

# Crane

## Crane Double Electric Breast Pump

### EE-9002



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](mailto: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.

Cleaning, caring for and using your pump is a breeze with the built-in rechargeable battery, fully enclosed system with anti-backflow and easy to assemble 2-piece silicone soft breast shield and milk collection sets.

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:

**DANGER:** To reduce the risk of electrocution

- ALWAYS unplug electrical product immediately after use.
- DO NOT USE while bathing.
- DO NOT place or store this product where it can fall into a tub or sink.
- DO NOT place in or drop into water or other liquid.
- DO NOT reach for product if it has fallen into the water. Unplug immediately
- NEVER immerse pump unit or AC adaptor in water or attempt to sanitize in a microwave

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

- Use this product only for its intended use as described in these instructions.
- Breast pumps are personal care items for one user only.
- Danger of electrocution! Keep the device dry, never immerse in water or other liquids. Do not run water over the pump
- Keep the power adaptor away from heated surfaces.
- Do not reach for product if it has fallen into water. Unplug immediately
- Do not use outdoors with AC adaptor, or operate where aerosol spray products are being used, or oxygen is being administered.
- Close supervision is necessary when being used near children
- Do Not allow small children to play with the pump unit, accessories, AC adaptor, etc. These parts may cause a choking or strangulation hazard. Keep pump and all accessories out of REACH OF CHILDREN.
- DO NOT use attachments not recommended by the manufacture.
- Do NOT use this product if it is broken or any parts are missing.
- Do not use while bathing or showering.
- Never operate this product if it has a damaged cord or plug, if it has bene dropped or damaged or is any parts are broken or missing.

# SAVE THESE INSTRUCTIONS!

## GENERAL SAFETY INSTRUCTIONS

**WARNING!** Read and understand all instructions. 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.

The warnings, cautions and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the user that common sense and caution are factors that cannot be built in this product but must be supplied by the user.

- This is a single user product. Use by more than one person may present a health risk.
- Use the electric breast pump only for its intended use as described in this manual.
- You should not experience discomfort or pain when using your Crane breast pump. Use the suction level and settings that are within your own comfort level. If you experience discomfort or pain, stop using the device and contact your professional lactation consultant, care provider or Crane representative.
- Do not use the electric breast pump while sleeping or overly drowsy.
- Supervision is required when electric breast pump is used in the vicinity of children.
- Unplug the AC adapter from wall socket outlet when the pump is not in use and store out of reach of children.
- AC Adaptor charger included with the Crane Double Electric Breast Pump is 110-240V 50/60Hz and can be used worldwide, however, in some countries you may need to use an outlet adaptor.
- Do not leave your Crane Double Electric Breast Pump unattended while plugged into a power source.
- Do not operate the electric breast pump if it is damaged or showing signs of excessive wear. This includes the plug and power cord too.
- Do not use 3rd party accessories, attachments or fittings with your Crane pump.
- Do not place the electric breast pump near any appliances generating a strong magnetic field.
- Do not use near concentrated oxygen or pressurized gases
- Do not drive while pumping.
- Inspect all pump components before each use.
- Do not thaw frozen breast milk in a microwave or a pan of boiling water.
- Clean and sanitize all parts that come into contact with breast/breast milk prior to first use.
- Wash all parts that come into contact with your breast/breast milk after each use.

# THIS PRODUCT IS INTENDED FOR PERSONAL USE ONLY

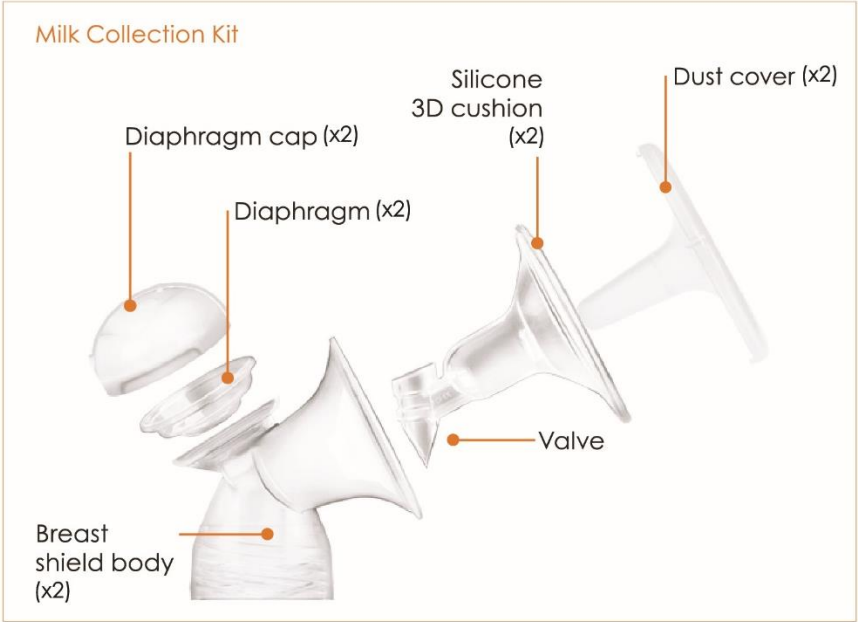
## Introduction

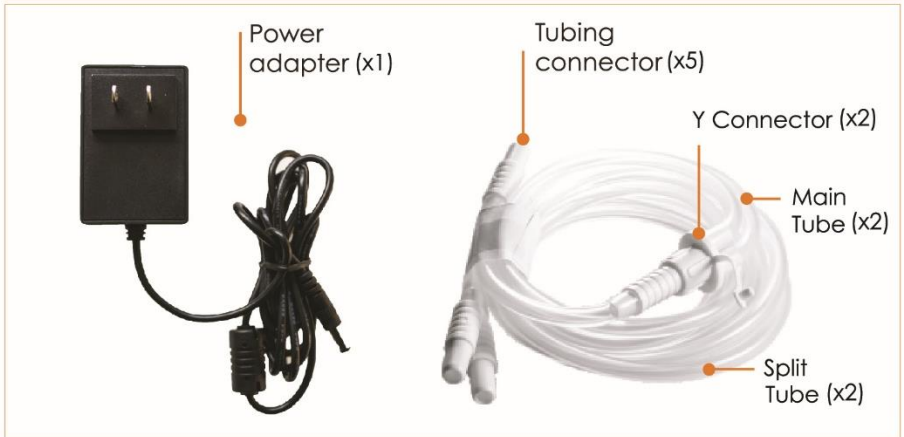
### Functions & Features

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
- 9 Adjustable suction 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
- 30 min count-up timer: Time your current pumping session up to half an hour.
- 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 your Crane retailer. See the back of the instructions for information on how to measure your nipple for the correct sized cushion.



# Assembling Your Crane Pump

## MILK Collection Kit

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 Tubing Connector Set

Connect one end of the Main Tubing to the single opening of the Y- Connector. Connect one tubing connector to the other end of the main tubing as shown. There are 2 split tubes with tubing connectors attached on each end. Connect the open end (without the tubing connectors) to the Y-Connector openings as shown. Insert the other sides of the tubing with the tubing connectors into the air vents on each diaphragm caps as shown.

### NOTE:

1. Make sure the tubing set is assembled correctly
2. When one side of the split tubes is removed and the plug is inserted into the opening on the Y-Connector, it becomes a single pump.



## Connecting the Pump Unit

Insert the main tube with the single tubing connector into the right side of the pump unit. Ensure that the pump unit and the expression collection kit are connected tightly, otherwise suction may be affected.

To connect the power supply, Plug the AC Adaptor into the wall outlet. Attach the power cord to the left side of the pump unit.



## 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 AC adapter is not connected, switch to the ON position on the bottom of the unit to use the built-in battery to supply power. 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.

### Bottle Kit:

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

1. 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.**
2. Put the pot over the heat and bring to a boil.
3. Boil for 3-5 minutes.
4. Allow water to cool and gently remove items with clean tongs
5. Do not boil tubes or connectors
6. **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.
7. **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.

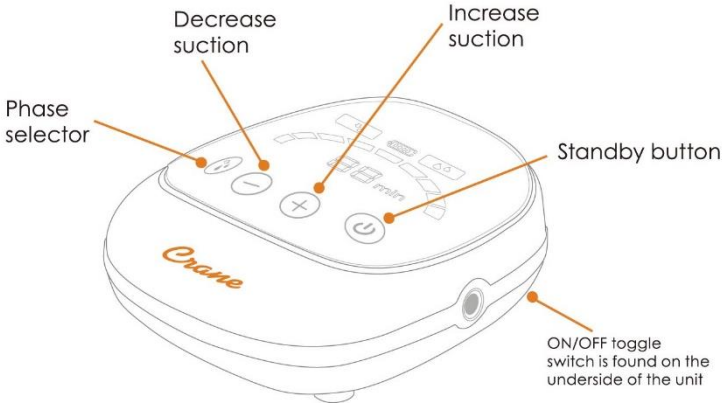
## After each pumping session

- 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

## How to use the buttons on your pump unit



1. Power – turn unit in and off when plugged into an outlet
2. Phase Function (stimulation/expression phase Icons)- press this to change between functions  
Tap to cycle through the different expression phases. There are 2 phase options for pumping, each phase is represented by these icons on the display when selected.  
**Stimulation phase:** mode massages the nipple and areola to encourage effective letdown.  
**Expression phase:** Slower motion with deeper suction simulates infants natural sucking motion
3. +/- increase and decrease suction- press + to increase and – to decrease suction in each function.
4. Level (Setting) of suction (?) indicator (1-9 levels)
5. Battery Power Indicator
6. Minutes remaining in 30 minute cycle

## Ready to Pump

1. On/Off Switch- turn unit to ON/OFF when pumping without unit being plugged into a wall outlet. Ensure unit is turned OFF after use to prolong the battery life
2. Non slip feet to secure unit placement for hands free pumping



## 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

**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

## Storing & Using Breast Milk

Please check the latest advice on storing and using thawed breast milk with your physician or lactation consultant.

Always keep your stored breast milk in a sterilized bottle or sterile milk storage bag, adding the date if you are planning to freeze it. Breast milk can be kept at room temperature for 4 hours.

You can store your breast milk in the fridge for up to 48 hours at 2-4 degrees C. Choose the coldest part of the fridge, such as above the vegetable drawer, not in the door. Your breast milk can be stored for up to 3-6 months in a freezer. Fill your storage bag or bottle no more than ¾ full, as the frozen milk will expand.

Allow your frozen breast milk to defrost itself in the fridge. When it is thawed, use it straight away.

Your baby might like warm milk. Stand the bottle in a container of hot water and let it heat to body temperature before feeding. Microwaving bottles is not recommended because the uneven heating can burn your baby’s mouth, and the heat can damage the food value and health protecting qualities of breast milk. Once warmed, and before feeding, always swirl the container of the milk to mix well and test the temperature by shaking a few drops of milk on the inside of your wrist. The milk should feel just warm on your skin.

### 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:** 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

## Quick Troubleshooting Guide

**DO NOT attempt to repair the Breast Pump yourself.**  
**If the breast pump continues to not operate, please contact Crane Customer Care.**

Cause	Solution
<b>Low Suction</b>	
<ul style="list-style-type: none"> <li>Air Leakage of connecting parts (valve, cushion, tubing, or connector).</li> <li>Pump unit's air circulator is blocked. Tubing is bent or residue left in tubing.</li> </ul>	<ul style="list-style-type: none"> <li>Check each part, make sure connections are on correctly and securely.</li> <li>Untangle tubing.</li> <li>Clean or replace tubing if needed.</li> </ul>
<b>No Suction</b>	
<ul style="list-style-type: none"> <li>Valve is not assembled in correct place or the valve is deformed and damaged.</li> </ul>	<ul style="list-style-type: none"> <li>Ensure valve is securely attached to the breast shield body.</li> </ul>
<b>No Power</b>	
<ul style="list-style-type: none"> <li>The AC adaptor is not plugged into the main socket or the DC socket on the pump unit</li> <li>The rechargeable battery is flat</li> </ul>	<ul style="list-style-type: none"> <li>Ensure AC Adaptor is plugged in to the wall outlet and the DC socket on the unit.</li> <li>Charge the battery.</li> </ul>
<b>Milk or Water in Tubing</b>	
<ul style="list-style-type: none"> <li>Diaphragm is not correctly positioned or is damaged</li> </ul>	<ul style="list-style-type: none"> <li>Stop immediately. Clean, reposition, or replace the diaphragm before pumping. Dry or replace tubing before pumping.</li> </ul>
<b>Display Shows E1 or E2 Alarm</b>	
<ul style="list-style-type: none"> <li>E1: Open Circuit</li> <li>E2: Short Circuit</li> </ul>	<ul style="list-style-type: none"> <li>Please contact your Crane Customer Care.</li> </ul>

# 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. Authorized replacement parts are available through your Crane supplier and many can be purchased separately so that you can replace any used or degraded parts.

## 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 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.

### 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.

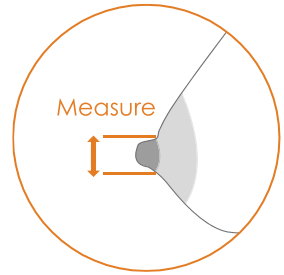
### Crane Breast Pump 3D Silicone Cushions

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 from your Crane retailer.

**15-20mm** - 21mm Silicone 3D Cushion

**22-26mm** - 25mm Silicone 3D Cushion

**27-30mm** - 29mm Silicone 3D Cushion



### Technical Data (EE-9002)

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

Output: 10V ~ 1.5A

Li-ion polymer battery power: 7.4V ~ 1750mAh

Total power: 15W

Electronic equipment protection: Type II class

Stimulation speed: 70-100T/min

Stimulation suction: - 0.012MPa (MAX) (9 steps)

Expression speed: 24-70T/min

Expression vacuum: -0.026MPa (MAX) (9 steps)

Timer: 30 minutes

Noise level: < 60dB (A)



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

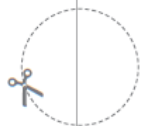




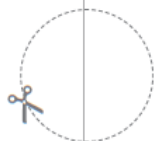
## Measure



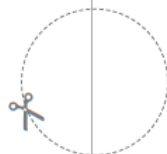
Fold



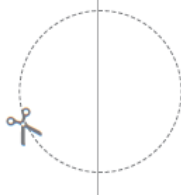
15mm



17mm

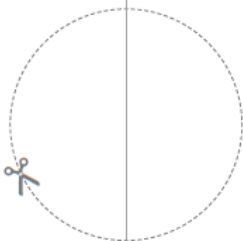


19mm

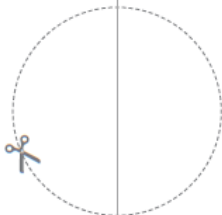


21mm

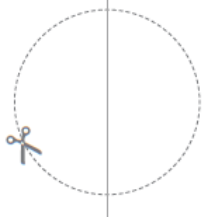
Fold



30mm



27mm



24mm



# CRANE WARRANTY

For more information regarding the warranty policy,  
please visit our website: [www.crane-usa.com/customer-service](http://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](mailto:customer-service@crane-usa.com)

Website: [www.crane-usa.com](http://www.crane-usa.com)

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