

Cryolipolysis Slimming System

VA-608 USER MANUAL



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Chapter 1 System Overview

1. About cryolipolysis system

Cryolipolysis is the patented name for the Zeltiq procedure, also known as the Coolsculpting procedure.

The outstanding feature of this treatment is that fat bulges are targeted using a special cooling technique. Gradually the fat cells are eliminated over a two to four month period.

The procedure reduces fat in a chosen, targeted part of the body, such as the love handles, back, stomach, or bottom. This method does not require surgery, there is no anesthesia, no needles, no cuts, and it only targets fat cells without harming the skin or any other tissue.

The results of Cryolipolysis are very much the same – just the same as natural fat reduction processes would result in.

There is no need to have pain medication, and most people who have the treatment don't need recovery time and the same day they can get back to work or to their usual exercising.

Cryolipolysis is a restful, painless procedure for most people and as they don't have to be put to sleep, they can utilize their time reading or working on their laptop, or just relaxing.

2. Treatment theory

Call it the 'fat freeze method' for short.

(cryo – cold, lipolysis – the breakdown of triglycerides into free fatty acids within cells.)

This non - invasive 'cold' technology cools the adipose tissue to induce lipolysis reducing body fat without damaging other tissues.

Histological studies in people have documented that a session lasting 60 minutes or less results in a low - grade inflammatory process that continues for 3 months, during which fat cells are engulfed and digested by inflammatory cells and a dermal fibrotic response occurs.

The process involves a chilling device that is placed on the skin to rapidly cool it. It is considered safe and effective for most patients seeking fat removal from targeted areas such as the abdomen, love handles and back. Take a look at the pictures below to see how this method is effective in aiding fat loss from targeted areas of the body.

It is a type of skin treatment that is non - surgical local reduction of fat deposits to reshape body contours. The exposure to cooling is set so that it causes cell death of subcutaneous fat tissue without apparent damage to the overlying skin. The procedure is billed as a nonsurgical alternative to liposuction. It has

been suggested that it is a quick alternative to liposuction, and as it is non - invasive and can be done without serious risks.

3. Applications

- 1) Redundant cellulites explosion
- 2) Redundant cellulites melt
- 3) Body slimming and weight reduction
- 4) Body shaping

4. Contraindication

- 1) Serious disease, such as heart disease, gastric ulcer, serious gastropathy, duodenal ulcer, high blood pressure, diabetes, patients with epilepsy
- 2) Pregnant women, lactating women, an abdominal operation within 3 months, menstrual period, metal pieces in body (such as heart jumping devices etc)
- 3) Treatment on or around testis
- 4) Active herpes or skin damage
- 5) Cold and allergy crowd (example: it is easy to cold hands, cold face, etc. in winter)
- 6) Under empty stomach, must be 1 hour later after dinning

5. Specifications

Power supply	990W
Energy consumption	≤450W
Cooling system	Water+wind+semiconductor
Cooling temperature	-10℃~10℃
LCD display	10 inch color touch screen
Language	English/Danish/Spanish...
Working time	Continuously
Output pressure	0~110Kpa
Humidity	≤80%
Dimension	120*43*47cm
Gross Weight	70kg
Voltage	220V/110V

6. Spare part list

Handle	4Pcs
Power line	1Pcs
Heart monitor	1Pcs
Fat ruler	1 Pcs
Noise canceling earplugs	2Pcs
Funnel	1Pcs
Handpiece holder	One pair (M4*30 screw 4pcs)
Key switch	2Pcs
Fuse	2Pcs
Water-proof membranes	1 volume

Chapter 2 Operation Security Instruction

1. Security introduction

The fat reduction system is high - tech medical equipment with safety and reliability, mainly for removing surplus fat, burning surplus fat, Lymphatic Treatment, skin tightening and improving skin elasticity. Etc. For using the machine safely, operators and assistants must know the security notice in this chapter. Most important, it's the safest design for both treatments all are as following:

- 1) Automatically inspection system after turning on the machine
- 2) The probe adopts silicon rubber (to meet the medical requirements), offering comfortable feeling when touching skin during treatment
- 3) Independent electro circuit, automatically stop working when electric leakage
- 4) The red pause switch facilitates your urgency
- 5) Key switch to prevent any person free to open the device

【Warning】 The improper operation may causes injury. Please observe "HEARTBEATING INDICATOR" on LCD in time and consult with patients at the same time. It will generate high pressure during operation; the operator should be vigilant and operate in accordance with this manual to take the necessary protective measures.

Patients: The Safety of patients mainly relies on well - trained physicians as well as the layout of the appropriate treatment room. Cultural quality of life of patients is also very important; they should understand the principles of treatment. Patients should be protected effectively when treatment.

【MAIN ALARM】

For safe using, should carefully read the alarm notice:

- 1) Except the authorized mechanic, any others have no right to examine and repair this structure; especially inner structure inside of machine that including power supply control block, cooling system, and adjustment of probes etc.
- 2) Make sure whether the voltage of the system is accordant with your resident voltage or not.(220V/110V AC)
- 3) Maintenance must be done after turning off the machine and drawing out the electrical source line. Or it's most possible to hurt people and damage the equipment.
- 4) keep the treatment head/probe clean
- 5) Don't turn on machine in case of water leakage anywhere. Or must cut down power supply immediately.

2. Safety of LVD and EMC

- 1) Keep close both panels and cover board
- 2) High pressure inside equipment. It's possible to deposit electricity in some
- 3) Parts even after switching off. So it's not allowed to disconnect equipment beyond the factory's authorization.
- 4) In maintenance, please turn off machine and disconnect power supply firstly; and then do observe in person.
- 5) Care in moving.
- 6) Ground line connect

【PREVENT FIRE】

1. Please take actions to reduce the flammable risk in treatment room
2. Keep skin clean before treatment
3. When lusterizing the treatment head or other parts by ethanol, please wait till dry.

【SYSTEM SAFETY SETTINGS】

1. There are some safety settings inside equipment, so please know their places and using methods
2. Key: it's used to turn on or turn off machine, only provide by our company
3. Emergency button: the red switch is used to switch off power under emergency. Press downwards to stop power supply immediately; turn right to recover power supply.

【AUTOMATICALLY INSPECTION】

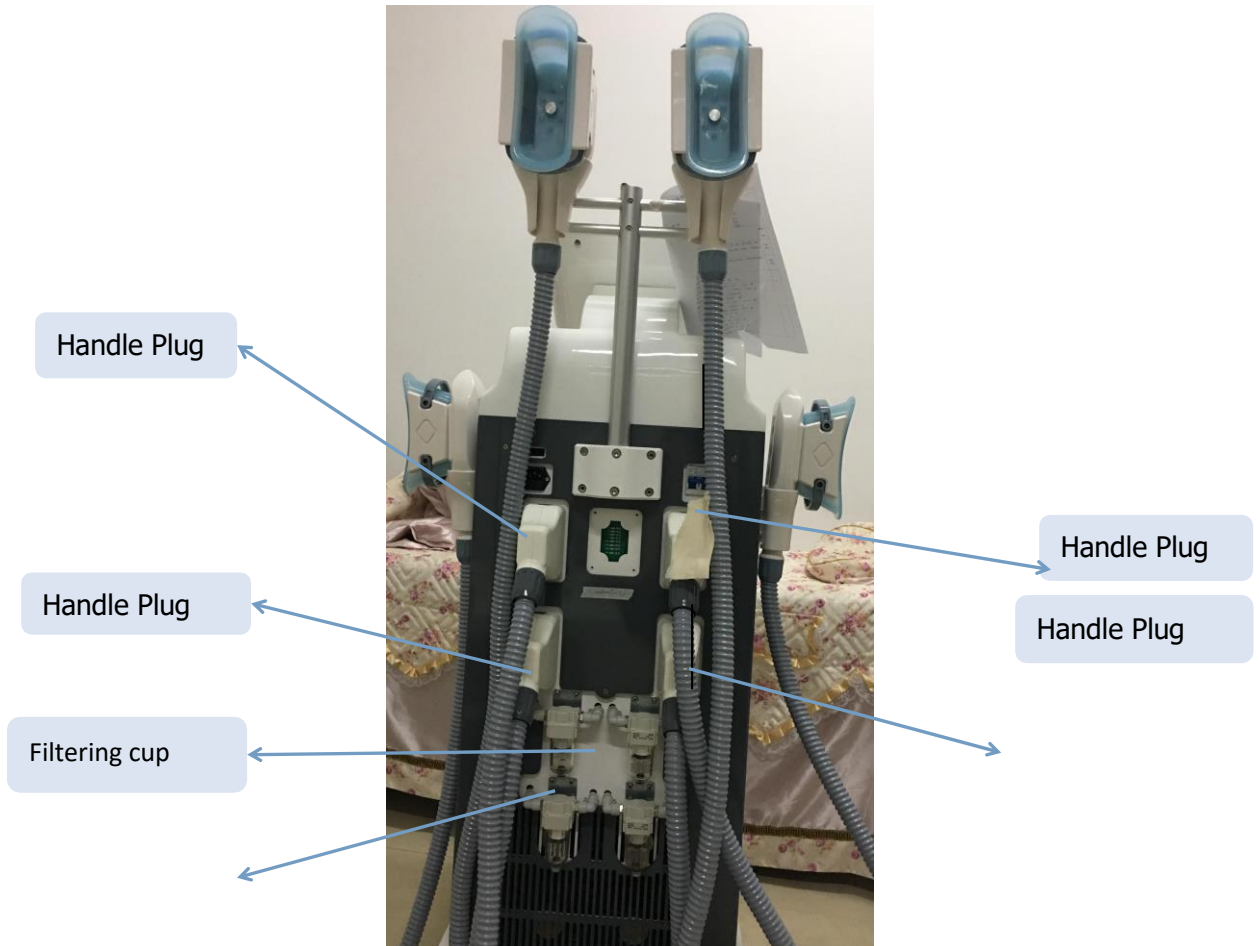
On turning on the machine, it will be inspecting automatically. About 1 minute running automatically, then itenters into the next step.

【LEVEL OF EQUIPMENT】

1. Electric shock protect: level 1,BF level
2. Corrosion resistance liquid: common
3. Operating way: continuous / time setting

Chapter 3 Installation

Please open the packaging box to check up whether machine in good condition and the accessories are complete or not, if machine damaged or the accessories have lost in transportation, please contact the courier and the factory both at the first time. We will do best to help you!





1. Handpiece Connection

It is designed to enable easy replacement of the handpiece when required. The handpiece connection port is located on the back of the panel, and two pins secure the handpiece connector. For insertion and removal of the connector, the upper and lower gray buttons must be pressed at the same time to release those pins.

Note: Force push until hear the connect sound.

Before you open the machine ,you had to install the four handles first.

2.Filling the Coolant Reservoir

The cooling system's reservoir must be filled with deionized water. It is imperative that the level of the water in the reservoir be checked every month and deionized water added if necessary.

Start to inject water (distilled water please):

- 1) Find the water hole;
- 2) Insert funnel;
- 3) When the water is full, it will flow out from "Water Overflow";
- 4) Take of funnel, finish water fill.

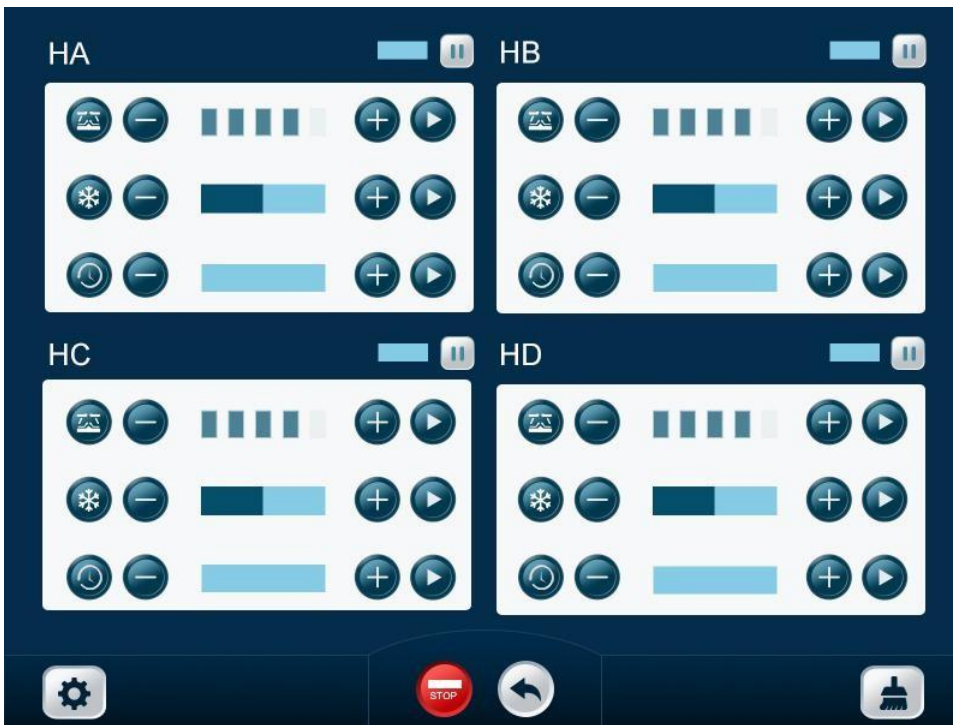


3. Operation instruction notice

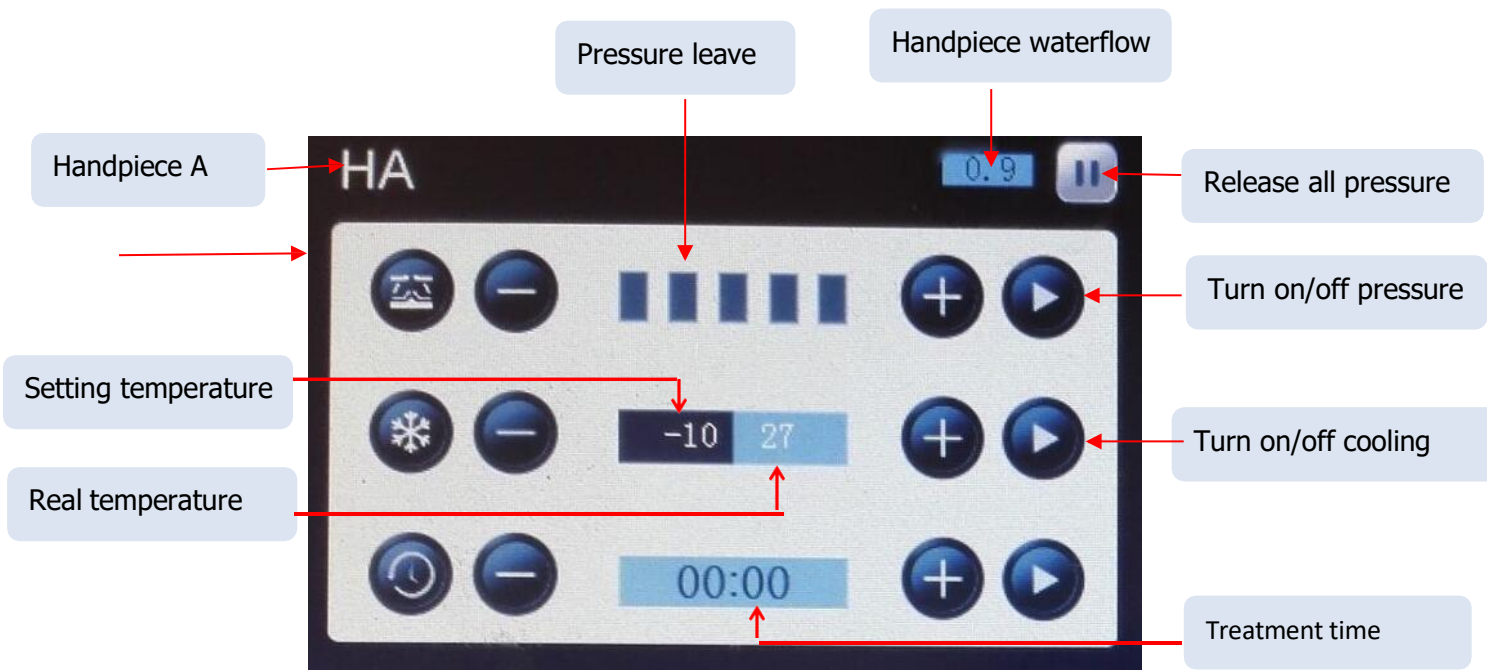
The cryolipolysis machine can be used in hospital or beauty salon. attentions in installation is very important:

- ◆ Open package, place machine on flat ground. We suggest that place machine in a fix place.
- ◆ Check up machine and accessories, make sure no damage, no loss
- ◆ Make sure good condition of power supply, including the ground wire
- ◆ Good condition of all accessories
- ◆ Take care water away from the power socket
- ◆ Function test

Chapter 4 Operation instructions

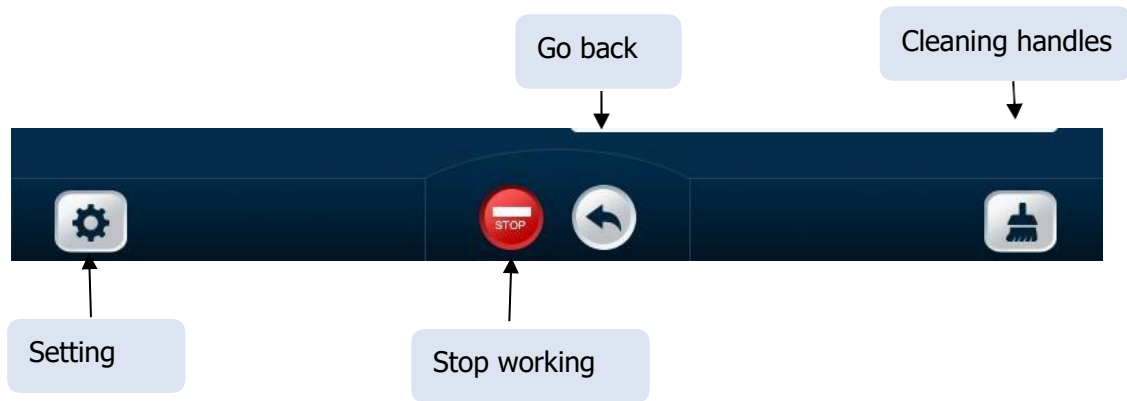


Main interface for control 4 handpieces work. Take one as example:

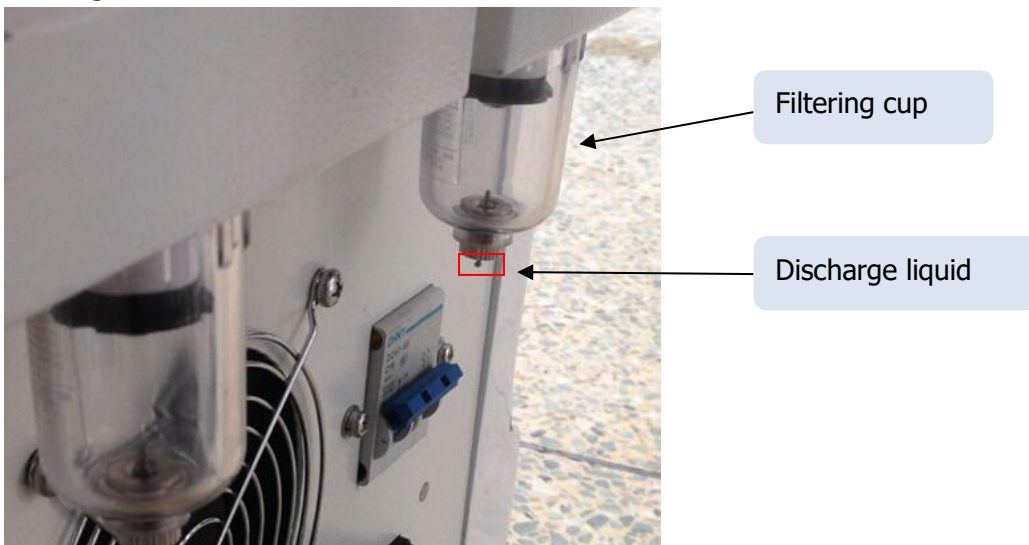


Operation sequence

- 1) Setting the treatment time. (50 minutes for one time)
 - 2) Put the handle on body treatment area Touch the "Turn on/off pressure"
 - 3) Setting the cooling level by cooling level adjust. (usually -6°C to 0°C)
- Touch the "Turn on/off cooling" for start treatment. the machine will stop working automatic when the end of the set time.



Cleaning handles: touch this icon for cleaning handles, **in avoid the oil blocking the vacuum pump.** cleaning time is 30 seconds.



When the filtering cup full, please discharge liquid in cup through extruding this button.

Stop working: Any emergency just touch this icon for stop the machine.

Go back: for to back to main interface

Heartbeat show: show the patients heartbeat through the monitor (need buy 2 pcs AAA 1.5V battery)



Setting: go to setting interface.

The screenshot shows the settings interface with the following callouts:

- Left of handpiece Real-temperature
- right of handpiece Real-temperature
- Water flow Alarm switch
- Water flow show
- Turn on/off sound
- Water temperature Alarm switch
- Water temperature show
- Go back

Handle Type	HA	HB	HC	HD
Left Temp	27 °C	27 °C	26 °C	27 °C
Right Temp	27 °C	27 °C	27 °C	27 °C

Water Flow Alarm		YES	NO
Water Flow I	0.9 L/m		
Water Flow II	0.9 L/m		
Water Flow III	0.9 L/m		
Water Flow IV	0.9 L/m		

Water Temperature Alarm		YES	NO
Water Temperature I	23 °C		
Water Temperature II	30 °C		
Water Temperature III	24 °C		
Water Temperature IV	24 °C		

Note:

The anti-freezing membrane: Try best to make the membrane to be smooth.



Put on the film on the membrane, it can prevent the air from going into the cup, and also prevent the oil, gel and water from going into the handpiece tube and pump.



Treatment



Treatment result



**Cold injury phenomenon:**

Check the therapeutic part and you may have cold injury if the skin becomes harder or has lump. Right now, please use warm towel (30-40 degree) to cover the skin for 10 minutes. Or use hands to massage the lump. The treatment part will have blisters, skin will scab after the bubble bursts, keep cold injury wound clean and dry, apply frostbite cream for a few days and the wound would heal.

Chapter 5 Clinical guide

1. Treatment Setting

- 1) 30-60 minutes for each part (depending on thickness of fat and health status).
- 2) You can only treat cellulite part by part, for example, to dissolve cellulite of the entire waist, you need to complete several courses. (Please do not treat more than two parts of body in the same cause of treatment).
- 3) Take a another cooling procedure at the same position 2 months after the first course, which can reduce the extra fat layer thickness, twice treatment, can enhance the effect of cryolipolysis.
- 4) The freezing fat treatment designed for localized hypertrophic fat accumulation area, physical healthy people, but not suitable for overall obesity. Treatment mainly for a particular part, such as waist fat, belly and back, and other local cellulite. Treatment is not omnipotent and can not cure obesity, it can not replace liposuction or other invasive therapies. A Substantial weight loss should be through a balanced diet and do regular exercise, freezing fat treatment can only be carried out for extra fat.
- 5) Proposed use of clinical parameters.[according to Clinical situation]

2. Skin Antifreeze

Qualified antifreeze should be used during the treatment, that avoid frostbite when temperature lower to the 0 to -40 degree. [Consumables, purchase on your own]

3. Operation Process

- 1) Please checking whether the machine has full water before turn on the machine.
- 2) Test the heart rate of the people who is receiving the treatment, whether it is normal and ask them there is other disease inapplicable to the treatment.
- 3) Check the thickness of the fat, with the help of fat pliers testing.
- 4) Clean treated area, Clear the hair of the treated area.
- 5) Mark the size of treatment area.
- 6) Open the package of antifreeze membranes.
- 7) Take out the antifreeze membrane and put is on the treatment area.
- 8) Start vacuum suction.



4. After Treatment

Damage, minor frostbite, skin pigment may occur at the treated area, care properly

5. Caution

- 1) The machine must be operated by professionals.
- 2) Banned in no case of anti-freeze membrane treatment, during the course of treatment must ensure anti-freezing film completely cover the treatment part, otherwise can appear frostbite, etc
- 3) According to the clinical, Individual physical users may occur frostbite reaction, you can raise the temperature according to fat thickness or consult professional doctor
- 4) Patients using the following medical electrical equipment can not use the machine.
 - Implanted cardiac pacemakers or other implanted electronic devices;
 - Life-sustaining artificial heart-lung machines and other equipment;
 - Portable ECG measurement equipment;
- 5) The following patients should be agreed by the professional doctors before using the equipment.
 - Patients with acute disease;
 - Malignancy;
 - Patients with Infectious diseases;
 - pregnant women;
 - Patients with heart diseases;
 - Patients with fever;
 - Patients are receiving treatment or those with abnormal body phenomenon;
- 6) The following patients using this device should be taken care of
 - Sensory or physically impaired persons

6. Announcements on Clinical

Freezing fat machine can freeze fat ,at the same time, it may have the following risks:

- 1) Now research shows that individual who has skin without cold-resistance will have cold injury phenomenon when chose -5 degree or below. We suggest 5-0 degree for this kind of crowd.
- 2) For customers who use for the first time, they shouldn't choose below -8 degree. -8 degree to -10 degree is suitable for fat layer thickness reaching 55mm or more .Please don't use it if the fat is less than 55mm, or it will have risk of cold injury.
- 3) If the liquid in anti-freezing membrane is too little (Normal is opening the package, you can see there is little liquid in bag or the membrane is very moist),please do not use. Abundant liquid can well protect the skin from been frostbite.
- 4) Please check if the anti-freezing membrane can fully cover the treatment area. The skin will have cold injury in 2 minutes without the membrane.
- 5) For sucking in the skin at the beginning of the treatment, you can choose high vacuum pressure, after 3 minutes ,please adjust pressure to low vacuum pressure ,Long time in high pressure during the treatment will increase the risk of skin blisters.

Cold injury phenomenon:

Check the therapeutic part and you may have cold injury if the skin becomes harder or has lump, please use warm towel (42 degree) to cover the skin for 10 minutes. The treatment part will have blisters, skin will scab after the bubble bursts, keep cold injury wound clean and dry, apply frostbite cream for a few days and the wound would heal.

Another processing method:

- △For larger blister, please dry up the liquid inside the blister, bandage it with soft dry gauze, or expose it after applying frostbite cream;
- △Please use antibiotic wet gauze if the wound is infected, and then use frostbite cream .
- △Please go to see doctors if the situation gets serious.

7. Contraindications

- ✧ Liver problems;
- ✧ The Raynaud's disease;
- ✧ Severe cold urticaria;
- ✧ Cryoglobulinemia;
- ✧ Cold fiber hypoproteinemia;
- ✧ Severe frostbite;
- ✧ Severe diabetes and the elderly, young children, frail and so intolerant of cryotherapy.

Q&A about Freeze Fat dissolving Method

Q1:What is the process of the freeze fat-dissolving method?

A1:Complete the treatment table — Ask and check the physical condition Locate the treated area — Paste antifreeze membrane — Begin to treatment — Having a rest after finished, if no discomfort you could leave.

Q2:How does the freeze fat-dissolving method work?

A2:Frozen wave controlled by non-invasive launcher precisely work on the treated parts, in particularly the parts of the body that need to remove the fat cells. the whole Process lasts about 1 hour.

Q3:What are the characteristics of the second generation freeze fat-dissolving method ?

A3:The second generation of freeze fat-dissolving method is developed by us Technology and obtain patent: according to the first generation of pure freeze system that will cause blood coagulation and tissue necrosis damage, we improve to a safe fat dissolving method that heat the skin first, make the blood and fat completely separation and then began to the freeze fat dissolving treatment.

Q4:what reactivity of the fat cells?

A4:When fat cells are exposed to precise cooling, they trigger a process of natural removal that gradually reduces the thickness of the fat layer. And the fat cells will be removed through the body's normal metabolism process mildly.

Q5:What is common reaction after treatment ?

A5:The treatment is completely non-invasive, allows real-time normal activities such as work or sports. Treatment area may be red, the situation may last several minutes or several hours. It may also lead to local bruising and will subside within a few weeks. Some patients will feel a little non-sensitive of the treatment area, it will subside in one to eight weeks .

Q6:Dose the treatment pain?

A6:Most of treatment course feels comfortable . In clinical trials, no treatment need to use anesthesia or pain medication, the patient can usually read freely, use computer, listen to music, or have a rest.

Q7:How long the effect will maintain?

A7:It depends on personal diet habits and vary with the corporeity. The efficacy after the treatment could maintain at least 1 year in the user of reducing fat layer .The removed fat cells will gradually release the lipids and absorbed by natural metabolism of the body. We expected that the removed fat cells returned to the treatment area are more slowly than the invasive treatment such as liposuction. However, irregular diet will lead to weight gain and may affect the treatment results .

Q8: Which group is suitable for this therapy?

A8:Postpartum abdominal relaxation, regular exercise but no effect on thin waist, abdomen. Busy life and no time do exercise. Stool hoarding gastrointestinal squirm slowly. Can not refuse the temptation of delicious food. People non-severe obesity who want to sculpture the fat of waist /belly and backfat.

Q9:What is different from other with other dissolving fat methods?

A9:**Liposuction:**

Benefits: one time can take away a lot of fat.

Notice: need general anesthesia whole body, may be leave scars, or appear body asymmetry, and a risk of fatal .

RF energy or strong sound waves fat exploded:

Benefits: it can deal with the deep fat.

Notice: maybe damaged normal cells and feel pain.

Freeze fat dissolving method:

Benefits: no harm normal cells .

Notice: You must control the need treatment area accurately, and appear swelling after treatment.

Q10:how long a treatment last?

A10:Each course last about one hour, we recommend doing 2-3 treatments every two or three months.

Q11:Does the course has a recovery period?

A11:The freeze fat dissolving method is non-invasive treatment, both before and after treatment will not affect normal lifestyle, office ladies even can do treatment at noon break.

Q12:What is the feeling during the treatment?

A12:Using of exact computer program to control the temperature accurately within the safe range. The first five minutes you have warm feeling, than the treatment area will feel cold gradually. In clinical experience, no one needs to use medication for pain because of no invasive wound, therefore we will not feel painful unlike other liposuction surgery. At the very beginning of treatment, there will be a little discomfort when the work head absorb fat powerfully, but soon will disappear. After a while you will feel a little cooling paralysis, there is no special feeling. During treatment you could play computer,read or take a nap.

Q13: which group are not suitable for freeze fat dissolving method?

A13: People who have liver problems, the Raynaud's disease, severe cold urticaria, cryoglobulinemia, cold fiber hypoproteinemia, severe frostbite, hernia disease, severe diabetes and the elderly, young children, pregnant woman, frail and so on frozen not tolerate the treatment.

Treatment table

Clinical Parameters Setting Reference

Thickness	< 20mm	20-40mm	30-50mm	50-60mm	> 60mm
Temperature	0°C to -2°C	-1°C to -3°C	-1°C to -4°C	-1°C to -5°C	-1°C to -6°C
Time	45mins	45mins	40mins	40mins	40mins
Session	2 times/part	2-3 times/part	2-3 times/part	2-4 times/part	2-4 times/part
Intervals	35 -45 days	30-40 days	30-35 days	25-30 days	23-28 days
Vacuum level	According to the customer endurance				
Scar constitution and allergic constitution need more careful, use high temperature and less vacuum level.					

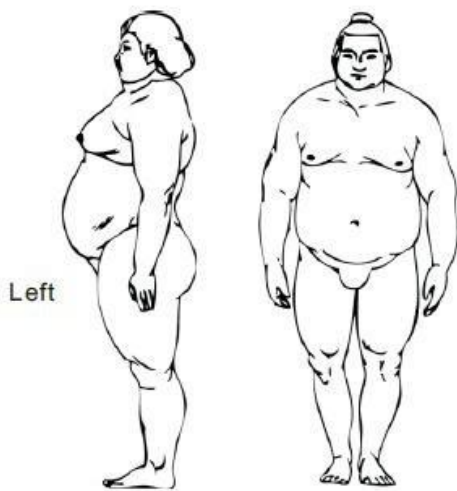
Name		Sex		Age		NO:
Height		Weight		Heart rate		

Ask before treatment:

- | | | |
|---|---------|--------|
| 1. Have liver disease or not? | Yes [] | No [] |
| 2. Have Raynaud's disease or not? | Yes [] | No [] |
| 3. Have severe diabetes or not? | Yes [] | No [] |
| 4. Have cold hyperfibrinogenemia or not? | Yes [] | No [] |
| 5. Have cryoglobulinemia or not? | Yes [] | No [] |
| 6. Have serious cold urticaria or not? | Yes [] | No [] |
| 7. Have surgery during the year or not? | Yes [] | No [] |
| 8. Have done more than 2 parts of cryotherapy in a month? | Yes [] | No [] |

If any answer is yes, please do not accept this therapy.
Individual physical users may occur frostbite reaction, if not accept, please do not accept this therapy.

Customer Signature:
Date:



Mark the treatment area and assign a number

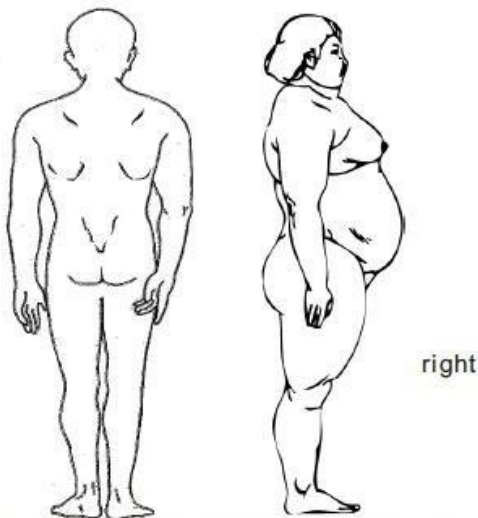
Part 1

Treatment start date: D M Y
 Treatment time: min
 Temperature: _____

Countercheck 2 months after treatment:
 Good effect [] Ordinary []
 The second course start date: D M Y
 Treatment time: min
 Temperature: _____

Countercheck 3-6 months after treatment:
 Good effect [] Ordinary []

Please take photos before and after treatment



Mark the treatment area and assign a number

Part 2

Treatment start date: D M Y
 Treatment time: min
 Temperature: _____

Countercheck 2 months after treatment:
 Good effect [] Ordinary []
 The second course start date: D M Y
 Treatment time: min
 Temperature: _____

Countercheck 3-6 months after treatment:
 Good effect [] Ordinary []

Please take photos before and after treatment

Use this form please copy

Chapter 6 Maintenance

1. Normal problems

1) No power in the machine

Solution:

- a. Check the emergency button, if it's bounced up, then it's on, otherwise it's off;
- b. Check up the power supply control switch at the rear panel;
- c. Check the power line broken or not, and whether there is short circuit;
- d. Check the insurance wire which is behind the power;
- e. Check the power plug.

2) Machine stop working automatically

Solution:

- a. High pressure interfere, check up whether there is high-power electrical around or not;
- b. The software is out of control, should replace the microchip or replace the controller;

3) Bad vacuum pressure

Solution:

- a. Check up whether treatment handle close to skin or not;
- b. Check up whether good working on vacuum pump or not;
- c. Check up whether bad condition of air pipe.

4) Common maintenance and repair

- a. The machine should be avoid of insolation;
- b. After treatment, use some cloth to cover the machine and avoid dust;
- c. Clean the treatment handle after treatment;
- d. Keep the machine in a dry room;
- e. Unprofessional operators are not allowed to use.

2. Daily maintenance

- a. Keep machine away from sun exposure;
- b. Cover treatment handles and mainframe after treatments, avoid dust cover.;
- c. Carefully hold the treatment handles;
- d. Change water every 3 months (pure water or distilled water only);
- e. Put machine in a dry and dust-free room;
- f. Non-professional operator is not allowed to operate the machine.