

# JLM-503 Cryolipolysis User Manual

VER:10.1

User's manual



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## **WARNING**

**Dear users:**

**Thank you for choosing the apparatus designed and manufactured by the Company. In order to enable the product to function properly, we sincerely make the following recommendations:**

- ◆ ◆ Before using the apparatus, please carefully read this manual and properly store it for prompt reference to it in future.**
- ◆ ◆ Please install, use and operate correctly according to the requirements in the manual.**
- ◆ ◆ Do not disassemble this unit or modify any parts of it.**
- ◆ ◆ It is strictly forbidden to open and remove the cover and disassemble the main machine, unless otherwise authorized by the Company.**
- ◆ ◆ Non-professional personnel are strictly forbidden to implement any maintenance and modification.**
- ◆ ◆ In event that any failure happens during operation, please contact us in time.**

**This product is not a medical device, and its intended use is not disease treatment!**

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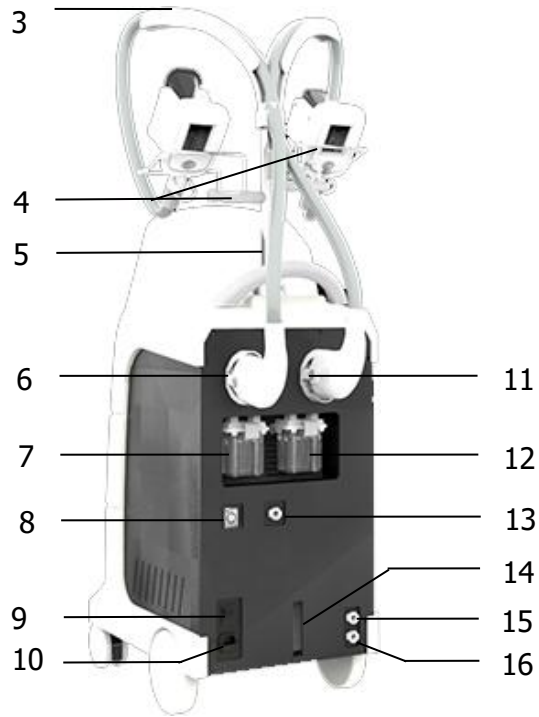
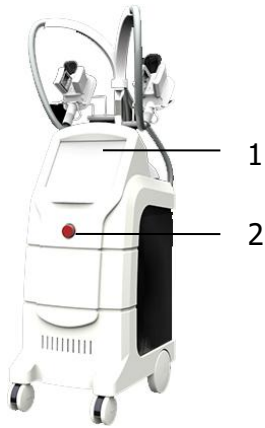
## Technical characteristics

- ◆ 15 inch colorized touch screen control, simulation modeling of dynamic 3D interface, human-computer interaction design unique, simple and convenient operation;
- ◆ The utility model has the advantages of comfort and labor saving, convenient operation and exquisite appearance, according to the design of human engineering;
- ◆ Patent design of separation technology, through the warm-up of the skin before the refrigeration, fat soluble design, can effectively prevent the skin in a long time below 5 degrees Celsius.
- ◆ Exclusive development of freezing point reduction and surface active dosage form antifreeze film, can effectively prevent frostbite;
- ◆ Automatic water adding and monitoring function, the air pressure in the comb passage can be filled with water tank and hand channel at one time;
- ◆ Automatic cleaning and monitoring function to effectively clean the sediment of the hand pipe and protect the core components of the gas path to avoid damage;
- ◆ The omnibearing stereoscopic intelligent monitoring system can monitor the water level, the coolant flow rate, the liquid level of the cooling system, the filter level and the air pressure of the two channel hand system in real time;
- ◆ Intelligent alarm system, through monitoring the system feedback data processing, analysis and processing, quickly and effectively respond to the abnormal situation to ensure the normal operation of the whole system;
- ◆ Super intelligent instrument self inspection system, whether the core components of the monitoring system is in the normal state or how many deviations from the factory are in order to ensure that the instrument is in good condition.

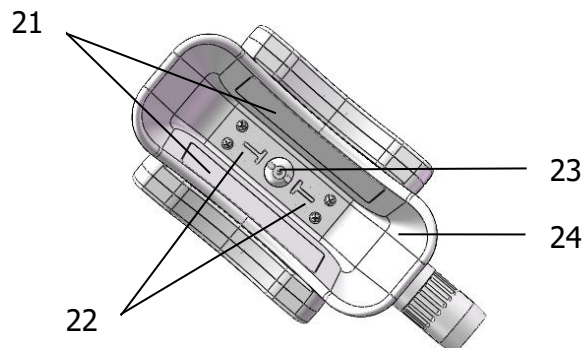
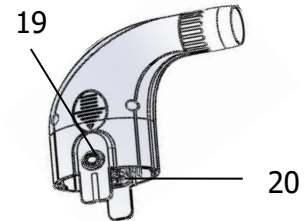
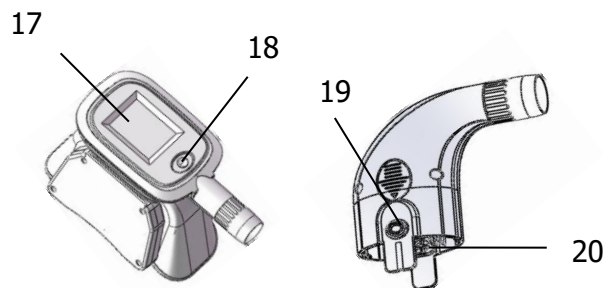
## Main efficacy

- 1、 Remove the waist, abdomen, legs, arms, back and other parts of fat;
- 2、 Solve cellulite problems caused by cellulite and cellulite;
- 3、 Firming tissue to prevent relaxation;
- 4、 Make body more beautiful.

## Instrument attachment description



- 1.master control touch screen
- 2.emergency stop button
- 3.support frame
- 4.accessories rack
- 5.support rod
- 6.channel 2 jack
- 7.channel 2 filter
- 8.emergency hand hold switch jack
- 9.power switch
- 10.power jack
- 11.channel 1 jack
- 12.channel 1 filter
- 13.coolant inlet
- 14.coolant level window
- 15.overflow port
- 16.coolant outlet
- 17.fat soluble head display screen
- 18.grease head control button
- 19.plug button
- 20.plug in jack
- 21.fat soluble head refrigeration zone
- 22.red / blue indicator light
- 23.negative pressure port
- 24.negative pressure adsorption zone



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## 附 件



cryo head No. 100



cryo head No. 150



cryo head No. 200



Emergency hand hold switch



Fat thickness gauge



Bandage

## Basic operation of instrument

1. Mounting steps of brackets and accessories:
  - 1) Insert the support bar [5] into the chassis support base and lock the back with the six corner screw in the M6;
  - 2) Place the support frame [3] at the top of the support rod [5] and lock it with six corner screws in the M6;
  - 3) Press the button [19] on both sides of the handle and plug the handle into the interface [6] or [11]. The connecting pipe is placed on the attachment rack [4] through the support frame [3];

The brackets and accessories are installed.

2. Coolant filling and discharge;
  - 1) Use pure water or special cooling liquid;
  - 2) Insert a special funnel into the coolant inlet [13];
  - 3) Add coolant to the coolant level, window [14], value 8 or more;
  - 4) Initial liquid completion;

5) Insert a special funnel into the coolant outlet [16] to drain the coolant.

Note: The coolant is recommended to be replaced every 3 months. For 15 days or more without using this instrument, it is recommended that the coolant be removed.

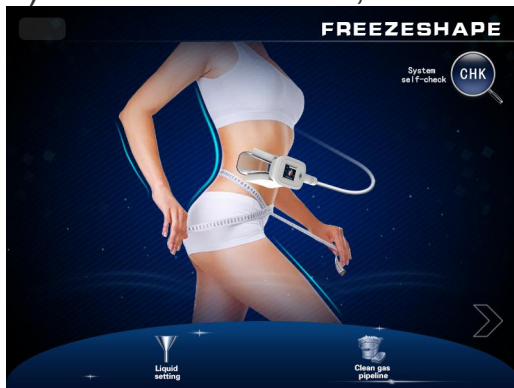
3. Panel control operation:

1) Connect the power cord to the host power interface [10];




2) Turn on the power switch up, [9];

3) Clockwise rotation stop button [2], instrument switch on;

4) Enter the interface, such as (Figure one);



one




2. Click the icon on Figure one “” go to the coolant filler page, such as (Figure three), and click the start icon “” start coolant filling and display the water level of the tank. click on the icon “” back to figure one, the main interface



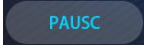



three



Four

3. Click the icon on Figure one “” enter the fat head automatic cleaning page, such as (Figure four), and click the start icon “” start cleaning and monitor the filter level. when the filter is above the warning level, the instrument alarms and stops automatically. click on the icon “” back to figure one, the main interface


4. Click the icon on Figure one “” go to the instrument self check page, such as (Figure five), and click the icon “” Start the self-test and click the icon “” stop, click “” back to figure one, the main interface.



Five



Six

1) Click on any of the central areas of the chart to enter the instrument settings page, as shown in Figure six. Click the icon “” enter the thermal mode parameter settings page, such as (Figure seven), with channel 1 as an example;

2) Click the "mode" right "<" and ">" choice for professional heat treatment, M1 mode, hot and cold alternately, hyperthermia skin heating, promote local activities, reduce the freezing treatment

in the process of discomfort. Then the temperature gradually decreased, reduced to a set of freezing temperature, When the grease is dissolved, the blue light is on. M2 is the normal mode.

3)Click the "time" to the right "<" and ">" to set the heating time, M1 is 1-5min, M2 is 0-5min. "

Click the "temperature" on the right "<" and ">" to set the thermotherapy temperature, the range is 35-45 degrees. "



Seven



Eight

7. Click icon “❄️” enter the frozen preferences such as (figure eight), click "<" and ">" set cooling temperature, range: -12 degrees to 5 degrees celsius.

Note: when the temperature is lower than -5 degrees, please be operated by professionals.

8. Click icon “🔔” enter the pressure parameter settings page, as shown in figure nine;

1) Click on the "right" side of "mode", select "pressure mode", "P1" as "fixed mode", "P2" as "intelligent pressure balance mode", "P3" as "smart massage mode".

2) Click the "intensity" to the right "<" and ">" to set the pressure intensity. ". Range: 10 - 80Kpa.







Nine



Ten

9. Click icon “” go to the work time setting page, such as (Figure ten), click the “<” & “>” working hours on the right of work time, and the range is 10min - 120min. when the parameter setting is complete, click the start icon “”, enter the work page, as shown in (Figure eleven);





Eleven






Twelve

10. Press the fat head control button [19], treatment begins:

- 1) Fat head adsorption, LED lamp flashing, red light can promote cell activity, increase blood activity; blue light can reduce skin swelling during freezing.
- 2) Again press the fat head control button [18], adsorption pressure is in the state of pressure, at this time can choose channel two, similarly, set the channel two treatment parameters, start treatment.

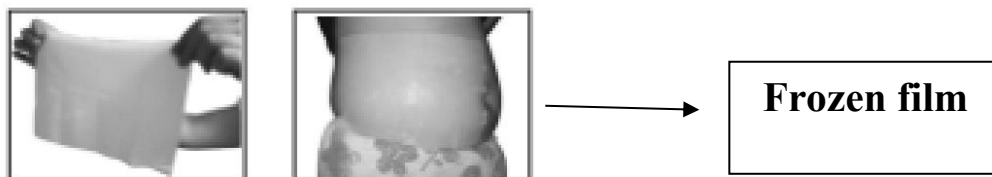
4) Adsorption pressure, pressure, again press the pressure dissolved grease head control button [18], pressure release. The treatment is paused again by pressing the pressure dissolved head control button [18], and the treatment continues. Click icon “”, exit the current channel therapy pop-up dialog, as shown in (Figure twelve), Click icon “”, complete withdrawal from this treatment.

11. The work page is shown in figure (Figure eleven), icon “” is the grease head control button, [18] open key, its open state is unlocked, closed state is locked. icon “” options for treatment channels, icon “” scanning dynamic display for blood lipid separation.

12. At this point, the operation of the entire treatment process is completed.

**Treatment process**

1. Boot, enter the coolant filler page, such as (Figure three), check the tank water level is higher than 80%, if less than this value, start filling function, add coolant;
2. Measure the fat thickness of the treatment site by means of a fat thickness gauge;
3. Clean the treatment area (where the hair is as clean as possible) and mark the treatment area;
4. Open the antifreeze film, in the treatment area deposited with antifreeze film, as shown in (Figure thirteen).
5. Enter the instrument work settings page, such as (Figure six), according to the location of treatment and measurement of fat thickness, set the treatment parameters, parameter settings reference as follows (Table 1);





Thirteen

Table 1 reference table for setting up therapeutic parameters

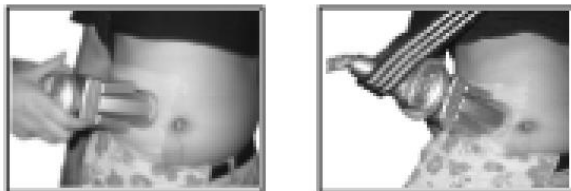
Fat thickness (mm)		temperature (°C)		time (min)	
<input type="checkbox"/>	<20	<input type="checkbox"/>	0	<input type="checkbox"/>	40
<input type="checkbox"/>	20-40-	<input type="checkbox"/>	-5	<input type="checkbox"/>	45
<input type="checkbox"/>	30-50	<input type="checkbox"/>	-8	<input type="checkbox"/>	60
<input type="checkbox"/>	50-60	<input type="checkbox"/>	-10	<input type="checkbox"/>	60
<input type="checkbox"/>	>60	<input type="checkbox"/>	-11	<input type="checkbox"/>	60

6. Click the start icon, press the grease head control button [18], grease head start work;

7. When the waist and abdomen treatment, patients can sit posture for treatment;

8. After the fat absorption treatment location, when the adsorption strength is appropriate, again press the fat head to control the button [18], to maintain the adsorption pressure, click icon at this point “” lock the grease head to control the button, if it changes the working state, click “” unlocking .

9. Course, available bandage fixed fat soluble head( Figure fourteen);



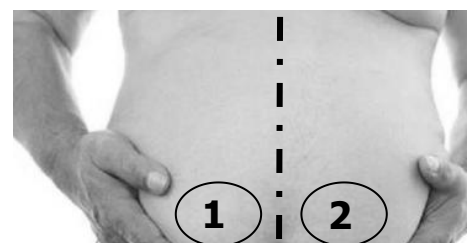
Fourteen

10. After the first treatment site is pressed, select another channel, with the first part of the operation steps, second parts of the treatment.

Note: after treatment, there may be skin damage, freeze, pigment and other symptoms, proper care can be.

### Matters needing attention

1. Contraindication:



- 
- 1) A man with a heart problem;
  - 2) Severe cold and cold urticaria patients
  - 3) Patients with cold plasminogen;
  - 4) Raynaud's disease;
  - 5) Cold globulin;
  - 6) Severe diabetic patients;
  - 7) Severe chilblain;
  - 8) Physiological hypotonic patients;
  - 9) An elderly, young, frail, etc person who is intolerant of cold treatment;
  - 10) Patients with the following electrical equipment cannot be treated with this instrument:

- Implanted pacemaker patients and other electronic equipment;
- Artificial heart lung apparatus life sustaining patients;
- Need Wearable ECG monitoring equipment.

## 2. The following person is subject to my consent:

- Acute disease patient; ----Malignant tumor; ----Infectious disease patient;
- Women in pregnancy; ----Cardiac; ----A patient with high fever;
- Being treated or having an abnormal body condition.

## 2. Notice of use:

- 1) This instrument is operated by professionals;
- 2) It is forbidden to treat the film without applying an antifreeze film and to ensure that the anti freezing film covers all treatment areas during the treatment;
- 3) Special note: the treatment of adjacent parts cannot be in the same period in a large area or the treatment site, as shown in figure (fifteen): if the treatment has the same treatment site, is not part of the operation or the operation, only the operation position, otherwise, the light is caused by metabolic disturbance in the body, while due to metabolic acidosis, toxin retention cannot be ruled out.

#### 4. notes:

practice has shown that frozen soluble fat may have the following risks:

- 1) open the antifreeze film packaging, if the liquid volume is too small, please do not use directly, the other to add some more antifreeze anti-freeze membrane less then use antifreeze, as can protect the skin very good cold injury;
- 2) in the treatment of attention to check whether the film covers all the antifreeze treatment area if not, the coverage area should be corrected immediately, otherwise, within 2 minutes of skin that could be frostbite;
- 3) Normal treatment pressure is 30Kpa-40Kpa, long time high negative pressure (60-80Kpa) can increase skin strain and the possibility of causing blisters;
- 4) There are individual physique of the skin is not cold, at -5 degrees below the treatment may occur when the skin frostbite, such people use the proposed temperature set at -2 degrees Celsius to 5 degrees Celsius;
- 5) The first use of the patient, it is recommended that the temperature should not be lower than -8 degrees Celsius, lower than -8 degrees Celsius, suitable for fat thickness of more than 55mm, otherwise it is easy to frostbite;
- 6) Frostbite treatment: after the course of treatment, check whether the treatment site hardening and lumpy phenomenon, if possible, may have frostbite. Use warm towels for about 42 minutes, hot compress for 10 minutes. Subsequently, the treatment site will have blisters, blisters, cracks will scab, keep

frostbite, clean and dry wounds, coated with frostbite cream, a few days later can be cured;

- 7) Blister treatment: only mild to prevent infection, severe should be strictly aseptic puncture, coated with 1-2% dressing can be more gentian violet solution for disinfection.

## Technical parameter

Power supply mode: AC220V $\pm$ 10%、50HZ  AC110V $\pm$ 10%  
60HZ

Insurance specification: Max10A

Rated power: 800W

Negative pressure: 0-80Kpa

Heating: 35 $^{\circ}$ C-45 $^{\circ}$ C

Refrigeration: 5 $^{\circ}$ C to -12 $^{\circ}$ C

Photon: Red (630nm) Blue 50mW\*4

Coolant: Purified water or special coolant

Ambient temperature: 5 $^{\circ}$ C-40 $^{\circ}$ C

Relative humidity:  $\leq$ 80%

Atmospheric pressure: 90KPa-110KPa

Implementation standards: GB4706.1-2005

Specifications: 40cm\*52cm\*90cm

## Annex list

1. main engine	1pc	<input type="checkbox"/>
2. power line	1pcs	<input type="checkbox"/>
3. Instructions	1copy	<input type="checkbox"/>
4. support rod	1pcs	<input type="checkbox"/>
5. accessories shelf	1set	<input type="checkbox"/>
6. support frame	1pcs	<input type="checkbox"/>
7. grease head	1set	<input type="checkbox"/>
8. emergency hand hold switch	1pcs	<input type="checkbox"/>
9. cardiac rhythm probe	1pcs	<input type="checkbox"/>
10. the positioning.	1pcs	<input type="checkbox"/>
11. fat thickness gauge	1pcs	<input type="checkbox"/>
12. 5 point six point wrench	1pcs	<input type="checkbox"/>
13. M6*25 inner six angle screw	1pcs	<input type="checkbox"/>
14. seal ring	5pcs (4.2*1.8)	<input type="checkbox"/>
15. seal ring	5pcs (6.3*1.8)	<input type="checkbox"/>
16. 60g, 70g, 110g	3*3pcs	

## Other taboos

1. It is forbidden to use the following symptoms :

- (1) Equipped with cardiac pacemaker and pacemaker patient ;
- (2) The use of artificial bone, silicosis patients ;
- (3) Drunk and high fever patients ;
- (4) Patients with severe mental illness and epilepsy ;
- (5) No independent self consciousness, no self-care ability ;
- (6) Patients with severe hypertension and cardiovascular and cerebrovascular diseases ;
- (7) Pregnant woman , malignant tumor , a person with metallic materials (including metal teeth);
- (8) Dysfunction of immune system and failure of renal function ;
- (9) Severely infected person ;



DANGER

2. The following groups will be used under the guidance of professionals :

- (1) Menstruating women ;
- (2) Children;
- (3) A person or person whose skin is traumatized or infected ;
- (4) Feeling numb or unresponsive to heat or cold ;
- (5) Dysfunction of the immune system ;
- (6) An area where cosmetic surgery has been performed and artificial fillings have



CAUTIOUS








## Matters needing attention

1. Please check the main engine, accessories and power cord before use .
2. After opening the power supply, if the instrument is not started, the power should be switched off immediately and check whether the power cord is connected properly. If the connection is good, please unplug the power cord, and then check the power interface, fuse is blown. If the insurance needs to be replaced, it should be consistent with the current of the original insurance.
3. Please do not switch on large power equipment except for TV, refrigerator and other small power consumption apparatus.
4. Please remove the headset, electronic watch, mobile phone and other electronic products before you take care.



MIND

## Icon symbols and its meanings

Warning signs	Meaning
 DANGER	Incorrect operation can cause serious injury or even death!
 CAUTIOUS	Incorrect operation may cause personal injury or even serious harm!
 MIND	Incorrect operation may cause equipment damage or personal injury!
 DANGER	High voltage hazard!
 CAUTIOUS	Incorrect operation may cause personal injury!

1. In the course of working, according to the physical needs, proper drinking water.
2. The working time of the instrument should not be too long, and rest should be suspended after each period of treatment, usually 20 minutes.
3. In the course of using, if the following abnormal situation, should turn off the power supply immediately, stop using:
  - 1) Water or foreign bodies enter the body ;
  - 2) The body, switches, power lines, sockets and other heating, leakage ;
  - 3) Abnormal sound of instrument ;
  - 4) Smell, smoke, etc ;
  - 5) Attachment damage ;
  - 6) When natural disasters such as thunder and earthquakes occur ;
8. After use, cut off the power supply and unplug the power plug when not in use for a long time.
9. The working head is not allowed to act directly on the eyes, so as not to hurt your eyes .
10. The working head should be cleaned, sterilized and dried to avoid cross infection.
11. The purpose of the warning signs shown in the manual is to prevent you and others from hurting you and others by making you better aware of the performance of the product and for safe use.



MIND

## **Maintenance**

1. When using this instrument, please don't close to other equipments or electric appliances produced by high power or high frequency, so as to avoid interference and make the operation break down.
2. Please do not place in the space narrow place to operate, to ensure that there is around 30CM space, in order to dissipate heat.
3. Prohibited in high humidity (more than 80%), dust, smoke and water vapor environment.
4. In case of malfunction, power should be switched off immediately, and be removed and repaired by professional personnel. No disassembly or maintenance is required.
5. The manufacturer is not responsible for the following circumstances:
  - 1) The occurrence of force majeure due to earthquakes, volcanoes, wars, etc;
  - 2) The loss of a user's fault or incorrect operation;
  - 3) Damage caused by methods other than this description;

## **Enclosure**

Annex one: simple troubleshooting list

Annex two: filter disassembly and assembly methods

Annex three: frozen fat soluble ask

Annex four: Table 1 table of frozen dissolve fat

**Annex 1: simple troubleshooting list**

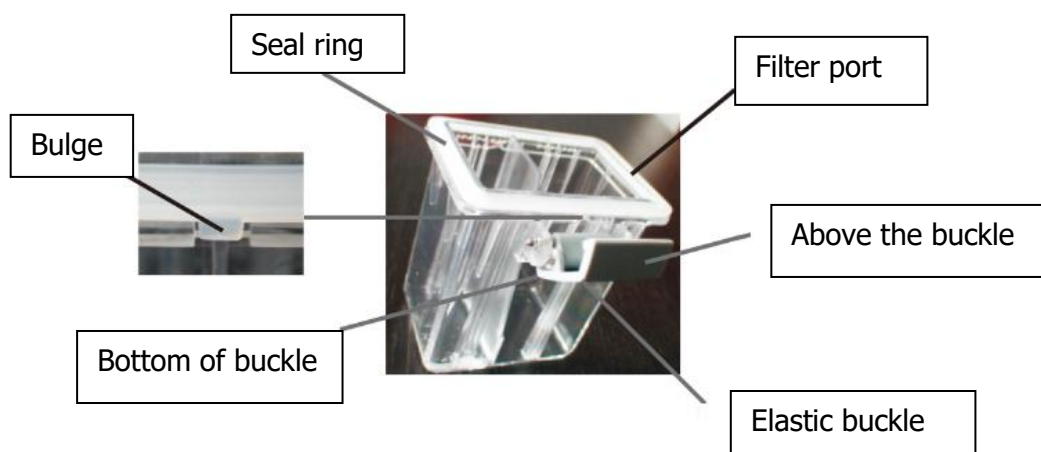
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<b>Fault state</b>	<b>exclusion method</b>
1.The main engine is out of order	1. check the power supply plug is normal, and confirm the plug is not loose.
	2. make sure the power line is normal and not damaged.
	3. check if the fuse is blown.
	4. if the power switch is switched on, please make sure the emergency stop button is not pressed.
2. Touch screen click invalid	1. turn off the power and restart .
	2. restart is invalid, consider the touch screen is pressed, gently press the screen four angle and the center position of the shutdown, 1 minutes after the restart.
	3. the problem has not been solved, please contact after-sale to solve.
3. The contents of the touch screen display are invalid	1. turn off the power and reboot after 1 minutes.
	2. the problem has not been solved, please contact after-sale to solve.
4. System alarm item	
1) Error 1:the handle is not detected on the system	Please make sure the grease plug is close to the main engine and restart the instrument.
2) Error 2/3: communication interrupt	Please make sure the grease plug is close to the main engine and restart the instrument.
3)Error 4-7: the temperature sensor is not working	Check whether the temperature sensor is connected with the grease head display circuit, and remove the fat dissolving head.
4)Error 8/9: pressure sensor error	Check the main circuit board, pressure sensor, connecting organ is good, I suggest contact after sale processing.
5)Error 10/11: the flow sensor has no signal	1. Check the tank water level is more than 8.
	2. Check that the grease head connecting pipe has been folded.
6)Error 12/13: tank water level error	Check the tank level, enter the automatic filling page, check the tank level, below 80%,

	start filling, add coolant.
7)Error 14/15: over temperature range at the two sides of the grease head	1. Immediately remove the fat dissolving head from the body and put it back to the attachment rack for 20 minutes or so. Observe or feel the temperature difference on the two sides of the refrigeration zone to determine whether it is normal or not.
	3. After cooling, the work piece is cooled, then heated, and the temperature is raised slowly to alarm. Check whether the water level is normal.
	4. Boot 1-2 minutes, abnormal temperature, no refrigeration alarm, grease head damage, please replace.
7)Error 16/17: barometric initialization error	Start the self check function to check whether the barometric items are normal.

**Annex two: filter disassembly and assembly methods**

**1. Filter structure**



## 2. Remove the filter cup



Step 1: stand tight, close to the bottom



Step2: withstand the bottom, pull out



Step3: lift up again, open the elastic button and remove the cup

## 3. Filter cup installation



Step 1: the inner side of the filter cup against the upper lid buckle



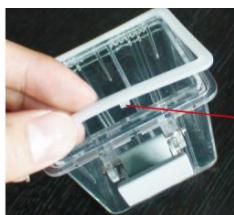
Step2:put the filter cup up



Step3:buckle upwards, buckle cover to push

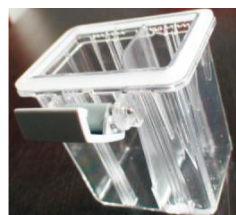


## 4. Change the gasket

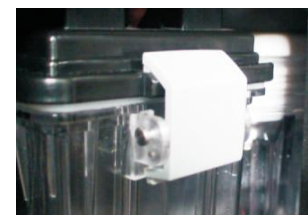


Step 1: the gasket will not be raised side into the filter cup along the groove

Bulge



Step2:the top of the gasket belt is aligned to the filter cup along the gap



Step4:after installation, check if it is loose

Annex three: frozen fat soluble ask

1. Is the frozen fat effective?

Answer: the freeze dissolving technique was previously studied by the Aesthetic aesthetic Limited by Share Ltd in California, USA, and designed a cooling device for removing heat from subcutaneous fat cells. Subsequently, the research was developed as a freeze dissolving grease instrument, which is a patented product obtained by certification in the United states.

2. Does the freeze dissolve rebound?

Answer: the principle of freezing fat solution is by cooling the subcutaneous tissue to below 35 DEG C, which can selectively affect the subcutaneous lipid rich cells, and the highly saturated fatty acids are locally crystallized. The crystals break into double membranes rich in lipid cells, which selectively cause necrosis of these cells. The frozen fat dissolving technique can reduce the number of human lipid cells and control the degree of obesity. Studies have shown that the optimum treatment temperature is about -10 DEG C to about 0 DEG C.

3. What are the characteristics of this freeze dissolving grease apparatus?

Answer: the Cryo instrument is the patent product, for the pre freezing system based on pure fat dissolving, the fat of blood around the curing resulting in tissue necrosis and other injuries, the design improvement of freezing method, to promote separation of blood and skin preheating, then fat, Cryolipolysis is safer, fat removal the fat dissolving. In addition, the dual channel design allows for simultaneous treatment of two sites at the same time, with time saving and high efficiency!

4. What is the process of freezing and dissolving fat?

Answer: fill out the schedule - ask history - examine body condition - identify treatment options - locate treatment area - apply antifreeze film - start treatment - end.

5. What's the solution for?

Answer: because of the busy work life with no time to exercise; with all kinds of delicacy; non obese but to local fat sculpture; postpartum abdominal relaxation exercise; lean down position; stool hoarding gastrointestinal peristalsis slow.

6. How about the treatment of frozen fat? Is there a

recovery period??

Answer: each course of using is about an hour, the same part of each interval of 2-3 months, the proposed 2-3 treatment, according to the actual treatment effect, appropriately increase or decrease the number of treatment.

This treatment is non-invasive, and does not affect normal bone work or life during treatment. The office worker may also be treated during the rest period.

7.How does fat change after using? How does the body react??

Answer: after using, fat cells begin to decompose and remove naturally. The fat layer is gradually thinned and the process is mild.

The whole course is non-invasive, and the treatment site may be red and last for several minutes or hours. Bruises may also occur and subside within a few weeks. A few patients feel less sensitive to the treatment site and will subside within 1-2 months.

8.Will the treatment hurt? How about the effect??

Answer: This product uses intelligent program-controlled system, to achieve accurate control of temperature and pressure, real-time monitoring and alarm system, the treatment of temperature regulation in the safe range. Patent technology of blood lipid separation technology in the treatment of pre warming skin, warm feeling, and then gradually cool down, so that the skin slowly adapt to the freezing process. so there is no pain, no pain, no invasive wound and no pain. The negative pressure at the beginning of the course of treatment will cause discomfort due to strong suction. It will soon disappear, and then there will be a cold numbness in the treatment site. During the treatment, you can relax, relax, take notes, surf the Internet and listen to music.

The therapeutic effect varies according to individual constitution and dietary habits. Patients with significant reductions in fat levels should maintain at least one year after the course of treatment. These are the expected absorption clear lipid return treatment site speed than invasive liposuction to the course as fast. But irregular diet and lifestyle can lead to weight gain that may affect later outcomes of treatment.