

speCtra

INSTRUCTION FOR USE

ELECTRIC BREAST PUMP

SPECTRA S2 PLUS

ELECTRIC BREAST PUMP

SPECTRA S1 PLUS



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Warnings and precautions

When using electrical products, especially when children are present, basic safety precautions should always be followed.

1. If you are a mother who is infected with Hepatitis B, Hepatitis C or Human Immunodeficiency Virus (HIV), pumping breast milk will not reduce or remove the risk of transmitting the virus to your baby through your breast milk.
2. Before each use visually inspect the individual components for cracks, chips, tears, discoloration or deterioration. In the event that damage to the device is observed, please discontinue use until the parts have been replaced.



Read all instructions before using.

When using electrical products, basic safety precautions should always be followed.



To reduce the risk of electrocution:

1. Do not use while bathing.
 2. Do not place or store product where it can fall or be pulled.
 3. Do not place in or drop into water or other liquid.
 4. Do not reach for a product that has fallen into water, unplug the product immediately.
 5. Do not sanitize the kit in microwave oven, never immerse main body in water.
-



To reduce the risk of burns, electrocution, fire, or injury to persons :

1. This product should never be left unattended when plugged in.
2. Close supervision is necessary when this product is used near infants or children.
3. Use this product only of its intended use as described in this manual.
Do not use attachments not recommended by the Uzinmedicare.co.,Ltd.
4. Never operate this product if,
 - it has a damaged cord or plug
 - it has been dropped or damaged
 - dropped into water, or if any parts are broken or missing
5. Keep the cord away from heated surface.
6. Never use while sleeping or drowsy.
7. Do not use outdoors or operate where aerosol spray products are being used or where oxygen is being administered.
8. The power cord should be unplugged from the outlet when not in use.
9. No user serviceable parts inside. Disassembly or modification voids warranty and may create safety issues.
10. Do not inhale or swallow small parts.
11. Allergic reactions may occur.
12. Lint, dust, light(including sunlight), etc. can unacceptably affect safety and essential performance.
13. AC/DC adaptor must be within reach and easy to unplug during use.



NOTE: If you feel pain in your breast or nipple, please try one of the following options:

1. Lower your pump suction (vacuum suction setting) to a comfortable level.
2. Turn the pump off, pull the adapter plug out of wall outlet, and break the suction by inserting a finger between your breast and the breast shield before you remove the breast shield from your breast.
3. Make sure you are using the correct breast shield size—<https://www.spectrababyusa.com/guide/>.
4. If the issue persists, contact a healthcare/lactation professional. You can make an appointment with one of our lactation consultants for an online consult at www.spectrababyusa.com/lactationservices.
14. Dropping the product may cause damage. Inspect immediately before use, contact Spectra Baby USA if cracks, damage, or operating issues occur.
15. To maintain performance and assure safety, only accessories and replacement parts marketed by Spectra Baby USA should be used with this product.

 General Action sign	 Danger, Warning	 General prohibition sign
 Type BF	 DC	 Class II
 Power On / Off	 Refer to IFU	 Manufacturer
 95 % 20 % Transport/Storage/ Operation Humidity	 40 °C 5 °C Operation temperature	 105 kPa 70 kPa Operation atmospheric pressure
 Fragile	 Keep dry	 SN Serial Number
 Date of manufacture	 This product should not be mixed with other commercial wastes for disposal.	 6 Do not pile
 Quality System		

WARNING!

The Spectra S1 Plus and S2 Plus pumps are intended for use by a single user. The pumps and accessories should not be shared.

The Spectra S1 Plus and S2 Plus are powered electrical breast pumps to be used by lactating women to express and collect milk from their breasts. The Spectra S1 Plus and S2 Plus pumps and accessories are intended for use by a single user. The pumps and accessories should not be shared.

*** Contraindication**

Women who are infected with Hepatitis B or HIV or any virus.

A woman who is breastfeeding an infant / gender: female / age: adult.

4. Components And Assembly

NOTE : Components may vary by country.



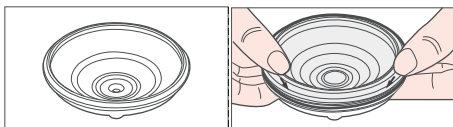
Prior to using the breast pump for the first time, sanitize the flanges, backflow protectors, silicone valves, bottles, bottle covers, and mounting rings in boiling water for 5 minutes.

These kits are designed for individual use. Never share kits.

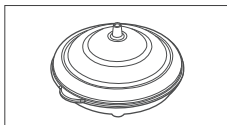


NOTE: To prevent distortion or damage, do not boil for more than 5 minutes during sanitization process, as parts may become distorted.

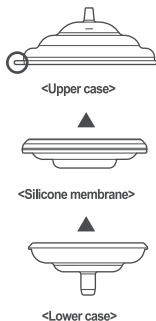
· How to Assemble the Backflow Protector.



(1) Insert the white silicone membrane into lower case.



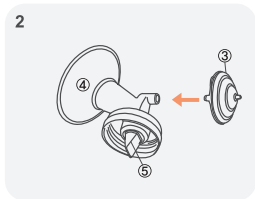
(2) Insert upper case into assembled silicone membrane.



· How to Assemble the Pump Kit.



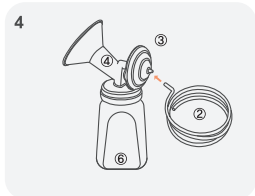
< Push ⑤ Silicone Valve onto ④ Breast Flange >



< Insert ③ Backflow Protector Assembly into ④ Breast Flange >

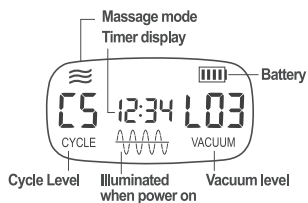


< Screw ⑥ Bottle into ④ Breast Flange Assembly >

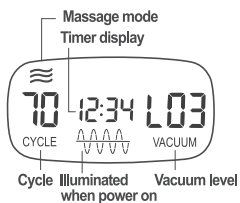


< Insert ② Tubing into ③ Backflow Protector >

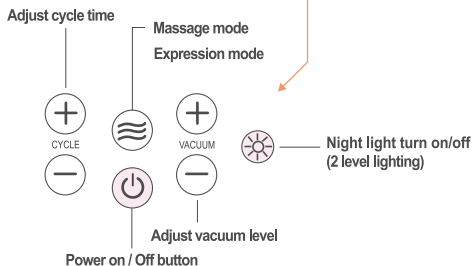
S1 Plus LCD Display



S2 Plus LCD Display



6. Button Control

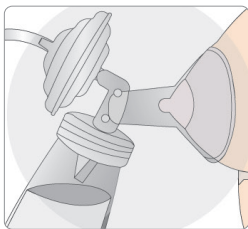


- 1) Relax, clear your mind, listen to soothing music. If your baby is not present, look at pictures or videos of your baby.
- 2) Sit in a comfortable chair and if needed to support lower back, use a pillow.
- 3) Stimulate your letdown reflex before pumping. Some women have found that gently massaging their breasts with circular motion from the wall of their chest toward the nipple or applying a warm compress on their breasts prior to pumping helps trigger their letdown reflex.
- 4) Make certain your flange is the appropriate size for your nipple.
- 5) Always wash hands well with soap and water before pumping.
- 6) Clean and disinfect the pump and clean countertop with disinfectant wipes prior to each use.

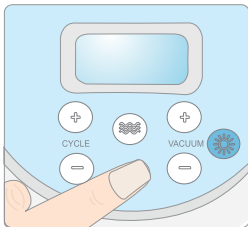
NOTE : For maximum milk expression, we recommend that you pump frequently but in short increments. (10-15 minutes per breast, every 2-3 hours, 7-8 times a day)

NOTE : Even when you are using the breast pump, breastfeed your baby whenever you can.

8. Getting Started

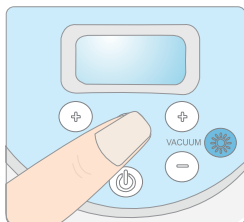


1. Center the breast flange on your nipple so that the nipple is positioned in the center of the tunnel opening without rubbing or pressing into the sides of the funnel.

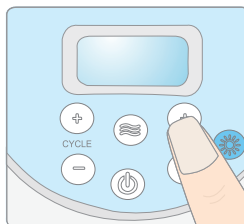


2. Press the power button.
The screen will light up and the pump is ready.

NOTE: After powering on, the screen will light up and the pump is ready. Select massage mode (3 wavy lines)  by pressing the button until the symbol appears in the display. Milk will start flowing.



3. Press the massage/expression button (wavy lines icon) to change to expression mode once your milk starts flowing.

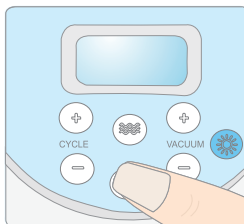


4. Adjust the vacuum (plus/minus icons) to comfort level. (Never set high enough to cause discomfort)

The vacuum suction level refers to how strongly the pump will suckle – a higher number is higher vacuum. Please be careful when setting the vacuum level on the Spectra Synergy Gold. Some women find that milk expression is faster on higher vacuum levels. However, it is important to not set vacuum level so high that it makes you uncomfortable, as the resulting pain can impact your milk flow.

Therefore, we suggest that you start off with the vacuum level on low and then gradually increase the vacuum suction to a comfortable level. You may find that level of vacuum that you are comfortable with varies significantly, from day to day, during the day, and even during the same expression session.

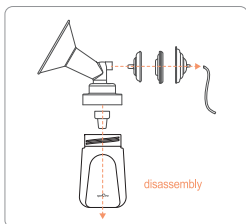
The vacuum suction level refers to how strongly the pump will



5. When you are finished pumping a breast, press the power button then remove the breast flange assembly.



NOTE: The S1 and S2 pumps are designed to turn off automatically after 30 minutes



6. Once you stop pumping, twist to detach the backflow protector from the flange. Remove the flange from the milk collection bottle and close the bottle tightly with the bottle lid and store safely.

• Vacuum Setting

The vacuum level is measured in mmHg on your breast pump and refers to how strongly the pump will 'suck'.

Please be cautious when setting the vacuum level on the Spectra S1 Plus/S2 Plus.

Some women find that milk expression is faster on higher vacuum levels.

However, it is important not to set the vacuum level so high that it makes you uncomfortable, as the resulting pain will hinder your milk flow.

We therefore suggest that you start off with the vacuum level on low, and then gradually increase the vacuum level to a comfortable level.

You may find that the vacuum level that you are comfortable with varies significantly, from day to day, during the day and even during the same expression session.

Adjust the vacuum level by pressing the  buttons.

• Cycle speed setting

The cycle speed is measured in cpm(cycles per minute) on your breast pump and refers to how many times the pump 'sucks' and releases per minute.

Your Spectra S1 Plus/S2 Plus has been designed with variable cycle settings so that you can find the setting that suits your body best.

Changing the cycle speed can make a dramatic difference in milk expression for some women.

Everyone is different, so adjust the cycle speed setting to find what speed works best for you. Adjust the cycle speed by pressing the  button.

• Massage and expression modes.

① Massage mode: In this mode, you have cycle speed 70 and 5 vacuum strengths levels L01 - L05. The 3-wave button is displayed directly above the power button.

② Expression mode: This mode has 5 cycle speeds per minute (CPM) 54 - 38. The 3-wave button is displayed directly above the power button and is the same as the massage mode.

After letdown begins, once the milk is flowing, you should switch to expression mode, to start slower and deeper suckles, to draw down the milk. This mode has a slower cycle speed and higher vacuum suction level.

Please adjust the vacuum strength in expression mode and massage mode to find the setting that works best for you.

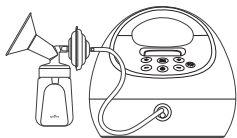
NOTE : The Spectra S1 Plus/S2 Plus will remember your expression settings automatically for your next session.

If you want to start pumping on settings different from those used during your previous session, adjust the settings before you start expressing.

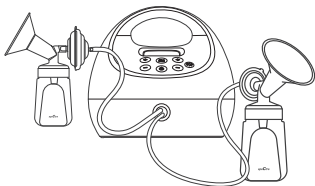
9. How To Use The Dual Pump

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<Single pumping>



<Double pumping>



1) Remove the air cap

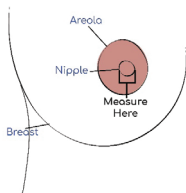


2) Connect tubing from each milk collection kit to an air nozzle.



NOTE: When single pumping, the air cap must be attached to at least one air nozzle. Either port can be used when single pumping.

10. Finding Your Flange Size



Use a ruler, a measuring tape, or a flange measurement guide.
Measurement must be in millimeters (mm)/1cm = 10mm
A guide is available on spectrababyusa.com.

Measure the diameter of your nipple at base, do not include areola (see picture above.) If the diameter of your nipple is:

Up to 16mm use 20mm flange

Up to 20mm use 24mm flange

Up to 24mm use 28mm flange

Up to 28mm use 32mm flange

The 24mm and 28mm flange sizes are included with your pump. Contact Spectra Baby USA for the other sizes mentioned above.

11. Cleaning And Disinfection

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Sanitizing regularly before then after use and at least once a day, is especially important if your baby is less than 3 months old, was born prematurely, or has a weakened immune system due to illness or medical treatment.

Sanitize Accessories Prior To First Use:



CAUTION: Do not wash/sanitize the tubing. It should never come into contact with breast milk since the Spectra Synergy Gold pumps are closed-system pumps.



NOTE: Use a designated basin to clean your pump parts; do not wash them in the sink.

First, wash all parts in warm soapy water and rinse well. Next, sanitize as detailed below. **To avoid tearing or damaging the seals, never insert anything into the duckbill valves when cleaning them.**

Accessories (clear/yellow): breast shield/flange, upper and lowercase of backflow protector, bottle, nipple mounting ring, bottle cover and airtight cap:

- Use a pot large enough to fit all your parts—if the pot is too small, parts discoloration and/or distortion may occur, damaging your parts.
- Fill with water so that when your parts are added the water is at least 4" above the parts.
- Remove parts from pot, place lid on the top of the pot, and bring to boil.
- Once the water reaches boiling point, turn off the heat and then submerge accessories in boiling water—the water should continue to boil.
- Remove accessories after 3-5 minutes.

Silicone accessories (white): duckbill valves, backflow protector membranes, and bottle nipples:

- Soak them in boiling water for no more than 2 minutes.



TIP: Do not expose silicone accessories to high heat to prevent melting, warping, or damaging them.

Place all cleaned and sanitized parts to dry on a clean paper towel to drain. Once the parts are dry, assemble the pump before you store or use it.



WARNING: Do not boil for more than 5 minutes during sanitization process, as parts may become distorted.

AFTER EACH USE:

- Disassemble all parts that come into contact with the breast and breast milk - flanges, valves (duckbill or valve with membrane, bottles, airtight cap and backflow protectors).
- Wash each piece in warm soapy water and rinse with hot water.
- Place parts to air dry on a clean paper towel.
- Once the parts are dry, assemble the pump before you store it or use it.

Using non-antibacterial soap is recommended to ensure that you are not leaving a film on your flanges that can impede the natural secretions from your mammary glands

CAUTION: NEVER wash or sanitize your tubing as it will never come into contact with your breast milk.



To avoid damaging the breast pump, DO NOT use it with wet tubing. If tubing becomes moldy, discontinue using and replace immediately.

- Parts can be cleaned in a dishwasher. If using a dishwasher, place items on wash cycle on the top rack using a closed top basket or a mesh bag, and air dry. Do not use heat dry.
- Microwave bags can be used if the proper amount of water is added. Follow the instructions of the bag manufacturer.

In the dishwasher

- **Note: Cleaning the airtight cap in warm soapy water is recommended.**
- Rinse bottle parts and any other feeding items by holding them under running water. The water can be warm or cold.
- Place parts in the top rack of the dishwasher. (Be sure to place small items inside a closed-top basket or mesh laundry bag so they don't end up in the dishwasher filter.) If possible, run the dishwasher using hot water and a heated drying cycle (or sanitizing setting); this can help kill more germs.
- Wash your hands with soap and water before removing and storing cleaned items.
- Remove parts from dishwasher - If items are not completely dry, place them on a clean, unused dish towel or paper towel to air dry thoroughly before storing in an area free of dust or dirt. Do not use a dish towel to rub or pat items dry because doing so may transfer germs to the items.



WARNING:

- Microwaving your parts can result in distortion and/or discoloration of the parts. Care must be used.
- Discoloration may occur over time, this is cosmetic and does not affect the chemical composition of the parts.



NOTE: The above guidelines are for healthy, full-term babies. If your baby was born prematurely, has a weakened immune system due to illness, has other health challenges, or is hospitalized, consult your hospital and your child's health care provider for cleaning requirements.

12. How Long Can I Store Breast Milk?

It is important that you store your expressed breast milk properly to help it stay fresh and maintain its anti-bacterial properties as well as its nutritional and immunological qualities.

STORAGE RECOMMENDATION OF FRESHLY EXPRESSED BREAST MILK

Guidelines for Healthy, Full-Term Babies

LOCATION	TEMPERATURE	STORAGE TIME
Countertop	77°F/25°C or colder (room temperature)	Up to 4 hrs.
Refrigerator	40°F/4°C	Up to 4 days
Freezer	0°F /-18°C or colder	Up to 6 months recommended (12 months is acceptable)
Insulated Cooler Bag	59°F/15°C	24 hrs. (refrigerate or freeze after 24 hrs.)

Source: CDC - Human Milk Storage Guidelines

https://www.cdc.gov/breastfeeding/recommendations/handling_breastmilk.htm

- Storage times may vary for premature or sick babies. Please contact your health care provider for instructions.
- When storing breastmilk, use breastmilk storage bags, which are made for freezing human milk. You can also use clean glass or hard BPA-free plastic bottles with tight-fitting lids. Do not use containers with the recycle number 7, which may contain BPA. Do not use disposable bottle liners or other plastic bags to store breastmilk.
- Write the date on the storage container. Include your child's name if you are giving the milk to a childcare provider.
- Refrigerate or chill milk right after it is pumped, if possible. You can put it in the refrigerator, place it in a cooler or insulated cooler pack, or freeze it in small (2 to 4-ounce) batches for later feedings. If you're not going to use refrigerated breastmilk within 4 days of pumping, freeze it right after pumping. Freeze in small amounts (2 to 4 ounces, or ¼ to ½ cups) for later feedings. Leave about an inch at the top of the container, to allow for expansion. Loosely tighten the cap on the bottles, then fully tighten bottle caps or lids after the milk is completely frozen. Store milk in the back of the freezer, not on the shelf of the freezer door, so that it doesn't start to thaw out. Milk stored at 0°F or colder is safe for longer durations, but the quality of the milk might not be as high.

Type	Storage Time
Freezer -18°C (0°F) or colder temperature	Within 6 months is best. Up to 12 months is acceptable.

Source: Office of Women's Health (OWH) Milk Storage Recommendations

<https://www.womenshealth.gov/breastfeeding/pumping-and-storing-breastmilk>

- Always make sure to check the date on the milk's container before using. Do not use undated milk, or milk that has been stored too long.
- Thaw the oldest breastmilk first. Thaw frozen milk in the refrigerator or under cool, running water.
- Breastmilk does not need to be warmed. Some moms prefer to serve it at room temperature. Some moms serve it cold.
- If you decide to warm the breastmilk:
 - Keep the container sealed while warming.
 - Hold it under warm, not hot, running water, or set it in a container of water that is warm, not hot.
 - If warm water is not available, heat a pan of water on the stove. Once the water is warm, not boiling, remove the pan from the stove and place the milk container in the pan. It may take approximately 20 minutes to bring cold milk to room temperature. Never warm the milk container directly on the stove!
 - Never put a bottle or bag of breastmilk in the microwave. Microwaving creates hot spots that could burn your baby and damage the milk.
 - Test the temperature before feeding it to your baby by dropping some on your wrist. The milk should feel warm, not hot.
- Once thawed, gently swirl the container to mix the cream part of the breastmilk that may rise to the top back into the rest of the milk. Do not shake the milk. This can make some of the milk's valuable parts break down.
- After thawing, milk should be stored in the refrigerator for no more than 24 hours.
- Never refreeze thawed milk. Throw away previously frozen milk that is not used within 24 hours.
- If you are combining expressed breast milk with cold breast milk, make sure all the milk is at the same temperature.

Feeding Breast Milk

It is recommended that you establish and maintain your milk supply prior to introducing the bottle to your baby (approximately 6 weeks.)

- Inspect bottle, nipple, and other feeding tools before and after each use. Stop using and replace damaged, cracked and/or torn nipples immediately.
- Do not attempt to enlarge the nipple hole.
- Do not bottle feed an infant without adult supervision.
- Do not use your bottle nipple as a pacifier.

14. Battery Information

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The battery used in this device may present a risk of fire or chemical burn if not used properly.

Do not disassemble, heat, incinerate or dispose of in fire.

Battery : 11.1V 2000mAh Li-Polymer	
4 bar battery indicator on display	Operating time remaining : 3 hours
1 bar battery indicator on display	Operation time remaining : 1 hour
Battery indicator flashes	Operation time remaining : 30minutes battery needs charging

(Note : Battery performance will be reduced after charging 300 times.)



Use only the power adapter provided by Spectra Baby USA.

15. Night Light

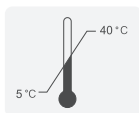
The innovative built-in LED light allows you to select one of two lighting levels, so you always have a light source available that won't disturb your baby while expressing milk.



Press the Night Light button once for the lowest level and twice for the highest level.

Condition	Possible Causes	Checks	Solutions
No Power	Adaptor	Check if the power cord is not connected or it has damaged	Plug into the outlet. If it has damaged, contact manufacturer or service center or where you purchased
	Dead battery	Check after charged	If it doesn't charge, contact manufacturer or service center or where you purchased
No Suction	Air tube	Check the tubing is connected to the main body	Connect the air tube to the main body
	Valve	Check if they are connected to breast shield properly	Disassemble and reassemble them properly
	Air cap	Check if the air cap is closed	Close the air cap
Low Suction	Vacuum level	Check if there is a low vacuum level on the vacuum regulator valve or if there is an abnormal noise	Contact the location where you purchased the product or the manufacturer
	Defective assembly kit	Check the connection of the kit	Disassemble and reassemble them
	Breast shield	Check if there is problem with the breast shield	Purchase and replace the breast shield
	Valve	Check if there is damaged in valve head	Replace the valve
Pain	Too high suction	Check the suction level	Set to the lowest suction level and consult your lactation consultant or physician.

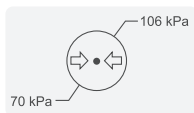
Environment to use



Temperature

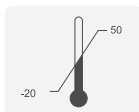


Humidity



Pressure

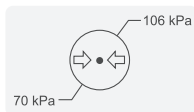
Environment to storage



Temperature



Humidity



Pressure

18. Specifications

Protection Type : Class II

Weight : 1.33kg(S1 Plus), 1.18kg(S2 Plus)

Power consumption : 61VA(S1Plus), 66VA(S2Plus)

Model : UES 24 LCP -120200SPA

Adapter Input : 100-240V~50/60Hz, 500mA

Output : 12V $\equiv$ 2A

Battery : Li-Polymer 11.1V 2,000mAh(only for Spectra S1 Plus)

This equipment needs to be installed and put into service in accordance with the information provided in the user manual.

[IEC/EN 60601-1-11:2010 Clause 12.3a]

Wireless communications equipment such as wireless home network devices, mobile phones, cordless telephones and their base stations, walkie-talkies can affect this equipment and should be kept at least a distance 1.0m away from the equipment.

[IEC/EN 60601-1-11:2010 Clause 12.3b]

This equipment has been tested and found to comply with the limits for medical devices in IEC 60601-1-2:2014.

These limits are designed to provide reasonable protection against harmful interference in a typical medical installation.

This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to other devices in the vicinity.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to other devices, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving device.
 - Increase the separation between the equipment.
 - Connect the equipment into an outlet on a circuit different from that to which the other device(s) are connected. Consult the manufacturer or field service technician for help.
-

This product is warranted by SPECTRA BABY USA, to the purchaser to be free from defects in material and workmanship for a maximum period of two (2) years from the date of purchase. In the event of a defect or failure to conform to this warranty, SPECTRA BABY USA will, at SPECTRA BABY USA's option, replace this product without charge for such replacement or parts at the SPECTRA BABY USA office listed below. The purchaser shall bear all responsibility and expense for returning this product, including risk of loss prior to receipt by SPECTRA BABY USA, as well as shipping, packing and insurance costs.

ANY AND ALL IMPLIED WARRANTIES ARE LIMITED TO THE DURATION OF TWO (2) YEARS FROM THE DATE OF PURCHASE. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

THE LIABILITY OF SPECTRA BABY USA, FOR BREACH OF ANY WRITTEN OR IMPLIED WARRANTY IS LIMITED TO THE REPLACEMENT OF THIS PRODUCT. SPECTRA BABY USA WILL HAVE NO LIABILITY UNDER ANY CIRCUMSTANCES FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

SPECTRA BABY USA will have no obligation under this warranty to replace this product and/or its components due to any malfunction or damage caused by accident or arising from misuse, abuse, improper maintenance, unauthorized modification, or connection to an improper power supply. Without limiting the generality of the foregoing, bending or dropping of this product or its components and visible cracking of the equipment housing will be presumed to be defects resulting from misuse or abuse. Accessories that are not expressly manufactured by SPECTRA BABY USA and intended for use with the Spectra Synergy Gold breast pump will immediately void this warranty. A charge will be made for replacement of damaged parts.

If you wish to make a claim under this warranty, please contact the warranty team at warranty@spectrababyusa.com for instructions. You will be required to provide a proof of purchase or receipt.



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