ETG-502 User Manual

VER:3.0

User's manual

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!

Technical characteristics

◆8 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.

Instrument attachment description

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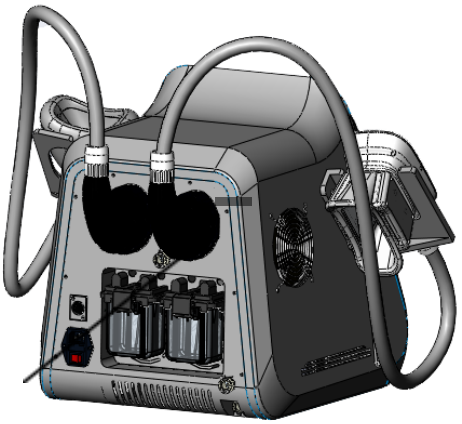

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1. master control
touch screen
2. the right accessory rack
3. the right fan
4. emergency stop button
5. lock switch
6. channel 2 jack
7. channel 1 jack
8. the left accessory rack
9. coolant inlet
10. channel 1 filter
11. channel 2 filter
12. emergency hand hold switch jack
13. power switch and jack
14. overflow port
15.coolant outlet
16.the left fan
17.fat 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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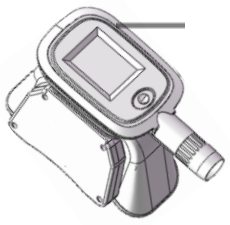

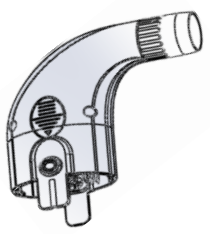

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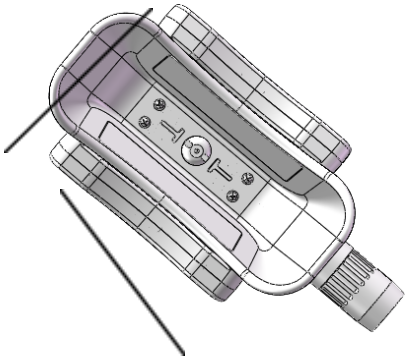

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附　件

Double chin head No.50

Emergency hand hold switch

cryo head No. 150

Fat thickness gauge

Bandage

水流量调节阀

Basic operation of instrument

1. Mounting steps of accessories rack and accessories:

1) fix the accessory rack[8] and [2] on the left and right sides of the chassis with screws;

2) press the buttons [19] on both sides of the plug handle of the fat head forcibly, and insert the plug handle of the fat head into the interface [6] or [7];

3) the fat head shall be placed on the accessory rack;

2. Coolant filling and discharge;

1) Use pure water or special cooling liquid;

2) Insert a special funnel into the coolant inlet [9];

3) Add coolant to the coolant level, window [15], value 8 or more;

4) Initial liquid completion;

5) Insert a special funnel into the coolant outlet [15] 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 [13];

2) Turn on the power switch up.

3) Clockwise rotation stop button [4], 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 two), 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

3. Click the icon on Figure one “ ” enter the fat head automatic cleaning page, such as (Figure three), and click the start icon “

” tart 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 four), and click the icon “ ” Start the self-test and click the icon “

” stop, click “ ” back to figure one, the main interface.

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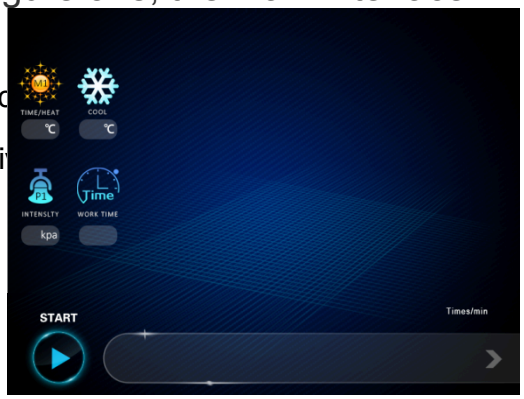
Fi



5. 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 six), with channel 1 as an example;

1)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.

2) Click the "time" to the right of "<" and ">" to set the heating time, M1 is 1-5min, M2 is 0-5min. ".
3) Click the "temperature" on the right "<" and ">" to set the thermotherapy temperature, the range is 35-45 degrees. "**.**

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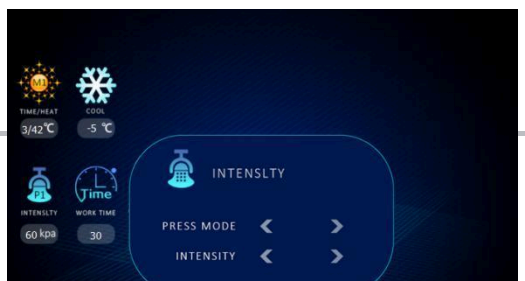
6.Click icon “❄” enter the frozen preferences such as (figure seven), click "< "and"> "set" cooling temperature, range: -12 degrees to 5 degrees celsius.

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

7. Click icon “P1” enter the pressure parameter settings page, as shown in figure eight;

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

Eight

8.Click icon “

” go to the work time setting page, such as (Figure nine), 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 ten);

Eleven

Ten

9. Press the fat head control button [18], 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.

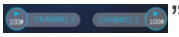
2) Again press the fat head control button [18], adsorption pressure is in the state of pressure, at this time can choose

channel two, similarly, set the channel two treatment parameters, start treatment.

3)Adsorption pressure, pressure, again press the pressure dissolved fat head control button [18], pressure release. The treatment is paused again by pressing the pressure dissolved head control button [18], and the treatment continues.

Note: there is no display screen and no control button for the chin (No. 50) working head. After clicking the start icon " ", the program will run automatically, maintain the pressure, cool and emit blue light.

10. Click icon “ ”, exit the current channel therapy pop-up dialog, as shown in (Figure eleven), Click icon “ ”, complete withdrawal from this treatment。

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

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

Treatment process

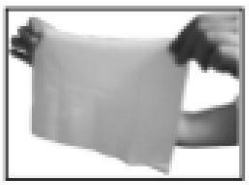
1. Boot, enter the coolant filler page, such as (Figure two), check the tank water level is higher than 80%, if less than this value, start filling function, add coolant;

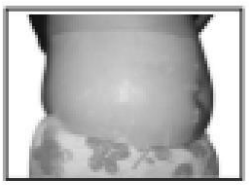
2. Measure the fat thickness of the treatment site by means of a fat thickness gauge

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 twelve).

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);





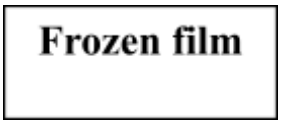


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Table 1 reference table for setting up therapeutic parameters

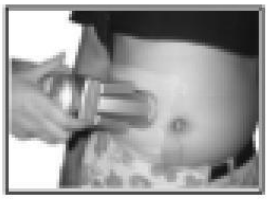
Fat thickness (mm)		temperature (℃)		time (min)	
☐	<20	☐	0	☐	40
☐	20-40-	☐	-5	☐	45
☐	30-50	☐	-8	☐	60
☐	50-60	☐	-10	☐	60
☐	>60	☐	-11	☐	60

6. Cick the start icon, press the fat head control button [18], fat 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 thirteen);



thirteen

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.

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Technical parameter

Power supply mode:AC220V±10%、50HZ ☐ AC110V±10% 60HZ ☐

Insurance specification: Max10A
Rated power: 600W
Negative pressure: 10-80Kpa
Heating: 35℃-45℃
Refrigeration: 5℃ to -12℃
Photon: Red（630nm）Blue 50mW*4
Coolant: Purified water or special coolant
Ambient temperature: 5℃-40℃
Relative humidity: ≦80%
Atmospheric pressure: 90KPa-110KPa
Implementation standards: GB4706.1-2005
Specifications: 67cm*47cm*78cm(The wooden case)

Annex list

1. main engine	1pc	☐
2. power line	1pcs	☐
3. Instructions	1copy	☐
4. left accessories rack	1pcs	☐
5. right accessories rack	1pcs	☐
6. work head	1set	☐
7. emergency hand hold switch	1set	☐
8. the positioning.	1set	☐

9. fat thickness gauge	1pcs	☐
10. 5 point six point wrench	1pcs	☐
11. 3 point six point wrench	1pcs	☐
12. seal ring	5pcs（4.2*1.8）	☐
13. seal ring	5pcs（6.3*1.8）	☐
14. funnel coolant	1pcs	☐
15. antifreeze membrane (70g,60g)	each 2 pcs	☐

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. 5. In the course of working, according to the physical needs, proper drinking water. 6. The working time of the instrument should not be too long, and rest should be suspended after each period of treatment, usually 20 minutes.	 MIND

7. 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

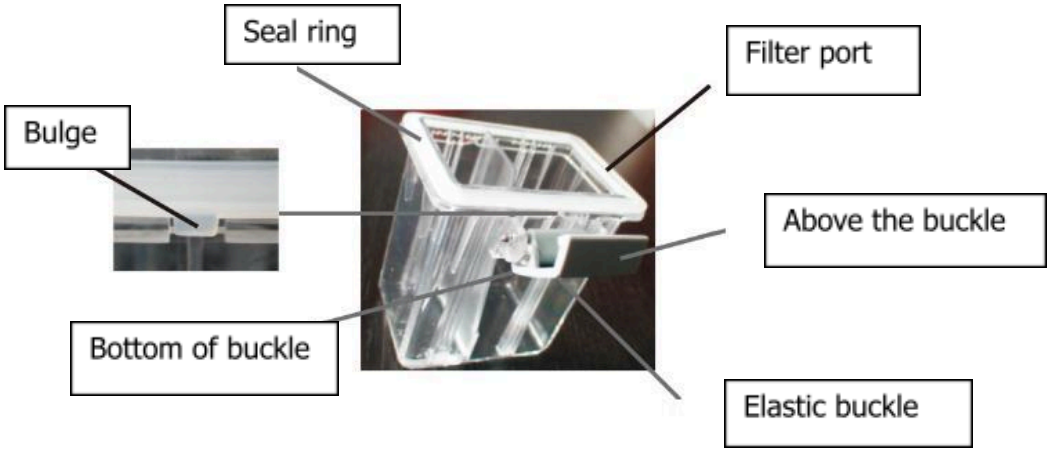
Annex 1: simple troubleshooting list

Fault state	exclusion method
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	1. Check the tank water level is more than 8.
	2. Check that the grease head connecting

signal	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.
	1. After cooling, the work piece is cooled, then heated, and the temperature is raised slowly to alarm. Check whether the water level is normal.
	2. 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



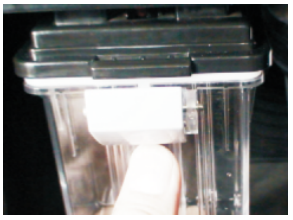
2. Remove the filter cup

Step2: withstand the bottom, pull out

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

Step 1: stand tight, close to the bottom

3. Filter cup installation

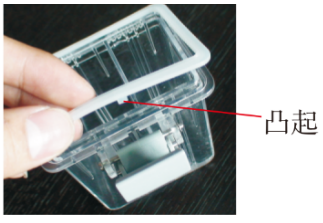


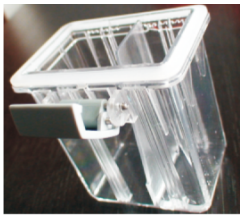
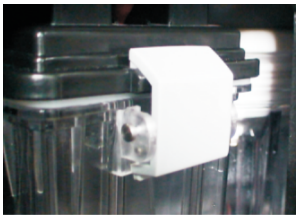
Step 1: the inner side of the filter cup against the upper lid buckle

Step3:buckle upwards, buckle cover to push

Step2:put the filter cup up

4. Change the gasket



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

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

Step4:after installation, check if it is loose