



By your side
and beyond

Cardinal Health™ Kangaroo
OMNI™ Enteral Feeding Pump
Setup and Troubleshooting Guide



By your side and beyond

We want to make it as easy as possible for you to set up, use and troubleshoot the Kangaroo OMNI™ Enteral Feeding Pump.

This guide contains an overview of how to set up the pump and address common issues, alerts and alarms you may encounter.

For more information, including a full list of alerts and error codes, please refer to the Kangaroo OMNI™ Enteral Feeding Pump Instructions for Use that can be accessed via the QR code found on the Quick Reference Guide that comes with the pump or online at mykangaroolearning.com.





Kangaroo OMNI™ Enteral Feeding Pump



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Pump overview

**1. Handle****2. Pump status indicators**

- – Warning alarm
- – Notice or caution alarm
- – Standby or feeding

3. Night mode button**4. Valve actuator**

Pump component that opens and closes the Kangaroo OMNI™ Feeding Set valve used to prevent free flow of fluid

5. Selection buttons

Press a key to select the option that appears next to the desired option on the screen

6. Power button

Press once to power on; press and hold for three seconds

7. Power indicator light

Green light confirms pump is connected to AC power

8. Occlusion sensor

Pump component used to determine fluid presence and detect occlusions

9. Rotor

Circular black wheel that drives fluid through the Kangaroo OMNI™ Feeding Set

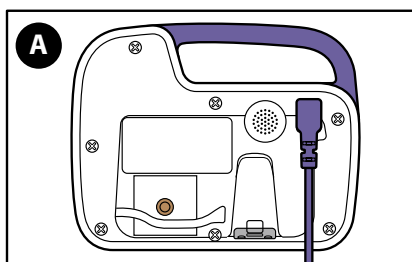
10. ENFit™ Cap Holder

Location to store ENFit™ cap while not in use

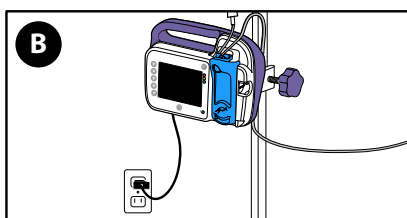
Battery

Charging the Kangaroo OMNI™ Enteral Feeding Pump battery

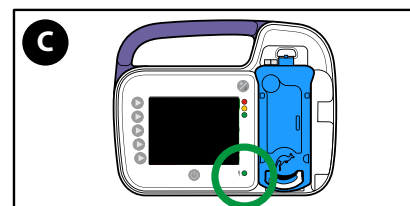
Unplugging the pump from a power source will automatically place the pump on battery power. To recharge the battery, plug the pump into a power source, such as an electrical outlet, and it will automatically begin charging.



A. Plug the power adapter into the power adapter port located on the back of the Kangaroo OMNI™ Enteral Feeding Pump.



B. Plug the other end of the power adapter into a nearby electrical outlet.



C. Confirm the green power indicator light is on to ensure the Kangaroo OMNI™ Enteral Feeding Pump is receiving power.

Note: Charge the Kangaroo OMNI™ Enteral Feeding Pump for a minimum of 12 hours before initial use.

Power-related issues

In many instances, battery or power cord issues can be easily diagnosed and addressed.

- Ensure the power cord is plugged completely into the pump.
- Ensure the green power indicator light on the pump is lit when the pump receives power. If the green light is not lit, the pump is not receiving power. Check to see if the power adapter looks damaged and confirm that the power outlet is functioning properly.
- Replace the power adapter if needed.

Note: Only use the power adapter that is provided with the pump.

Long-term storage

After extended periods of storage, it may be necessary to charge and discharge the battery several times to obtain optimum performance.

Feeding set configurations

Kangaroo OMNI™ Feeding Sets

Feeding sets that are compatible with the Kangaroo OMNI™ Enteral Feeding Pump:

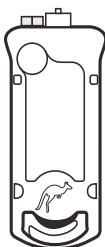
Kangaroo OMNI™ Feeding Set

Designed for enteral feeding regimens

Below are the three types of Kangaroo OMNI™ Feeding Sets for use with the Kangaroo OMNI™ Enteral Feeding Pump:

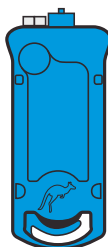
Clear

Feed only designed to deliver available formula categorized as level 0-1 within IDDSI framework



Blue

Feed and flush (hydrate) designed to deliver available formula categorized as level 0-1 within IDDSI framework



Green

Thick formula designed to deliver homogenized, blenderized formulas (categorized as level 2, 3 or 4 drinks) within IDDS framework

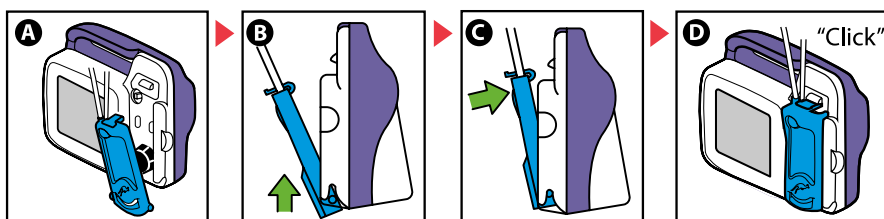


Loading a Kangaroo OMNI™ Feeding Set

The feeding set has a colored cassette that is loaded directly onto the pump.

Load the cassette onto Kangaroo OMNI™ Enteral Feeding Pump by following the animated instructions on the screen. Following the animated screen, align the bottom pegs of the cassette up into the slots, then lock the top of the cassette into place. You will hear a “click” when the cassette has been installed correctly.

The proper loading sequence of Kangaroo OMNI™ Feeding Sets is shown on the pump display as follows:



Cleaning and disinfection

Cleaning the Kangaroo OMNI™ Enteral Feeding Pump

It is recommended that the pump be cleaned for a minimum of 30 seconds after each feeding-set use to prevent bacterial contamination. Failure to clean the pump can interfere with the pump rotor and sensor, which can increase the occurrence of errors and warning alarms.

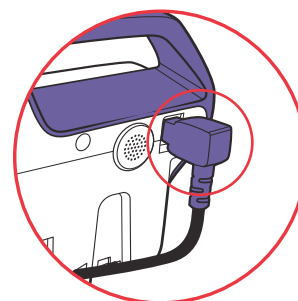


Inspect the device for any visible soil immediately following usage and/or procedure. If visible soil is present, wipe the pump with a paper towel moistened with a 20:1 ratio of water-to-detergent mixture, removing all visible soil. Use a brush to remove soil from hard to reach crevices.



To disinfect the Kangaroo OMNI™ Enteral Feeding Pump, use at least two 70% isopropyl alcohol, lint-free wipes or wipes saturated with 10% bleach solution as necessary to maintain visual wetness.

Gently clean and dry the occlusion sensor region.



CAUTION: The power adapter will be damaged if cleaned with a wet cloth, placed under running water or submerged in liquid. If cleaning is necessary, unplug from the outlet and wipe the exterior surfaces of the AC adapter with a non-abrasive dry or slightly damp cloth. Allow excess moisture to evaporate prior to use.

Accuracy

Specifications

Standard formulas: The Kangaroo OMNI™ Enteral Feeding Pump is designed to meet the accuracy specifications of +/- 5% or 0.5 mL/hr, whichever is larger.

Thick formulas: The Kangaroo OMNI™ Enteral Feeding Pump is designed to meet the accuracy specifications of +/- 10% or 1.0 mL/hr, whichever is larger, when used with thick formulas. Thick formulas are defined as enteral fluids of smooth consistency that would be categorized as Level 2, 3 or 4 drinks within the International Dysphagia Diet Standardization Initiative (IDDSI) framework. IDDSI is an internationally recognized framework that can be used to categorize the viscosity of various foods and liquids. This framework can be useful when trying to define thick or blenderized tube feeds.

Please see the **Safety & Warnings** section of the Kangaroo OMNI™ Enteral Feeding Pump Instructions for Use for additional information.

Correct fluid level (hang height)

Make sure to hang the feeding bag or feeding container so the highest level of enteral fluids is 10 inches (25.4 cm) above Kangaroo OMNI™ Enteral Feeding Pump. Greater or lesser differences can impact accuracy.

Thick formula and food thickness

Thick formulas, such as blenderized tube feeds, have a wide variation of viscosity or thickness that can affect accuracy.

Some enteral formulas, especially blenderized tube feeds, contain chunks, seeds or lumps that may increase the risk of occlusion in a feeding pump. It is important that enteral fluids are homogenous and have a smooth consistency when using a feeding pump.

Other considerations

Powder formulas must be thoroughly mixed to avoid clumps that can block the pump's rotor. Air bubbles and foam caused by too much mixing can cause a Feed Error alarm. After disconnecting the patient from the tubing, prime the pump to move the air bubbles or blockage through the tube. Once the air bubbles are out of the occlusion sensor region, restart feeding.

Temperature

It is recommended to operate at 5-30 degrees C (41-104 degrees F) Ambient temperatures can impact formula temperatures, potentially affecting enteral feeding pump accuracy.

Accuracy

Feeding set reuse

The Kangaroo OMNI™ Feeding Set should be replaced after 24 hours from initiation of feeding. This ensures that the Kangaroo OMNI™ Enteral Feeding Pump is operating within specified parameters and prevents bacterial growth that could be a hazard to the patient.

Note: Do not reuse feeding sets for more than one patient.

Back pressure

Back pressure or resistance generated during pump operation is created from factors including, but not limited to, thick fluids and small French-size feeding tubes, which can affect flow rate.

Thick formula can be used with access devices 10 Fr size or greater that are ENFit™ compatible when feeding at rates 200 mL/hr or less, and with access devices 12 Fr size or greater that are ENFit™ compatible when feeding at higher rates.

Pump status indicators



The Kangaroo OMNI™ Enteral Feeding Pump status LED indicator lights on the upper right of the pump screen provide a quick visual indication of the pump's status. There are five LED light patterns to know.

● **Solid green = pump running**

A solid green light means the pump is running normally.



Blinking green = ready

A blinking green light indicates the pump is ready to provide nutrition.



Solid yellow = information

A solid yellow light is a **low-priority alarm**: The pump is still running normally, but you must take action soon or else it will begin to not function properly.



Blinking yellow = caution

A blinking yellow light indicates a **medium-priority alarm**: The pump has stopped delivering nutrition, and you need to take action before the pump will run normally again.



Blinking red = critical warning

A blinking red light indicates a **high-priority alarm**: The pump has stopped delivering nutrition and will be out of service until the issue is resolved.

Common alarms

Now that you know about the different pump status indicators, it is time to understand the alarms associated with them.

This section will explain the Kangaroo OMNI™ Enteral Feeding Pump common notifications and alarms and how to quickly resolve them.



Blinking green notifications

Feed complete

Definition: A successful feed occurred.

Resolution: Press **Done**.



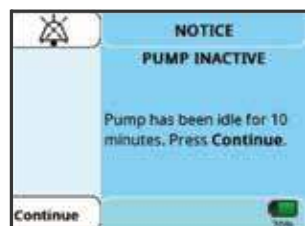
Feed incomplete

Definition: A feed is interrupted before the entire nutrition amount is delivered.

Resolution:

- Press **Continue Feed** to continue the feeding regimen.
- Press **Restart Feed** to begin a new feeding regimen.

Solid yellow alarms



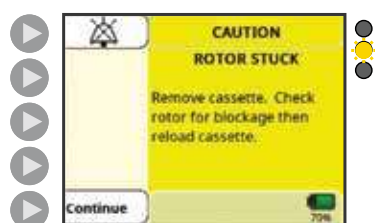
Pump inactive

Definition: The pump has not been actively running for more than 10 minutes.

Resolution: Press **Continue** to return to the previous screen.

Common alarms

Blinking yellow alarms



Rotor stuck

Definition: Appears when the Kangaroo OMNI™ Enteral Feeding Pump detects an unusual amount of resistance on the rotor, typically caused by enteral fluids or contaminant build-up.

Resolution:

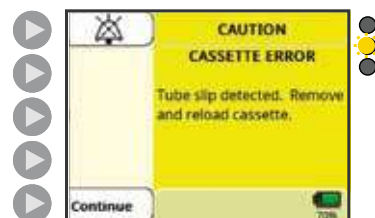
1. Ensure the pump is unplugged from an electrical outlet.
2. Clean the rotor by wiping it down with a wet cloth.
3. If alarm continues, press **Power Off** to stop operation and use a different Kangaroo OMNI™ Enteral Feeding Pump.

Cassette dislodged

Definition: This alarm appears when the cassette is not properly loaded in Kangaroo OMNI™ Enteral Feeding Pump or an attempt was made to remove the set from the pump before the valve was in the home position.

Resolution:

1. Reload the cassette and press **Continue**.
2. If alarm continues, replace Kangaroo OMNI™ Feeding Set.
3. If alarm continues after replacing Kangaroo OMNI™ Feeding Set, press **Power Off** to stop operation and use a different Kangaroo OMNI™ Enteral Feeding Pump.



Cassette error

Definition: This appears when the Kangaroo OMNI™ Enteral Feeding Pump has detected an unusual operating condition.

Resolution:

1. Remove the cassette.
2. Inspect cassette for irregularities.
3. Check the rotor region for debris and ensure that the cassette has been used for less than 24 hrs.
4. After correcting irregularities, reload the cassette.
5. If alarm continues, replace the Kangaroo OMNI™ Feeding Set.
6. If alarm continues after replacing Kangaroo OMNI™ Feeding Set, press **Power Off** to stop operation and use a different Kangaroo OMNI™ Enteral Feeding Pump.

Common alarms

Blinking yellow alarms (continued)

Feed error

Definition: The feed error screen appears when the feed bag is empty or there is a clog, kink or excessive foam/bubbles in the tubing between the feed bag and the pump.

Resolution:

1. Check to see if the feed bag is empty.
If the bag is empty:
 - a. Refill the bag.
 - b. Press **Continue** and prime the pump to prepare for next feeding.
 - c. Patient must not be connected to Kangaroo OMNI™ Enteral Feeding Pump when priming is performed.
 - d. Prime the pump for next feed.
2. If alarm continues, replace Kangaroo OMNI™ Feeding Set.

Backup plans:

1. If the alarm continues, ensure the pump is unplugged from an electrical outlet.
2. Remove the cassette.
3. Clean and dry the occlusion sensor region.
4. Reload the cassette.
5. If alarm continues, replace Kangaroo OMNI™ Feeding Set.
6. If alarm continues after replacing Kangaroo OMNI™ Feeding Set, press **Power Off** to stop operation and use a different Kangaroo OMNI™ Enteral Feeding Pump.

Flush error

Definition: The flush error screen appears when the flush bag is empty or there is a clog or a kink in the tubing between the flush bag and the pump.

Resolution:

1. Check to see if the flush bag is empty. If the bag is empty:
 - a. Refill the bag.
 - b. Press **Continue**.
 - c. Ensure a patient is NOT connected to the feeding pump.
 - d. Prime the pump for next flush.
2. Please note: Always prime the flush tubing before the feed tubing when using Kangaroo OMNI™ Feed Sets with Flush Bags. Priming the flush tubing after priming the feed tubing will introduce air in the tubing after the feeding solution, which will require the feed tubing to be primed again to remove the air.

If the bag is not empty:

1. Check the bag and tubing for air bubbles or blockages.
2. Press continue and prime the pump to move the air bubbles or blockage through the tube. Disconnect patient from tubing before priming.
3. Once the air bubbles are out of the occlusion sensor region, restart feeding.

Continued on next page

Common alarms



Blinking yellow alarms (continued)

Flush error *(continued)*

Backup plans:

1. If the alarm continues, ensure the pump is unplugged from an electrical outlet.
2. Remove the cassette.
3. Clean and dry the occlusion sensor region.
4. Reload the cassette.
5. If alarm continues, replace Kangaroo OMNI™ Feeding Set.
6. If alarm continues after replacing Kangaroo OMNI™ Feeding Set, press **Power Off** to stop operation and use a different Kangaroo OMNI™ Enteral Feeding Pump."

Patient tube blocked

Definition: The Patient Tube Blocked alarm appears when the feeding solution is no longer being delivered because of a clog between Kangaroo OMNI™ Enteral Feeding Pump and the patient.

Resolution:

1. Check tubing between Kangaroo OMNI™ Enteral Feeding Pump and patient to locate the cause of the blockage and clear if possible.
2. Once blockage is cleared, press **Continue** and restart feeding.

Backup plans:

1. If the alarm continues, ensure the pump is unplugged from an electrical outlet.
2. Remove the cassette.
3. Clean and dry the occlusion sensor region.
4. Reload the cassette.
5. Press **Continue** and restart feeding.
6. If alarm continues, Replace Kangaroo OMNI™ Feeding Set.
7. If alarm continues after replacing Kangaroo OMNI™ Feeding Set, press **Power Off** to stop operation and use a different Kangaroo OMNI™ Enteral Feeding Pump.

Common alarms



Blinking red alarms

System error

Definition: The System Error appears when there is a general error in the system.

Resolution:

1. Press **Restart Pump**.
2. If error persists after pump is turned off and back on, document the number code on the screen and call Customer Service.

For further assistance

Please refer to the Instructions for Use for a complete list of notifications, alarms and resolution instructions. A copy of the Instructions for Use can be accessed via the QR code found on the Quick Reference Guide packaged with the Kangaroo OMNI™ Enteral Feeding Pump or online at mykangaroolearning.com.

We're with you every step of the way. By your side and beyond.

Visit mykangaroolearning.com* for setup and troubleshooting videos and additional resources that can help you get the most out of your Kangaroo OMNI™ Enteral Feeding Pump.

For additional assistance, please refer to your Instructions for Use, contact your Cardinal Health sales representative or call Customer Service.

*Not available in all countries

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