



# Companion™ ClearStar™ Pump

The Companion™ ClearStar™ Pump is used for enteral nutrition and is adequate for adult patients who can tolerate a flow rate of 1 to 300 mL/h and for pediatric patients on the advice of a pediatrician. The pump is designed to deliver only liquid enteral nutrition products.

## Special Features

### Small size

Companion™ ClearStar™ Pump is small and lightweight (0.6 kg and charger, 0.7 kg). With the Ambulatory Transporter, a patient can easily carry the pump and up to 500 mL of enteral formula during routine activities.

### Automatic clog-clearing

Companion™ ClearStar™ automatically clears most clogs in the distal tubing by applying gentle, pulsating pressure without user intervention.

### Unique cassette design

Cassette with bellows snaps in for easy loading and prevents product free flow.

## Control Dial Settings

### SET DOSE

Allows dose to be limited.

- Dose can be set from **1 to 9999 mL**
- Completion of this dose will trigger the **doSE** alarm
- Pump will operate without a dose selected (0 mL) if this feature is not necessary for the patient

### SET RATE

Allows flow rate to be set.

- Flow rate can be set from **1 to 300 mL/h** (accuracy  $\pm$  10% or 0.5 mL, whichever is greater)

### TOUCH PADS

Select value of flow rate from 1 to 300 mL/h in 1 mL increments.

### OFF/CHARGE

Stops all pump functions.

- Battery always charges when plugged
- Pump will retain rate, dose and volume fed values when turned off and unplugged

### LIGHT

Temporarily illuminates display panel while on battery power.

### RUN

Activates feeding.

- Visual display shows RUN flashing and rate of flow (mL/h) indicates that the pump is running

### HOLD

Stops pump action and audio alarm.

- Does not erase previous commands or memory function

### VOLUME FED

Displays accumulated numerical value of volume fed.

- Stops pump function
- When volume fed reaches 9999 mL, numerical value turns to 0

### VOL CLEAR

Zero volume fed when pressed twice while on volume fed dial control.

### HI/LOW ALARM

Select volume of audio alarm.



# Alarms

| Visual Display                      | Condition or Problem   | Corrective Action   |
|-------------------------------------|--|---|
| <b>OCCLU</b>                        | Automatic clog clearing has not cleared the distal obstruction                             | <ol style="list-style-type: none"> <li>1 Turn control to <b>HOLD</b></li> <li>2 Check tubing for flow restriction</li> <li>3 Verify that occlusion is cleared after restarting the pump by verifying the presence of drops in the sight chamber</li> </ol>  |
| <b>EMPTY</b>                        | Empty feeding container or Missing/improperly seated cassette                              | <ol style="list-style-type: none"> <li>1 Turn control to <b>HOLD</b></li> <li>2 Check container and set tubing</li> <li>3 Assure that cassette is present and properly seated</li> </ol>  |
| <b>DOSE-numerical value</b>         | Volume fed = Set dose  | <ol style="list-style-type: none"> <li>1 Turn dial to <b>SET DOSE</b></li> <li>2 Press keypad arrow buttons to increase/zero dose setting</li> </ol> <p style="text-align: center;"><b>OR</b></p> <ol style="list-style-type: none"> <li>1 Turn dial to <b>VOLUME FED</b></li> <li>2 Press <b>VOL CLEAR</b> touch switch twice</li> </ol> |
| <b>SELECT RUN</b>                   | Pump was left in setting other than <b>RUN</b> or <b>POWER OFF</b> for more than 5 minutes | <ol style="list-style-type: none"> <li>1 Turn dial to <b>RUN</b></li> </ol> <p style="text-align: center;"><b>OR</b></p> <p><i>If additional time is needed,</i></p> <ol style="list-style-type: none"> <li>1 Turn dial to <b>RUN</b></li> <li>2 Turn dial to <b>HOLD</b></li> </ol>  |
| <b>LOW BATTERY</b>                  | Approximately 30 minutes of battery power remain   | <ol style="list-style-type: none"> <li>1 Turn control dial to <b>HOLD</b> to stop audio alarm</li> <li>2 Turn control to <b>RUN</b></li> <li>3 Seat pump in charger and connect to earthed/AC power immediately</li> </ol>  |
| <b>3 audio beeps when turned on</b> | Self-check   | <ol style="list-style-type: none"> <li>1 Wait</li> </ol>  |

## Maintenance

- Pump set and containers should be replaced as needed or at least every 24 hours, to reduce contamination. Ready-to-Hang® containers can be hung up to 48 hours if a new pump set is used.
- Pump set is for single patient use only.
- If the battery is rarely used, allow the battery to discharge to “Low Battery” at least once every 6 months and then fully recharge.
- Check pump functions as indicated in the Operating Manual.
- Check pump accuracy prior to initial use of new feed as indicated in the Operating Manual.
- Clean pump with warm, soapy water. Do not clean cassette cavity with alcohol.



## Support

Our team of professionals at Abbott Nutrition Helpline can answer your questions or assist you if you need to return or replace a pump. If you are calling to report a pump malfunction, the pump serial number and details of the malfunction will be required. If a patient was connected to the pump during the pump malfunction, you will be asked information on the patient’s status in order to comply with regulatory obligations.

**Abbott Nutrition Helpline • 1-866-767-7411 (option #1)**