glass electrotherapy tube keeps a distance less than 1 inch with skin, and it would simulate the skin which could make uncomfortable. Therefore, the energy level should be adjusted to the minimum one before contacting with skin. If the spark is felt, a dry cotton yarn can be used to cover the face (Refer to the Fig.).



3. The electrode tube should be tightly closed to the face without any gap if direct electrotherapy is available, otherwise, it is easily to generate spark and to stimulate the skin.

4. For treatment of face, 8 min. for oily skin while 3~5 min. for dry skin. The current intensity is stronger for oily skin than for dry skin.

5. When operation with indirect electrotherapy, the beautician should keep one hand on face of the client, to prevent cut-off of current impacting the effect.

6. To prevent electric shock, firstly presses "" before the glass electrotherapy tube contacts with skin, then slowly increases the energy.

7. When takes away the glass electrotherapy tube, firstly adjust the energy to the minimum level, and presses "" to shut down the output, till the pause indicator "" lights, then takes away.

8. "" must be turned off when installs and uninstalls the glass electrotherapy tube.

9. Each glass electrotherapy tube must be kept clean, dry and sterilized before and after used.

10. The electrotherapy handle can be cleaned by towel, DO NOT clean in the water, if it is contaminated by oily dirt, it can be cleaned with absolute alcohol, and kept in dry.

Daily Maintenance:

1. Be care of glass electrotherapy tube during using, and carefully sterilizes.
2. The tightness of electrotherapy tube should be check frequently, test method: puts the tube to be tested into the handle, and places the handle stably on the table, connects with cable of host, starts up the host, and increases gradually the energy output, it is normal to observe the lighting in electrotherapy tube.
3. Periodically wipes the instrument with dry dishcloth and to place in dry, ventilation area, the cable of instrument should be place in order but not twist.

4. The instrument should be wiped with dry dishcloth, DO NOT wet in water.
5. Please switch on the main power after using of instrument every day, and takes away the plug when finishes a working day.
6. The instrument should NOT be placed in sunlight, raining, moisture, dust and smoke accumulated area.

Warning !

1. During using of high-frequency electrotherapy, it is not allowed to contact any metallic, and should be taken off if wearing.
2. The client with sensitive skin, patch skin, patient with acne rosacea, wounded skin surface, pregnant women and body equipped with other instrument (e.g. cardiac pacing instrument) CAN NOT use this function.
3. When using high-frequency electrotherapy, CAN NOT use creams and face mask with content of ethanol. If it has to use toner with ethanol content, it can be used after the high-frequency electrotherapy.
4. DO NOT use each electrotherapy tubes toward eyeball.
5. DO NOT touch high-frequency electrotherapy main input port or handle input port under condition of live host.
6. The plug of accessories flexible cable should be fixed firmly with corresponding outputs of host.
7. This instrument should be operated by professional beauticians, because high-frequency interference will be generated during accessories working, DO NOT close to other electronic instruments. BE CAUTION during using.
8. During working, the cables between accessory and host machine shall not be drawn excessively.
9. Broken mains cord shall be replaced with specific cord or specific assembly from its manufacturer or maintenance departments. It is strongly recommended that the accessory from original factory shall be used.
10. The host machine shall be turned off and the attaching plug shall be pulled out if any abnormal condition occurs. You shall ask the agency or specific serviceman to check and maintain. The main case is not allowed to be opened.
11. It is forbidden to place or use it at bathroom of wet places.
12. It is forbidden to put it together with inflammable and explosive objects.

Check list for common troubles:

S/N	Troubles	Causes	Remedies	Settlements
1	When the general supply at the back of the host machine is turned on, the power indicator is off and pressing “POWER” does not work.	The host machine has not been electrified	1. To check the protective tube of power supply. 2. To check the flexible tube of power supply is well plugged or not.	1. To change the protective tube if necessary. 2. To plug the cord of power supply again.
2	When the general supply is turned on, the light works, but when the host machine is moved, the light glints and the machine cannot be turned on normally.	Power input does not touch well	1. To check the plug of the flexible tube of power supply to see if it is connected well. 2. Whether the flexible tube of power supply is broken or not.	1. Poor connection: to plug the connecting plug between the host machine and electric outlet again. 2. If the flexible tube of power supply is broken, related parts shall be changed in specific maintenance center nearby.
5	When the host machine output is turned on, the sound of “creak, creak” comes from the electrotherapy handle. After regulating output energy higher, glass electrotherapy tube does not work.	Glass electrotherapy tube is broken.	To turn the host machine output and increase output energy. If glass electrotherapy tube weakly or doesn’t shine, it is because the tightness is poor or it has been broken.	Glass electrotherapy tube with a poor air tightness or light must be changed.

To change protective tube:

Disconnect the power of the host machine first. The cover of protective tube shall be unscrewed by a screwdriver. Check the protective tube inside the protective tube case near to the power supply socket of the host machine, and change it with a new 250V/4A protective tube if it is damaged. (As shown in Fig.: 1. Electric outlet 2. Protective tube 3. The cover of protective tube).

