



BIOMAT[®] User Manual

BIOMAT[®] Manuel de l'utilisateur



READ AND FOLLOW THE INSTRUCTIONS IN THIS MANUAL TO PREVENT PERSONAL HARM AND PROPERTY DAMAGE.

VEUILLEZ LIRE ET SUIVRE LES INSTRUCTIONS QUI SE TROUVENT DANS CE MANUEL DANS LE BUT DE PRÉVENIR LES DOMMAGES PERSONNELS ET À LA PROPRIÉTÉ.

Contents

- Safety Precautions..... 2**
- Read before operating the product..... 4**
 - Product components4
 - Product description7
- Product installation..... 11**
 - Checklist before product installation 11
 - Product installation..... 11
- How to use the product..... 12**
 - Turning ON and OFF 12
 - Adjusting the product’s temperature 13
 - Adjusting the product’s operation time 13
 - After using the product 13
- How to clean and store the product..... 14**
 - How to clean the product 14
 - How to store the product..... 14
- Trouble shooting guide 15**
 - Check before contacting customer service 16
- Product specifications 17**
- Product manufacturing information 22**
 - ESD Information.....23
- Customer service information 30**
- Product warranty..... 31**

Safety Precautions

Read and follow all instructions in this manual. Proper use of the Biomat will prevent harm to the user and damage to private property.



WARNING :

Use carefully. May cause serious burns. Do not use over sensitive skin areas or in the presence of poor circulation. The unattended use of the Biomat by children or incapacitated persons may be dangerous.

The Biomat is a medical device and should only be used by a competent adult. Elderly people and people with mobility issues need to be supervised.

- Do not alter, change or disassemble the product. Doing so may cause the product to malfunction and electric shock and fire may occur.
- Make sure to use the proper voltage for your country. Improper voltage may cause electric shock, fire or damage to the product.
- Make sure the plug is firmly connected to the outlet before operating.
- If there is a power outage, turn off the power and disconnect the plug.
- If the Biomat catches fire or begins to smoke, turn off and unplug the device. Report the problem to our Customer Service Center.
- Do not allow children near the Biomat unsupervised. Loss of life or injury may occur if a child wraps the power cord around their neck or trips and falls over the power cord.



CAUTION :

Property damage, device malfunction, or injury may occur if the following instructions are not followed properly. If you do not feel well when using the Biomat, discontinue use and consult with a physician. Only use the Biomat for heat therapy. If it is not functioning properly, discontinue use and contact Customer Service.

- Do not modify or tamper with the Biomat.
- Do not jump, stand, or place heavy objects on the Biomat.
- Do not place the controller on the Biomat when in use. Keep the controller away from the Biomat.
- Do not place the Biomat on surfaces that are sensitive to temperature (i.e. leather).
- Do not cover the controller. Doing so may cause overheating of the controller.
- Do not secure the Biomat with any metal products such as pins.
- Do not drop, throw or mishandle the Biomat controller.
- Do not use the Biomat with any ointments, or creams that generate heat. Doing so may cause burns or injury to your skin.
- Do not use the Biomat with any oils without the waterproof cover. Doing so may cause damage to the Biomat.
- Do not operate the Biomat near objects that generate heat (i.e. ventilation from heaters, stoves) or magnetic fields (i.e. TV, magnetic objects).
- Do not step on or put heavy / sharp objects on the power cord, as the cord may be damaged.
- Do not use if the power cord is damaged. Doing so increases the risk of electric shock or fire.
- Low temperature burns can occur if using the Biomat for a prolonged period of time. Use with caution when the controller is set to 104° ~ 158°F (40° ~ 70°C). Check skin frequently. Stop using the Biomat if burns or blisters occur.
- Do not lay directly on the Biomat. Always cover the Biomat with the cotton pad provided with the product to prevent burns.
- Do not connect the Biomat to any other electronic device. This may cause injury, electric shock or fire.
- Do not use on sensitive skin or on areas where circulation is poor.
- Keep the Biomat away from sharp objects. Do not allow anything to puncture the folds of the Biomat.

CONTRAINDICATIONS :

Do not use the Biomat on infants and young children.

The Biomat is not indicated for the elderly and should consult with a physician prior to use.

Do not use the Biomat if you have any of the following conditions:

- Person with organ transplant
- Person with high fever
- Person with cognitive disability
- Person with skin problems i.e. insensitivity to temperature change
- Person with acute disease, acute tumor, external pacemaker, the visually impaired, and any heart problems

If you have any of the following conditions, only use the Biomat if directed by a physician.

- Person with immobility
- Person with internal pacemaker/defibrillator
- Person with Adrenal Suppression Disorders, Addison's Disease, Adrenal Insufficiency, Systematic Lupus Erythematosus, and Multiple Sclerosis (MS)
- Person with bypass surgery
- Person with diabetes
- Person with high blood pressure (hypertension)
- Person who is pregnant
- Person who is sick
- Person who recently received radiation/chemotherapy
- Person with surgical or silicone implants

INDICATIONS FOR USE :

For use in adults over 18 years of age. The Biomat is indicated for the temporary relief of minor muscle and joint pain and stiffness; the temporary relief of joint pain associated with arthritis; the temporary relief of muscle spasms, minor sprains and strains, and minor muscular back pain; the relaxation of muscles; and the temporary increase of local circulation where applied.

FDA has not evaluated the Biomat for use while sleeping.

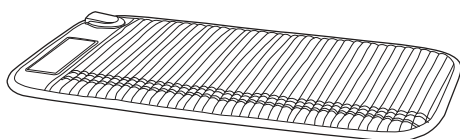
Read before operating the product

Product components

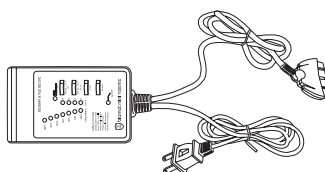
The product components are described here.

※ The components may change without notice due to product improvement.

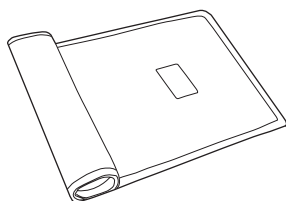
Mini Biomat



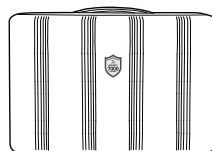
Biomat



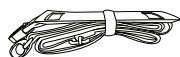
Biomat Controller / Power Cable



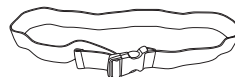
Cotton Pad



Carry Case



Carry Case Strap

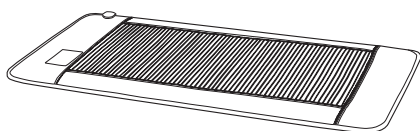


Elastic Band

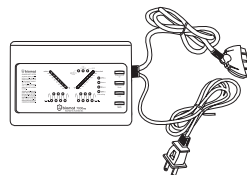


User Manual

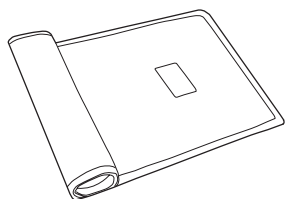
Professional / Single Biomat



Biomat



Biomat Controller / Power Cable



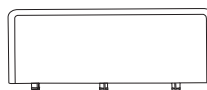
Cotton Pad



Carry Case *

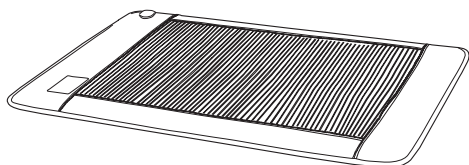


User Manual

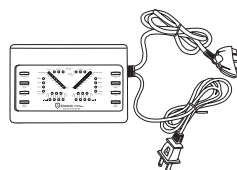


Controller Stand

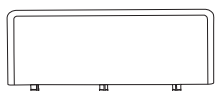
* The Single Biomat does not come with a Carry Case. It comes with a Biomat Bag.

Queen / King Biomat

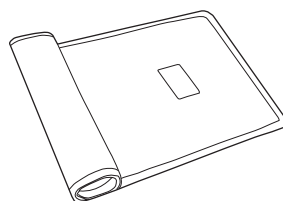
Biomat



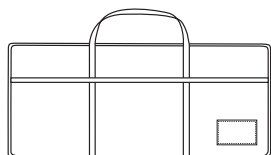
Biomat Controller / Power Cable



Controller Stand



Cotton Pad



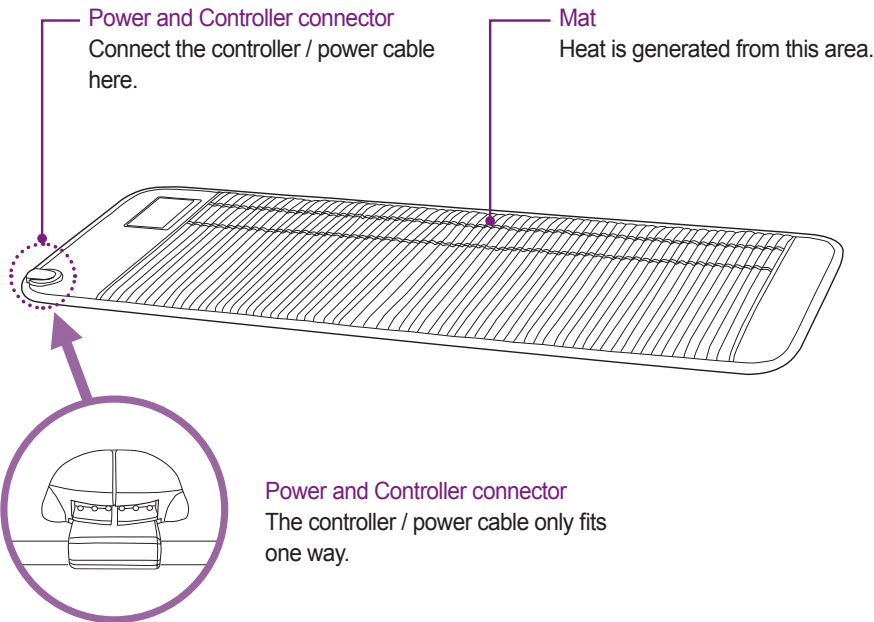
Biomat Bag



User Manual

Product description

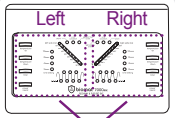
Mat



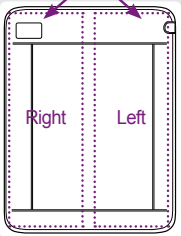
Reference

- The Queen and King Biomat's left and right temperature may be adjusted individually. Direction of the mat and the direction of the controller are shown in the figure on the right.

Controller Front

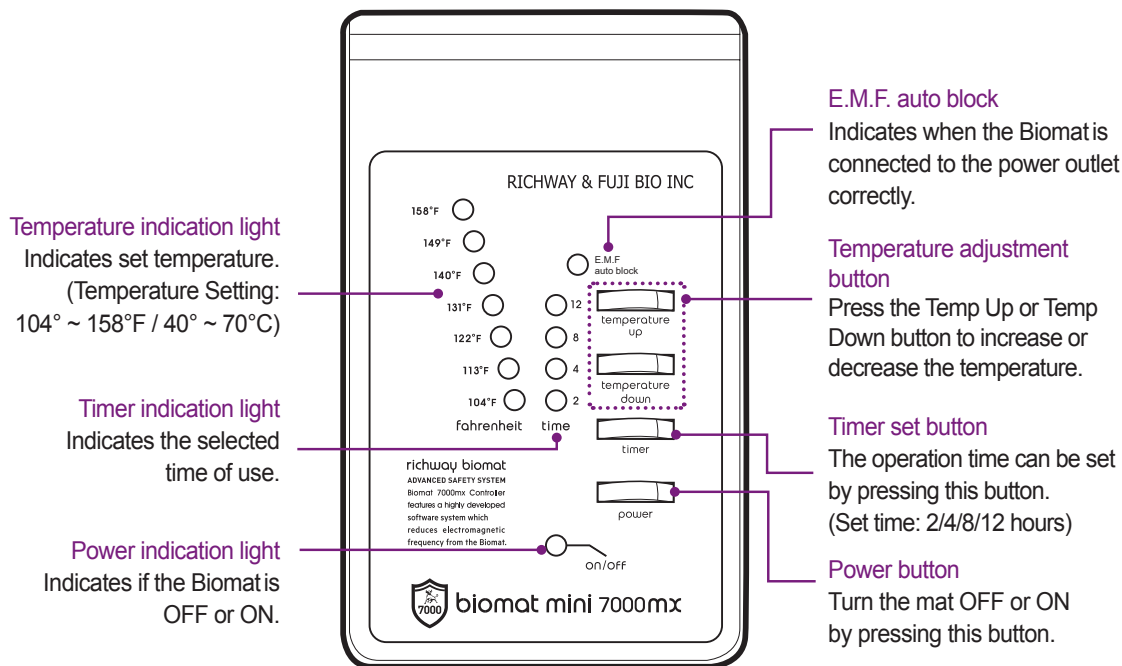


Queen / King Front



Controller

Mini



Professional / Single

Temperature indication light

Indicates set temperature.
(Temperature Setting:
95° ~ 158°F / 35° ~ 70°C)

Indication light

- Infrared ray active (FIR): This light will turn on when a temperature is selected. When the temperature is reached, this light will turn off.
- E.M.F. auto block: Indicates when the Biomat is connected to the power outlet correctly.
- Alarm: This light will flash if any problems are detected during use.

Temperature adjustment button

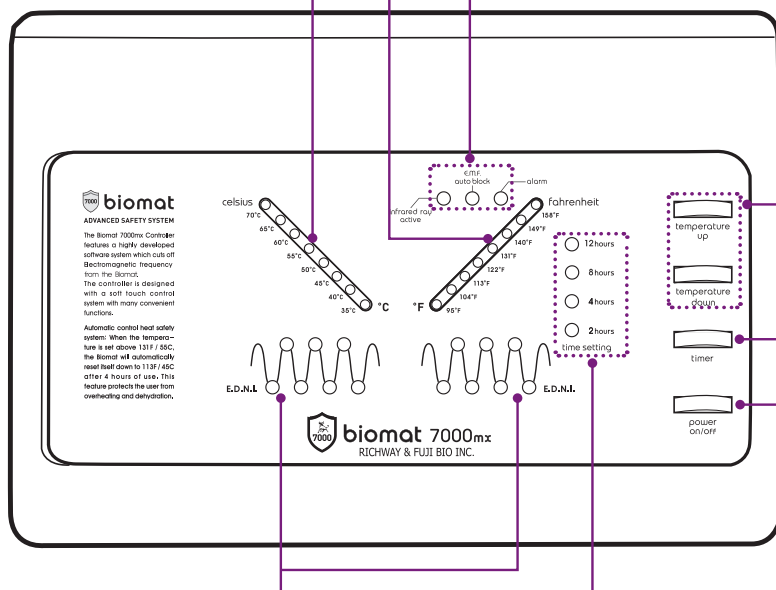
Press the Temp Up or Temp Down button to increase or decrease the temperature.

Timer set button

The operation time can be set by pressing this button.
(Set time: 2/4/8/12 hours)

Power button

Turn the mat OFF or ON by pressing this button.

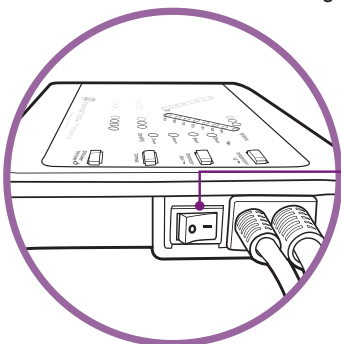


EDNI light (Electric Discharge of Negative Ions)

When the Biomat reaches the set temperature, the EDNI light will flash.

Timer indicator light

Indicates the selected time of use.



Main power switch

Turn the main power OFF or ON by flipping the switch.

"o" down = ON

"o" down = OFF

Queen / King

Temperature indication light

Indicates set temperature.
(Temperature Setting:
95° ~ 158°F / 35° ~ 70°C)

Indication light

- Infrared ray active (FIR): This light will turn on when a temperature is selected. When the temperature is reached, this light will turn off.
- E.M.F. auto block: Indicates when the Biomat is connected to the power outlet correctly.
- Alarm: This light will flash if any problems are detected during use.

Temperature adjustment button

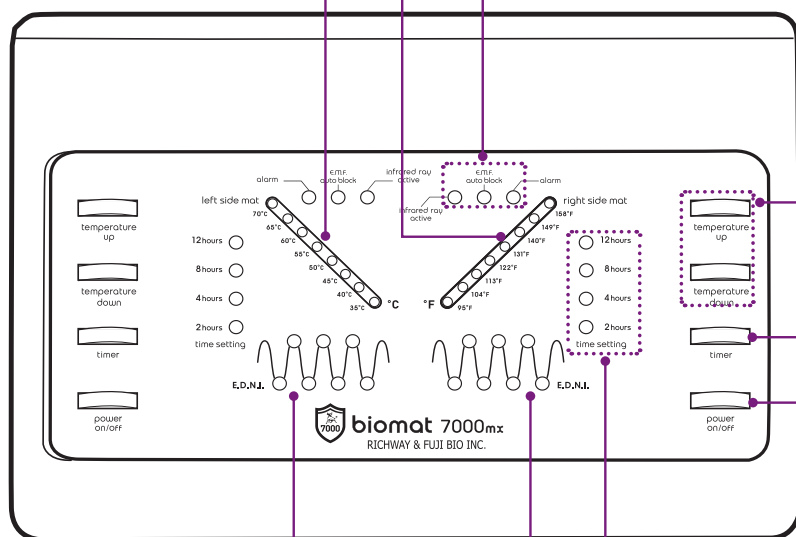
Press the Temp Up or Temp Down button to increase or decrease the temperature.

Timer set button

The operation time can be set by pressing this button.
(Set time: 2/4/8/12 hours)

Power button

Turn the mat OFF or ON by pressing this button.

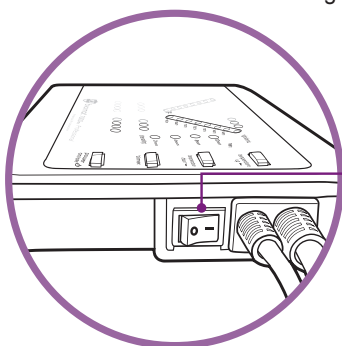


EDNI light (Electric Discharge of Negative Ions)

When the Biomat reaches the set temperature, the EDNI light will flash.

Timer indicator light

Indicates the selected time of use.



Main power switch

Turn the main power OFF or ON by flipping the switch.

"-" down = ON

"o" down = OFF

Product installation

Checklist before product installation

- Do not use the product in areas with high humidity or significant dust.
- Handle the Biomat with care. Any physical impact such as dropping the Biomat can damage internal components.
- Check the voltage before turning on the Biomat.
- Voltage for the product: 120V
- Electric shock or damage to the Biomat can result from improper voltage.
- The Biomat and the controller must be the same voltage.
(i.e. 120V Biomat + 120V Controller / 220V Biomat + 220V Controller)
- Do not use the Biomat if the plug, power cable, or power outlet has any damage. Always check for cuts and scrapes to the power cable.
- Do not pull on the power cord or controller when unplugging the Biomat.
- Use a dedicated outlet when operating the Biomat. Problems may occur when sharing a power strip with other devices.

Product installation

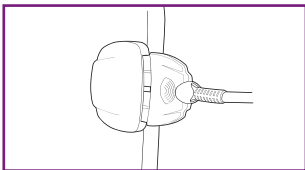
To operate the Biomat follow the steps below.

1. Lay the Biomat on a flat surface with the ridges facing up. Any uneven surface can damage the Biomat. The Biomat can bend 90° to 138°.

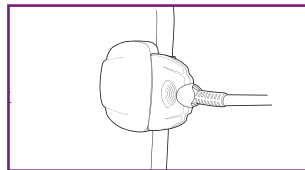
2. Connect the controller / power cable to the connection port of the Biomat. To ensure a secure connection, there should be no space between the connector and the outlet on the mat. The connection may be tight at first.

NOTE: Use care when handling the controller / power cable to prevent accidental breakage. Do not drop, stand on or place heavy objects on the controller / power cable. Never pull the power cable to remove the plug from the receptacle, be sure to hold the plug.

<IMPROPER CONNECTION>



<PROPER CONNECTION>



3. Plug the controller / power cable into an outlet. Make sure the controller is rated for the same voltage as the outlet.

How to use the product

Turning ON and OFF

Check the following to make sure the Biomat is operating properly.

Mini

The Mini Biomat is designed for the purpose of covering the abdomen. It can also be utilized on areas where muscle pain is experienced such as the shoulder or leg.

1. Turn the Biomat on by pressing the Power button on the controller. The EMF light will turn on.
2. If the light does not turn on, check for any plug/power system problems.
3. Press the temperature adjustment button to see if it is working properly. Contact our Customer Service Center if the controller is not working properly.

Professional / Single / Queen / King

The Professional / Single Biomat is designed for one-person use. The Queen / King Biomat is designed for two-person use. The left and right sides of the Queen / King Biomat can be adjusted independently. The temperature and usage time can be set independently to save energy.

1. Press the power switch on the side of the controller to the (-) direction to turn on the power.
2. Turn the Biomat on by pressing the Power button on the controller.
3. Press the temperature adjustment button to see if it is working properly. Contact our Customer Service Center if the controller is not working properly.

E.M.F. Light	Please contact our Customer Service Center if the E.M.F. light does not turn on when the power is connected.
Light Flashing	<p>If the 158°F / 70°C LED light is flashing after turning on, check if the controller and mat are properly connected. To ensure a secure connection, make sure there is no space between the connecting points.</p> <ul style="list-style-type: none"> • The connection may be tight at first. • If the power does not turn on, unplug and re-connect the power plug again. • If the power does not turn on, make sure the controller and outlet voltage are the same. <p>If the power still does not turn on after using the methods stated above, please contact our Customer Service Center.</p>

Recommended usage:

- Use for 40-60 minutes per day at 149°F~158°F/ 65°C~70°C.
- We recommend first time users to start at a low temperature and work your way up.
- Always drink water before and after intensive hyperthermia treatment.

Adjusting the product's temperature

1. When the power is turned on, press the [Temperature Up / Down] button to set the desired temperature.
 - Range of temperature:
Mini: 104° ~ 158°F / 40° ~ 70°C
Professional / Single / Queen / King: 95° ~ 158°F / 35° ~ 70°C
 - Each time the temperature button is pressed, the temperature setting changes in increments of 9°F / 5°C.
2. When adjusting the temperature, the indicator light will change color depending on the temperature selected. Once selected, the Biomat will heat up to the proper temperature. If the button of the controller is not working properly, please contact our Customer Service Center.
 - Blue: 95° ~ 104°F (35° ~ 40°C)
 - Green: 113° ~ 122°F (45° ~ 50°C)
 - Yellow: 131° ~ 140°F (55° ~ 60°C)
 - Orange: 149° ~ 158°F (65° ~ 70°C)
3. Once selected, the Biomat will heat to the proper temperature, and the EDNI light will begin to flash (Professional / Single / Queen / King sizes only).



Caution

- Always cover the Biomat with the cotton pad to prevent burns or injury to your skin. To prolong the life of the Biomat, use the waterproof cover. Place the waterproof cover over the cotton pad.

Adjusting the product's operation time

1. After setting the temperature, press the [Timer] button to set the desired operation time.
 - Range of operation time: 2 / 4 / 8 / 12 hours
 - Factory default setting: 8 hours
 - The timer indication light will decrease according to the time lapsed.
2. Selected time will be indicated by a light next to it.
3. When the set time has lapsed, the Biomat will stop and the power is automatically turned off.



Safety

- If the timer is set for 8 or 12 hours at 131°F (55°C) or higher, the Biomat will automatically decrease the temperature to 113°F (45°C) or below after 4 hours of use. When the set time is reached, the power will turn off.

After using the product

- After using the Biomat, turn it off by pressing the Power button.
- When the power is turned off, unplug the Biomat from the outlet.

How to clean and store the product

How to clean the product

1. Unplug the Biomat before cleaning it. Use a vacuum to remove any dust on the surface and a soft dry fabric to clean the controller.
2. We recommend wiping the clear window on the Biomat once a month with a moist towel to maintain good condition.
 - Do not leave any moisture on the Biomat after cleaning the product.
 - If the Biomat has any moisture or perspiration on it, use a dry towel to wipe it off.
3. Do not use any detergents, solvents, or flammable chemicals when cleaning the Biomat and controller.
4. We recommend washing the cotton pad once a week. The cotton pad can be machine washed.



Caution

- When cleaning the Biomat, do not wash with water, submerge in water, or dry clean. Doing so may cause electric shock or a short circuit.
- When cleaning the Biomat, make sure to turn off the power and unplug it.

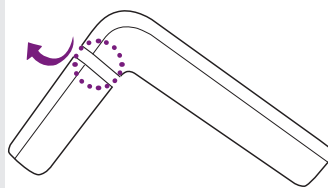
How to store the product

- When not in use, turn off the power and unplug the Biomat.
- Before storing the Biomat, be sure to turn it off and wait until it has cooled down.
- Store the Biomat lying flat (not folded) and in a well-ventilated area.
- If you must fold the Biomat, do so the same way as you received it. Folding it in the opposite direction may cause the internal circuitry to break.
- Unplug the controller from the Biomat and place it in a bag.
- Do not expose the device to water, rain or extreme humidity. It may cause electric shock or fire.



Caution

- To separate the controller from the stand, pull apart according to the instructions shown in this picture.



Product Storage/ Transportation

- Storage / Transportation Temperature: -13 ~ 158°F / -25 ~ 70°C
- Humidity: 15 ~ 93%
- Air pressure: 700 ~ 1060 hPa
- Keep out of direct sunlight.
- Store in an area free of dust and humidity.

Trouble shooting guide

If the alarm light on the controller flashes while using the Biomat, stop using it immediately. Use the trouble shooting guide to eliminate the problem. If recommended steps did not eliminate the problem and the alarm light is still flashing, stop using the Biomat and contact Customer Service.

Mini

Indicator Light	Cause	Resolution method
158°F light is flashing	Biomat connection is not secure	• Check if the Biomat cable is appropriately connected to the controller.
	Defective temperature sensor	• Temperature sensor wire is broken. Contact our Customer Service Center.

Professional / Single / Queen / King

Indicator Light	Cause	Resolution method
Alarm light is flashing	Biomat connection is not secure	• Check if the Biomat cable is appropriately connected to the controller.
	Defective temperature sensor	• Temperature sensor wire is broken. Contact our Customer Service Center.

Check before contacting customer service

If there is any malfunction during the use of the product, check the following contents before contacting our Customer Service Center.

Symptom	Resolution method
The power switch is turned on but the power indicator light is not turned on.	<ul style="list-style-type: none"> • Check if the power plug is securely connected to the outlet. • Check if the proper voltage is applied. • Connect the power plug correctly, but if it still does not properly work, contact our Customer Service Center.
The temperature is set but the Biomat is not working.	<ul style="list-style-type: none"> • Check if the Biomat and the controller are correctly connected. • Turn off the power of the controller and separate the power cable and then re-connect again. • Connect the power cable correctly, but if it still does not properly work, contact our Customer Service Center.
During the use of the Biomat, the power suddenly turns off.	<ul style="list-style-type: none"> • Turn the power off and turn it on again.
The alarm light is on and the Biomat is not working.	<ul style="list-style-type: none"> • If the alarm light is on, turn off the power immediately and unplug the power cable from the power outlet and then contact our Customer Service Center.

Product specifications

Mini

Category		Contents
Product name		Biomat
Model name		Mini Biomat
Country of manufacturing		Korea
Product size		500 x 850 mm
Manufacturing number and manufacturing date, weight or packing unit		1) Record after manufacturing 2) Weight: 5 KG, packing unit: 1 set
Operating temperature		120V: 104° ~ 158°F / 40° ~ 70°C Variance: +/- 9°F / 5°C
Capability and how to use		1) Capability: Refer to the manual 2) How to use: Refer to the manual
Precaution on use		Refer to the manual
Method of keeping and storage		Refer to the manual
Other required matters	Voltage, frequency, power consumption	120V~, 60Hz, 100 W
	Protection type and level on electric shock	Class II equipment, BF-type loading part
	Other required information	Refer to the manual
Type of protection against electric shock		Class II ME equipment
Degree of protection against electric shock		Class BF applied parts - Applied parts: Top of Mat
Degree of protection against harmful ingress of water		Ordinary equipment (IPX0) - Equipment not suitable for use in presence of a flammable anesthetic mixture with air or with oxygen or nitrous oxide.
Mode of operation		Continuous operation

Class II ME equipment (single fault safe)

	Normal Mode	Single Fault Mode
Touch Current	< 100 microA	< 500 microA
Ground Leakage Current	< 5 mA	< 10 mA

Testing in accordance with IEC 60601-1-2 indicates the following:

The Biomat needs no special precautions regarding EMC and needs to be installed and put into service. Portable and mobile RF communications equipment have no adverse effects on the Biomat.

Professional

Category		Contents
Product name		Biomat
Model name		Professional Biomat
Country of manufacturing		Korea
Product size		700 x 1850 mm
Manufacturing number and manufacturing date, weight or packing unit		1) Record after manufacturing 2) Weight: 13.1 KG, packing unit: 1 set
Operating temperature		95° ~ 158°F / 35° ~ 70°C Variance: +/- 9°F / 5°C
Capability and how to use		1) Capability: Refer to the manual 2) How to use: Refer to the manual
Precaution on use		Refer to the manual
Method of keeping and storage		Refer to the manual
Other required matters	Voltage, frequency, power consumption	120V~, 60Hz, 180 W
	Protection type and level on electric shock	Class II equipment, BF-type loading part
	Other required information	Refer to the manual
Type of protection against electric shock		Class II ME equipment
Degree of protection against electric shock		Class BF applied parts - Applied parts: Top of Mat
Degree of protection against harmful ingress of water		Ordinary equipment (IPX0) - Equipment not suitable for use in presence of a flammable anesthetic mixture with air or with oxygen or nitrous oxide.
Mode of operation		Continuous operation

Class II ME equipment (single fault safe)		
	Normal Mode	Single Fault Mode
Touch Current	< 100 microA	< 500 microA
Ground Leakage Current	< 5 mA	< 10 mA

Testing in accordance with IEC 60601-1-2 indicates the following:

The Biomat needs no special precautions regarding EMC and needs to be installed and put into service. Portable and mobile RF communications equipment have no adverse effects on the Biomat.

Single

Category		Contents
Product name		Biomat
Model name		Single Biomat
Country of manufacturing		Korea
Product size		1000 x 2000 mm
Manufacturing number and manufacturing date, weight or packing unit		1) Record after manufacturing 2) Weight: 19.2 KG, packing unit: 1 set
Operating temperature		95° ~ 158°F / 35° ~ 70°C Variance: +/- 9°F / 5°C
Capability and how to use		1) Capability: Refer to the manual 2) How to use: Refer to the manual
Precaution on use		Refer to the manual
Method of keeping and storage		Refer to the manual
Other required matters	Voltage, frequency, power consumption	120V~, 60Hz, 180 W
	Protection type and level on electric shock	Class II equipment, BF-type loading part
	Other required information	Refer to the manual
Type of protection against electric shock		Class II ME equipment
Degree of protection against electric shock		Class BF applied parts - Applied parts: Top of Mat
Degree of protection against harmful ingress of water		Ordinary equipment (IPX0) - Equipment not suitable for use in presence of a flammable anesthetic mixture with air or with oxygen or nitrous oxide.
Mode of operation		Continuous operation

Class II ME equipment (single fault safe)

	Normal Mode	Single Fault Mode
Touch Current	< 100 microA	< 500 microA
Ground Leakage Current	< 5 mA	< 10 mA

Testing in accordance with IEC 60601-1-2 indicates the following:

The Biomat needs no special precautions regarding EMC and needs to be installed and put into service. Portable and mobile RF communications equipment have no adverse effects on the Biomat.

Queen

Category		Contents
Product name		Biomat
Model name		Queen Biomat
Country of manufacturing		Korea
Product size		1400 x 2000 mm
Manufacturing number and manufacturing date, weight or packing unit		1) Record after manufacturing 2) Weight: 28.37 KG, packing unit: 1 set
Operating temperature		95° ~ 158°F / 35° ~ 70°C Variance: +/- 9°F / 5°C
Capability and how to use		1) Capability: Refer to the manual 2) How to use: Refer to the manual
Precaution on use		Refer to the manual
Method of keeping and storage		Refer to the manual
Other required matters	Voltage, frequency, power consumption	120V~, 60Hz, 360 W
	Protection type and level on electric shock	Class II equipment, BF-type loading part
	Other required information	Refer to the manual
Type of protection against electric shock		Class II ME equipment
Degree of protection against electric shock		Class BF applied parts - Applied parts: Top of Mat
Degree of protection against harmful ingress of water		Ordinary equipment (IPX0) - Equipment not suitable for use in presence of a flammable anesthetic mixture with air or with oxygen or nitrous oxide.
Mode of operation		Continuous operation

Class II ME equipment (single fault safe)		
	Normal Mode	Single Fault Mode
Touch Current	< 100 microA	< 500 microA
Ground Leakage Current	< 5 mA	< 10 mA

Testing in accordance with IEC 60601-1-2 indicates the following:

The Biomat needs no special precautions regarding EMC and needs to be installed and put into service. Portable and mobile RF communications equipment have no adverse effects on the Biomat.

King

Category		Contents
Product name		Biomat
Model name		King Biomat
Country of manufacturing		Korea
Product size		1800 x 2000 mm
Manufacturing number and manufacturing date, weight or packing unit		1) Record after manufacturing 2) Weight: 34.37 KG, packing unit: 1 set
Operating temperature		95° ~ 158°F / 35° ~ 70°C Variance: +/- 9°F / 5°C
Capability and how to use		1) Capability: Refer to the manual 2) How to use: Refer to the manual
Precaution on use		Refer to the manual
Method of keeping and storage		Refer to the manual
Other required matters	Voltage, frequency, power consumption	120V~, 60Hz, 360 W
	Protection type and level on electric shock	Class II equipment, BF-type loading part
	Other required information	Refer to the manual
Type of protection against electric shock		Class II ME equipment
Degree of protection against electric shock		Class BF applied parts - Applied parts: Top of Mat
Degree of protection against harmful ingress of water		Ordinary equipment (IPX0) - Equipment not suitable for use in presence of a flammable anesthetic mixture with air or with oxygen or nitrous oxide.
Mode of operation		Continuous operation

Class II ME equipment (single fault safe)

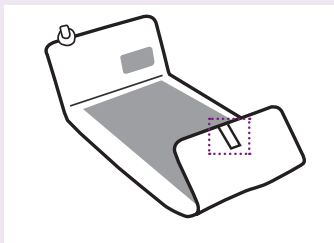
	Normal Mode	Single Fault Mode
Touch Current	< 100 microA	< 500 microA
Ground Leakage Current	< 5 mA	< 10 mA

Testing in accordance with IEC 60601-1-2 indicates the following:

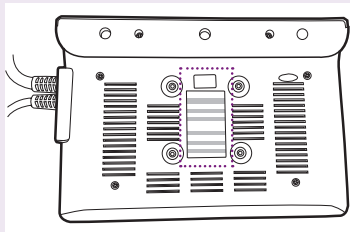
The Biomat needs no special precautions regarding EMC and needs to be installed and put into service. Portable and mobile RF communications equipment have no adverse effects on the Biomat.

Product manufacturing information

Product label is attached to the bottom of the Biomat and the controller.




Label location on the Biomat.



Label location on the controller.

ESD Information

ESD	6kV Contact Discharge; 8kV air discharge
Power frequency magnetic fields	3 A/m at 60 Hz
Conducted RF	150 kHz - 80MHz (3Vrms)
Radiated RF	80 MHz - 2500 MHz (3V/m)

<p>The Biomat is intended for use in the electromagnetic environment specified below. The customer or the user of the Biomat should assure that it is used in such an environment.</p>			
Immunity Test	IEC 60601 Test Level	Compliance Level	Electromagnetic Environment - Guidance
Conducted RF IEC 61000-4-6	3Vrms 150kHz-80MHz	3Vrms	<p>Portable and mobile RF communications equipment should be used no closer to any part of the Biomat, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.</p> <p>Recommended separation distance</p> $d = 1.2\sqrt{P}$ $d = 1.2\sqrt{P} \text{ 80MHz to 800MHz}$ $d = 2.3\sqrt{P} \text{ 800MHz to 2.5GHz}$ <p>Where <i>P</i> is the maximum output power rating of the transmitter in watts(W) according to the transmitter manufacturer and <i>d</i> is the recommended separation distance in meter(m). Field strengths from fixed RF transmitter, as determined by an electromagnetic site survey should be less than the compliance level in each frequency range. Interference may occur in the vicinity of equipment marked with the following symbol;</p> 
Radiated RF IEC 61000-4-3	3V/m 80MHz-2500 MHz	3V/m	
<p>NOTE 1 At 80 MHz and 800 MHz, the higher frequency range applies. NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflections from structures, object and people.</p>			

- a. Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the Biomat is used exceeds the applicable RF compliance level above, the Biomat should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the Biomat.
- b. Over the frequency range 150 kHz to 80 MHz, field strengths should be less than [V1] 3 V/m.

Recommended separation distance
between portable and mobile RF communications equipment and the Biomat

The Biomat is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the Biomat can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment(transmitter) and Biomat as recommended below, according to the maximum output of the communications equipment.

Rated maximum output power of transmitter W	Separation distance according to frequency of transmitter m		
	150 kHz to 80 MHz $d = 1.2\sqrt{P}$	80 MHz to 800 MHz $d = 1.2\sqrt{P}$	800 MHz to 2.5GHz $d = 2.3\sqrt{P}$
0.01	0.12	0.12	0.23
0.1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23

For transmitters rated at a maximum output power not listed below, the recommended separation distance d in meter(m) can be estimated using the equipment applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter on watts(W) according to the transmitter manufacturer.

NOTE 1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects, and people.

MINI

Front



Side



PROFESSIONAL

Front



Side



SINGLE

Front



Side



QUEEN

Front



Side



KING

Front



Side



Customer service information

If your Biomat is not working properly call our Customer Service Center.

CUSTOMER SERVICE CENTER

North America

Richway & Fuji Bio Inc.

Tel: 1-808-589-2800

Toll-Free: 1-855-338-6410 (USA, Canada, Guam, Saipan)

Homepage: www.richwayandfujibio.com

Email: rma@richwayusa.com

Product warranty

Order information	Product name	Biomat	Model name	
	Warranty period	Limited 3 years from the date of product delivery	Manufacturing number	
	Date of purchase		Branch of purchase	
Customer information	Name		Purchase price	

Richway & Fuji Bio warrants the covered product to be free from defects and malfunctions at the time sold. "Defects" as used in this warranty, is defined as imperfections, which impair or impede the function and use of the product.

How Long the Warranty Lasts

This limited lasts 3 years from the date of delivery. This warranty extends to the original purchaser only. Coverage terminates if you sell or otherwise transfer ownership.

What This Warranty Covers

This warranty covers any defects or malfunctions in the electronic components, heating element, and top cover replacement. If Richway & Fuji Bio determines that such goods are defective, within the period of this warranty, Richway & Fuji Bio will repair or replace the parts free of charge for the first year. Repair or replacement for the second and third year requires a fee, which can be found on our website. Repair or replacement is the sole and exclusive remedy available to the buyer, and shall constitute the fulfillment of all Richway & Fuji Bio obligations in respect to the goods furnished under this agreement.

What This Warranty Does Not Cover

This warranty does not cover abuse, misuse, natural disaster, insufficient or excessive electrical supply, ordinary wear, fading, failure to follow instructions and improper maintenance. Richway & Fuji Bio shall not be liable for any incidental or consequential damages as a direct result of negligence or misuse. This warranty does not extend to the purchase of opened, used, repaired, repackaged, and/or resealed products, including but not limited to sale of such products on internet sites and/or sales of such products on internet auction sites and/or sales of such products by surplus or bulk resellers. Any and all warranties or guarantees shall immediately cease and terminate as to any products or parts thereof which are repaired, replaced, altered, or modified, without the prior express and written consent of Richway & Fuji Bio.

How to Get Service

To obtain service under this warranty, contact your local Customer Service Center and provide the purchaser's name, RI (Richway Invoice) number, and a detailed description of the problem you are experiencing. They will provide you with a return merchandise authorization number (RMA). This number is required and must be placed in a visible area on the front of the package. Ship your product postage paid, include a copy of the original sales slip, credit card receipt or other proof of the date of the original retail purchase. If servicing within the first two (2) months, we will send you a prepaid shipping label to cover your shipping costs. If servicing from the third month and on, the customer is responsible for shipping costs to return the product for repair or replacement. We will cover the shipping costs to return the product back to the customer.

How Do State Laws Apply

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Any implied warranties last the duration of this warranty. Some states do not allow limitations on how long an implied warranty lasts and some states do not allow the exclusion or limitation of incidental or consequential damages, so the limitations or exclusions may not apply to you.

THE
RICHWAY
GROUP

RICHWAY & FUJI BIO INC.

1314 South King Street Suite 520, Honolulu, HI 96814 USA

Tel: 1-808-589-2800/ Toll-Free: 1-855-338-6410

Homepage: www.richwayandfujibio.com



Manufacturer: Richway & Fuji Bio Inc.
1314 S King St Suite 520, Honolulu, HI 96814 USA

Contract Manufacturer: R&L Co., Ltd.
Address: 11F, Ace Gwangmyeong Tower B, 108 Haan-Ro, Gwangmyeong-Si,
Gyeonggi-Do, Korea 14319