Compat®
ENTERAL DELIVERY SYSTEM
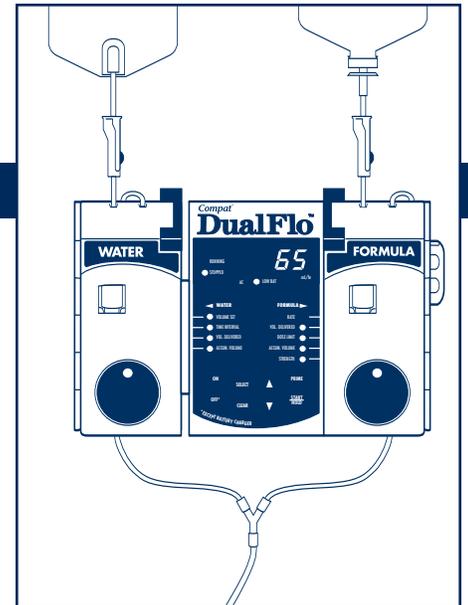
DualFlo® Enteral Pump
Model #199255

Summary of Directions for Use

Attach pump to IV pole using built-in pole clamp. Plug power cord into an electrical outlet if available.

Delivery Set installation

1. Close both roller clamps on the DualFlo® delivery set.
2. Open delivery set security doors by pulling the latch on each door.
3. Insert water drip chamber into water side drip chamber bracket, and formula drip chamber into formula side drip chamber bracket.
4. Stretch water set silicone tubing around rotor. Insert pump adapter into bridge. Place tubing into tubing guide, close and latch security door.
5. Repeat step 4 with formula set.

Program pump settings

1. Press **ON**. Previous pump settings are displayed first, followed by a display of Flow Rate.

Caution: Changes can only be made to parameters at the START of a new feeding protocol to avoid improper water delivery. This safety feature prevents unintentional changes to parameters while the pump is running.

If a change in parameters is desired, clear Volume Delivered or reset all parameters to default settings by pressing and holding CLEAR for 4 seconds when Rate is displayed.

2. **Clear Formula Volume Delivered:** Press **SELECT** until Vol. Delivered is displayed. Press **CLEAR** to reset to 0. This also resets Water Vol. Delivered to 0 (Accum. Volume is not affected).
3. **Check Dose Limit:** Press **SELECT** until dose limit is displayed. Press ▲ (increase) or ▼ (decrease) to change. If dose limit is not required, press ▼ until nOnE is displayed.
4. **Check Formula Accumulated Volume.** Press **SELECT** until Accum. Volume is displayed. If desired, press **CLEAR** to reset to 0.

Formula Strength (dilution)

5. **To dilute formula:** Press **SELECT** until Strength is displayed. Press ▲ or ▼ to set desired formula strength. (**FS** Full Strength, **³/4, ²/3, ¹/2, ¹/3, ¹/4** strength or **H20** only).

In steps 6-8, you have the option to select Hydration with Automatic Flush *or* Programmable Flush after dose is delivered.

Hydration with automatic 25 mL water flush

Administers water with formula over a selected time interval, concluding with an automatic 25 mL water flush.

6. **To set water volume:** Press **SELECT** until Volume Set is displayed. Press ▲ or ▼ to set the volume of water to be delivered. Adjustable in 1 mL increments from 0-500 mL.
7. **To select time interval for water delivery:** Press **SELECT** until Time Interval is displayed. Change time interval by pressing ▲ or ▼. Range is 2 to 12 hours in 1 hour increments. (Maximum delivery is 75 mL of water per hour.) **The final 25 mL of water volume is automatically flushed through the line before the conclusion of the selected time interval.**

Programmable Flush after dose is delivered

Water volume delivered after dose limit is reached. (For this feature, water is delivered at a rate of 375 mL/hr.)

8. Follow steps 6 and 7. When Time Interval is selected, press ▲ until **doSE** is displayed. The amount in Volume Set is delivered when formula dose limit is reached.

To deactivate Hydration and Programmable Flush, at Time Interval, press ▲ until **nOne** is displayed.

9. **Check Water Volume Delivered and Water Accumulated Volume.** Press **SELECT** until displayed. If desired, press **CLEAR** to reset to 0.
10. **Check Infusion Rate.** Press **SELECT** until Rate is displayed. To change, press ▲ or ▼.

Automatic Priming

11. Open both roller clamps, remove the luer adapter cap from the delivery set, and press **PRIME**. The Pump displays a series of P's during the 3 minute prime cycle. Formula is primed first, then water. A small amount of fluid may be discharged beyond the delivery set adapter. When prime is completed, an audible alarm sounds and the pump is put on hold.

Begin feeding

1. Connect delivery set adapter to the patients' enteral feeding tube. Press **START/HOLD** to begin feeding.
2. When feeding is complete, press **OFF**, and close both roller clamps on delivery set. Discard feeding container if empty.
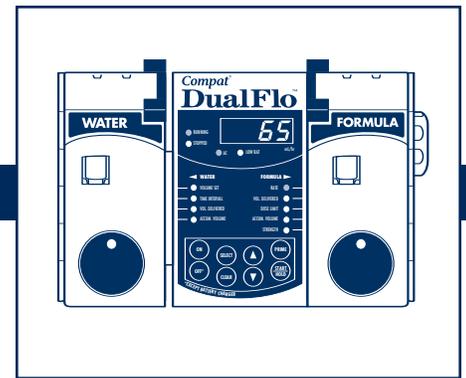
Verify the following before feeding

1. A COMPAT DualFlo® Delivery Set is being used.
2. The Delivery Set is properly placed in pump and doors are closed and latched.
3. The prescribed formula and water is input at the proper rate and/or volume.
4. Before starting pump, be sure both roller clamps are open on the Delivery Set.
5. Verify placement of the enteral feeding tube.

REFER TO DualFlo® OPERATING INSTRUCTION MANUAL FOR DETAILED INSTRUCTIONS FOR USE.

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Troubleshooting

When turned on, the COMPAT DualFlo® Enteral Feeding Pump is designed to provide audible and visible alarms under several conditions where desired performance cannot be maintained. Pressing **START/HOLD** after the alarm condition is identified silences the alarm and returns the pump to hold mode. Perform the necessary procedures to correct the alarm condition. Press **START/HOLD** again to resume normal operation.

TROUBLESHOOTING GUIDE

SITUATION	POSSIBLE CAUSE	SOLUTION
• Low battery alarm activated	• Battery charge is below performance level	• Plug cord into AC outlet
• **FEEd Err** (alarm activated)	• Formula or water container is empty	• Replace or refill formula or water container

	• Occlusion is restricting flow	• Identify point of occlusion and free up
		 - Pump Set
		  • kinked tubing
		  • blocked tubing
		  • closed roller clamp
		 - Feeding tube
		 - Feeding container

	• Drip chamber not properly placed in pump	• Assemble properly
	• Drip chamber walls coated with formula drops or condensation in sensor path	• Manipulate chamber to clear drops or condensation in sensor path
	• Flow sensors housing need cleaning	• Clean with cotton swab dampened with isopropyl alcohol
• **HoLd Err** (Pump is left on hold)	• Pump is on hold for more than 2 1/2 minutes	• Press START/HOLD button
• **doSE dEL** (Dose Complete)	• Pump has delivered preset volume	• Clear Volume Delivered and start a new dose.
• **no SEt** (alarm activated)	• Door not closed and latched	• Examine tubing for proper placement, close door
	• No set or improper set loaded	• Load an appropriate set
		• Assemble tubing properly around pump rotor. Close and latch door.

Cleaning

Routine cleaning of the COMPAT DualFlo® pump should be an ongoing process to ensure maximum performance.

Caution: Always disconnect the pump from an electrical outlet before cleaning to avoid electric shock hazard.

Clean the pump housing and rotor regularly using a cloth or sponge with warm soapy water. (Prolonged exposure to alcohol, household detergents or strong cleansers can result in damage to pump housing).

Clean drip sensors with a cotton swab and isopropyl alcohol.

Do not autoclave. Do not immerse pump in cleaning solutions.

Disinfecting

If it is necessary to disinfect the entire pump, the following is recommended:

General Disinfectants
  Cidex® (Arbrook Manufacturing)
  pHisohex® (Winthrop-Stearns, Inc. Corp.)
  Hibiclens® (Imperial Chemical Industries PLC)
  Isopropyl alcohol
AIDS and Hepatitis Disinfectants
  10% concentration of 5.25% sodium hypochlorite (household bleach)
Tuberculosis Disinfectants
  70% concentration of isopropyl alcohol

After application of these disinfecting agents, allow to air dry. These recommendations should not be substituted for official procedures that may differ among institutions. To determine the proper procedure in a particular institution, contact the Infection Control Department.

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