speCtra

INSTRUCTION FOR USE

EN
ES
FR
RO
RS

ELECTRIC BREAST PUMP
SPECTRA S2 PLUS

ELECTRIC BREAST PUMP
SPECTRA S1 PLUS



CE
2460

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1. Important Safeguards

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

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 follwed.



To recduct 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 in necessary when this product is used near infants or chide.
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.
   If it is not working properly, if it has been dropped or damaged.
   Dropped in to 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 sparay.
   Products are being used or where oxygen in being administered.
8. The power cord should be unplugged from the outlet when not in.
9. Do not disassemble or modify the product when disassembled, the after sale service is not available.
10. Do not inhale or swallow small parts.
11. Allergic reactions may occur.
12. Lint, dust, light(including sunlight), etc can be unacceptably affect safety and essential performance.
13. AC/DC adaptor must be easy to unplug position during usage.
    If you feel pain in your breast or nipple, turn the pump off or adapter plug out and remove from your breast.
    Consult your healthcare professional (suction can be broken by inserting finger between the breast and breast shield or by shutting the pump off)
14. Be careful not to drop product. If dropped or impacted, contact nearby service center.
15. Do not use accessories of other brand with this product.
    Breast shield of this product is complying with biocompatibility of medical device.

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2. Important Symbols

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	106 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
ISO 13485 Quality System	EC REP European representiative	CE 2460 CE certificate logo

WARNING!

The breast shield kit is a single user product and use by anyone other than the original owner may present health risks, affect performance integrity.

3. Indication For Use

The Spectra S1Plus/ S2Plus is a powered breast pump to be used by lactating women to stimulate, express and collect milk from their breasts. The electric breast pump can be used to pull out flat or inverted nipples so a nursing baby can latch on more easily. The Spectra S1Plus/ S2Plus is intended for multiple users.The breast shield kit is for personal use only.

* Contraindication
  Women who are infected with hepatitis b or hiv or any virus.

* Patient populations
  A woman who is breastfeeding an infant / gender: female / age: adult

4. Components And Assembly

NOTE : Parts may vary by country.

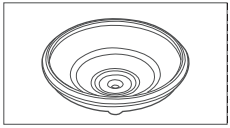


Before using the spectra-series breast pump for the first time, sanitize the breast shield kit in biling water for 5 minutes.(parts may bend if boiled for more than 5 minutes.)

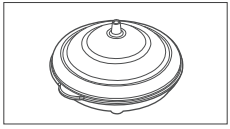
NOTE : Do not boil for more than 5 minutes, as parts may become distorted.

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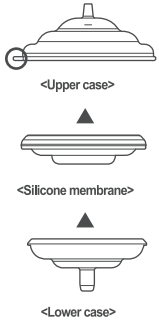
· How to Assemble the Back-Flow Protector.



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



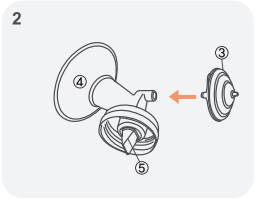
(2) Insert upper case into assembled silicone membrane.



· How to Assemble the Pump Kit.



< Push ⑤Silicone valve onto ④Breast shield >



< Insert ③Back-flow Protector into ④Breast shield >



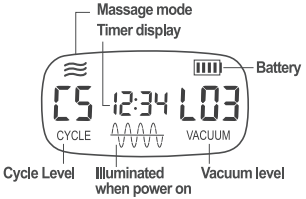
< Screw ⑥Bottle into ④Breast shield >



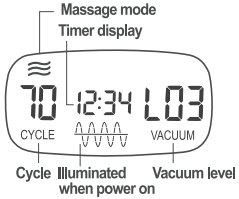
< Insert ②Tubing into ③Back-flow Protector >

5. LCD Display

S1 Plus LCD Display

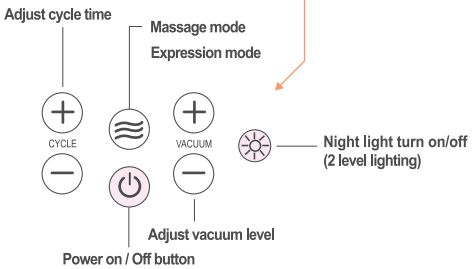


S2 Plus LCD Display





6. Button Control



7. Pumping Guide

1) Relax and stimulate your let-down reflex.

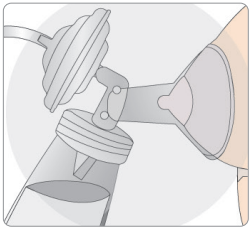
2) Gently massage your breasts or apply warm compresses from the back of the breast toward the nipple before using.

3) Express milk from each breast for 10 -15 minutes.

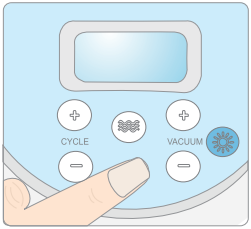
NOTE : For maximum milk expression, we recommend that you pump frequently but in short increments. (10-15 minutes per breast, every 2-3 hours, 7-8 times a day)

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

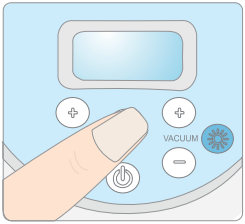
8. Getting Started



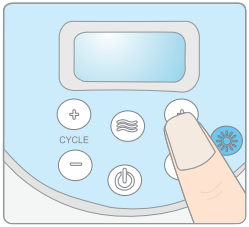
1. Center the breast shield on your breast so that the nipple is drawn into the flange.



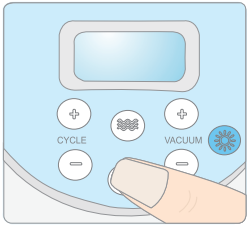
2. Press the power button.
The screen will light up and begin.



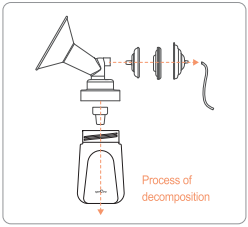
3. Press the massage/expression button to change to expression mode once your milk starts flowing.



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



5. When you wish to stop expressing, press the power button then remove milk collection kit from your breast.



6. Disconnect the backflow protector from the breast shield.
   Remove the breast shield from the milk collection bottle and close the bottle tightly with bottle cap & disk 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 S1Plus/S2Plus.
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 s1plus/s2plus has been designed with variable cycle settings so that you can find the setting that suits your body beast.

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

You will adjust the vacuum level in massage mode to find what works best for you.

② Expression mode :

After letdown begins, and once the milk is flowing, your baby will start sucking more slowly and deeply, creating a stronger suction to draw down the milk.

This mode has a slower cycle speed and higher vacuum level.

Please adjust the cycle speed and vacuum level in expression mode to find what works best for you.

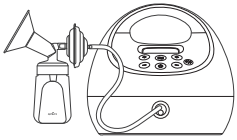
NOTE : The Spectra S1Plus/S2Plus will remember your settings automatically for your next session.

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

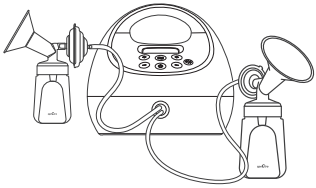
9. How To Use The Dual Pump

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<Single pumping>



<Dual pumping>





1) Remove the air cap

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

10. Cleaning And Disinfection

1) First time use

- Before using Spectra S1Plus / S2Plus breast pump for the first time, sanitize all parts (except tubing and pump unit) in boiling water for 5 minutes.

① Disassemble all parts that come into contact with the breast and breast milk.
② Select a large stock pot large enough for all of your all parts to fit without pressing against each other.
③ Fill the pot with enough water to cover all parts and boil for 5 minutes.
④ Use a pair of tongs to carefully remove each part and set on a clean paper towel.
⑤ Allow to air-dry thoroughly before storing.
⑥ Once the parts are dry, assemble the pump before you store or use it.

Source: https://www.cdc.gov/healthywater/hygiene/healthychildcare/infantfeeding/cleansanitize.html

2) After every use

① Disassemble and wash all parts of your pump kit that come into contact with the breast and breastmilk (breast shield kit, silicone valve, nipple, cover, disk And cap) in warm, soapy water. All parts in the pump kit are dishwasher safe.
② Rinse in clean water.
③ Air-dry and cover parts when not in use.

NOTE : To eliminate condensation or milk on the tubing, wash and dry it immediately.
To clean main body, wipe main body with a clean damp cloth.

Inspect the tubing for condensation or milk.
If any condensation or milk is noted in the tubing, wash and dry it immediately or replace the tubing.

11. How Long Can I Store Breast Milk?

At room temperature:

Temperature	Storage time
15°C (60°F)	24 hours
26°C (79°F)	4 to 6 hours
30°C (86°F)	4 hours

In the refrigerator:

Temperature	Storage time
0°C ~ 4°C (32°F ~ 39°F)	Up to 8 days

In the refrigerator:

Type	Storage time
Compartment contained within a refrigerator	Up to 2 weeks
Self-contained bottom, top mount, side-by-side, or stand alone freezer	3 to 4 months
Deep freezer with a constant-17°C(0°F) temperature	6 to 12 months

Source : Breastfeeding made easier at home and work, womenshealth.gov

12. How Do I Thaw And Use Stored Breast Milk?

- 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 frozen milk in the refrigerator or under cool, running water.
- Heat the milk under warm, running water and gently swirl the container to mix the milk.
- 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. Never warm the milk container directly on the stove.
- Never microwave breast milk because microwaves can cause dangerous hot spots that could burn you or a baby.
- Always test the temperature of the milk on the inside of your wrist before feeding it to a baby. The milk should feel warm, not hot.
- 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.

13. Battery Information (Only For Spectra S1plus)

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.)

14. 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.

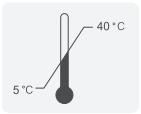
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15. Trouble Shooting

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 Power	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 berast 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.

16. Use And Storage Environment

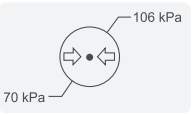
Environment to use



Temperature

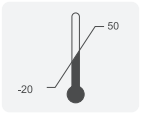


Humidity



Pressure

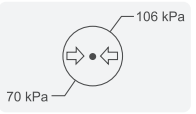
Environment to storage



Temperature



Humidity



Pressure

17. Specifications

Protection Type : Class II
Weight : 1.33kg(S1Plus), 1.18kg(S2Plus)
Power consumption : 61VA(S1Plus), 66VA(S2Plus)
Model : UES 24 LCP -120200SPA
Adapter Input : 100-240V~50/60Hz, 500mA
Output : 12V ⎓ 2A
Battery : Li-Polymer 11.1V 2,000mAh

18. EMC

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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.

19. Limited Warranty

This product is warranted by Uzinmedicare Co., Ltd. to the original retail purchaser to be free from defects in material and workmanship for a period of 2 years from the date of purchase. This warranty does not cover damage caused by accident, misuse, abuse, improper maintenance, unauthorized modification, or connection to an improper power supply. A charge will be made for repair of such damages.

WARRANTY CARD

Spectra S1Plus / S2Plus
Origin : Republic of Korea
Address : 54, 56, Dongtansandan 5-gil, Hwaseong-si, Gyeonggi-do,18487, Republic of Korea
Telephone : +82-70-5228-0983

Spectra S1Plus / S2Plus Electric Breast pump	
Name	
Telephone	
Mobile Phone	
Address	

20. European Authorized Representative And Manufacturer

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