

Crane Double Electric Breast Pump

EE-9004



If you have any questions about the operation of your breast pump, please contact Crane Customer Care.

Toll Free: 888-599-0992

Email: customer-service@crane-usa.com

Register your product online

<https://crane-usa.com/product-registration/>



PLEASE READ AND SAVE ALL INSTRUCTIONS TO ENSURE THE SAFE AND EFFECTIVE USE OF THIS BREAST PUMP.

SAVE YOUR DATED PROOF OF PURCHASE!

[You will need this in case of warranty]



Congratulations on choosing the Crane Double Electric Breast Pump. The Crane Double Electric Breast Pump is designed to mimic a baby's natural sucking. Use it to express your milk efficiently in whisper quiet comfort. The soft silicone breast cushion and easily adjustable modes help to stimulate milk let down, while gently massaging and squeezing the breast and nipple.

Indication for use: The Crane Double Electric Breast Pump is intended to be used by lactating women to express and collect milk from their breast, to alleviate engorgement of the breast, maintain the ability of lactation, and provide mother's milk for future feedings when separation of mother and baby occurs.

Design for Better Living.

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IMPORTANT SAFETY INSTRUCTIONS

This is a single user product, use by more than one person can present health risk and performance questions and will void the warranty.

WARNING! READ ALL INSTRUCTIONS BEFORE USING THIS PRODUCT.

When using this pump and other electrical products, basic safety precautions should always be maintained, including the following:

- The lactating women are the intended operator for this electric breast pump.
- The device can be used at home, institution and hospital, but using on an aircraft is not recommended as the cabin pressure may affect the breast pumps performance.
- The breast shield kit is an accessory for the Crane Double Electric Breast Pump. The collection kits are personal care items intended for use by a single user only and should not be shared between users. Use by more than one mother may pose a health risk (e.g. risk of cross-contamination) and voids the warranty.
- 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.
- The device is not suitable for use in the presence of flammable anesthetic mixtures with air or with oxygen or nitrous oxide.
- There are no user-serviceable parts inside the device. **DO NOT ATTEMPT TO REPAIR** the electric breast pump **YOURSELF**. No modifications to this device are permitted.
- No servicing or maintenance is permitted while the product is in use.
- The device requires no calibration.
- The user must check that the equipment functions safely and see that it is in proper working condition before being used.
- This product should never be left unattended when plugged.
- Never operate this product if it has a damage cord or plug, if it is not working properly, if it has been dropped or damaged, or dropped into water.
- Sanitize the Express Collection Kit parts before each use.
- Plug the main adapter into breast pump first and then into wall socket.
- Using any other AC/DC adapter that not approved by the manufacturer voids the warranty.
- Inbuilt Li-ion Cylindrical battery is non-removable, it's prohibited to discharge for use.
- If the power adapter outer casings become loose or are separating, stop use and contact the device manufacturer immediately. Separation of the casing can result in electric shock.
- This electric breast pump cannot be serviced or repaired while in use. Do not repair yourself. Do not modify this electric breast pump.
- Use this electric breast pump only for its intended use as described in this manual.

- The replacement of Li-ion Cylindrical battery by inadequately trained personnel could result in a hazard.
- 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.

SAVE THESE INSTRUCTIONS!

GENERAL SAFETY INSTRUCTIONS

PRECAUTIONS

- Do not use outdoors.
- Do not use while bathing.
- Do not use while sleeping or over drowsy.
- Do not place the product in direct sunlight.
- Do not reach for an electrical device that has fallen into water. Unplug immediately.
- Do not place in or drop into water or other liquid.
- Do not spray or pour liquid directly on to the pump.
- Do not place or use this product where it can fall or be pulled into a tub or sink.
- Do not drop or insert any object into any opening or Tubing.
- Do not drop or hit the product.
- Do not touch the product with bare hands right after boiling to avoid scalds and burns.
- Do not over-boil to avoid premature aging of the product material.
- No components should be sterilized in a microwave oven.
- Do not operate the product in the MRI environment.
- Keep the adapter away from heated surface.
- Supervision is necessary when this product is used near children or person requiring supervision.
- Make sure all the parts are assembled correctly before pumping.
- If pumping is uncomfortable or causing pain, turn the unit off, break the seal between the breast and the funnel adapter with your finger and remove the funnel adapter from your breast. Consult your lactation consultant or physician.

- If discomfort is felt, then suction can be broken by inserting a finger between the breast and the breast shield.
- If irritation or discomfort occurs, discontinue use and see a doctor.
- Contact your healthcare professional or lactation professional if you can only express only minimal or no milk.
- Do not try and express with vacuum that is too high and uncomfortable (painful). The pain, along with potential breast and nipple trauma, may decrease milk output.
- 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.
- Do not use the components if dirt, mold or other contamination is visible.
- Wash and sanitize all parts that come in contact with your breast and breast milk prior to first use.
- Wash all parts that come into contact with your breast and breast milk after every use.
- Tubing – Inspect the tubing. If you find condensation in the tubing, wash and dry it immediately or replace the tubing. If you see breast milk inside the tubing or tubing connector do not attempt to wash, clean or sterilize the tubing or tubing connector, instead contact the manufacturer.
- Do not store wet or damp parts as mold may develop.
- If tubing becomes moldy, discontinue use and replace tubing.
- Keep the product dry, do not get the product wet.
- Keep this product and the components out the reach of babies and children.
- Wash hands before each using.
- Always unplug the breast pump immediately after every use.
- Do not attempt to repair the product.
- During the long-term placement of breast pump unit, it's recommended to charge the Li-ion Cylindrical battery every month, and each charging time shall not more than 6 hours in order to maintain its service life.
- After six months the Li-ion Cylindrical r battery has been used, each discharge time will be relatively reduced, this is a normal phenomenon.
- Built-in Li-ion Cylindrical battery can be used 5 to 6 cycles, each cycle time is 30mins.
- Do not operate a motor vehicle while using the breast pump.
Keep this product and the components out of the reach of babies and children.
- Warning: Long power cable and tubing. To avoid strangulation and entanglement, keep cable and tubing out of reach of babies and children.
- This product is not heat resistant. Keep away from radiators and open flames.
- Separation from the mains is only assured through the disconnection of the power cord from the wall socket outlet.

- Always inspect power cord wires prior to use for damage or expose wire. If damage is found, immediately discontinue use of power cord and contact the after-sales service.
- Once finished pumping, switch off the breast pump, unplug it, and disassemble the pump kit items. Close the bottle and store it for later use. Use bottle stand to prevent tip over.
- Separate and wash all parts that come in contact with breast milk immediately after use to avoid dry up of breast milk residue and prevent growth of bacteria.

THIS PRODUCT IS INTENDED FOR PERSONAL USE ONLY

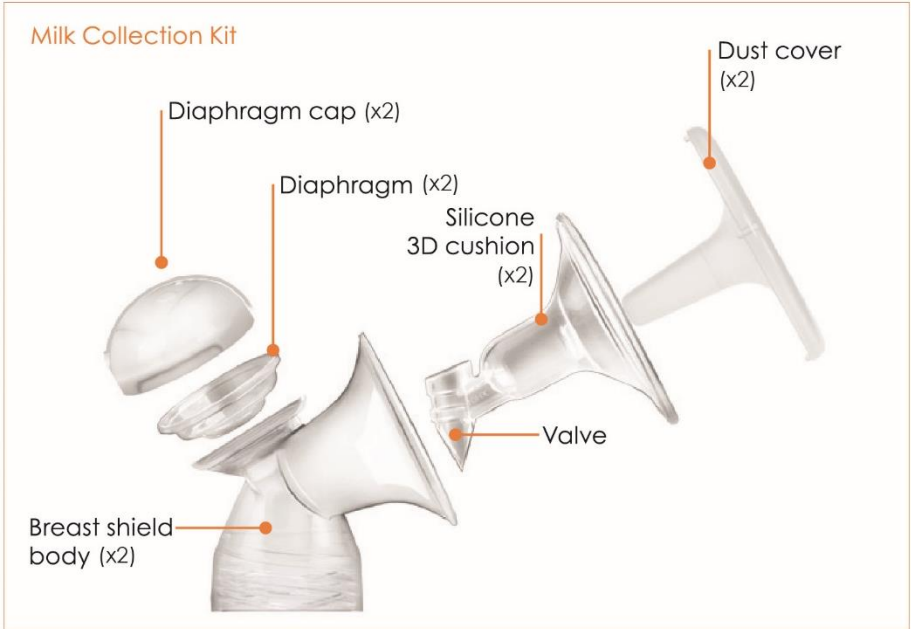
Introduction

Functions & Features

Your Crane breast pump has the following functions and features:

- Double sided pumping: Your pump includes everything you need for double pumping. Pumping from both sides at once saves you time and supports better milk supply.
- A fully closed system with anti-backflow.
- Ergonomic milk collection kit: Silicone 3D Cushions allow for a more comfortable fit and help to apply gentle **pressure**, better **suction** and **massage** action to stimulate lactation while pumping.
- 2-Phase expression- Stimulation and Expression
- Stimulation: 7 adjustable suction levels, 3 adjustable speed levels
- Expression: 10 adjustable suction levels, 6 adjustable speed levels
- Control in your hands: With a flexible range of modes, levels and dual pumping options, the Crane double electric breast pump lets you find the ideal pumping combination.
- Touch control: Easy use and wipe clean controls
- Two illumination levels for nighttime use
- 30 min count-up timer: Time your current pumping session up to half an hour.
- Alarm setting helps schedule pumping sessions
- User mode to set personalized settings
- All parts are BPA Free.
- Portable, compact design: Gives you and baby more flexibility to pump whether at home or on the go. Your Crane double electric breast pump comes complete with a built in rechargeable li-ion polymer battery.

Parts





Other available parts

The Silicone 3D cushions fit around the nipple and come in a range of sizes, you'll find the most commonly used size in your Crane breast pump box. Your nipple will expand while milk is being expressed. If you find the standard sized Silicone 3D cushion is too small or too large, other sizes are available from Crane. See the back of the instructions for information on how to measure your nipple for the correct sized cushion.

15-20mm - 21mm Silicone 3D Cushion

22-26mm - 25mm Silicone 3D Cushion (*MEDIUM included*)

27-30mm - 29mm Silicone 3D Cushion

***Contact Crane customer service to receive one- time complimentary set of the correct cushion size in the SMALL 21mm or LARGE 29mm cushion size. Contact Crane at 1-888-599-0992 or customer-service@crane-usa.com**

Assembling Your Crane Pump MILK Collection Kit

(3D Cushion, Breast Shield, Diaphragm and Diaphragm Cap)

Insert the silicone 3D cushion into the breast shield body. Ensure the edge of the 3D cushion is attached to the breast shield body.



Secure valve

Once the silicone 3D cushion is inserted into the breast shield body, gently push upwards on the valve to make sure it is securely attached to the inside body of the breast shield.



Diaphragm and Cap

Carefully insert the diaphragm into the top of the breast shield body. Make sure the edge is flush and the seal is good. Screw the cap on tightly to prevent any air from leaking.



Assemble the Bottle

Place the assembled breast shield body onto the bottle. Screw the bottle onto the breast shield body.



Connecting the Pump Unit to the Milk Collection Kit

Insert the tubing connector into the air vent on the diaphragm cap. Then insert the other end of the tubing with the connector into the pump unit.

If you are double pumping, connect the 2nd tubing into the 2nd milk Collection kit and insert the tubing with the connector into the pump unit.

Note: for single pumping only attach 1 tube and insert tab to close off the other port.



Ensure the tubing is securely connected to the pump unit and the milk Collection kits.

Connecting the Pump Unit to Power

To Connect to the power supply, plug the A/C adaptor into the wall outlet. Attach the power cord to the back of the pump unit. **Fully charge the pump unit before using for the first time.**



Li-ion Polymer Battery Power Supply/Charging

Your Crane Double Electric Breast Pump can operate on built-in battery or power outlet. The built-in rechargeable battery charges fully after about four and a half hours. Do not charge for more than 6 hours. From a full charge your pump can work continuously for about 2 hours.

When the battery power is low, battery indicator will flash to indicate the battery needs to be charged. Charging the battery before it is fully drained will protect the li-ion polymer battery. When the battery is fully charged, it will stop charging automatically to avoid damage to the li-ion polymer battery.

Cleaning, Hygiene & Care

How to keep your pump clean

Follow the instructions for cleaning, caring and storing for your Crane breast pump and parts. Failure to do so may pose a health risk and void the warranty.

Your Crane pump kit is designed for single use only, it is not intended for multiple users. Every mother should have their own pump kit. Use multiple users risks the spread of transmissible diseases.

Make sure to wash your hands with soap and warm water prior to touching the breast pump and the breast pump parts. Avoid touching the inner parts of the milk collection kit parts which come in to contact with breast milk. The motor unit must never be exposed or immersed into water or other liquids for cleaning. The motor unit must not be Sterilized in a microwave sterilizer.

General Cleaning Instructions

When to Wash	Breast pump kit	Bottle & Lids
	Silicone cushion (silicone 3D flanges) , breast shield body, diaphragm	Bottle, lid, nipple
Before 1st use	√wash √sanitize	√wash √sanitize
After each use	√wash	√wash
Once per day	√sanitize	√sanitize

Bottles:

Bottles should be sterilized after every use with babies under 3 months of age. Wash and sanitize the Bottle Kit before your first use. Sterilize daily and wash after each use.

Milk Collection Kit:

Wash and sanitize the Milk Collection Kit before your first use. Sanitize daily and wash after each use. The breast pump milk collection kit has a closed system therefore cleaning the tubes is not necessary. If you happen to see moisture in the tubes after pumping, remove the tubes from the breast shields. Turn on the motor for a few minutes until the moisture is gone.

Pump unit:

Wipe pump unit with clean damp cloth. Sterilize the unit using a disinfectant wipe and wipe off the outside of the tubing and the tubing jack (where tubing attaches to the pump unit). NEVER submerge the pump unit in water or use in a sterilizer.

First time using your breast pump

Carefully read this instruction manual before using your Crane Double Electric Breast Pump. Failure to follow these instructions and safety guidelines can lead to harm or injury from the device and may also damage the pump and kit.

- Wash your hands with soap and warm water.
- Disassemble all parts that come into contact with the breast/breast milk: Breast shield body, silicone cushions & diaphragms & bottles & bottle parts
NOTE: silicone cushion comes assembled onto the breast shield.
- Sterilize these parts using by boiling for 3-5 minutes or with another sterilization technique. See '**STERILIZING YOUR PUMP PARTS**' for more information.
- Leave to dry or dry with a clean cloth or paper towel.

STERILIZING YOUR PUMP PARTS

BEFORE FIRST USE AND ONCE DAILY

Place disassembled breast shield, silicone cushions, diaphragm, bottle and bottle parts that are safe to boil into a pot and cover with water. **DO NOT BOIL TUBES AND CONNECTORS.**

1. Put the pot over the heat and bring to a boil.
2. Boil for 3-5 minutes.
3. Allow water to cool and gently remove items with clean tongs
4. Do not boil tubes or connectors
5. **Allow to air-dry thoroughly.** Place sanitized pump parts and bottle brush on a clean, unused dish towel or paper towel in an area protected from dirt and dust.

Do not use a dish towel to rub or pat items dry because doing so may transfer germs to the items.

- 6. Store dry parts in a cool, clean place when not in use. DO NOT store wet or damp parts.**

Before Each Use

Wash your hands well with soap and water and dry thoroughly before touching any part of your pump.

- Make sure that all parts are totally dry prior to use. Wet or damp parts will cause poor suction.
- Once all parts are totally dry, re-assemble the milk collection kit.
- Make sure that you check for wear and tear on tubes, plastic and silicone parts.
- Replace worn out or damaged parts immediately as this will affect suction.

CLEANING THE TUBES

The Crane Double Electric Breast Pump is a closed system, therefore cleaning the tubes is not necessary. If you see moisture in the tubes after pumping, remove the tubes from the breast shields. Turn the unit on for a few minutes until the moisture is gone.

TUBE CARE for Moisture in the tubes

If you see still moisture in the tubing:

- Wash tubing in warm, soapy water.
- Rinse with clean water
- Shake out water droplets and hang to dry.

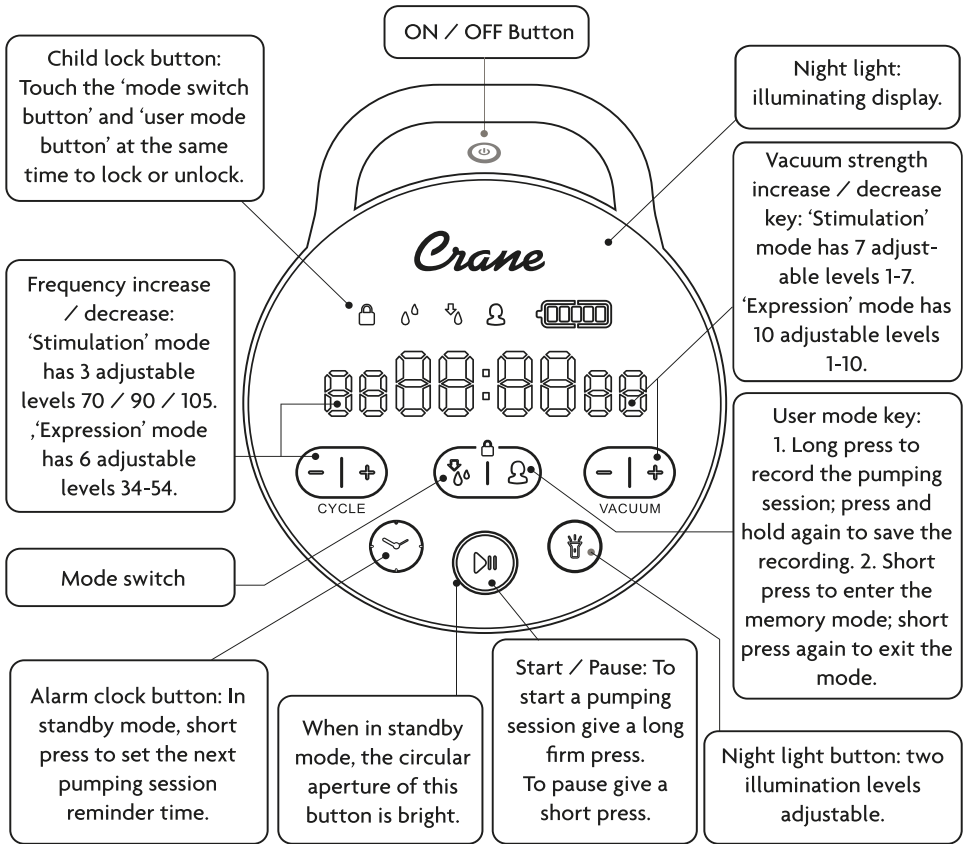
After each pumping session





- Rinse each part that has come into contact with the breast and/or breast milk immediately after pumping. Parts that come into contact with the breast and breast milk are; bottles, breast shield body, silicone 3D Cushions, diaphragm. This avoids buildup of milk residue in the collection kit bottles/parts and growth of any bacteria.
- Wash all parts above in warm soapy water using any fragrance-free mild liquid dishwashing detergent. This degreases the parts of the milk collection kit. Grease residue affects suction and passage of milk into the collection bottles.
- Use a separate cleaning sponge and bottle brush with a smaller brush to reach the tiny nooks of the collection kit parts.
- Rinse each piece thoroughly with warm water for 10 to 15 seconds.












- You may sanitize the parts through a sterilization method of your choice after each use.
- Parts may become damaged or deform if exposed to high temperatures for any more than 5 minutes.
- Make sure that you check on wear and tear on tubes and all plastic or silicone parts.
- Replace worn out or damaged parts immediately as this will affect suction.
- **Allow to air-dry thoroughly.** Place sanitized pump parts and bottle brush on a clean, unused dish towel or paper towel in an area protected from dirt and dust. Do not use a dish towel to rub or pat items dry because doing so may transfer germs to the items.
- Make sure that all parts are totally dry prior to use. Wet or damp parts will cause poor suction. Once all parts are totally dry, re-assemble the milk collection kit.

You will need to re-assemble your milk collection kit after each cleaning. Before assembling, the parts which directly come in to contact with breast milk must be cleaned and sterilized before each use. These parts include; the milk bottle, Silicone 3D Cushions, breast shield body, diaphragm and bottle lid.





Button & Display Guide









1. When the display screen lights up the , it indicates that the current mode is the STIMULATION MODE. When the display screen lights up the , It indicates that the current mode is the EXPRESSION MODE. Press button to switch the modes.
2. When the display screen lights up the , it indicates that the "user mode" is being used for pumping. When the symbol on the display screen is flashing, it indicates that the pumping session is currently being recorded.
3. The  in the middle of the display screen indicates the duration of the pumping session.

4. The  on the left side of the display screen indicates the pumping speed. The  on the right side of the display screen indicates the vacuum strength.
5. When in standby mode, the outer ring of the  button will light up.
6. Short press the  to pause the pumping session, the outer ring of the  will keep flashing until the pause is released. Long press the  to return to standby mode, the outer ring of the  will light up.
7. When the  on the display screen lights up, it indicates that the child lock function is initialized, the pump unit is in lock state.
8. When charging the Li-ion Cylindrical battery, the  on the display screen lights up, and the current power status will be displayed in real time. When powered by the Li-ion Cylindrical battery, the  lights up and displays the current battery power status in real time. The  on the display screen flashes when the Li-ion Cylindrical battery is running out.

How to use the buttons on your pump unit

1. Press **ON/OFF** button on the top of the pump unit to turn on.
2. **Pumping:** Long press the Switch/Pause button to start pumping.
NOTE: You can manually change to Expression mode or stay in stimulation mode by pressing the 
3. **Timing Function:** The timer on the display will automatically start when the pumping session starts. The timer will count up from 0- 30 minutes. After 30 minutes, the unit will stop pumping automatically.
4. **User Mode:** Allows you to record the pumping session to memory for further ease of pumping sessions. **Maximum recording time is 30 minutes.**
 1. Press and hold the  to enter USER MODE to start recording the pumping session. Press and hold again to save and exit the recording.
 2. Short press  to start and stop recorded pumping session.
5. **Alarm Clock:** Schedule your next pumping session or use as an alarm clock. In the standby mode, press the  to enter the time setting for the pumping

session reminder. Press the  on the left side to set the hour, while the  on the right side to set the minute. After completing setting, if there is no further operation within 3 seconds, the time will be automatically set and countdown will be started. The pump starts ringing with buzzer for one minute after countdown finishes. Press the  to stop the buzzer.

- Child Lock:** Touch the  and the  at the same time to enable or disable the child lock function. The symbol on the display screen lights up, it indicates child lock is on.
- Night Light Function:** Touch the  to switch on the night light. There are two lighting levels to choose from. Press the button once to enable the lighting level 1, press twice to enable level 2, press again to turn off the light function.

Preparing to pump

So, your pump is clean, sterilized, assembled and you've familiarized yourself with the controls. Now it's time to start pumping.

Be prepared - Make sure you have everything you need for the 30 minutes or so. Have a glass of water and a snack in arms reach a cloth for any spills. Do you have your phone charged, or something else to read, watch or listen to.

You can do this! Take a breath and relax. Whether this is your first time using your pump or you've done it many times...just take a moment to relax, think about your baby and know you've got this.

See & hear your baby - Many moms find that pumping is more successful if they have the right sensory cues. Watching a video or seeing a picture of your baby may be enough to help your milk let down. Listening to a recording of your baby or having an item of clothing that has their smell may also help to get your milk flowing.

The power of routine - Your body will also respond to the familiarities of how and where you pump, so expressing at the same times of day helps your body know what is expected.

Get comfortable – Pumping where you normally feed your baby can be a good cue for your body. Try to choose a chair or position that takes care of your neck and back. Supporting your breast with a cushion may help too, particularly if you are expressing from both breasts at once and need a hand free.

Using Your Crane Pump

Remove the dust cover – Always remove the dust cover before you start to pump.

Position the breast shield - Massage around your breast, then position your nipple in the center of the silicone 3D cushion.

Pumping Mode - Switch on your pump, starting with the stimulation mode icon to encourage letdown. Once your milk begins to flow (usually after a couple of minutes), switch to an expression mode icon

Finding the right settings for you:

- When using your pump for the first few times, experiment with the different expression setting (-/+) to find the one that works well for you.
- If your milk flow begins to drop, you may find it helpful to gently massaging your breast.
- Adjust the suction level gradually to one that is effective but still comfortable. Don't choose a level that's too high and uncomfortable.
- You may find it helpful to switch between the Expression icon and stimulation icon Phases while you are pumping.

How long to pump - Use your pump to express your milk until the breast is empty, which is usually between 15-30 minutes.

Finishing your pumping session - When you are ready to stop expressing, switch your Crane pump off. Ensure the pump motor is OFF before removing the milk collection kit from your breasts.

Time to clean - Please see the instructions for rinsing and washing or sterilizing your pump parts that have come in contact with your breast or breast milk. Wipe your pump unit.

Double Pumping

As you learn to use your Crane Pump, you may find it easier to pump one side at a time to begin with. Once you are confident with positioning the breast shield and have an understanding of the controls, you can be more confident using both sides at once. Pumping both sides at once can help increase your milk supply as well as reduce the time needed to pump.

A cushion under one breast can help you still have one hand free to have a drink or hold something to read. Hands free expressing bras can free up your hands if you want to move about while you are pumping from both breasts.

Milk Storage

Human Milk Storage Guidelines

Type of Breast Milk	Storage Location and Temperatures		
	Countertop 77°F (25°C) or colder (room temperature)	Refrigerator 40°F (4°C)	Freezer 0°F (-18°C) or colder
Freshly Expressed or Pumped	Up to 4 Hours	Up to 4 Days	Within 6 months is best Up to 12 months is acceptable
Thawed, Previously Frozen	1-2 Hours	Up to 1 Day (24 hours)	NEVER refreeze human milk after it has been thawed
Leftover from a Feeding (baby did not finish the bottle)	Use within 2 hours after the baby is finished feeding		

CRANE CUSTOMER CARE

CALL US: 1-888-599-0992 (Mon-Fri 9:00am – 4:00pm CST)
EMAIL US: customer-service@crane-usa.com
LIVE CHAT: available at www.crane-usa.com

TROUBLESHOOTING

DO NOT attempt to repair the Breast Pump yourself.

If the breast pump continues to not operate, please contact Crane Customer Care.

Problem	Cause	Solution
Low Suction	<ul style="list-style-type: none"> • Air leakage at connecting parts (valve, flange, tubing or connectors). • Pump units air circuit is blocked, tubing is bended or residue in tubing. 	<ul style="list-style-type: none"> • Check each connecting parts, reinstall and clean
No Suction	<ul style="list-style-type: none"> • Valve is not installed or assembled in place, or the valve is deformed and damaged. 	<ul style="list-style-type: none"> • Install or replace valve.
Unable to Start	<ul style="list-style-type: none"> • The AC Adaptor is not plugged into the main socket or the DC power socket on pump unit. • Lithium battery is exhausted. 	<ul style="list-style-type: none"> • Re-plug the adaptor or charge the lithium battery.
Reflux: Milk or water in tubing	<ul style="list-style-type: none"> • Diaphragm is not in place or damaged. 	<ul style="list-style-type: none"> • STOP IMMEDIATELY, clean or replace the diaphragm before pumping.
Display Shows E1 or E2 alarm	<ul style="list-style-type: none"> • E1: open circuit. • E2: short circuit. 	<ul style="list-style-type: none"> • Please contact your dealer.
Display shows E3 alarm	<ul style="list-style-type: none"> • The internal temperature of the pump unit exceeds the normal operating temperature range (less than 0 Celsius or higher than 60 Celsius) 	<ul style="list-style-type: none"> • Temperature is too low: place the pump unit within the normal working temperature range. • Temperature too high: place the pump unit within the normal working temperature range. • Turn off pump unit and wait for temperature to fall within before using.

Replacement parts available at www.crane-usa.com

Troubleshooting

Weak Suction or No Suction

All the instructions below must be followed. Failure to follow any of these instructions will lead to weak suction or no suction vacuum at all.

- All parts must be totally dry and not damp.
- Frequent use or improper sterilization method can cause aging on Silicone 3D Cushions. If the Silicone 3D Cushions have aged and are worn out, replace immediately.
- Make sure that the Silicone 3D Cushions on each collection kit fit tightly onto the breast shield body. The Silicone 3D Cushions have edges that should fit perfectly across the cushion edges.
- If the Silicone 3D Cushions are not snugly attached this will result in poor suction.
- Make sure that the silicone diaphragm is properly attached to the breast shield body.
- Check that all connections are tight so as not to cause any air to leak. Check that tubing is not wet, damp, bent or twisted.
- Tubing must be straightened and uncoiled to ensure proper air flow.
- If you notice any milk residue, clean the tubing and air dry. (Follow proper cleaning the tubes instructions described in this manual)
- If you notice any water condensation or milk inside the tubing, clean and air dry.
- Tubing must always be dry and checked prior to each use. Wet or damp tubing will cause poor suction.
- Worn out tubing with holes will cause a reduction in suction. Replace immediately when worn out.
- Check to make sure that the breast shield is well secured and tightly fastened to the tubing connector.
- Check that tubing connector ends are tight and well connected to the tubing, the breast motor unit and the breast shield.

Breast Pump is Working but not able to Express Milk

You might be experiencing breast engorgement. Place a warm towel on the engorged breast.

- Use alternating hand expression and gentle breast massage to help decrease swelling and improve breast drainage. Try doing this before starting a pumping session.
- It is recommended to pump every 2 to 3 hours, including breast feeding hours. If you are still in postnatal care, you must pump each breast for 15 minutes according to your milk secretion.

- Do not pump more than 30 minutes to avoid hurting your breast.
- If you have large breasts, hold and massage gently while pumping milk to help with the milk flow.

Breast Pump Unit Not Powering On

Check your power outlet by plugging in another electrical device.

- Make sure the power outlet is working.
- Make sure that your AC adaptor is connected properly to the breast pump unit.
- If you are using the AC adaptor and your breast pump is not turning on, try using the battery power and not the AC Adaptor.
- Make sure battery is fully charged. If it works on the battery power, you might have a defective AC adaptor.

Milk Overflow Prevention

Your Crane Double Electric Breast Pump is a closed system breast pump, designed with a barrier so that milk will not enter the tubing. Below are some measures you can take to help avoid milk backflow:

- Adjust the pumping power to a lesser suction level if your breast milk is relatively abundant.
- Try releasing pressure between your breast and the Silicone 3D cushions if you notice that the milk is gathering inside the tubing and is not streaming down to the collection bottle.
- Do not overfill the collection bottle.

Pump Unit Battery Precautions

The li-ion battery is built-in and non-removable. Do not disassemble.

- Only use the included AC adapter as the built-in li-ion polymer battery and power supply require the specified voltage.
- Do not expose the motor unit to direct sunlight or heat.
- Recharge the pump once a month when not frequently used.

Replacing parts

Your Crane breast pump has been made to our highest standards. However, over time and multiple uses you may find some of the silicone parts will begin to lose their elasticity. This may result in reduced suction levels or other problems. Replacement parts are available to replace any used or degraded parts. Replacement parts can be purchased directly at www.crane-usa.com

Disposal

When your Crane breast pump reaches the end of its life it should not be disposed of with other household waste. It should be recycled through a designated electronic recycling location. Please contact your local recycling center for details of where you can dispose of electronic waste. Please recycle the cardboard packaging and manual. Breast shields and other clear plastic parts can be recycled. Check with your local recycling center. Clean and sanitize parts before placing in the recycling.

Find Your Fit

Your Crane Breast Pump comes with the 25mm cushion, most popular sized option of Silicone 3D Cushion. This part of the milk collection kit fits around the areola and nipple, using the right size is important. Pumping with the wrong size can be painful and result in less milk being expressed. Other size options of Silicone 3D Cushion to fit your Crane breast pump are available to suit different sizes of nipple. Use the guides below to help find the best option for you. ***In the circumstance the included 25mm cushion is not the correct size, contact Crane customer service to receive one-time complimentary set of the correct cushion size in either the 21mm or 29mm cushion size. Contact Crane at 1-888-599-0992 or customer-service@crane-usa.com***

Signs your Silicone 3D Cushion may be too large

- Excess areola is drawn into the Silicone 3D Cushion or is being pulled over the nipple. A small amount is typical but it should not be painful.
- Sensation of tugging and/or pulling pain
- Nipple is pulled to the end of the Silicone 3D Cushion
- Silicone 3D Cushion falls from breast when pumping

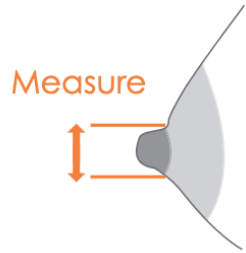
Signs the Silicone 3D Cushion may be too small

- Painful rubbing of nipple in cushion
- Nipple is not moving freely within the cushion
- A small amount of milk is being expressed

Using the sizing template below:

Carefully cut out the circles in the template on the next page. Shortly after the end of a pumping session, when your nipple is still swollen from milk being expressed, find the hole that fits most closely around your nipple. With that measurement use the table at the top of the next page.

The template here is a guide. You should note that your measurement may change over time particularly a few weeks after birth when your milk supply has become well established. Size can also vary between nipples and at different times of day. You may also find that at the start of a pumping session your nipple is full and the end it is smaller.



Crane Breast Pump 3D Silicone Cushions

Available in 3 sizes listed below. Choose the option that best matches your nipple size using the template below. 3D Silicone cushions and other spare parts are available at www.crane-usa.com.

15-20mm - 21mm Silicone 3D Cushion

22-26mm - 25mm Silicone 3D Cushion (*included*)

27-30mm - 29mm Silicone 3D Cushion

****Contact Crane customer service to receive one-time complimentary set of the correct cushion size in the 21mm or 29mm cushion size. Contact Crane at 1-888-599-0992 or customer-service@crane-usa.com***



Technical Data

AC adapter: Input 100-240V ~ 50/60Hz

Output: 15V ~ 1.6A

Li-ion polymer battery power: 11.1V ~ 2000mAh

Total power: 24W

Electronic equipment protection: Type II class

Stimulation speed: 70/90/105 T/min (+/- 5T/min)

Stimulation suction: Single: -0.005~-0.025Mpa (+/-0.003Mpa)

Double: -0.002~-0.014Mpa (+/-0.003Mpa)

Expression speed: 34/38/42/46/50/54 T/min (+/-5T/min)

Expression Suction: Single: - 0.005~-0.033Mpa (+/-0.003Mpa)

Double: -0.002~0.026Mpa (+/-0.003Mpa)

Timer: 30 minutes

Noise level: < 55dB (A)

Operating conditions Temperature 41-104°F, humidity RH < 90%

CRANE WARRANTY

For more information regarding the warranty policy,
please visit our website: www.crane-usa.com/customer-service

LIMITED WARRANTY

Thank you for purchasing a Crane product which has been tested to meet our stringent quality standards. This product is warranted to be free from manufacturing defects under normal use and conditions for 1 year.

**PLEASE CONTACT US BEFORE RETURNING THIS PRODUCT TO THE STORE.
CALL CRANE CUSTOMER CARE FOR PROBLEMS AND QUESTIONS. WE CAN
HELP.**

WARRANTY REQUIRES A DATED PROOF OF PURCHASE.

This warranty is void if the defect is due to accidental damage, misuse, abuse, neglect, improper repair or alteration by unauthorized persons, or a failure to follow operating instructions provided with the product. This warranty does not apply to normal wear and tear or commercial use.

In no event shall liability exceed the purchase price paid by the purchaser of the product. Under no circumstances shall there be liability for any loss – direct, indirect or incidental – or consequential damage arising out of, or in connection with the use of this product.

This warranty is valid only in the 48 contiguous states plus the District of Columbia and excludes Puerto Rico and the Virgin Islands. This warranty is effective only if the product is purchased and operated in the United States of America.

Any instructions or warranty included in this manual may be subject to change without notice. For the most up-to-date instructions and warranty information, please contact us or visit our website.

**TO RECEIVE WARRANTY INSTRUCTIONS AND RETURN AUTHORIZATION,
PLEASE CALL OR EMAIL CRANE CUSTOMER CARE.**

CRANE USA, INC.

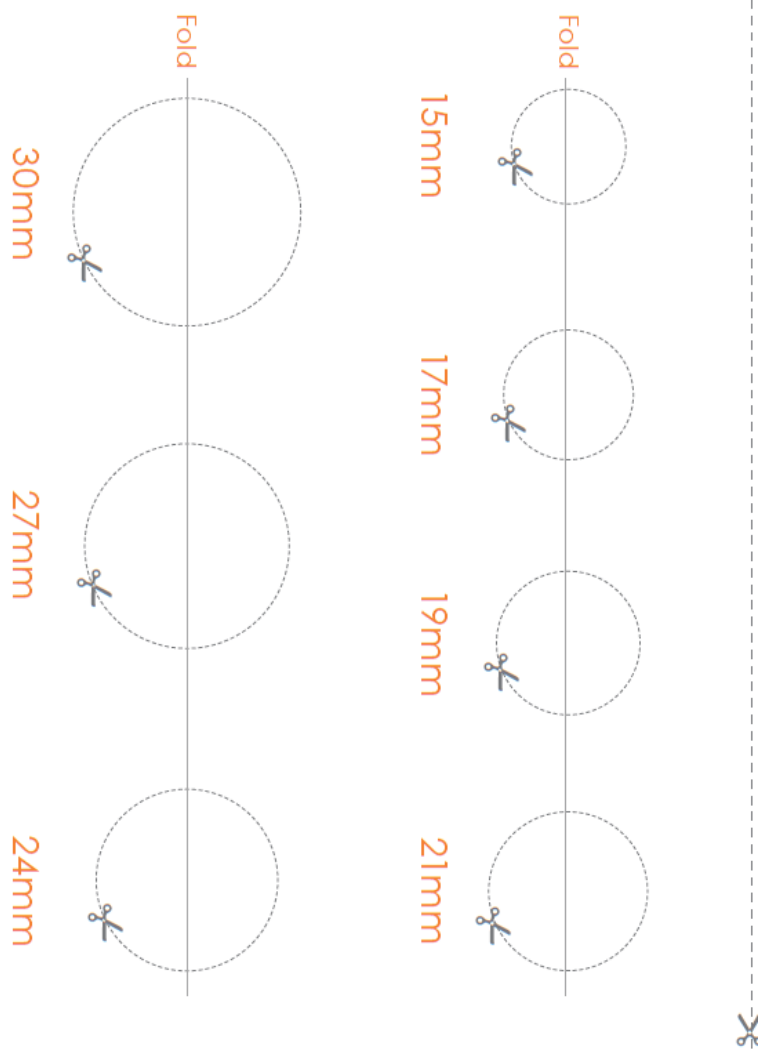
1015 Hawthorn Dr., Itasca, IL 60143

Toll Free: 1-888-599-0992 (Monday - Friday 9:00am - 4:00pm CST)

Email: customer-service@crane-usa.com

Website: www.crane-usa.com

Measure



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