



Motif Aura Operational Manual

1. Introduction

Meet The Motif Aura

A wearable, wireless breast pump built for the modern Mom on-the-go. Pair it with the Motif Medical app to pump smarter by controlling your setting and logging your sessions.

All Motif Medical® products purchased from authorized retailers come with a manufacturer's warranty stating that product will be free from defects in workmanship and materials; for 2-years on double-electric breast pumps, for 1-year on internal batteries, and for 90-days on breast pump parts.

Be sure to register your breast pump upon receiving it:
motifmedical.com/warranty-registration/



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2. Highlights

Designed to fit in your bra, the Motif Aura is hands-free, powerful and discreet.

Wearable Breast Pump

No need to bother with messy cords and tubing. Simply put on the breast pump with a standard bra and pump conveniently, hands-free.

Light-up Display

Suction level, timer, and battery level can be easily viewed on the device with its integrated light-up display.

***Bluetooth®* Compatible**

Connect the pump to your mobile device and control all functions wirelessly.

Rechargeable Battery

With a battery life of 2 hours between charges, the Motif Aura is portable, allowing for ease of use while pumping on the go.

3. Intended Use (Indications of Use)

The Motif Aura Double Electric Breast Pump is intended for use by lactating women to express and collect breast milk. The Motif Aura can be used as a single or double pump and is only intended for personal use.

Please read this document completely and follow the instructions exactly. To prevent personal injury and material damage, please observe the warning and safety information provided in this document.

Warning: To avoid minor injury

- Sharing a breast pump can cause health hazards and void manufacturer's warranty.

4. Symbols



Warning: Potentially dangerous situation that could result in serious injury



Caution: A possibly dangerous situation that could result in slight bodily injury



Notice: Useful information or information you need to know when using this product



Manufacturer



Date of manufacture



Serial number



Manufacturer's catalog number



Refer to instruction manual

IP22 Ingress protection



Battery State



DC



Transport / Storage Humidity



Operation Humidity



To use Temperature



Storage Temperature



Operating Pressure



Transport / Storage Pressure

4. SYMBOLS



Fragile



Do not pile



This way up



Keep Dry



Good Manufacturing Practice Logo



Type BF applied part



This product should not be mixed with other commercial waste for disposal



Power



Increases level of suction



Decreases level of suction

5. Safety

5.1 Prohibitions, Warnings, and Cautions

Warning: To prevent voiding of warranty

- Do not modify this equipment without authorization of the manufacturer.
- Do not disassemble or modify the product. The device has no user-serviceable parts.
- Our power adapters meet certified medical standards and using other power adapters can cause internal damage to the pump or cause the pump to function improperly. Therefore, using other power adapters will void your Motif warranty.

Warning: To reduce the risk of electrocution

- Do not use while bathing.
- Do not place or store product where it can fall or be pulled into a tub or sink.
- Do not place or drop into water or other liquid.
- Do not reach for a product if it has fallen into water. Immediately unplug from electrical outlet.
- Do not sanitize the kit in microwave oven, never immerse main body in water.
- Always unplug electrical product immediately after use.

Warning: To avoid fire, electrocution, or serious burns

- Do not leave the product unattended when plugged into an electrical outlet.
- Close supervision is necessary when this product is used near children or persons with disabilities.
- Place product out of reach of children.
- Use the product only for its intended use as described in this manual. Do not use attachments not recommended by the manufacturer.
- Never operate this product if it has a damaged cord or plug, it is not working properly, or if it has been dropped or damaged, or dropped into water.

5. SAFETY

- Keep cord away from heated surface.
- Never use while sleeping or when drowsy.
- Never drop or insert any object into any opening or tubing.
- Do not use outdoors, or operate where aerosol (spray) products are being used or where oxygen is being administered.
- Do not disassemble or modify the product. When disassembled by unauthorized person, it voids warranty.
- Do not unplug power adapter/charger by pulling on the cord.
- Do not inhale or swallow small parts.
- Allergic reactions may occur.
- Lint, dust, light (including sunlight), etc can be unacceptably affect safety and essential performance.
- Avoid direct sunlight and dust, and store in a dry and cool area.
- Keep out of reach of children to prevent possible suffocation or injury from swallowing small parts.



Warning: To avoid fire, electrocution, or serious burns (cont.)

- Always inspect power adapter and battery pack wires prior to use for damage or exposed wire. If damage is found, immediately discontinue use of power adapter or battery pack and call customer service.
- The Motif Aura should not be positioned so that it is difficult to operate the power adapter.



Warning: To avoid health risk and reduce the risk of injury

- 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.
- 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.
- This product is the intended for use by a single user only and should not be shared between users.
- Do not drive while pumping.

- Never use while pregnant, as pumping can induce labor.
- Clean and sanitize all parts that come in contact with your breast and breast milk prior to first use.
- Wash all parts that come in contact with your breast and breast milk after every use.
- Do not continue pumping for more than 2 consecutive pumping session if no results are achieved.
- Do not thaw frozen breast milk in a microwave or in a pan of boiling water.
- If tubing becomes moldy, discontinue use and replace with new tubing.
- If breast milk backup occurs, you must clean tubing before your next pumping session.



Caution: To avoid minor injury

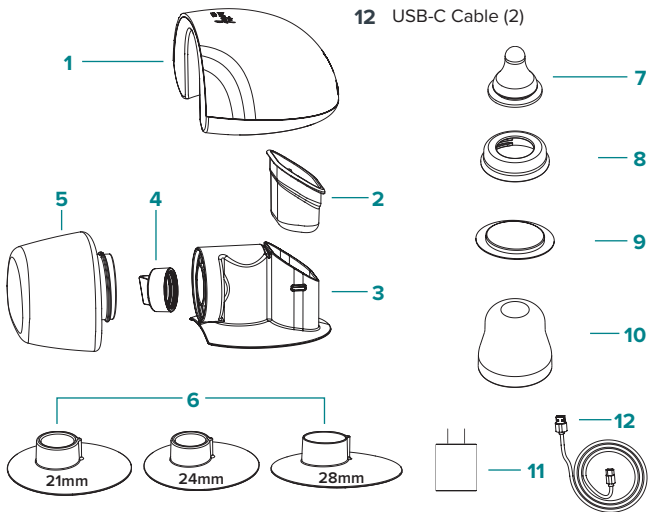
- Do not wrap cord around power adapter body.
- Use only the power adapter that comes with the powered breast pump.
- Pump only with the breast pump in an upright position.
- Do not shorten tubing.
- Make sure the voltage of the power adapter is compatible with the power source.
- Plug the power adapter into the breast pump first and then into the wall socket.
- Do not use antibacterial or abrasive cleaners/detergents when cleaning breast pump or breast pump parts.
- Never put breast pump motor in water or sterilizer as you can cause permanent damage to the breast pump.
- Do not attempt to remove the breast shield from your breast while pumping. Turn the breast pump off and break the seal between your breast and breast shield with your finger, then remove breast shield from your breast.
- If pumping is uncomfortable or causing pain, turn the unit off, break the seal between the breast and breast shield with your finger and remove the breast shield from your breast.
- Plastic bottles and component parts become brittle when frozen and may break when dropped.
- Bottles and component parts may become damaged if mishandled, e.g. dropped, over- tightened or knocked over.
- Take appropriate care in handling bottles and components.
- Do not use the breast milk if bottles or components become damaged.

6. Parts

6.1 What's Included

i While unpacking the box, make sure all of the following components are enclosed.

- | | |
|--|---|
| 1 Wearable Breast Pump, Motif Medical® Motif Aura (2) | 6 Silicone Inserts: 21 mm, 24 mm & 28 mm (2) |
| 2 Diaphragm (2) | 7 Bottle Nipple (2) |
| 3 Breast Shield: 29 mm (2) | 8 Bottle Screw (2) |
| 4 Valve (2) | 9 Bottle Disc (2) |
| 5 120 mL Bottle (2) | 10 Bottle Cap (2) |
| | 11 Power Adapter, DC5V, 2A (2) |
| | 12 USB-C Cable (2) |



Additional accessories and parts available for the Motif Aura breast pump:

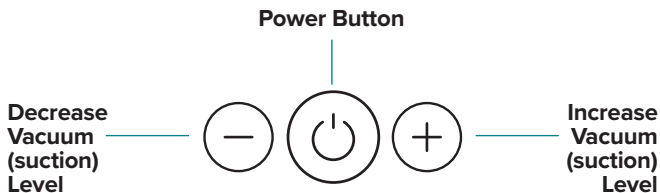
- Full resupply kit with replacement parts
- 15 mm, 17 mm & 19 mm Silicone Inserts
- Individual parts



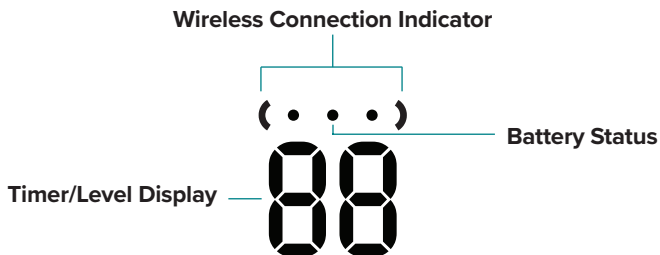
Find replacement parts and additional supplies for the Motif Aura at: motifmedical.com/replacement-supplies/

6.2 Buttons and Features

BUTTON CONTROL



DISPLAY



6.3 Battery Information

DIFFERENT LEVELS OF CHARGE



Low Battery



1/3 Charge

*Connect USB-C
cable soon*



2/3 Charge



Full Charge

*Operating time:
approx. 2 hours*

WHEN CHARGING

0-30%



One bar flashes

50%-80%



One bar lamp, second bar flashes

80%-100%



Two bars lamp, third bar flashes



It is recommended to charge the battery as soon as battery gets to 0% - 30%. If the battery dies, your Motif Aura will automatically shut down.



Power Button

Turns pump ON and OFF.

When the pump is ON, this will start the last stored setting



Increase Button

Increases vacuum (suction) level during the Massage and Expression modes.



Decrease Button

Decreases the vacuum (suction) level during the Massage and Expression modes.

6.4 Setting and Modes

Using the Cycle and Suction Settings

The Motif Medical® Motif Aura will remember your settings automatically for your next session. If you want to start pumping on different settings than those you finished in your previous session, adjust the settings before you start expressing.

The suction (vacuum) level refers to the suction strength; this is measured in millimeters of mercury (mmHg). When you are using your Motif Medical® Motif Aura, you will usually find that expressing is most effective on the highest suction level that you are comfortable with.

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



Massage Modes

Suction pattern with fast cycles and low suction (vacuum) to help encourage a letdown and to start milk flowing.

- Massage Mode: 1~5 levels



Expression Modes

Suction pattern with slower cycles and higher vacuum to express milk gently and efficiently.

- Expression Mode: 6~12 levels

7. Disinfection and Cleaning



Clean and sanitize the parts before using your pump for the first time

- Diaphragms
- Breast shields
- Bottles, rings, caps
- Nipples
- Valves

Disinfection Instructions

1. If parts have been used previously, follow cleaning instructions first.
2. Place your breast pump parts in a pot and cover them with enough water so that they are completely submerged.
3. Bring water to a boil and let boil for five minutes.
4. Remove parts with clean tongs.
5. Place pump parts on a clean paper towel or dish towel and allow to air dry completely.



Parts can also be disinfected in a steam or microwave sterilization bag to sterilize breast pump parts quickly and efficiently.



The pump body should never be submerged or exposed to water or other liquids for cleaning. It should also never be cleaned using a microwave sterilizer.

The pump body, which houses the electrical components, should be wiped down with a low-level disinfectant such as ethyl alcohol or isopropyl alcohol(70-90%).

Cleaning Instructions

1. Thoroughly wash your hands with warm soap and water.
2. Disassemble each part that comes into contact with breast milk including the diaphragms, silicone inserts, bottles, bottle screws, bottle caps, nipples, and valves.
3. Rinse each part with cool water to remove milk residue.
4. Options for washing pump parts:
 - Separately wash each part in the sink with a soft brush and soap. (Be sure to use a new brush or washcloth exclusively for breast pump parts) OR
 - Soak each part in warm, soapy water for 5 minutes and then thoroughly rinse them.
5. Dry each part with a clean towel or allow to fully air dry on a sanitary surface, such as a clean paper towel or clean dish towel. Do not pat dry.
6. Wipe the outside of your breast pump with a dry, clean towel. Do not wash the outside of your breast pump with water or get your breast pump wet when cleaning it.



It is not recommended to wash and dry Motif breast pump parts in the dishwasher.

There is no standard temperature for dishwashers and some may warp parts. Parts damaged in the dishwasher are not covered under warranty.

After Every Use

1. Thoroughly wash your hands before handling each breast pump component.
2. Disassemble each part that comes into contact with breast milk including the valve, bottle, bottle nipple, silicone insert, bottle screw, and bottle cap.
3. Rinse each part in cool water to remove milk residue.
4. Options for washing individual parts:
 - Separately wash each part in the sink with a soft brush and soap. (Be sure to use a new brush or washcloth exclusively for breast pump parts) OR
 - Soak each part in warm soapy water for 5 minutes then thoroughly rinse them.
5. Dry each part with a clean towel and/or allow them to completely air dry on a sanitary surface.
6. Wipe the main body with a dry, clean towel after each use. Never use water to wash the outside of your breast pump.
7. Store parts after they completely dry in a clean bag or container. Do not store any damp parts.

8. Silicone Insert Sizing

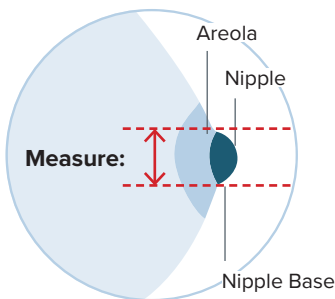
8.1 Understanding Size



Pumping should not hurt. This guide is a starting point to help determine your optimal breast shield size based on your nipple diameter.

HOW TO FIND THE RIGHT SIZE SILICONE INSERT

1. Using a ruler, measuring tape, or flange sizing tool, measure your nipple diameter at the widest part (usually the base) in millimeters (mm). Measure before pumping. **Do not include any areola.** It is important to measure both nipples as they may be different sizes.
2. Add 0-3 mm to your nipple size to find your breast shield size. Your nipple should move easily in the breast shield tunnel and no areola or other breast tissue should enter the breast shield tunnel. You may need to try more than one size to find the most comfortable and effective fit.



Example:

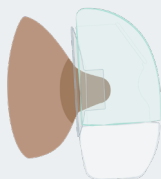
If your nipple diameter measures 16 mm your breast shield sizing range would be 16mm -19mm.

*1 cm = 10 mm

8.2 Test Your Silicone Insert Size

See below for the recommended breast shield size based on your measurements. Most moms find that adding 0-3mm to their nipple measurement results in a comfortable and effective flange fit.

TEST YOUR BREAST SHIELD SIZE

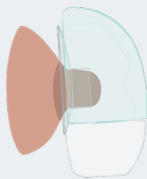


Good Fit

During pumping your nipple is able to move freely in the silicone insert tunnel. You will have space around your nipple and not much of the areola is drawn into the tunnel with the nipple.

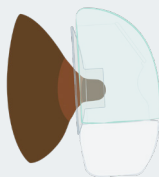
FLANGE SIZE CHART

Flange	Fits Nipples
15	12-15 mm
16	13-16 mm
17	14-17 mm
19	16-19 mm
21	18-21 mm
24	21-24 mm
27	24-27 mm
28	25-28 mm
32	29-32 mm



Too Small

During pumping some or your entire nipple rubs against the sides of the silicone insert tunnel.



Too Large

During pumping more of your areola is drawn into the silicone insert tunnel with your nipple. You may experience your areola rubbing up against the side of the breast shield tunnel.

8.3 Determining The Right Fit

Should you try a new silicone insert size?

- Does your nipple rub sides of the tunnel, to the point of causing discomfort?
- Do you see excessive areola being pulled into the tunnel?
- Do you see any redness?
- Is your nipple or areola turning white?
- Do you feel unexpressed milk after pumping?

If you answered “YES” to any of these questions, consider trying a new size by following the measuring instructions above.

If you are still unsure if you selected the correct size, see a lactation consultant or breastfeeding specialist for assistance in choosing the right size breast shield.

How to wear the Motif Aura with a pumping bra

1. Place the breast pump on your breast, underneath your bra.
2. Adjust the length of the bra straps to make suction more comfortable.



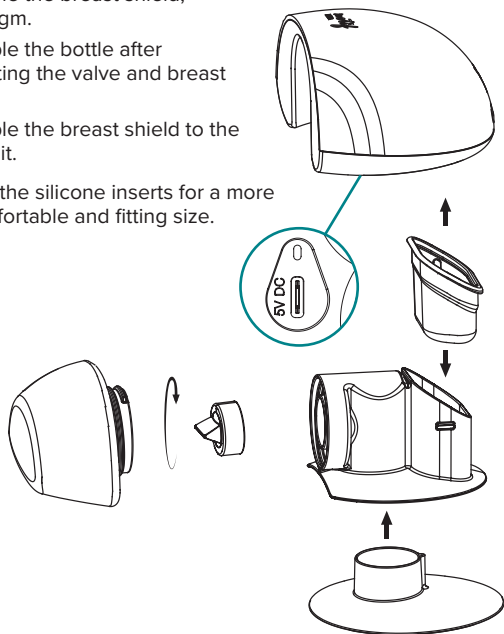
9. Operating Your Breast Pump

9.1 Assembling The Motif Aura Pump

1. Wash hands before touching breast pump components.
2. Use the USB-C cable to charge.
 - Can be used with a standard 5V phone charger.
 - Connection port is on the front side of the pump.

3. Assemble the breast shield, diaphragm.
4. Assemble the bottle after connecting the valve and breast shield.
5. Assemble the breast shield to the main unit.

- Use the silicone inserts for a more comfortable and fitting size.



WARNING: 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

9.2 Turning On/Off The Motif Aura Pump



Press the POWER button to turn ON

The screen will light up and it will start operating at the last setting you set.



Press the POWER button to turn OFF

After 30 minutes of using, it automatically turns off for safety.

(• • •) Use your breast pump with a fully charged battery whenever possible

Prior to initial use, plug the device into the power adapter and allow the breast pump to charge fully.

The battery charge level displayed on the LCD screen can differ from the actual battery capacity.

Charge the battery immediately when () is displayed on the LCD screen. If the breast pump remains unused for a long period of time, make sure that the battery is fully charged before use. Unplug the power adapter from the breast pump immediately after you are finished charging your device.

9.3 How to Use the Motif Medical App

1. Search and install the Motif Medical App to the smart phone, available from the [Play Store] or [App Store].
 - The App is compatible with the following versions, IOS 11 and OS Android 5.0, or higher.
 - The condition of the *Bluetooth*® connectivity may depend on the smart phone or tablet that the device is connected to.
2. After installing the Motif Medical App on the phone (connect the breast pump via *Bluetooth*®.)
3. (After enabling *Bluetooth*® on the smart phone, power ON the breast pump and open the app.)
4. Select 'Motif Medical APP' from the list of devices. (Select once primarily)
5. When connecting two devices, follow the instructions on the app and select the second device on the list.
6. After selecting the device(s) press complete to start using the app.



In case of disconnection between app and device, touch the reconnect button on the top of the app screen.

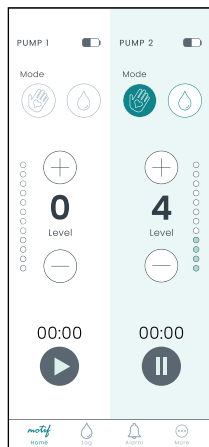
Pump Mode

The app can connect to two devices and control each device individually.

1. Press the play/pause button to control the operation of each device.
2. A prompt will appear on the screen after pressing the stop button to record the amount of breast milk collected.

Suction can be controlled from levels 1~12 and the battery status for each connected device is indicated.

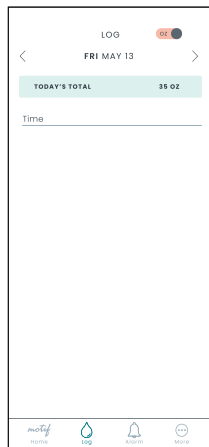
- Massage Mode: 1~5 levels
- Expression Mode: 6~12 levels)



Log

Keep track of your pump sessions by inputting the amount of breast milk expressed and the duration of use.

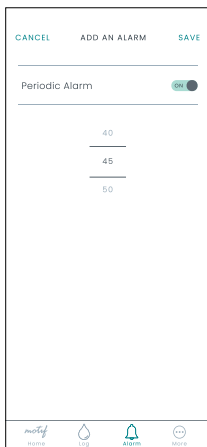
Unit of measure can be configured to mL or Oz.



Alarm Mode

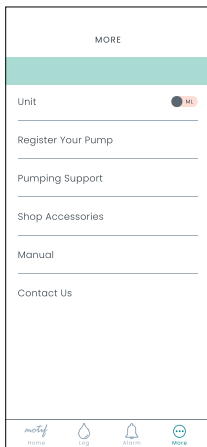
Keep up with each pump session by setting an alarm to notify the next session directly on your smart phone.

Alarm can be set with a specific time or use the periodic alarm to set the next session in 5 minute intervals.



Settings

- Set Unit: mL / OZ
- FAQ
- YouTube video for related product
- Company Profile
- Application version and Update



Quality of Service in *Bluetooth®*



[*Bluetooth®* reconnection]

If *Bluetooth®* is disconnected, you should check the following:

- Is the *Bluetooth®* on the smartphone turned on?
- Is the Motif Aura is on?
- Is there enough battery charge?
- Is your smartphone near the Motif Aura pump?
- Please check the situation above and reconnect the product by touching the “Reconnect” on the top right of the app screen.

9.4 Warning: Threats of BLE

BLE provides a lot advantages and convenience to users but it does come with risk. *Bluetooth*® technology and associated devices are susceptible to general wireless networking threats, such as denial of service attacks, eavesdropping, Man-in-the-middle (MITM) attacks, message modification, and resource misappropriation, and are also threatened by more specific *Bluetooth*® related attacks, such as the following:

1. BlueJacking: This is the process where an attacker sends unsolicited messages or business cards to a *Bluetooth*®-enabled device, mostly for advertising purposes. Bluejacking resembles spam and phishing attacks conducted against e-mail users. When a bluejacking message is sent with a harmful intent, it might entice users to respond with action to add the new contact to the device's address book. *Bluetooth*® device owners should be aware that this might cause a variety of social engineering attacks where it manipulates user into performing actions or divulging confidential information. Devices that are set in non-discoverable mode are not susceptible to bluejacking and in order for bluejacking to work; the sending and receiving devices must be within 10 meters distance.

2. **Bluesnarfing:** This is a method to force a connection with a *Bluetooth*®-enabled device to gain access to data such as contact list, calendar, emails, text messages, pictures, videos and the international mobile equipment identity (IMEI) stored in the memory. This is confidentiality and integrity threat. As sensitive information may be stolen from devices through bluesnarfing, it is much more malicious compared to bluejacking, even though both exploit devices' *Bluetooth*® connections without the owners' knowledge. By setting a device's *Bluetooth*® to nondiscoverable mode, the device becomes less susceptible to bluesnarfing although it may still be bluesnarf-able via brute force attack.

3. **Bluebugging:** This method was developed after the onset of bluejacking and bluesnarfing where it allows attackers to remotely access a *Bluetooth*®-enabled device and use its features, such as read phone books, examine calendars, connect to the Internet, place phone calls, eavesdrop on phone calls through call forwarding and send messages without the user's knowledge. As with all the attacks, the attacker must be within a 10 meters distance from the device.

4. **Bluesmack:** This is a *Bluetooth*® Denial Of Service (DOS) attack where the *Bluetooth*®-enabled device is overwhelmed by malicious requests from an attacker, causing it to be inoperable by its owner and draining the device's battery, affecting the continued operation of the device after the attack. Due to the proximity required for *Bluetooth*® connection, users can move the device to a new location to prevent the attack from happening.

Tips on Safe Bluetooth® Usage

After controlling the breast pump with *Bluetooth*® function, use the following tips to help keep your *Bluetooth*®-enabled device secure.

1. Turn on 'discoverable' mode when you don't use it. The 'discoverable' mode on your device is only meant to be used to "pair" two *Bluetooth*®-enabled devices. When the pairing process is done, the 'discoverable' mode can be turned on as the devices should remember each other.
2. Don't send sensitive information via *Bluetooth*®. Refrain from communicating or transmitting sensitive and personal information using the *Bluetooth*®-enabled device as it might be sniffed.
3. Remove lost or stolen devices from paired device lists. Maintain physical control of devices at all times.
4. Avoid accepting unknown attachments or applications received on your phone or device. If you were not expecting it no matter how legitimate it may be. If your device asks to pair and you didn't initiate the pairing, deny it and check that your 'discoverable' setting is set to 'o ' or 'hidden'.

10. Using Your Motif Aura Pump

10.1 Pumping Guide



Even when you are using the breast pump, it is recommended to breastfeed your baby whenever you can.

- Gently massage your breasts or apply warm compresses from the breast toward the nipple before starting your pumping session.
- Express milk from each breast for 10-15 minutes. It is recommended to pump frequently rather than pumping for a long duration. (Every 2 - 3 hours, 8 times a day.)

10.2 Getting Ready to Pump

1. Check to see if you are using the correct size breast shield. See chapter 8 Breast Shield Sizing for more details.
2. Wash hands thoroughly.
3. Connect your assembled collection kit to the tubing port on your breast pump.
4. Make sure that the collection kit is connected and positioned properly.
5. Place the breast shield on the breast so that the nipple is properly centered in the tunnel.
6. Hold the breast shield and connector onto your breast with your thumb and index finger.
7. Support your breast with the palm of your hand.

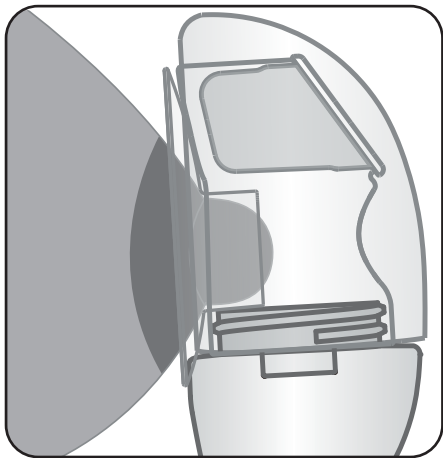
10.3 Aligning The Silicone Insert

Center the silicone insert on your breast so that the nipple is drawn into the silicone insert tunnel.





It's important that the silicone insert is positioned properly before pumping begins to avoid any pain that may be caused by rubbing or twisting of your nipple onto the side of the silicone insert. If double pumping, place the second silicone insert in place as well.

If you're concerned about the fit or want to ensure you've placed the breast shield on correctly, please reference the "Test Your Silicone Insert Size" portion of Chapter 8, Silicone Insert Sizing.

While some discomfort may be felt when first using a breast pump, using a breast pump should not cause pain. If you are unsure about silicone insert sizing, please contact a healthcare professional or Motif Medical® representative who can help you get a proper fit.



10.4 Expressing Your Milk

1. Press the  POWER button to start pumping.
 - After first use, the Motif Aura will automatically remember your last settings for your next pumping session.
2. Adjust the suction (vacuum) level and mode by pressing the  INCREASE button and  DECREASE button to find a comfortable setting.
 - Massage Mode: 1~5 levels
 - Expression Mode: 6~12 levels
3. When your pumping session is over, press the  POWER button to turn off and remove milk collection kit from breast(s).
 - After 30 minutes of using, it automatically turns off for safety.

10.5 After Pumping

After each pumping session, be sure to take apart the assembly. Never attempt to clean or sterilize pump parts when still assembled; ensure you are cleaning and sterilizing each part individually.

1. Twist the diaphragm assembly off the breast shield.
2. Remove the breast shield from the milk collection bottle and close the bottle tightly with the bottle cover and bottle disk, and store safely.

10.6 Storing Breast Milk



When storing breast milk in a milk storage bag, make sure to only use non-toxic markers when writing on the bag.

Source: CDC.gov

STORAGE LOCATIONS / TEMPERATURES

TYPE OF BREAST MILK	Room Temperature 77°F (25°C) or colder	Refrigerator 40°F (4°C)	Freezer 0°F (-18°C) or colder
	Freshly expressed or pumped	0 - 4 hrs	0 - 4 days
	Thawed (previously frozen)	1-2 hrs	0 - 24 hours (one day)
	Leftover from a Feeding (baby did not finish the bottle)	0 - 2 hrs after the baby is finished feeding	
			0 - 6 mo. is best 6 - 12 mo. is acceptable
			Never refreeze human milk after it has been thawed

HOW TO THAW BREAST MILK

1. 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 longer than recommended.
2. Thaw frozen milk in the refrigerator or under cool, running water.
3. Heat the milk under warm, running water and gently swirl the container to mix the milk. Be sure not to shake the bottle.
4. If warm water is not available, heat a pot of water in the stove. Once the water is warm, not boiling, remove the pot from the stove and place milk container in the pot. Never warm the milk container directly on the stove.
5. Never microwave breast milk because microwaves can cause dangerous hot spots that could burn you or your baby.
6. 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.
7. After thawing, milk should be stored in the refrigerator for no more than 24 hours.
8. Never refreeze thawed milk. Throw away previously frozen milk that is not used within 24 hours.

11. Troubleshooting

11.1 Troubleshooting Solutions

Below you will find general conditions that may occur with your Motif Aura and corresponding troubleshooting solutions.

Condition	Possible Causes	Checks	Solutions
No suction	Valve	Check if they are properly connected to silicone insert.	Disassemble and properly reassemble.
Low suction	Defective assembly kit	Check the connection of the kit.	Disassemble and reassemble the kit.
	Breast Shield	Examine the breast shield for potential cracks or chips. Check silicone insert sizing (see chapter 8).	If any damage to the breast shield is apparent, replace with a new breast shield.
	Valve	Check if there is damage to the valve.	If any damage to the breast shield is apparent, replace with a new breast shield.

Condition	Possible Causes	Checks	Solutions
Pain	Suction too high	Check the suction level.	Set to the lowest suction level and consult your lactation consultant or physician.
No power	Power adapter	Confirm that power cord is not damaged and is connected to standard electrical outlet.	If it has damage, contact Motif customer service at 844-272-8390 or where you purchased the pump.
	Battery	Confirm battery is fully charged.	Leave pump to charge for a full 3 hours and then try again.
Main body becomes wet		Unplug the power adapter from the socket. Turn off the breast pump. Wipe the main body with a clean dry cloth and store it in a warm dry area for about 12 hours.	



If you need additional help troubleshooting your breast pump, please reach out to the Motif Medical® Customer Service Department.

You can access them online at [motifmedical.com](https://www.motifmedical.com) via chat, through email at hello@motifmedical.com or by phone at (844) 272-8390.

※ Do not store near a heater or humidifier.

11.2 Disposal

Please send components that are no longer used to Motif Medical® or properly dispose of the device in accordance with local, state, and federal regulations.



As electrical and electronic equipment, the device must be disposed of according to a specialized procedure for collection, pick-up and recycling or destruction in accordance with Directive 2012/19/EU of the European Council on Waste Electrical and Electronic Equipment [WEEE].

11.3 When to Replace Parts

How often you should replace your breast pump supplies can vary based on how often you use your breast pump. For example, a mom that exclusively breast pumps about 9 times a day and sanitizes their parts more frequently than a mom that only pumps 3 to 4 times per day will need to replace her parts more often.



A good reference to keep in mind is replacing your parts every 90 days.

Replacing your Valves

The silicone valves (the membranes or little white flaps on the valves) need to be replaced between 1 to 3 months based on how frequently they're used because they can affect suction power.

- Membranes need to be replaced when they don't lay flat on the valves.
- It's important to remember that smaller breast pump parts may not show any visible damage.

Replacing the Diaphragms

The membranes within the diaphragms may stretch and lose elasticity over time, making them less effective at keeping moisture out of your breast pump motor.








- They need to be replaced between 3 to 6 months depending on use.
- If you see any tearing, warping, rips, or discoloration then it's time to replace them.

Replacing your Silicone Inserts

Your silicone inserts will collect residue, can crack, or become discolored over time depending on how often you pump.

- They should be replaced every 6 months.
- However, keep an eye out for any cracks, tears, or warping because that could indicate that need to be replaced sooner.
- The discoloration will not affect how well your pump works but may not be pleasing to the eye.

12. Technical Information

Contents	Description	
Rated voltage and frequency	Input : DC 5V, 2A	
Battery / Life	3.7V 1200mAh Li-Polymer / 2 hours +	
Protection on electronic shock	Class II, □ TYPE BF: Breast Shield 	
Degree of protection against ingress of water	IP Classification : IP22	
Operation mode (Continuous operation)	Expression Mode, Massage Mode	
Suction levels	Expression Mode	6 - 12 Levels
	Massage Mode	1 - 5 Levels
Timer Function	AUTO-SHUT OFF after 30 minutes	
Noise	Less than 45 dB	
Backflow Protection	Yes	
Cleaning Method for Accessories	Boiling water	
Operating Conditions		
Ambient temperature	41 to 104°F	   Temperature Humidity Pressure
Relative humidity	20 to 80%	
Air pressure	700 to 1,060 hPa	
Transport and Storage Conditions		
Ambient temperature	-4 to 122°F	   Temperature Humidity Pressure
Relative humidity	20 to 95%	
Air pressure	500 to 1,060 hPa	

13. Product Information

The Motif Aura breast pump is intended to be used in a home environment and is EMC-tested in conformity with the requirements of the standard IEC 60601-1-2:2014 Edition according to clause 7 and 8.9.

The breast pump needs special precautions regarding EMC and needs to be installed and put into service according to the EMC information provided in these instructions for use.

This equipment uses wireless communication:

Frequency (transmit and receive): 2402 ~ 2480MHz

Modulation : GFSK, FHSS(Frequency-Hopping Spread spectrum,

Radiated power : 2.5mW

Portable and mobile RF communications can affect the breast pump.

WARNING

To prevent malfunction resulting from electromagnetic interference:

- The electric breast pump Motif Aura should not be used adjacent to or stacked with other equipment. If adjacent or stacked use is necessary, the electric breast pump Motif Aura should be observed to verify normal operation in the configuration in which it will be used.
- Wireless communications equipment such as wireless home network devices, mobile phones, cordless telephones and their base stations, walkie-talkies, RFID can affect the electric breast pump and should be kept at a distance of at least 30 cm away from the device.
- Use of accessories or cables other than those provided by the manufacturer of this device could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.

Notice

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.

13.1 Electromagnetic Compatibility

Phenomenon	Basic EMC standard or test method	Port tested	Test level/ requirement
Mains terminal disturbance voltage	CISPR 11:2015 +A1:2016+A2:2019, EN 55011:2016/A2:2021 Group 1, Class A	AC Mains	Group1, Class B
Radiated disturbance	CISPR 11:2015 +A1:2016+A2:2019, EN 55011:2016/A2:2021 Group 1, Class A	Enclosure	Group1, Class B
Harmonic Current Emission	IEC 61000-3-2:2018 +A1:2020 , EN IEC 61000-3-2:2019	AC Mains	Class A
Voltage change, Voltage fluctuations and Flicker Emission	IEC 61000-3-3:2013 +A1:2017, EN 61000-3-3:2013 +A1:2019	AC Mains	Pst: 1 Plt: 0.65 Tmax:0.5 dmax: 4% dc: 3.3%
Electrostatic Discharge Immunity	IEC 61000-4-2:2008 EN 61000-4-2:2009	Enclosure	± 8 kV/Contact $\pm 2, \pm 4, \pm 8,$ ± 15 kV/Air
Radiated RF Electromagnetic Field Immunity	IEC 61000-4-3:2020 EN IEC 61000-4-3:2020	Enclosure	10 V/m 80 MHz-2.7 GHz 80% AM at 1 kHz
Immunity to Proximity Fields from RF wireless Communications Equipment	IEC 61000-4-3:2020 EN IEC 61000-4-3:2020	Enclosure	Table 9 in IEC 60601-1-2:2014+A1:2020
Immunity to proximity magnetic fields in the frequency range 9 kHz to 13.56 MHz	IEC 61000-4-3:2017 EN 61000-4-39:2017	Enclosure	Table 11 in IEC 60601-1-2:2014+A1:2020

Electrical Fast Transient/Burst Immunity	IEC 61000-4-4:2012 EN 61000-4-4:2012	AC Mains	± 2 kV, 100 kHz repetition frequency
Surge Immunity	IEC 61000-4-5:2014+A1:2017 EN 61000-4-5:2014+A1:2017	AC Mains	Line to Line ± 0.5 kV, ± 1 kV Line to Ground ± 0.5 kV, ± 1 kV, ± 2 kV
Immunity to Conducted Disturbances Induced by RF fields	IEC 61000-4-6:2013 EN 61000-4-6:2014	AC Mains	3 V 0.15-80 MHz 6 V in ISM bands Between 0.15 MHz and 80 MHz 80% AM at 1 kHz
Power Frequency Magnetic Field Immunity	IEC 61000-4-8:2009 EN 61000-4-8:2010	Enclosure	30 A/m 50 Hz & 60 Hz
Voltage dips	IEC 61000-4-11:2020 EN IEC 61000-4-11:2020	AC Mains	0 % UT: 0.5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315°
			0 % UT; 1 cycle and 70 % UT; 25/30 cycles Single phase: at 0°
Voltage interruptions	IEC 61000-4-11:2020 EN IEC 61000-4-11:2020	AC Mains	0 % UT; 250/300 cycle
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.			

WARNING: 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 motif AURA including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.

13.2 Test Standards and Results

EN 300 328 V2.2.2

Clause	Test Items	Results	Remark
4.3.1.2 or 4.3.2.2	RF output power	-	Note1
4.3.2.3	Power Spectral Density	-	Note1
4.3.1.3 or 4.3.2.4	Duty Cycle, Tx-sequence, Tx-gap	-	Note1
4.3.1.4	Accumulated Transmit Time, Frequency Occupation & Hopping Sequence	-	Note1
4.3.1.5	Hopping Frequency Separation	-	Note1
4.3.1.6 or 4.3.2.5	Medium Utilisation (MU) factor	-	Note1
4.3.1.7 or 4.3.2.6	Adaptivity (Adaptive Frequency Hopping)	-	Note1
4.3.1.8 or 4.3.2.7	Occupied Channel Bandwidth	-	Note1
4.3.1.9 or 4.3.2.8	Transmitter Unwanted emission in the out-of-band domain	-	Note1
4.3.1.10 or 4.3.2.9	Transmitter Unwanted emissions in the Spurious domain	PASS	
4.3.1.11 or 4.3.2.10	Receiver spurious emissions	PASS	
4.3.1.12 or 4.3.2.11	Receiver Blocking	-	Note1
4.3.1.13 or 4.3.2.12	Geo-location capability	-	Note1

Note 1 – The EUT used a RF module that was tested and certification

13.3 Electromagnetic Emission

This equipment is manufactured to operate in the electromagnetic environment described below. The customer or user should verify if this equipment is operated in such environment.

Guidance and manufacturer's declaration-electromagnetic emissions		
Emission Test	Compliance	Electromagnetic environment-guidance
Radiated disturbance CISPR 11	Group 1 Class B	The Motif Aura use RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment-
Mains terminal disturbance voltage CISPR 11	Group 1 Class B	The Motif Aura are 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 current IEC61000	Complies	
Voltage Fluctuation/Flicker IEC 61000-3-3	Complies	

Warning : Other equipment could interfere with the medical device or device system.

13.4 Electromagnetic Immunity

This equipment is manufactured to operate in the electromagnetic environment described below. The customer or user should verify if this equipment is operated in such environment.

Guidance and manufacturer's declaration-electromagnetic immunity			
Test of Electronic Interference Resistance	IEC60601-1-1-2 Test Level	Standard Compliance Level	Electromagnetic Environment Guideline
Electrostatic Discharge IEC 61000-4-2	Discharge by 8 kV direct contact 15 kV of Air-gap discharge	Discharge by 8 kV direct contact 15 kV of Air-gap discharge	Note1
Radiated RF Electromagnetic Field immunity IEC 61000-4-3	10 V/m 80 MHz-2.7 GHz 80% AM at 1 kHz	10 V/m 80 MHz-2.7 GHz 80% AM at 1 kHz	<p>Recommended separation distance.</p> <p>$d = 1.2 \cdot \sqrt{P}$ 80 MHz to 800 MHz</p> <p>$d = 2.3 \cdot \sqrt{P}$ 800 MHz to 2.7 GHz</p> <p>Where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in meters (m).</p> <p>Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, should be less than the compliance level in each frequency range. Interference may occur in the vicinity of equipment marked with the following symbol.</p>



Electrical Fast Transient/Burst IEC 61000-4-4	± 2 kV for power supply lines	± 2 kV for power supply lines	The quality of supplied power should be suitable for domestic or home healthcare environment.
Surge according to IEC 61000-4-5	± 1 kV line to line ± 1 kV line to earth	± 1 kV line to line ± 1 kV line to earth	The quality of supplied power should be suitable for domestic or home healthcare environment.
Immunity to conducted disturbances induced by RF fields IEC 61000-4-6	3 V 0.15-80 MHz 6 V in ISM & Amateur radio bands between 0.15 and 80 MHz 80% AM at 1 kHz Power supply line	3 V 0.15-80 MHz 6 V in ISM & Amateur radio bands between 0.15 and 80 MHz 80% AM at 1 kHz Power supply line	The strength of RF field in the frequency range higher than 150 kHz~80MHz, the strength of the RF field is smaller than 3 V
Voltage dips/ Voltage interruption IEC 61000-4-11	0 % UT: 0.5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0 % UT: 1 cycle and 70 % UT: 25/30 Cycles Single phase: at 0° 0 % UT: 250/300 cycle	0 % UT: 0.5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0 % UT: 1 cycle and 70 % UT: 25/30 Cycles Single phase: at 0° 0 % UT: 250/300 cycle	The quality of supplied power should be suitable for general business site or hospital environment. For the user to operate the equipment continuously even the electric power supply is interrupted, it is recommended that the uninterruptable power supply device (UPS) or batter is prepared.
Magnetic field of supply frequency (50/60Hz) according to IEC 61000-4-8	30 A/m	30 A/m	The magnetic field of power frequency should be coincided with the general value found in the domestic or home healthcare environment.

Note: UT is the AC voltage of the power before using test level

Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the breast pump is used exceeds the applicable RF compliance level above, the breast pump should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the breast pump. Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 10 V/m.

Technical standards of international

Standard	Frequency	Data Rate	Range
Inductive Coupling Devices	< 1 MHz	1-30 kbps	<1m
Wireless Medical Telemetry System	608-614 MHz 1395-1400MHz 1427-1429.5 MHz	>250 kbps	30-60m
Medical Device Radiocommunication Service	401-406 MHz	250 kbps	2-10m
802.11a Wi-Fi	5 GHz	54 Mbps	120m
802.11b Wi-Fi	2.4 GHz	11 Mbps	140m
802.11g Wi-Fi	2.4 GHz	54Mbps	140m
802.11n Wi-Fi	2.4/5 GHz	248 Mbps	250m
802.15.1 Bluetooth Class I	2.4 GHz	3 Mbps	100m
802.15.1 Bluetooth Class II	2.4 GHz	3 Mbps	10m
802.15.4 (Zigbee)	868, 915 MHz, 2.4 GHz	40 kbps 250 kbps	75m
World Interoperability for Microwave Access (WiMAX)	2.5 GHz	70 Mbps (fixed) 40 Mbps(mobile)	Several km

14. Bluetooth® Module

- ARM® Cortex®-M4 32-bit processor with FPU, 64 MHz
- Memory: 192 kB Flash / 24 kB RAM
- RF Output Power: MAX +4 dBm (-20 ~ 4 dBm)
- RF Receive Sensitivity: -96 dBm
- Type 2 near field communication (NFC-A) tag with wakeup-on-field and touch to-pair capabilities
- Fully automatic LDO and DC/DC regulator system (Used LDO by Default)
- Temperature Sensor
- UART (CTS/RTS) with EasyDMA, SPI, and I2C data interfaces.
- 12-Bit 200 ksp/s ADC with - 8 configurable channels with programmable gain
- Size: 15 mm x 8 mm x 1.8 mm
- Operating Voltage: 1.7V to 3.6V
- Operating Temperature: -40 to +85
- RoHS compliant

Bluetooth® wireless authentication number

KC : R-C-csi-BoT-nL

FCC : 2APB6-BOT-NLE521

CE-RED : ETLS180306.0035,ETLS180307.0035

TELEC : 208-180049

15. FCC Statement

Federal Communication Commission Interference Statement

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 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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this 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.

LABEL OF THE END PRODUCT:

The final end product must be labeled in a visible area with the following "Contains FCC ID : 2APB6-BOT-NLE521 ". If the size of the end product is larger than 8x10cm, then the following FCC part 15.19 statement has to also be available on the label: This device complies with Part 15 of 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.

16. Warranty

Be sure to register your pump upon receiving it at:
motifmedical.com/product-registration

All Motif Medical® products purchased from authorized retailers come with a manufacturer's warranty stating that product will be free from defects in workmanship and materials; for 2-years on double-electric breast pumps, for 1-year on internal batteries, and for 90-days on breast pump parts and the Manual Breast Pump.

Motif's sole obligation under this express warranty shall be, at Motif's discretion, to replace or repair the product or part(s) thereof (in case the product is not available, to deliver a similar type of product).

The warranty starts on the proven purchase date and is a single warranty ending from this starting date. The warranty does not extend if the product is replaced. The warranty is non-transferable. Motif breast pumps are single-user pumps and the warranty only applies to the original pump user.

The warranty covers manufacturing defects. Motif Medical® cannot replace a pump part which was damaged by the end user while using the pump. The warranty does not cover lost or stolen items, normal wear and tear to breast pump parts, and items that are misused, abused or improperly stored. Failure to comply with operating instructions or alterations made to the product will result in the warranty being voided.

Warranty products are shipped using standard ground. Express, overnight, and 2-day shipping are available for an additional fee. The warranty is valid in the United States only. Warranty items will only be shipped to addresses in the US.

Expective service life: 2 years



If you have a warranty question, you can call 844-272-8390, visit us online at motifmedical.com, or email customer service at hello@motifmedical.com



Manufactured for:

Motif Medical®, LLC
8 The Green, Suite 5601
Dover, DE 19901

Phone: (844) 272-8390

Email: info@motifmedical.com

Web: www.motifmedical.com



Thank you for choosing
the Motif Aura wearable
breast pump!

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info@MotifMedical.com
www.motifmedical.com

Motif Medical®
8 The Green, Suite 5601
Dover, DE 19901