momcozy

User Manual



V3

Double Electric Breast Pump

Scan for more information

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1. Product Introduction

The Momcozy **V3 Double Electric Breast Pump** (Model: BP431) is designed for lactating users to safely express and collect breast milk. It creates targeted vacuum around the nipple to express milk, which is collected in two milk collectors connected to the main pump unit via tubing. The V3 features two independent motors that allow separate suction level control for left and right sides.

Two pumping modes and two specialized programs support all breastfeeding stages:

- **Stimulation Mode:** Fast, short suction pulses to trigger milk letdown
- **Expression Mode:** Slow, deep continuous suction for efficient milk expression
- **Milk Boost Program:** A specialized rhythm designed to increase milk supply through alternating suction patterns.
- **Power Pumping Program:** A structured pumping routine that mimics cluster feeding to stimulate milk production.

SoftStart™ Technology: When pumping begins, the V3 starts at a low, gentle suction level and gradually increases to the target suction over 3 cycles, ensuring a comfortable start.

The built-in ambient light sensor automatically adjusts display brightness for comfortable use day and night.

This pump is a single-user personal hygiene device only; it shall not be shared between multiple users.

2. Symbol Description

	Keep Dry		Pile Limit 5 layers
	Applied part of type BF		Refer to instruction manual.
	Recycling		Manufacture date
	Manufacturer information: The manufacturer name and address		Serial Number

EN

	Distribution packages shall not be exposed to sunlight		For food contact
IP22	The first number 2: Protected against solid foreign objects of 12.5mm diameter and greater. The second number 2: Protected against vertically falling water drops when enclosure titled up to 15°.		
	Disposal in accordance with Directive 2012/19/EU (WEEE)		
	This device has not been tested for use in an MR environment and should not be used exposed to MR environments while patients are wearing the device. Keep it outside the MRI scanner room.		
	FCC		
	CLASS II equipment		

3. Important Safety Information

This section organizes all hazard alerts per global standards:

WARNING: Severe hazards that may cause permanent injury, illness, or death if ignored

CAUTION: Minor/moderate injury risk or permanent equipment damage

NOTE: Supplementary operational reminders to avoid misuse

3.1 WARNING (Severe Hazards)

1. Do not operate this pump if you wear a cardiac pacemaker, implantable defibrillator, or any internal metallic/electronic medical implant. Radio frequency interference may cause life-threatening device malfunction.
2. This pump is not intended for unsupervised use by individuals with limited physical, sensory, or cognitive function, including young children. Users with impaired capacity may only operate the pump with full adult supervision and formal safety instruction. Children may not clean, maintain, or play with the pump or accessories.
3. Electric Shock Risk Reduction Rules

• Always unplug the power adapter from the wall outlet before cleaning the pump motor unit.
• Never pump while bathing, showering, swimming, or driving.
• Do not retrieve the pump if it falls into water — disconnect the power adapter from the wall outlet instantly.
• Use only the Momcozy 30W power adapter (DC 15V⎓2A) supplied with this pump. Do not use third-party adapters.

4. This is a single-user hygiene product. Sharing or reselling the pump between different mothers voids all warranty coverage and creates a risk of disease transmission through cross-contamination.
5. If you carry Hepatitis B, Hepatitis C, or HIV, pumping breast milk cannot eliminate viral transmission risk to your infant. Consult your healthcare professional for feeding guidance.
6. Keep the pump, power adapter, tubing, and all small accessories out of reach of children and pets to prevent choking and swallowing hazards. Close adult supervision is required when this product is used near children or persons with limited mobility. Do not let children or pets play with the pump motor, packaging materials or accessories, as this may lead to equipment damage, malfunctions or personal injury. Store the product away from pests to prevent component damage and potential safety risks.
7. Only use the pump for its stated purpose: expressing breast milk from lactating users. Do not repurpose the device.
8. Install only official Momcozy original replacement components; unapproved third-party parts cause a loss of suction and create safety risks. Do not connect this unit to any other devices not specified in this user manual.
9. Check the power adapter for cracks, frayed cords or exposed wiring before each use. Stop using it right away if any damage is spotted. Discontinue use of the adapter if its plastic housing is loose or cracked, or if its wiring is frayed. Unplug the device and cease all operation if smoke or burning smells come from the pump or power adapter.
10. Never leave the pump unattended while connected to power.
11. Keep the entire breast pump away from stoves, radiators and all hot surfaces. Avoid lint, dust and direct light (including sunlight) during use and storage to prevent performance loss or device damage.
12. Do not pump while sleeping or excessively drowsy to avoid skin injury caused by prolonged suction.
13. Forbidden operating environments: Aerosol spray rooms, oxygen therapy spaces, explosive/flammable chemical zones, MRI suites, and hyperbaric chambers.
14. Route power adapter cables away from infant cribs and children to prevent strangulation hazards.
15. Unauthorized disassembly, modification, or self-repair of the motor unit voids the warranty. All service must be completed by Momcozy authorized service providers.
16. Always power off the pump and release the vacuum before removing the flange from your breast to avoid painful injury caused by pulling on the nipple.
17. Do not rent or share this single-user breast pump with other individuals.
18. Pregnant users must not use this pump — suction stimulation may trigger premature labor.
19. Inspect your breast skin for cuts, lesions, or irritation before pumping. If the unit feels excessively warm during operation, power off immediately. To prevent low-temperature thermal burns: limit single continuous pumping sessions to 30 minutes maximum.
20. Avoid extended pumping at maximum suction intensity, which may damage nipple and breast tissue. Start at medium suction and adjust upward gradually based on your personal comfort threshold.
21. Users with chronic breast disorders or systemic medical conditions must consult a physician before using this pump.
22. This appliance shall only be powered by the certified power adapter providing SELV output.
23. Reach out to your healthcare professional or lactation consultant for assistance. (This is particularly important if your infant is receiving care in the NICU.) During use, if excessive suction, abnormal pumping frequency, or excessive temperature of the main pump motor unit is observed, stop using the device immediately and contact the manufacturer or qualified service personnel.

3.2 ⚠ CAUTION (Minor Risks & Equipment Damage)

1. Do not place or store the pump near bathtubs, sinks, or pools where it may fall into liquid. Keep the main pump motor unit on a stable, flat surface during use; do not place it on the edge of a table where it could be pulled off by the tubing.
2. If no milk is expressed after 5 minutes of continuous pumping, power off and attempt pumping again later the same day. Do not over-pump empty breasts. Contact your healthcare professional or breastfeeding specialist for help.

EN

3. To relieve uncomfortable suction mid-session, slide a clean finger between the flange edge and your breast to break the vacuum seal safely.
4. Discontinue pumping immediately and consult a lactation specialist or doctor if nipple irritation, pain, or skin damage develops.
5. If you notice a decrease in suction, check the parts for deformation or breakage and contact the manufacturer for a replacement.

Supplementary Safety Statement

If you feel abnormal overheating on the pump motor unit during use, power off immediately, remove the milk collector from your breast, then unplug the power adapter.

NOTE

Store the main motor unit away from direct sunlight to prevent plastic discoloration and silicone degradation.

4. Indications for Use / Intended Use

[Indications for Use / Intended Use]

The Momcozy V3 Double Electric Breast Pump (model: BP431) extracts and collects breast milk from lactating women for infant feeding. Single-user use only.

[Intended Users]

Users who can fully read, understand, and follow all instructions in this user manual. The PATIENT is an intended OPERATOR.

[Patient Population]

Lactating women

[Intended Use Environment]

Home healthcare environment

5. Contraindications

No known contraindications.

6. Product Components & Control Panel

Full Included Kit Parts

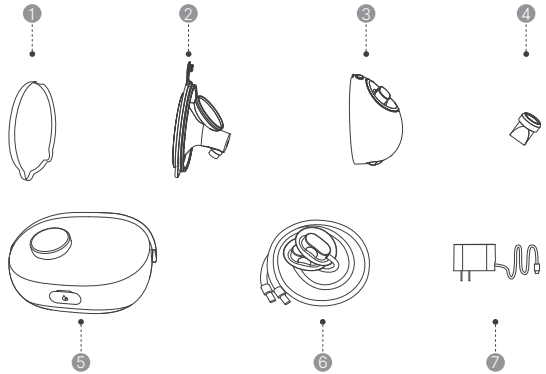

Fig. 1

NO.	Item	Function Description
1	Flange Cover	Dust protection for unused flange
2	24mm DoubleFit™ Flange	Creates an airtight seal against breast skin; can be fitted with smaller flange inserts.
3	Milk Collector (230ml)	Holds expressed breast milk.
4	Duckbill Valve	Maintains stable vacuum and prevents backflow.
5	Main Pump Motor Unit	Houses two independent motors generating adjustable vacuum; features color display and knob control.
6	Tubing	Connects the main pump motor unit to each milk collector to transmit vacuum.
7	30W Power Adapter	Supplies power to the main pump unit. Input: 100–240Vac 50/60Hz; Output: DC 15V⎓2A.

Additional Included Accessories

17mm, 19mm, 21mm flange inserts
Nipple Size Ruler
Quick Start Guide
User Manual / Safety and Warranty Guide

Control Panel Button & Display Functions

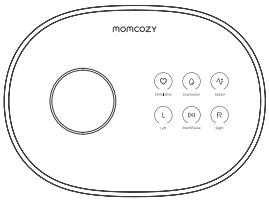

Fig. 2

NO.	Control Element	Core Function
❶	Color Display Screen	Shows current pumping mode, suction level (left/right), suction curve, session duration, speed level, and Bluetooth connection status. Auto-adjusts brightness via ambient light sensor.
❷	Knob	Press and hold to power on/off; Short press to confirm/start/pause; Rotate to adjust suction level/switch modes or programs.
❸	Stimulation Button	Short press to switch to Stimulation Mode. Fast, gentle suction to trigger let-down.
❹	Expression Button	Short press to switch to Expression Mode. Slow, deep suction for efficient milk expression.
❺	Speed Button	Short press to enter speed adjustment. There are 5 speed levels, and both sides are adjusted simultaneously.
❻	Start / Pause Button	Press to start or pause the pumping session.
❼	Left (L) Button	Adjusts left-side suction level (Stimulation: 5 levels; Expression: 15 levels).
❽	Right (R) Button	Adjusts right-side suction level (Stimulation: 5 levels; Expression: 15 levels).

Note: The pump automatically pauses after 30 minutes of operation. To perform a factory reset, press and hold the **Start/Pause + Speed** buttons simultaneously for 5 seconds.

7. Cleaning and Disinfection

7.1 General Rules & Requirements

Cleanliness of pump components directly prevents bacterial contamination of breast milk and protects infant health. Follow these rules before first use and after every pumping session:

- Wash all milk-contact parts thoroughly before first use and after each pumping session.
- The main pump motor unit contains electrical components. Never immerse it in water or any liquid. Wipe the exterior only with a soft, slightly damp cloth, then dry immediately.
- Tubing does not come into contact with breast milk under normal operation. If milk enters the tubing, disconnect and replace it. Do not wash or reuse a tube that has milk.
- Do not use abrasive cleaners, bleach, or antibacterial chemicals on any parts.
- Inspect all silicone and plastic parts before each use for cracks, tears, discoloration, or aging. Replace damaged parts immediately.
- Pre-clean preparation step: Scrub hands thoroughly with soap and running water for a full 20 seconds before disassembling or handling pump components.

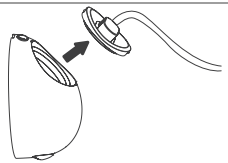

Fig. 3

1). Separate the tubing from the milk collector.

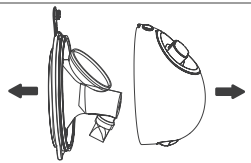

Fig. 4

2). Detach the flange from the milk collector.



Fig. 5

3). Separate the duckbill valve from the flange.

⚠ CAUTION

Never submerge the main motor unit or power adapter in water or dishwashers — permanent electrical damage will occur.

7.2 Disinfect Milk-Contact Parts

All milk-contact silicone/ plastic pieces require hand washing only; dishwasher safety has not been verified for this device.

Non-washable parts

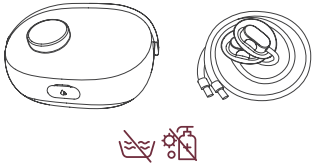

Fig. 6

Washable parts



Fig. 7

Step 1: Hand Washing

Required supplies: Baby-safe dish soap, drinking-quality warm water, dedicated infant cleaning basin, soft bottle brush, lint-free paper towels.

1. Rinse disassembled parts under running warm/cold water immediately after pumping to dissolve residual milk (do not let milk dry onto surfaces).

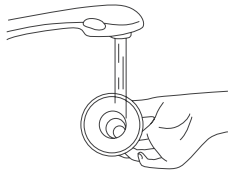

Fig. 8

2. Place all pieces into a dedicated baby cleaning basin (do not wash directly in kitchen sink drains, which harbor bacteria).

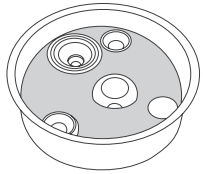

Fig. 9

3. Soak components in 40–60°C (104–140°F) soapy water for 3–5 minutes.
4. Scrub all inner and outer surfaces completely with a soft baby bottle brush.
5. Rinse thoroughly under clean running drinking water until no soap residue remains.
6. Lay all parts flat on unused paper towels in a dust-free, dry area to air-dry fully. Do not rub dry with cloth towels (fabric transfers bacteria).

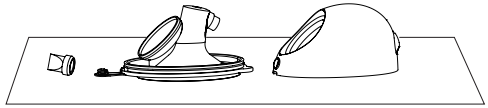

Fig. 10

7. Clean the wash basin and brush after every use. For infants under 3 months, premature babies, or immunocompromised infants, sanitize the basin / brush after each wash cycle.

WARNING

Do not use abrasive scrubbers or antibacterial cleaners — these damage silicone and leave toxic residue in contact with breast milk.

Step 2: Disinfection (Required minimum once daily)

CAUTION



Boiling water disinfection is the only approved method for this pump's milk-contact components. Microwave and UV sterilizers will deform silicone parts and shorten service life.

1. Fill a clean household pot with enough drinking water to fully submerge all disassembled parts.
2. Place components in the pot, ensuring no silicone/plastic pieces touch the hot metal pot walls.
3. Bring water to a rolling boil and maintain boiling for 5–10 minutes.

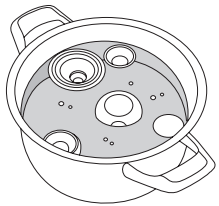

Fig. 11

4. Remove sanitized parts using clean tongs only.



Fig. 12

5. Lay flat on paper towels to air-dry completely before storage.

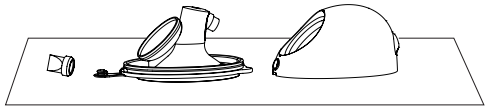

Fig. 13

Step 3: Dry Storage

1. Confirm all components are 100% air-dried (moisture causes mold and bacterial growth).
2. Wash hands with soap before reassembling dry parts.
3. Store fully assembled clean pump sets inside a closed, dust-free kitchen cabinet reserved exclusively for infant feeding supplies.

7.3 Wipe Down Non-Milk Components

- Main pump motor unit: Wipe with a soft, dry or slightly damp cloth. Do not allow liquid to enter the tubing ports.
- Power adapter: Wipe with a dry cloth only. Ensure the adapter is unplugged and fully dry before use.
- Tubing: Wipe exterior with a dry cloth. Do not wash the interior. Replace if milk enters or if the tubing becomes cracked, deformed, or discolored.

Supplies Needed

70% isopropyl alcohol wipes, soft lint-free cloth

Surface Cleaning Process

1. Wash and sanitize your hands first.
2. Wipe away all visible milk residue or dirt on the motor housing with a dry soft cloth.
3. Swab all exterior surfaces with 70% alcohol wipes until no stains remain.
4. Leave the unit at room temperature for 10 minutes to fully evaporate alcohol residue before use.

Disinfection Deep Wipe

1. Complete the surface cleaning steps above.
2. Dampen a soft cloth with 70% isopropanol and gently wipe the motor shell for 3 full minutes.
3. Air-dry at room temperature for 10 minutes to eliminate all alcohol residue.

8. App Quick Operation Guide

8.1 App Setup and Pairing

Please follow the steps below to download the app and complete the pairing process, empowering your device with smart features and deeper insights.

Step 1: Download the Momcozy App

Search for "Momcozy" in your app store (Google Play Store or Apple App Store), then download and install the Momcozy App on your mobile phone.
You can also download the app by scanning the QR code.

Step 2: Register and log in

Open the Momcozy App and create a new account to get started (you can also register via a third-party account).

If you already have an account, log in with that account.

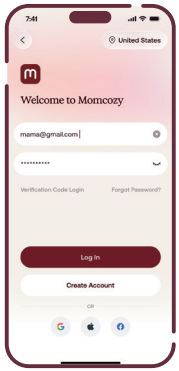

Fig. 14

Step 3: Connect your device to Momcozy

1. Please power on your device according to the instructions and keep it near your phone.
2. Open the Momcozy App on your phone. If the message "New Device Available" appears, tap "Connect".

3. If no message appears, go to the Devices page, tap "Add Device" and select your device from the list of nearby devices. If your device does not appear in the list, you can add it manually by selecting its category and model.

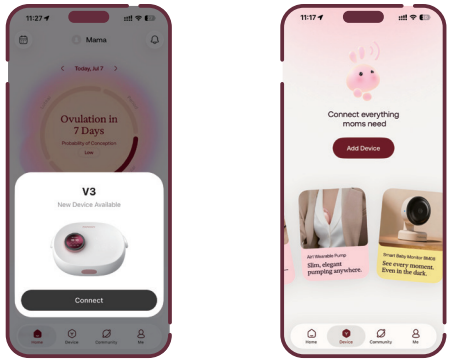

Fig. 15

8.2 App Control Functions

After successful pairing, you can control your connected pump through the Momcozy App and access smart pumping features.

1. Remote Control Dashboard

Select your connected pump device in the Momcozy App to open the remote control dashboard.

2. Pumping Mode Selection

- **Standard Mode**
  Choose from two manual pumping modes: Stimulation and Expression. Switch between these modes through the app during your pumping session.
- **Programs**
  Choose from provided pumping programs designed for different pumping needs, including Cozy Flow, Milk Boost, and Power Pumping. Pumping Modes switch automatically during your pumping session.
- **Personalized**
  Create a personalized pumping setting with up to six stages. For each stage, you can set the pumping mode, suction level, and duration.

3. Dual Pump Control

- Adjust the suction level of the left and right pumps independently.
- Use the “Both” control to adjust the suction level of both pumps together.

4. Suction Level Adjustment

Adjust the suction level up or down during pumping.



Fig. 16

8.3. Bluetooth Connection Tips

Keep your phone and pump within Bluetooth range to maintain a stable connection for app control.

8.4. Smart Features

After connecting your pump to the Momcozy App, you can access smart features to support your pumping journey.

Pumping Records & Care Schedule

Track pumping sessions and manually log pumping output, manage daily routines, and keep your pumping and care records organized in the All-Day view.

9. Operating Instructions

9.1 Power Connection

WARNING: Use only the Momcozy 30W power adapter supplied with this pump. Using incompatible adapters may cause equipment damage or safety hazards.

1. Insert the DC connector of the 30W power adapter firmly into the power adapter port on the back of the main pump motor unit.
2. Plug the other end of the adapter into a grounded wall electrical outlet.

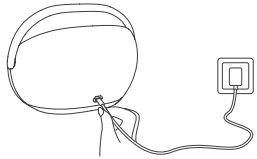

Fig. 17

Note: The V3 breast pump is an AC-powered pump and must remain connected to the power adapter during use. It does not contain a rechargeable battery.

9.2 Pre-Pump Preparation

CAUTION:

1. Complete full cleaning and disinfection of all milk-contact components.
2. Complete all preparation steps below before assembling and using the pump to avoid discomfort, leakage, weak suction or equipment damage.

9.2.1 Select the Correct Flange Size

Use the included Nipple Size Ruler to measure your nipple, then select the proper flange and insert size. For detailed measurement steps, please refer to the instructions printed on the Nipple Size Ruler and Quick Start Guide.

9.2.2 Choose a Suitable Pumping Bra

Select a dedicated pumping bra with these required features:

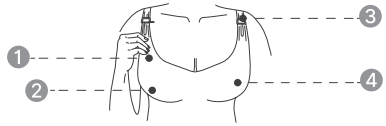

Fig. 18

1. Made of stretchy fabric
2. No underwire or padding
3. Has a flap
4. Full coverage

Bra Fitting Requirements

- No gap: When placing the milk collector inside the bra cup, the silicone flange must cling tightly to your skin with zero gaps (air gaps

will reduce vacuum suction).
- Anti-shift adjustment: If the milk collector slides or moves during pumping, tighten your bra straps or replace with a more supportive pumping bra.
- Ensure the tubing is not pinched, kinked, or pulled taut between the milk collectors and the main pump unit. Route the tubes comfortably over or around your body.



Fig. 19

9.2.3 Recommended Pumping Posture

⚠ CAUTION

Only pump while sitting or standing upright. Keep the main pump unit on a stable, flat surface at or below chest level. Do not place the pump on the floor where it could be stepped on or pulled over. Do not use the pump while lying down or asleep — tilting the milk collectors will cause milk leakage and backflow.

Correct Posture Guide



Fig. 20

9.3 Assembly Steps

⚠ CAUTION:

All milk-contact and breast-contact pump components must be fully cleaned and disinfected before assembly and every use.

⚠ WARNING:

1. Components boiled for disinfection will remain extremely hot. Wait until all sanitized parts cool completely before assembly to avoid skin burns.
2. Wash your hands thoroughly with soap and clean running water for 20 seconds before handling pump parts or touching your breast to avoid bacterial contamination. Do not touch the inner surfaces of the milk collection set at any time.



Fig. 21

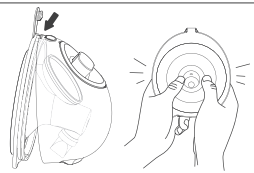

Fig. 22

1. Attach the valve to the flange.

2. Assemble the flange with the milk collector, ensuring they are securely snapped together around the edges.

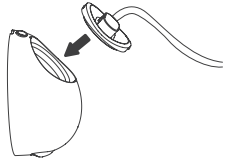

Fig. 23

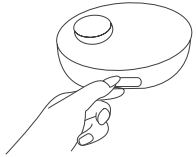

Fig. 24

3. Connect the tubing to the milk collector.

4. Open the tubing port cover on the front bottom of the pump motor.

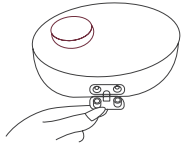

Fig. 25

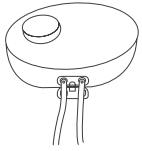

Fig. 26

5. Insert the tubing connector into the pump motor port, ensuring it is properly installed.	6. Assembly is complete.

Your pump is now fully assembled and ready for use.

9.4 Pumping Operation

WARNING:

1. Always power off the pump fully to release the vacuum before removing the milk collectors from your breast.
2. If no milk flows after continuous pumping for 5 minutes, stop and try pumping again later the same day. Do not overpump empty breasts.
3. Stop pumping right away if you experience persistent pain, severe discomfort, skin redness, itching or allergic reactions. Consult a lactation specialist or healthcare professional promptly.
4. The included milk collector is for on-body milk collection during pumping. Transfer milk to a separate lidded storage container or milk storage bag for feeding or long-term preservation.
5. Freshly expressed breast milk must be refrigerated or frozen right away. At room temperature (16°C–25°C), breast milk may only be safely stored for 2–4 hours before feeding.

CAUTION

1. Keep an eye on milk volume during pumping to avoid overflow leakage.
2. Do not pump while lying flat, doing strenuous exercise, or performing high-risk activities that may cause injury or milk spillage.

9.4.1. Correct Nipple Alignment

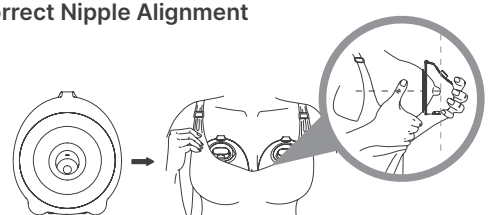

Fig. 27

a. Press the milk collectors tightly against your breast with zero air gaps before pumping.
b. Hold the flange to your breast and lean forward slightly to check alignment; ensure your nipple sits centered inside the flange tunnel.
c. Double-check through the flange opening: the nipple tip must not touch any inner wall of the flange tunnel. Readjust if contact occurs.

First Perspective

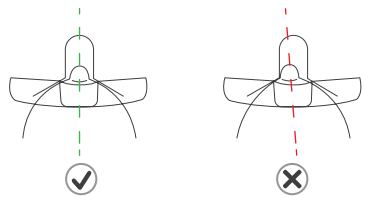

Fig. 28

Correct Alignment
Milk expression

Incorrect Alignment
Try again

Note:
Proper nipple alignment is critical for comfortable pumping and optimal milk output. Improper positioning will lead to soreness and low suction efficiency. Refer to the Nipple Size Ruler for sizing guidance.

9.4.2. Secure the Milk Collectors Inside Your Pumping Bra

Place the milk collectors inside your dedicated pumping bra and adjust the straps to hold the unit firmly against your breast without gaps. Tighten bra straps as needed to prevent sliding during pumping.

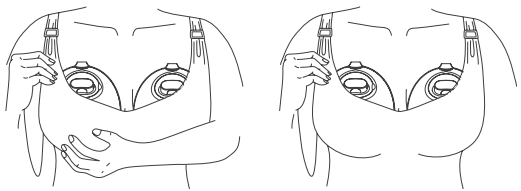

Fig. 29

9.4.3. Operating Steps

1. Confirm the power adapter is connected, tubing is securely attached, and milk collectors are properly assembled.
2. Press the knob to power on the pump. The display will illuminate.
3. The pump defaults to Stimulation Mode to encourage milk letdown.
4. Use the Left (L) and Right (R) buttons to adjust suction levels independently for each side. Stimulation Mode: 5 levels; Expression Mode: 15 levels.
5. Press the Speed button to adjust the speed levels. There are 5 speed levels, and both sides are adjusted simultaneously.
6. To use a program, rotate the knob to select the desired program, then press to confirm.
7. Press the Start/Pause button to begin pumping. The SoftStart™ feature will gradually increase suction over the first three cycles for a gentle start.
8. During pumping, the display shows real-time suction levels, mode, session duration, and a suction curve graph.
9. When finished, press Start/Pause to pause, then power off by pressing the knob. Wait for vacuum to release before removing the milk collectors.
10. Transfer expressed milk to a storage container. Disassemble, clean, and disinfect all milk-contact parts.

10. Breast Milk Storage & Thawing

10.1. Safe Breast Milk Storage

Following proper storage and handling practices preserves the safety, nutrition and quality of expressed breast milk for your infant.
The storage durations below serve as general guidance. Multiple factors affect how long breast milk remains safe, including milk volume, ambient temperature at pumping time, frequent temperature swings inside fridges/freezers, and overall storage hygiene.

Storage Rules Right After Pumping

1. Cool or refrigerate breast milk immediately after expression whenever possible. You may store milk in a refrigerator, insulated cooler with ice packs, or portion it into small 2–4 oz batches for long-term freezing.
2. Only use food-grade glass or hard plastic containers with airtight lids, or dedicated breast milk storage bags.
3. Avoid plastic containers marked with recycling code #7, as they may contain BPA.

4. Squeeze out excess air before sealing bags or lids. Lay storage bags flat during freezing; place paper towels between stacked bags to prevent them from sticking together.
5. Do not store breast milk in disposable bottle liners or regular plastic bags not designed for breast milk preservation.
6. Gently swirl the container to blend separated cream back into milk. Do NOT shake vigorously — harsh agitation destroys valuable nutritional components.

Breast Milk Storage Duration Chart

Milk Type	Room Temperature≤77°F (25°C)	Refrigerator40°F (4°C)	Freezer≤0°F (-18°C)
Freshly pumped breast milk	Up to 4 Hours	Up to 4 Days	Best within 6 months; Up to 12 months is acceptable
Previously frozen & thawed milk	1-2 Hours	Up to 1 Day (24 hours)	Do NOT refreeze
Leftover milk after feeding	Use within 2 hours after the baby is finished feeding		

Note: These standards apply only to healthy full-term infants. Premature or medically fragile babies require stricter storage rules; consult your pediatrician or lactation consultant for personalized advice.

Practical Storage Tips

1. Mark every storage container with the exact pumping date. If sending milk to childcare, also write your baby's name on the label. Discuss labeling and breast milk storage requirements with your childcare provider. Label all expressed breast milk with a date, and use the oldest milk first.
2. Never place milk containers on fridge or freezer door shelves. Frequent door opening causes temperature fluctuations that degrade breast milk quality.
3. Freeze fresh milk promptly if you will not consume it within 4 days to retain maximum nutrients.
4. Freeze milk in small 2–4 oz portions matching your baby's single feeding volume to avoid waste.
5. Leave approximately 1 inch of empty space at the top of each

container; breast milk expands when frozen and may crack sealed vessels.
6. For travel: Expressed milk stays safe for up to 24 hours inside an insulated cooler with frozen ice packs. Upon arrival, consume right away, refrigerate, or freeze immediately.

10.2. Proper Thawing Guidelines

1. Follow FIFO (first-in, first-out): Use the oldest stored breast milk first.
2. Approved thaw methods: Refrigerate overnight, soak in lukewarm running water, or place in a bowl of warm tap water.
3. Strict Prohibition: Never microwave breast milk — microwaves destroy nutritional antibodies and create scalding hot spots.
4. Thawed refrigerated milk must be fully consumed within 24 hours; warmed milk must be consumed within 2 hours.
5. Do not refreeze fully thawed breast milk.

11. Storage Conditions

Short-Term Daily Storage

Store the fully cleaned, dry pump kit in a cool, shaded, dust-free cabinet away from direct sunlight and children's reach.

Long-Term Extended Storage

1. Store the power adapter separately in a dry location. Ensure all tubing is clean and dry before storage.
2. Disassemble, clean, and air-dry all silicone consumables completely.
3. Avoid constant sunlight exposure to prevent plastic yellowing and silicone brittleness.

Environmental Storage Parameters

Temperature range: -20°C - 60°C
Humidity: 15% – 90% (non-condensing)
Atmospheric Pressure: 70 kPa – 106 kPa

Note:

Generally, allow 30 minutes for the unit to warm up from its minimum storage temperature or cool down from its maximum storage temperature before operation.

12. Troubleshooting

Problems	Solutions
Pump does not power on / no display	1. Use only the original 30W adapter (DC 15V⎓2A); unplug and re-plug the USB-C connector firmly. 2. Try a different outlet; inspect the adapter and cord for cracks or fraying. 3. If there is still no power after the above, contact customer support.
No suction / weak suction	1. Test the main unit: Expression Mode level 15, cover the outlet port with your finger — no suction means the unit is defective. 2. Check assembly: tubing firmly connected, suction diaphragm seated in the groove, duckbill valve tight, flange fully snapped onto the milk collector. 3. Verify flange size with the nipple ruler; an improper fit causes air leaks. 4. Replace worn accessories (flange, valve) every 3 months.
Milk leakage	1. Keep the milk collector pour spout facing upward; avoid leaning forward or lying back. 2. Empty the collector at ~210 ml (maximum capacity 230 ml). 3. Ensure the flange is tightly snapped onto the collector rim with no lifted edges; check the silicone insert fits your nipple.
Discomfort or pain during pumping	1. Lower the suction level; use Stimulation Mode for ~2 minutes before switching to Expression. 2. Re-center the nipple in the flange tunnel to avoid friction; verify flange size with the nipple ruler. 3. Keep each session under 30 minutes. 4. If pain persists, consult a lactation consultant.

Low milk output / incomplete emptying	1. Start with Stimulation Mode to trigger letdown, then switch to Expression Mode when letdown occurs. 2. Alternate between Stimulation and Expression to trigger 2–3 letdowns per session. 3. Add hand massage: pause, lean forward, massage from breast base toward nipple, then resume. 4. Check flange fit — an improper size reduces efficiency.
Screen frozen / unresponsive / locked	1. Unplug the adapter, wait 10 seconds, then reconnect. 2. Factory reset: press and hold Start/Pause + Speed simultaneously for 5 seconds. 3. If the issue persists, contact customer support.
Overheating / melting / smoke	1. Stop immediately, unplug the adapter, and remove the milk collectors. 2. Check if a non-certified or high-power adapter was used, or if water/milk entered the tubing and reached the motor. 3. Do not continue using the pump. Contact customer support immediately for inspection and replacement.
Accessory deformation or discoloration	1. Avoid chlorine-based cleaners (wipes, disinfectants), especially combined with boiling — chemical reactions cause blue discoloration. 2. Avoid fading or colored cleaning solutions; silicone adsorbs colors easily. 3. Avoid prolonged direct sunlight (causes yellowing) and high-temperature/humid storage. 4. Replace silicone consumables every 3 months under regular use.

Note: If none of the above solutions resolve your issue, stop using the device and contact Momcozy customer support for professional service. Unauthorized disassembly will void your warranty.

13. Maintenance & Replaceable Consumables

Service Life Specifications

This device has no fixed shelf life. The rated total service life of the main pump unit is 1500 operating hours. Silicone washable consumables (flange, valve, and silicone inserts) are expected to be replaced every 1 to 3 months under regular use. Tubing should be replaced if milk enters them, or if they become cracked, deformed, or discolored. Inspect all components and test normal operation before each use. Operating the pump beyond its rated service life will cause performance deterioration. For example, the vacuum control system may malfunction, producing overly strong suction that leads to breast or nipple injury.

Internal Repair Restrictions

No user-serviceable parts are housed inside the main unit. Any disassembly, tampering or unauthorized modification of the device will invalidate your warranty. If repair is required, return the complete unit directly to the authorized retailer or medical equipment supplier. Upon formal request, the manufacturer will provide circuit diagrams, component lists, calibration guides and other technical documents to qualified professional service technicians for designated repairable sections of the pump.

14. Technical Specifications

Model No.	BP431
Name	Double Electric Breast Pump
Power requirements	Input: 100–240Vac, 50/60Hz; Output: DC 15V⎓2A; Power: 30W
Power supply	AC-powered via 30W power adapter. No built-in battery.
Suction modes	Stimulation mode, Expression mode
Vacuum range	Stimulation mode: -45 to -195 (±20) mmHg; Expression mode: -38 to -300 (±20) mmHg

Cycle speed	Stimulation mode: 70 to 105 (±3) cycles/min; Expression mode: 38 to 54 (±3) cycles/min
Maximum vacuum	≤ -320 mmHg
Software for suction pressure regulation	-320 mmHg
Suction levels	Stimulation mode: 5 levels; Expression mode: 15 levels
Speed levels	5 levels
Backflow prevention mechanism	Yes
Pump dimensions (main unit)	233 × 123 × 163 mm
Milk collector dimensions	123 × 111 × 72 mm
Weight (main unit)	Approx. 1500 g
Milk collector capacity	230 ml
Product service life	1500 hours / 2 years
Noise level	≤ 46 dB
Type of protection against electric shock	CLASS II equipment
Degree of protection against electric shock	Type BF applied part (milk collection set)
Operating conditions	Temperature: 0°C to 40°C; Humidity: 15% to 90%; Atmospheric Pressure: 70 kPa to 106 kPa
Transportation & storage environment	Temperature: -20°C to 60°C; Humidity: 15% to 90%; Atmospheric Pressure: 70 kPa to 106 kPa

Operation frequency range	2402 MHz to 2480 MHz
Valid transmission	Up to 10 meters

15. Travel and International Use Guidelines

The performance of this double electric breast pump can be impacted by external environmental conditions. As an AC-powered device, in-flight use depends on available power outlets — contact your airline in advance to confirm rules for carrying and using medical electronic devices on board.

This pump supports international use, subject to the following requirements:

1. All operation and storage must comply with the environmental parameters specified in this user manual.
2. Only use the Momcozy 30W power adapter with universal input AC 100–240V 50/60 Hz and DC 15V⎓2A output. Carry a voltage conversion plug matching the wall socket standard of your destination country. Do not use third-party adapters.

Pre-travel Inspection Checklist

Examine the entire pump set before every trip to guarantee normal function:

- Inspect the main unit, power adapter, tubing, and all accessories for cracks, tears or physical damage.
- Complete a full test run before travel to verify all modes and suction levels work properly.
- Discontinue use immediately if any malfunction or damage is found.

16. EMC Information

The equipment with the following ESSENTIAL PERFORMANCE is intended to be used in a home healthcare facility environment.

Essential Performance:

Device-Specific Function	Device-Specific Pass/Fail Criteria	Detection/ Testing Method
Vacuum strength	Stimulation mode: -45 to -195(±20)mmHg Expression mode: -38 to -300(±20)mmHg	Vacuum manometer Observation
Cycle speed	Stimulation mode: 70~105(±3) cycle/min Expression mode: 38~54(±3) cycle/min	Observation
Maximum vacuum	≤-320mmHg	Vacuum manometer Observation
Software for suction pressure regulation	-320mmHg	Vacuum manometer Observation
Back flow prevention mechanism	No leakage at maximum vacuum	Observation

If Essential Performance is lost or degraded due to electromagnetic disturbances, this may result in loss of product function or injury to patients. Please read important information below to avoid possible electromagnetic disturbances.

⚠ Warning

Using cell phone or microwave oven, HF surgical equipment, magnetic resonance imaging or other radio radiant equipment near this product may cause malfunction.
Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.
Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the Momcozy Wearable Breast Pump, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.
Use of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.

⚠ Caution

1) Security, anti-theft, and radio frequency identification (RFID) devices. Some electromagnetic anti-theft systems and metal detectors such as those used at entrances or exits of department stores, libraries, and other public places, and airport security screening devices may affect the Momcozy Wearable Breast Pump. Please do not use Momcozy Wearable Breast Pump near these places. Additionally, RFID devices, which are often used to read identification badges, as well as some tag deactivation devices, such as those used at payment counters at stores and loan desks at libraries, may also affect the Momcozy Wearable Breast Pump. Please do not use Momcozy Wearable Breast Pump near these places. If you have to go through one of these devices, turn off your Momcozy Wearable Breast Pump. Before each use, check the status of your Momcozy Wearable Breast Pump to ensure that it operates normally.

2) Using short-wave diathermy, microwave diathermy, or therapeutic ultrasound diathermy (all now referred to as diathermy) and electrocautery devices near this product may cause malfunction or lead to loss of performance, please do not use Momcozy Wearable Breast Pump near this equipment.

A list of cables and maximum length of cables is as follows:

Cables name	Cable length	Whether shielding
Power adapter	1000±10mm	No

Guidance and manufacturer's declaration - electromagnetic emissions		
The Wearable Breast Pump is intended for use in the electromagnetic environment specified below. The customer or the user of the Wearable Breast Pump should assure that they are used in such an environment.		
Emission test	**Compliance**	**Electromagnetic environment-guidance**
RF emissions CISPR 11	Group 1	The Wearable Breast Pump uses RF energy only for its internal functions. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class B	The Wearable Breast Pump is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Harmonic emissions IEC61000-3-2	Not applicable	
Voltage fluctuations / flicker emissions IEC61000-3-3	Not applicable	

Guidance & Declaration - Electromagnetic Immunity			
The Wearable Breast Pump is intended for use in the electromagnetic environment specified below. The customer or the user of the Wearable Breast Pump should ensure that it is used in such an environment.			
Immunity test	**IEC 60601 test level**	**Compliance level**	**Electromagnetic environment - guidance**
Electrostatic discharge (ESD) IEC61000-4-2	±8 kV contact ±2 kV ,±4kV ±8 kV, ±15 kV air	±8 kV contact; ±2 kV, ±4 kV, ±8 kV, ±15 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transient / burst IEC61000-4-4	Not applicable	Not applicable	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC61000-4-5	Not applicable	Not applicable	
Voltage dips, short interruptions and voltage variations on power supply input lines IEC61000-4-11	Not applicable	Not applicable	Mains power quality should be that of atypical commercial or hospital environment. If the user of the Wearable Breast Pump requires continued operation during power mains interruptions, it is recommended that the Wearable Breast Pump be powered from an uninterruptible power supply or a battery.

Power frequency (50/60 Hz) magnetic field IEC61000-4-8	30A/m	30A/m	Power frequency magnetic fields Proximity magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.
Proximity magnetic fields IEC61000-4-39	CW 8A/m for 30kHz pulse modulation 2.1kHz, 65A/m for 134.2kHz pulse modulation 50kHz, 7.5A/m for 13.56MHz	CW 8A/m for 30kHz pulse modulation 2.1kHz, 65A/m for 134.2kHz pulse modulation 50kHz, 7.5A/m for 13.56MHz	
NOTE: UT is the ac.mains voltage prior to application of the test level.			

Guidance & Declaration - Electromagnetic Immunity			
The Wearable Breast Pump is intended for use in the electromagnetic environment specified below. The customer or the user of the Wearable Breast Pump should ensure that it is used in such an environment.			
Immunity Test	**IEC 60601 test level**	**Compliance level**	**Electromagnetic environment - guidance**
Conducted RF IEC 61000-4-6	Not applicable	Not applicable	Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the Wearable Breast Pump, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.
Radiated RF IEC 61000-4-3	10V/m 80 MHz to 2.7 GHz 385MHz-57 85MHz Test specifications for ENCLOSURE PORT IMMUNITY to RF wireless communication equipment (Refer to table 9 of IEC60601-1-2: 2014+A1:2020)	10V/m 80 MHz to 2.7 GHz 385MHz-57 85MHz Test specifications for ENCLOSURE PORT IMMUNITY to RF wireless communication equipment (Refer to table 9 of IEC60601-1-2: 2014+A1:2020)	

17. Disposal Instructions



Correct Disposal of This Product (Waste Electrical & Electronic Equipment)
(Applicable in countries with separate collection systems)
This marking on the product, accessories (including battery, power supply unit if provided) or literature indicates that the product and its electronic accessories should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial waste for disposal.

18. Warranty Policy

We provide a 2-year limited warranty. If local legislation mandates a longer warranty term, local regulations shall prevail. For example, Spain requires a statutory 3-year warranty, which we will fully comply with.
To file a warranty claim, please contact the manufacturer. Contact details can be found on the final page of this user manual. If you need to ship the device for service, enclose a copy of your purchase receipt with a clear written description of the fault.
The warranty terms are specified as follows:
1) All warranty claims require valid proof of purchase in the form of a sales receipt or invoice.
2) Any repairs completed within the warranty period extend the warranty coverage of the device and replacement parts by 1 additional year.
3) The following scenarios are not covered by this warranty:

- Damage resulting from improper operation or failure to follow the instructions in this manual;
- Damage caused by self-repair, disassembly or tampering performed by the user or unauthorized third-party technicians;
- Damage incurred during transit from the manufacturer to the customer, or during shipment to an authorized service centre;
- Consumable accessories damaged by regular wear and tear;
- Damage sustained from unauthorized private disassembly of the unit;
- We accept no liability for any direct or indirect consequential losses arising from use of the device, even if the unit itself qualifies for warranty service.

19. Declaration of Conformity

Shenzhen Root Innovation Technology Co., Ltd. declares that the device conforms to the following standards IEC60601-1, IEC60601-1-2, IEC60601-1-11, ISO10993-5, ISO10993-10, ISO10993-23.

20. FCC Compliance Statement

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

IMPORTANT NOTE:

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential 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 radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, 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 antenna.
— Increase the separation between the equipment and receiver.
— Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
— Consult the dealer or an experienced radio/TV technician for help.21. Manufacturer Information

21. Manufacturer Information

Manufacturer: Shenzhen Root Innovation Technology Co., Ltd.
Address: Room 3301, Aerospace Innovation Building, No. 7013 Liuxian Avenue, Yuncheng Community, Xili Subdistrict, Nanshan District, Shenzhen, Guangdong, China, 518071
E-mail: support@momcozy.com

If you need assistance in setting up, using, or maintaining the device, or if you need to report unexpected operation or events, please contact us.

MADE IN CHINA

22. Contact Information

The hotline details are as follows:

US (United States): +1 619 848 0676 (EST: 8AM-5PM)
UK (United Kingdom): +44 845 351 1671 (BST: 8AM-5PM)
DE (Germany): +49 211 860 89101 (CET: 8AM-5PM)
ES (Spain): +34 930 343 248 (CET: 8AM-5PM)
FR (France): +33 805 980 337 (CET: 8AM-5PM)
CA (Canada): +1 807 804 2505 (EST: 8AM-5PM)
CN (China): +86 400 903 8120 (CST: 9AM-12:30PM, 2PM-6:30PM)

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E-mail: support@momcozy.com
Website: www.momcozy.com

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