

# USER'S MANUAL

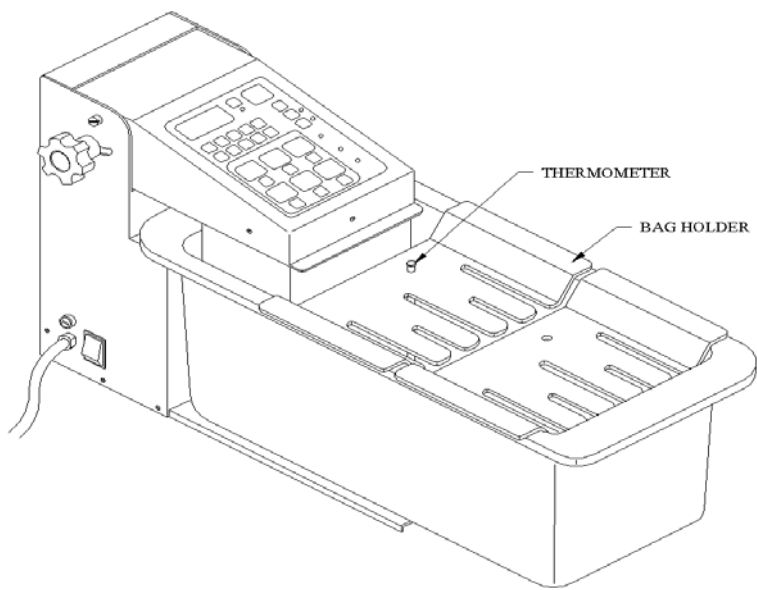
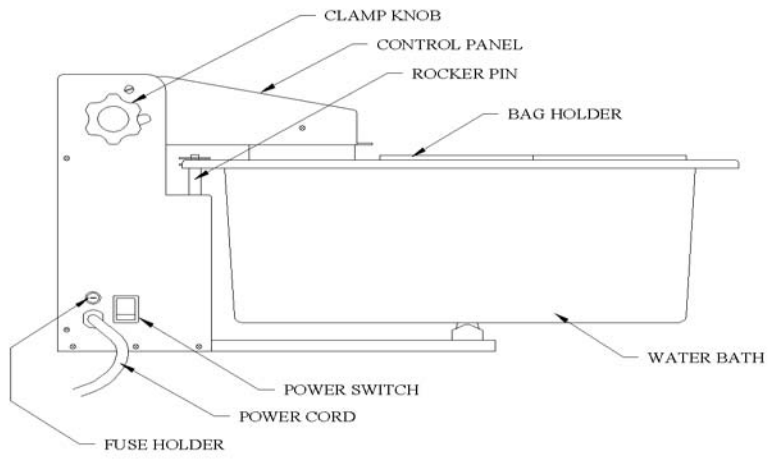
## **GENESIS 2002™** **GENESIS 2006™**

*PLASMA THAWING WATER BATH SYSTEM*



**GENESIS** BPS™

GenesisBPS, LLC  
65 Commerce Way  
Hackensack, NJ 07601 U.S.A.  
Tel: 201-708-1400  
866-712-5663  
Fax: 201-704-1104  
[www.genesisbps.com](http://www.genesisbps.com)



GENESIS 2006 SHOWN

To assure proper record keeping, please retain this information for future use.

DATE PURCHASED \_\_\_\_\_  
SERIAL # \_\_\_\_\_  
DISTRIBUTOR NAME \_\_\_\_\_  
PHONE NUMBER \_\_\_\_\_  
CITY, STATE \_\_\_\_\_

The GENESIS THAWING SYSTEMS incorporate water bath technology with the latest engineering to enable the machine to provide plasma thawing in a minimum of time. The unique, water resistant electronic key pad permits the operator to easily monitor and control the thawing activity.

The compact design of the GENESIS 2002/2006™ saves precious bench top space. It is easy to operate, keep clean and maintain. The GENESIS 2002/2006™ sets up in minutes and is ready to use. The GENESIS 2002/2006™ comes with 1000 plasma thawing bags, thawing bag dispenser, bag holder(s), LABath CLEAN™, reference thermometer, and two special plasma thawing bag weights. Optional accessories are also available.

We are certain that you will be pleased with your new GENESIS 2002/2006™ plasma thawing water bath system. If you have any questions, please call :

<p><b>GenesisBPS, LLC</b> <b>at</b> <b>866-712-5663</b></p>
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## 1. UNPACKING

1.1 The following is supplied with your GENESIS 2002/2006™ unit.

- Control Unit
- Water Bath
- Thawing Bag Dispenser
- Plasma Overwrap Thawing Bags (1000/Box)
- Plasma Bag Holder
- LABath CLEAN™
- Reference Thermometer
- Thawing Bag Weights
- User's Manual

Optional Accessories :  
Additional Bag Weights

The above items may be purchased from :

<p><b>GenesisBPS, LLC</b> <b>866-712-5663</b></p>
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## 2. TO THAW BLOOD PRODUCTS

2.1 Place the unit on a flat, sturdy surface.

2.2 Fill bath with water up to the slotted line on the front of the stainless steel shroud. This level will ensure proper thawing operation. No bags should be in the bath and the unit should be placed in the down position when filling the bath.

Check water level daily. If the water level is too low, the GENESIS 2002/2006™ low water level sensing switch will make the unit inoperable (when the unit is plugged into the power supply). An alarm will sound and the ADD WATER

indicator will light. To correct this situation, fill bath with water as explained above.

Add 2 ml of LABath CLEAN™ each time the water is changed to control bacterial and algae growth. The bath cleaning agent also helps to prevent the formation of turbidity and odor.

- 2.3** Plug the device into a 115 volt AC outlet. For GENESIS 2002™, a dedicated 10 Ampere outlet is needed. For the GENESIS 2006™, a dedicated 15 Ampere outlet is needed. The outlet must be properly grounded.

**IMPORTANT : DO NOT** use sharp instruments (pen, pencil, etc.) on the key pad area - it will cause damage to the instrument.

- 2.4** Turn on the POWER SWITCH on the left panel.
- 2.5** Start the unit by pressing the POWER key located on the control panel.
- a. The default SET TEMP is 37 °C. When switching on the unit this temperature will be displayed in the SET TEMP window, as the desired temperature, along with the actual WATER TEMP of the bath. The bag timers will display zeros.
  - b. If the water temperature is less than the set temperature (37 °C) then heating of the water will begin automatically - the HEAT indicator will light. In addition, the HEATING indicator will light, indicating the heater is drawing power. When the bath water reaches the set temperature, HEATING indicator will go off. When the bath water cools, HEATING indicator will go on again, indicating water is being heated. This cycle continues, ensuring accurate water temperature.

- c. To change the default SET TEMP : You can adjust this temperature within the range of ambient to + 56 °C, in one degree increments. To adjust, press the SET TEMP key - then press the numeric key pad to indicate the temperature desired. All keys must be pressed within 5 seconds of each other. The display should now show the new SET TEMP.

When the SET TEMP is same as the WATER TEMP, the bath is ready to be used for thawing.

- d. Place the frozen product in slot marked 1 on the Plasma Bag Holder.

It is recommended that frozen plasma be placed into a plasma overwrap thawing bag. This should prevent plasma from getting into the bath, should the bag be cracked or damaged and protect the device from damage. After placing frozen plasma into the plasma thawing bag, eliminate all air from bag, twist top of the bag and loop it through the Plasma Bag Holder so it is secure.

For additional overwrap thawing bags, call

GenesisBPS, LLC.

**It is important to remove the excess air.** Place the weight(s) provided into the plasma bag(s) to ensure that the frozen plasma remains submerged in the water.

- e. Press the START/CHANGE key for the selected bag location. The timer will start it's count down while the unit is thawing the plasma. Default timing is 14 minutes for the GENESIS 2002™ and 18 minutes for the GENESIS 2006™. After this time has elapsed an alarm will sound, signaling that the frozen product should now be thawed.

Depending on volume of plasma, the thickness of the plasma thawing bag and storage temperature of product to be thawed,

thawing time may vary. The amount of air left in the plasma thawing bag during thawing will also affect thawing time. The laboratory personnel can set the desired thawing time for each unit to be thawed. They do not have to all be set for the same thaw time.

f. To change the default TIMER :

Press the START/CHANGE key for the selected bag location, then press the numeric key pad for the desired minutes. All keys must be pressed within 5 seconds of each other. Minutes must be between 1 and 99.

g. To start rocking motion of the bath, press the ROCK key.

Rock indicator will light. Pressing the ROCK key at any time will stop the rocking motion.

<p><b>NOTE</b> : If the water spills over the top of the bath when rocking motion begins, stop the bath from rocking and remove a small amount of water.</p>
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h. To thaw an additional bag, place it in slot 2, 3, etc. Adjust the timer as required, follow instructions in Section 2.5-f above.

The product should be thawed when an audible signal is heard and the respective BAG TIMER is at zero. Remove the product from that slot location, check the bag contents to ensure that it is completely thawed. If additional thawing is required, return the bag to the holder and set timer for the desired thaw time.



### **3. TO REMOVE A THAWED BAG**

**3.1** Press the ROCK key to stop the rocking motion.

- a. Remove the thawed bag (and any weights used) from the Plasma Bag Holder. Discard plasma thawing overwrap bag after each use, as they are designed for single use only.
- b. If there is another bag being thawed, press the ROCK key to resume the rocking motion for the remaining bag.

### **4. TO MAINTAIN THE DEVICE IN THE READY-TO-THAW STATUS**

**4.1** Always keep the HEAT indicator illuminated.

**4.2** Always keep the SET TEMP to the desired setting. (37 °C or other desired temperature). If a desired temperature of 50 °C or greater is needed, limit the time the unit is in the ready to use state. At higher temperatures, greater evaporation occurs.

**4.3** Always keep the ROCK indicator off (not illuminated) when not thawing plasma or other products.

## 5. TO CLEAN THE BATH OR TO ADD WATER

**SAFETY : NEVER ADD WATER OR MOVE THE BATH IF THE POWER SWITCH (ON THE LEFT SIDE PANEL) IS TURNED ON.**

**RECOMMENDATION : FOR MAXIMUM SAFETY, UNPLUG THE UNITS POWER CORD FROM THE ELECTRICAL OUTLET.**

- 5.1** TURN THE POWER SWITCH (ON THE LEFT SIDE PANEL) TO OFF POSITION TO TURN THE UNIT POWER OFF.

BEFORE REMOVING THE BATH FILLED WITH WATER, UNPLUG THE UNIT FROM THE ELECTRICAL OUTLET.

- 5.2** Depending on usage, the water should be changed daily but not less than once per week.

- 5.3** Remove the Plasma Bag Holder.

- 5.4** Tilt the unit to the up position by lifting the handle in front of the control panel. With unit in up position, tighten the clamp knob located on the top left-hand side of the device (turn the knob clockwise.) DO NOT OVER TIGHTEN.  
The unit will now be held in the up position.

It will be helpful at this point to have a cloth towel ready to cleanup dripping water. Or, by waiting a few minutes, the pump and heater area can drain into the water bath.

- 5.5** GENESIS 2002™: Carefully remove the water bath from the device. The bath weighs approximately twenty (20) pounds

when filled with water. Do not drop the bath on a hard surface.

GENESIS 2006™: Remove all, or part of the water. The bath weighs approximately thirty (30) pounds when filled with water. Carefully remove the water bath from the device.

**5.6 DO NOT USE BLEACH OR HARSH CLEANERS.**

Depending on mineral content of water used, the bath may discolor. Proper cleansing should keep this to a minimum. Use LABath CLEAN™ regularly to control bacteria, algae and turbidity. To order additional LABath CLEAN™, call GenesisBPS, LLC at 866-712-5663.

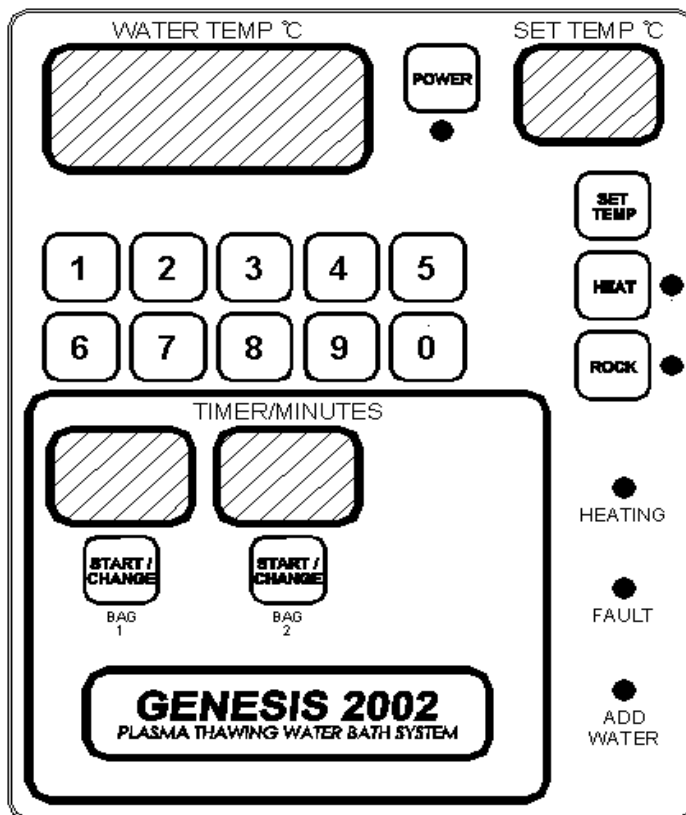
**5.7 Fill the bath. The maximum water level should be approximately two inches from the top of the water bath. This level will ensure that the water level will be at the slotted line on the unit when the bath is repositioned.**

**DON'T OVERFILL THE BATH.** Add 2 ml of LABath CLEAN™ each time water is changed.

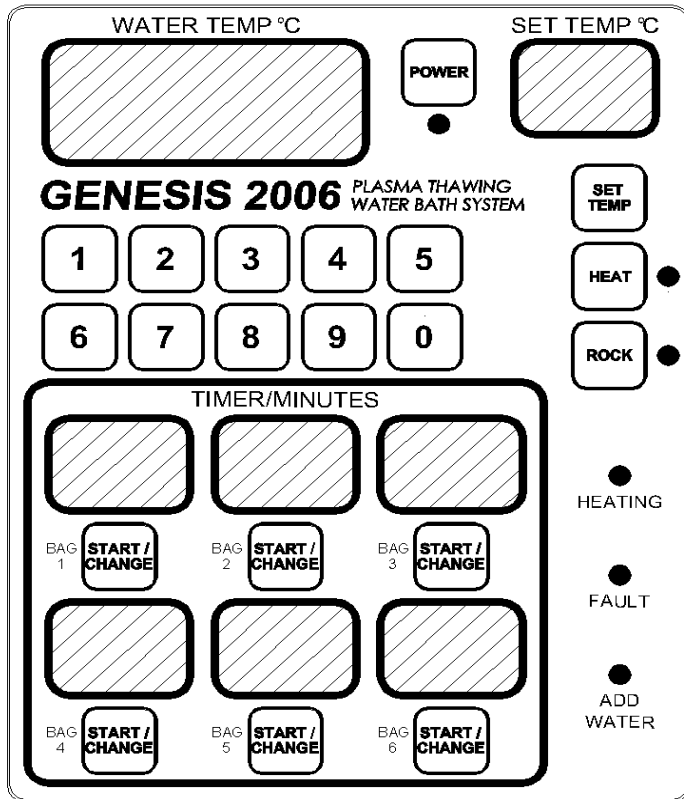
**DON'T USE BLEACH OR HARSH CLEANERS** as this may scratch and discolor bath.

**5.8 To replace bath: GENTLY place the bath onto the ROCKER PIN, ensure the pin head is located in the slot of the bath. Ensure that the center of bath is positioned onto the white roller on the base plate. Hold the handle firmly on the front of the control panel. Release the clamp knob by turning it counterclockwise. Lower the unit slowly into the water.**

## 6. CONTROL PANEL AND INDICATORS



**GENESIS 2002™ CONTROL PANEL**



**GENESIS 2006™ CONTROL PANEL**

## **CONTROL KEYS**

**POWER .....** This key turns the unit on and off when the POWER SWITCH on the left panel is turned ON. The POWER SWITCH on the left panel is a master on/off switch to remove electrical power completely from all circuits in the unit.

**SET TEMP .....** With this key switch you can adjust water temperature within the range of ambient to + 56 °C. Numeric keys must be pressed within 5 seconds of each other, otherwise display returns to the original figure.

**HEAT .....** This key turns the heater and water pump on and off. An indicator to its right indicates its status. Even if this key is turned on, the HEATING indicator light shuts off when water temperature reaches set temperature.

**ROCK .....** This key makes the tub rock. An indicator to its right indicates its status. Pressing this key at any time will stop the rocking motion.

**NUMERIC KEYS (0 - 9) ...** These keys are used to enter a new value when the SET TEMP key or START/CHANGE key is pressed first.

**START/CHANGE ....** This key has dual function. When this key is pressed, the timer display starts countdown from the default or preset timing, 14 minutes for the GENESIS 2002™ and 18 minutes for GENESIS 2006™. If a numeric key entry is made within 5 seconds, a new time is set and displayed, and counts down.

## **INDICATORS**

**HEATING .....** This red indicator is lit when the heating element is actually drawing current from the circuit and heating the water. When it reaches set temperature, the heating indicator light shuts off.

**FAULT .....** If the water temperature exceeds 58 °C, an alarm will sound and the red fault light will be illuminated. This may indicate a unit malfunction.

**ADD WATER ....** This red indicator will light if there is insufficient water in the bath. The unit will not operate. Add water to correct this condition. This indicator will light also when the shroud unit is lifted in up position.

## **7. TROUBLESHOOTING GUIDE**

### **PROBLEM and ACTION**

#### **1) The indicator lights and displays do not come on when the POWER key is pressed.**

- Check the POWER SWITCH on the left-hand side.
- Check the outlet for 110/120 VAC 60 Hz.
- Check the fuse in the unit. Replace the fuse if necessary.
- Ensure that the POWER key is pressed for at least one second.
- Check that there is sufficient water in the bath and that the ADD WATER light is off.
- Check that the FAULT light is off.

**2) The ADD WATER light is on and there is sufficient water in the bath.**

- With the unit unplugged and raised out of the water, check that there is no obstruction around the float switch in the shroud unit. The float should move freely up and down the stem approximately half-inch.

**3) The FAULT light is on.**

- Check the water temperature. If the water temperature is above 58 °C, the FAULT light will light and the unit will not be operable.
- If this temperature is reached, it may indicate a unit malfunction.  
Contact GenesisBPS, LLC for further assistance.

**4) Unit does not heat. HEATING light is on but actual water temperature is not increasing.**

- Remove rear cover and check the heating element for continuity. Replace if necessary. This maintenance should only be performed by a trained technician or GenesisBPS, LLC. Contact it or your Biomedical Department.

**5) Unit does not rock**

- Check that the ADD WATER or FAULT lights are not illuminated.

**6) Bath moves to side when rocking or the rocking motion is not smooth.**

- Ensure that the bath is positioned on the white roller.
- The unit must be operated on a smooth and level surface. Check the level of the work surface and make adjustments if necessary.



**7) Pump does not circulate the water.**

- Debris may be in the pump impeller housing. Raise the shroud unit and lock in the up position. Inspect pump for debris and remove with tweezers or similar instrument.

**8) HEATING light is flashing.**

- This is normal operation. At approximately one degree below the set temperature, the microprocessor begins to reduce the amount of heat generated and the HEATING light begins to flash.

**9) Temperature display at WATER TEMP deviates from thermometer reading.**

- Run the unit for more than 30 minutes.
- Read thermometer temperature while the thermometer remains in water. Remember the temperature reading.
- Press the POWER key to turn the unit power off.
- Press the SET TEMP key and the POWER key at the same time. Power is turned on again but the WATER TEMP display shows an arbitrary number.
- Each time the [5] key is pressed, the number displayed in WATER TEMP window increases by 0.1. Each time the [0] key is pressed, it decreases by 0.1. Press either the [5] key or the [0] key until the WATER TEMP shows same number as the thermometer reading. This adjustment should be done in one minute from when you have read the thermometer.
- Press the POWER key to turn power off.
- Press the POWER key to turn power on again and check calibration has been done correctly.

## **8. SPECIAL FEATURES**

- Thaws multiple plasma units simultaneously
- Thaws standard size plasma as well as cryoprecipitate
- Individual time setting for each bag location
- Forced water circulation with gentle rocking motion
- Compact size - saves valuable bench space
- Quick heating
- Simple to operate - easy to read LED display
- Light weight - easy to carry
- Audio completion signal
- Complies with AABB standards for plasma thawing
- One year limited warranty

## **9. UNIQUE SAFEGUARDS**

- Float switch prevents operation without water
- Water resistant membrane control panel
- Error code display
- Separate electronic circuit prevents overheating of water
- Alarm sounds for all fault conditions

## 10. SPECIFICATIONS

	<b>GENESIS 2002™</b>	<b>GENESIS 2006™</b>
External Dimension	21.6" L x 8.3" Wide x 13.2" High	26.6" L x 9.6" Wide x 13.2" High
Interior Bath Dimension	13.0" L x 7.0" Wide x 7.5" Deep	18.0" L x 8.0" Wide x 7.5" Deep
Bath Volume	2.5 US gallons	3.7 US gallons
Controlled Temp Range	Ambient to 56 °C	Ambient to 56 °C
Displayed Temp Accuracy	+/- 0.3 °C	+/- 0.3 °C
Thawing Time	14 Minutes (*)	18 Minutes (*)
Heating Power	750 WATTS	1250 WATTS
Voltage Requirements	110-120/220-240VAC 50/60 Hz (**)	110-120/220-240VAC 50/60 Hz (**)
Current Rating	7.0 Amps Maximum	11.5 Amps Maximum
Protection	10 Amp Fast Acting Fuse	15 Amp Fast Acting Fuse
Shipping Weight	20 lbs	23 lbs
(*) This time may vary slightly depending on bag content volume, overwrap wrap material, storage temperature and air trapped.		
(**) This machine is dependent on the frequency of AC mains. Operating frequency is marked on the rear panel.		
Note: Due to product improvements, the above specifications are subject to change.		

## 11. ORDERING/RETURN INFORMATION

### ORDERING INFORMATION :

To place an order for a part or an accessory, please call :

GenesisBPS, LLC  
65 Commerce Way  
Hackensack, NJ 07601 U.S.A.  
Tel: 201-708-1400  
866-712-5663  
Fax: 201-704-1104  
[www.genesisbps.com](http://www.genesisbps.com)

### RETURN INFORMATION :

Same as above.

1. Obtain a Return Goods Authorization number.
2. Ensure all water is removed from the unit (including inside the pump). This can be done by lowering the control panel and tilting the unit forward.
3. Towel dry the unit, especially around the pump and heater, before packing.
4. Place water bath over the control panel and pack GENESIS 2002/2006™ securely in a box with clean packing materials (no use polystyrene peanuts or chips as packaging material).  
**Check with GenesisBPS, LLC to determine if water bath should be returned - usually only the control panel is required.**
5. Please provide a brief description of difficulty experienced or reason for return along with the following information :

Hospital/Account Name

Department and shipping address

Name and telephone number of contact

Date GENESIS 2002/2006™ was purchased

Serial #

RGA # (Return Goods Authorization #)

6. Mark outside of box clearly, with your return address, and send to GenesisBPS, LLC. (as above)

**GENESIS 2002™  
GENESIS 2006™  
PLASMA THAWING WATER BATH SYSTEM**

**WARRANTY**

The GENESIS 2002/2006™, Plasma Thawing Water Bath System is warranted against defects in materials and workmanship for a period of one year from the date of purchase. The warranty applies only to products that have not been tampered with, used for purposes other than those specified, or damaged through misuse, accident, dropping, neglect or other conditions beyond the control of the manufacturer. All defective material parts will be repaired or replaced at no charge during the warranty period. To have the machine serviced, ship it, prepaid, to :

**GenesisBPS, LLC  
65 COMMERCE WAY  
HACKENSACK, NJ 07601**

**DO NOT SHIP MACHINE PRIOR TO CALLING  
GenesisBPS, LLC  
CUSTOMER SERVICE DEPARTMENT  
at (866) 712-5663 or (201) 708-1400.**

No merchandise can be returned without prior authorization.