

Cryolipolysis Machine



User Manual

STATEMENT

Dear users:

Thanks for using our company's products, in order to fully make use of the products, we sincerely suggests follow:

- ◆ Please read the instruction in detail and keep it well for further reading and consulting.
- ◆ Please follow the instruction to fit and operate the machine correctly.
- ◆ Please do not remove and change any accessories of the machine.
- ◆ It forbids others to open and remove the mainframe except the authorized people in the company.
- ◆ It forbids others to change and maintain the machine except the professional people.
- ◆ Please contact us if there is any trouble during operation.

Chapter 1 Technical Background

Too much fat can damage people's appearance and athletic ability, and may also cause various diseases. Too much fatty tissue can be located in various parts of the body, including the thigh, buttocks, abdomen, knee, back, face, arms and other areas. And an excess of adipose tissue may be cause ugly appearance formed by cellular. Excess body fat also related to significant health risk. So we need effective method to control or dissolve excess body fat.

Liposuction is a cosmetic surgery procedure that slims and reshapes specific areas of the body by removing extra fat deposits. Usually operated by the Plastic Surgery or dermatologist with a special surgical instrument for liposuction, it is an invasive way to remove subcutaneous fat tissue.

There are also possible fatal complications and negative side effects associated with having liposuction. These temporary factors include swelling, painful bruising, pain, numbness, limited mobility and allergic reaction. In addition, liposuction is of high cost. There are other new emerging technologies to remove subcutaneous adipose tissue, including Mesotherapy laser-assisted liposuction and high-intensity focused ultrasound.

Other non-invasive way to remove excessive fat including drugs, diet pills, regular exercise, diet control, or a combination of these methods. A disadvantage of these treatments is likely invalid, and even in some cases impossible. For example, when a person physically injured or sick, you can not select the way of regular exercise. Similarly, when the diet pills or external use of drugs are allergic or cause adverse reactions, in addition, the use of physical or systemic approach to lose weight, you can not dissolve the body fat of a selected area.

The Cooling procedure using Cryolipolysis is fundamentally different from other non- or minimally invasive modalities, and it was approved as the most effective way to fat reduction.

This revolutionary of new fat loss method, which is approved as an important technology progress in fat reduction since it is put into use. For those people who are on diet, do regular exercise but still remove local fat, Cryolipolysis definitely a great gift. For fat intensive parts and less parts, such as love handles (flanks), and back fat. (Loose fat above the hip on both sides of waist), belly and back fat, Cryolipolysis can produce stunning results.

Chapter 2 Working Principle

As the feature of triglyceride in fats will be converted into solid in particular low temperatures, it uses advanced cooling technology to selectively target fat bulges and dissolve fat cells through a gradual process that does not harm the surrounding tissues, reduce unwanted fat, 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 in the treated area are gently dissolved through the body's normal metabolism process, to dissolve unwanted fat.



Chapter 3 Before Transportation

1. The water should be discharged before transportation.
2. Method:

Open the Discharge Water Hole to discharge the water. It is allowed to shake the machine smoothly to help the water get out completely.

Notice:

While discharging the water, the cooling fat dissolving handle should be placed at the handle holder.

Chapter 4 Procedure for Injecting Cooling Water

Step 1: Take off the screw cap of the Overflow Hole and Air-Block Hole, place a bucket or bowl underneath these outlets.

Step 2: Connect soft end of water pipe to funnel.

Step 3: Remove plastic stopper tube from Immit Water Hole by pressing black outer ring, Insert hard end of water pipe into Immit Water Hole.

Step 4: Carefully pour cooling water into the funnel - Lift the funnel higher than the equipment in order to inject water easily.

Step 5: When water flows out from the Air Lock Hole, replace screw cover.

Step 6: When water flows out from the Overflow Hole, Which means the water injection is finished and water tank in the equipment is full to capacity. Replace Overflow Hole screw cap.

Step 7: Remove water pipe from Immit water hole, replace stopper. Check for any internal or external leaks, clean up any water spillage.

Note:

1. When injecting into the water, please put the body work handle on lower place that closes to the ground.
2. It is helpful for the machine to change the water per month for it.

Chapter 5 Using the Device Interface

5.1 The Welcome Screen

Switch on the machine by pressing the button, the screen displays the welcome interface as below:

5.2 The Operation Screen



5.3 Parameters Introduction

Pressure: It is used for adjusting the ability of suction of the handpiece. The range is 1 to 5, 1 step.

Freezing: It is used for adjusting temperature of freezing. The range is 0°C to -15°C, 5°C is a step.

Work time: It is used for adjusting the working time of the machine. The range is 1 min to 60 min.

5.4 Parameters 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 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 is mainly for a particular part, such as waist fat, belly, the back or 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.

5.5 Skin Antifreeze

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

Chapter 6 The Procedure of Operation

1. Please checking the water firstly before turn the machine on. If there is no enough water, fill more.
2. Test the heart rate of the people who is receiving the treatment, whether it is normal [50-100] and ask them there is other disease inapplicable to the treatment.
3. Check the thickness of the fat, with the help of fat calipers.
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. First, take out the small antifreeze membrane and smear the edge and inside of cooling fat dissolving handle.
8. Then open the big antifreeze membrane as shows.
9. Paste antifreeze membrane on treatment area as shows.
10. Patients receiving the treatment should lie on the bed.
11. Choose the freezing treatment according to thickness of fat.
12. Make the cooling fat dissolving handle to suck the treated area gently.
13. Click  to start the machine working.

Chapter 7 After Treatment

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

Chapter 8 Caution

1. The machine must be operated by trained operators.
2. Banned in no case of anti-freeze membrane treatment, during the course of treatment must ensure anti-freezing film completely cover the rapeutic part; otherwise can appear frostbite, etc.
3. According to the clinical, you can raise the temperature according to fat thickness or consult professional doctor.
4. Cautions especially: The same people please do not treat a large area of body or treat the adjacent part

of the body that have been treated in the same course of treatment(in 1~2 months).As below picture shows: if you operate of part ①, you can not operate the part ② or part ④, so you can only operate part ③. If you against this regulation, Light will cause the metabolic disorders, Heavy then cause metabolic acidosis and the toxins from the body doesn't stranded.

5. Patients using the following medical electrical equipment can not use the machine.

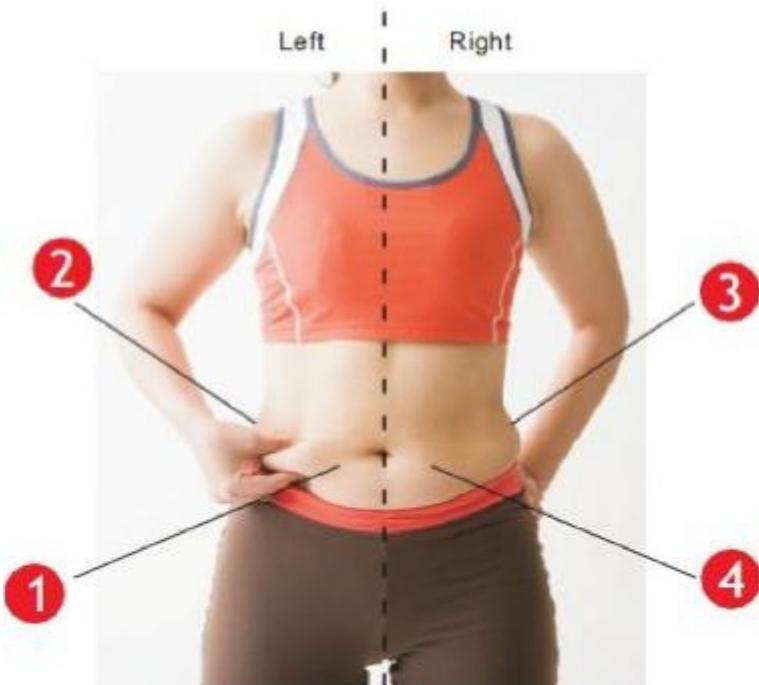
- Implanted cardiac pacemakers or other implanted electronic devices;
- Life-sustaining artificial heart-lung machines and other equipment;
- Portable ECG measurement equipment;

6. The following patients should be agreed by the professional doctors before using the equipment.

- Patients with acute disease;
- Malignancy;
- Patients with Infectious diseases;
- Regnant women;
- Patients with heart diseases;
- Patients with fever;
- Patients are receiving treatment or those with abnormal body phenomenon;

7. The following patients using this device should be taken care of.

- Sensory or physically impaired persons;



Chapter 9 Announcements of Treatment

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°C or below. We suggest $5-0^{\circ}\text{C}$ for this kind of crowd.
2. For customers who use for the first time, they shouldn't choose below -8°C . -8°C to -10°C 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 5 pressure, after 3 minutes, please adjust pressure to 4, long time in high pressure during the treatment will increase the risk of skin blisters.

6. 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.

Chapter 10 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;

—Patients has physiologiactal hypotonic.

Chapter 11 Maintenance

1. Appliances and medical equipment close to the machine may be resulting in operational failure due to Interference.

2. Prohibit use of the equipment in the following environment:

—Hot and humid environment

—Dusty environment

—Environmental with much smoke or steam

3. If there comes a failure, please shut down the power immediately, and send it to the distributor or manufacturer for maintenance. Do not repair by yourself.

4. Empty the water tank firstly during transportation or long time no use and it should be filled properly before use.

Chapter 12 Technical Specifications

Power	800W
Vacuum	650mmHg
Vacuum Pressure	0 - 130Kpa
Power Consumption	≤ 700W
Pump Flow	70L / min
LED Wavelength	620nm-770nm
Temperature in the handle	+5~-15°C
Handpiece	2 pieces
Fuse Size	F8AL250V
LED Color	7 colors (red, white,yellow,green,cyan,blue and purple)
Display	10.4" TFT color touch screen
Ambient temperature	5 °C ~ +40 °C
Relative Humidity	≤ 80%
Voltage	220V/50Hz or 110V/50Hz

Chapter 13 List of Accessories

Item	Qty	Check Item
Main Unit	1	
Treatment Handle	2	
Plastic Holder for Handle	1	
Plastic Holder for tube of handle	1	
Metal tube for Holder	4	
Screws for Holder	12	
Water pipe	1	
Funnel	1	
Electrical source line	1	
Training Manual	1	
Spare Fuse	1	

Chapter 14 Q&A about Cryolipolysis

Q 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 BECO 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 metabolization 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 varies 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 squirms slowly, which can not refuse the temptation of delicious food. People with non-severe obesity who wants to sculpture the fat of waist /belly and back fat.

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 have 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 is not suitable for freeze fat dissolving method?

A13: People who has 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

Name		Sex		Age		No.
Height		Weight		Heart Rate		
<p>Ask before treatment:</p> <p>1. Have liver disease or not? Yes[<input type="checkbox"/>] No[<input type="checkbox"/>]</p> <p>2. Have Raynaud's disease or not? Yes[<input type="checkbox"/>] No[<input type="checkbox"/>]</p> <p>3. Have severe diabetes or not? Yes[<input type="checkbox"/>] No[<input type="checkbox"/>]</p> <p>4. Have cold hyperfibrinogenemia or not? Yes[<input type="checkbox"/>] No[<input type="checkbox"/>]</p> <p>5. Have cryoglobulinemia or not? Yes[<input type="checkbox"/>] No[<input type="checkbox"/>]</p> <p>6. Have serious cold urticaria or not? Yes[<input type="checkbox"/>] No[<input type="checkbox"/>]</p> <p>7. Have surgery during the year or not? Yes[<input type="checkbox"/>] No[<input type="checkbox"/>]</p> <p>8. Have done more than 2 parts of cryotherapy in a month? Yes[<input type="checkbox"/>] No[<input type="checkbox"/>]</p> <p>If any answer is yes, please do not accept this therapy.</p> <p>Individual physical users may occur frostbite reaction, if not accept, please do not accept this therapy.</p> <p style="text-align: right;">Customer Signature:</p> <p style="text-align: right;">Date:</p>						
<p>Mark the treatment area and assign a number</p>				<p>Part 1</p> <p>Treatment start date: D M Y</p> <p>Treatment time: min</p> <p>Temperature: °C</p> <p>Countercheck 2 months after treatment:</p> <p>Good effect [<input type="checkbox"/>] Ordinary [<input type="checkbox"/>]</p> <p>The second course start date: D M Y</p> <p>Treatment time: min</p> <p>Temperature: °C</p> <p>Countercheck 3- 6 months after treatment:</p> <p>Good effect [<input type="checkbox"/>] Ordinary [<input type="checkbox"/>]</p> <p>Please take photos before and after treatment</p>		
<p>Mark the treatment area and assign a number</p>				<p>Part 2</p> <p>Treatment start date: D M Y</p> <p>Treatment time: min</p> <p>Temperature: °C</p> <p>Countercheck 2 months after treatment:</p> <p>Good effect [<input type="checkbox"/>] Ordinary [<input type="checkbox"/>]</p> <p>The second course start date: D M Y</p> <p>Treatment time: min</p> <p>Temperature: °C</p> <p>Countercheck 3- 6 months after treatment:</p> <p>Good effect [<input type="checkbox"/>] Ordinary [<input type="checkbox"/>]</p> <p>Please take photos before and after treatment</p>		