Kangaroo ePump™ Enteral Feeding Pump

Flushing Mode Operation "Flushing Set Required" Directions For Use

Battery Operation

Unplugging the pump from the AC line will automatically put the pump on battery power. To recharge the battery, plug the pump into an AC wall outlet. Pump will automatically begin charging.

General Instructions

1. Fill or spike feeding container and water bag prior to setting up pump.
2. Turn pump on – Press **Power** button in lower right-hand corner.
3. **In order to achieve proper accuracy, the bottom of the feeding set bag must be 18 inches above the top of the feeding pump.**
4. Select ▶ **"Keep Settings"** or ▶ **"Clear Settings"** (for day to day use with the same feeding regimen the ▶ **"Keep Settings"** option should be selected).
5. Load the set per diagram. **Do not overstretch tubing.**

Priming the Pump

1. Press ▶ **"Prime Pump"** to access the pump priming options.
2. Press ▶ **"Auto Prime"** to automatically prime the pump set. The Pump will quickly prime both feed and flush lines starting with the flush line. The formula will stop before reaching the end of the feeding line.
3. Press the ▶ **"Hold To Prime"** menu selections to manually top off the line.
4. Press ▶ **"Done"**.

Setting the Feed Rate

1. Select ▶ **"Adjust Feed"** then ▶ **"Feed Rate"** use the buttons on the left to program the pump from 1 to 400 in increments of 1 mL. Select ▶ **"Enter"** when desired rate is set.

> *Note:* **the Volume To Be Delivered "VTBD" Rate** *is an Optional Feature*
>
> Only use the "VTBD" option if you want the pump to stop and alarm once a set amount of formula is delivered.
>
> - Select ▶ **"Feed VTBD"**. Use the buttons on the left to program the VTBD from 1 to 3000 in increments of 1 mL. Select ▶ **"Enter"** when desired VTBD is set. Select ▶ **"Done"**.

Setting the Flush Rate

1. Select ▶ **"Adjust Flush"** then ▶ **"Flush Volume"** to set the volume of water per flush cycle to be administered from 10 to 500 in increments of 1mL. Select ▶ **"Enter"** when desired rate is set.
2. Select ▶ **"Flush Interval"** to define the time interval between the start of each flushing cycle from 1 to 24 hours in increments of 1 hour. Select ▶ **"Enter"**, Select ▶ **"Done"**.
3. Select ▶ **"Run"**. You will notice a small drop 💧 scrolling down the screen when running.

Re-Priming the Pump After the Feed Bag Empties

1. A pump set bag that has been emptied will trigger the **Feed Error** screen. In this condition the pump set bag can be refilled to continue the feeding, but only after the pump set has been re-primed.
2. Disconnect the feeding line from the patient.
3. Refill the bag.
4. Press ▶ **"Continue"** to begin the pump Running.
5. Press ▶ **"Hold"**, then press ▶ **"Adjust Settings"**, then press ▶ **"Prime Pump"**.
6. Press ▶ **"Hold To Prime Flush"** until the water has reached the valve in the pump.
7. Press ▶ **"Hold To Prime Feed"** until formula reaches the stepped connector at the end of the set.
8. Press ▶ **"Done"**, then select ▶ **"Run"**

To Change Rate or Clear Volume

1. Select ▶ **"Hold"**.
2. Select ▶ **"Clear Vol"** to clear the volume.
3. Select ▶ **"Adjust Settings"** to adjust all settings.
4. Select ▶ **"Run"** to return to normal operations.

Pump sets should not be reused after 24 hours of initial usage.

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Troubleshooting Guide

Listed below are some of the probable causes of alarm conditions and their corrections.

Menu Selections

Programming & Menu Selection Buttons

Status LEDs
Red=Error
Yellow=Hold/Pause
Green=Normal Operation

Power Button

SYMPTOM	PROBABLE CAUSE	CORRECTIONS
Hold Error	Pump in **HOLDING** mode for more than 10 minutes.	Press ▶ **CONTINUE** to return to **HOLDING** screen, or press and hold the Power button to turn off. Several options are available from the **HOLDING** screen, such as **RUN** or **ADJUST SETTINGS.**
Flow Error	Occlusion in pump-patient line. (downstream occlusion)	Check for and correct the occlusion in the line between pump and patient. Replace Pump Set if error cannot be resolved.
Feed Error	Empty bag or occlusion in bag-pump line. (upstream occlusion)	Check for empty bag and refill, or check for and correct the occlusion in the line between the pump and feed bag. Replace Pump Set if error cannot be resolved.
Flush Error	Empty bag or occlusion in flush line.	Check for empty bag and refill, or check for and correct the occlusion in the line between the pump and flush bag. Replace Pump Set if error cannot be resolved.
Flow Error Use > 24 Hrs	Pump Set in use beyond recommended length of time.	Informational warning message blinks on upper left of screen. It is recommended that the Pump Set be replaced.
Pump Set Dislodged	Pump Set not properly loaded to pump.	Check black ring retainer (MISTIC) and valve; reload Pump Set and restart pump to continue. Replace Pump Set if error cannot be resolved.
Battery Low	Battery charge too low.	Immediately plug pump into A/C outlet to recharge battery and to provide power for pump.
Rotor Error	Pump Set tubing not properly loaded on rotor, or some other unusual rotor operating condition.	Check that the tubing is loaded on the rotor and that it is not damaged, torn, etc. Reload tubing or replace Pump Set.
System Error	General error caused by many factors. See Manual for error list.	Power down pump and attempt restart to clear error. Call customer service with screen code if error cannot be resolved.

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