HOSPIRA

ACCLAIM

Infusion Pump

System
Operating
Manual
For use with list 12237-04

Hospira

Hospira, Inc.
Lake Forest, IL 60045, USA
430-96202-D01 (Rev. 08/01)
CHANGE HISTORY

<table>
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<td>430-96202-001 (Rev. 09/98)</td>
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<td>430-96202-002 (Rev. 10/98)</td>
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1.0 INTRODUCTION

This manual contains instructions for using the Acclaim™ encore Infusion Pump. For the purpose of making this manual easier to read, the Acclaim encore Infusion Pump will be simply referred to as the Acclaim encore, pump or device, throughout the remainder of this manual.

The Acclaim encore is an infusion system designed to meet the growing demand for hospital, alternate site, and home healthcare standardization. The Acclaim encore is designed to deliver parenteral infusions including whole blood or red blood cell components and enteral fluids using a wide variety of standard administration sets and fluid containers. These features make the Acclaim encore a convenient and cost-effective infusion system.

The pump may be mounted on an IV stand.

The following features are included in the Acclaim encore:

- Easy to use interface
- Large LCD screen
- Numeric keypad entry
- Micro/Macro fluid delivery from 1.0 – 99.9 mL/hr in 0.1 mL/hr increments and 100 – 999 mL/hr in 1 mL increments
- Panel back illumination on AC power
- Battery backup
- Wide range of standard administration sets and accessories including LifeShield™ needleless sets
- Primary/Secondary delivery including automatic piggyback
- Dose Calc for weight-based (mcg/kg/min) delivery rate settings
- TPN mode for easy taper calculation
- Purge feature for easy removal of air
- Three occlusion pressure settings
- Air-in-line sensitivity—three optional settings
Keep Vein Open (KVO)
Panel lockout switch
Anti free-flow protection using slide clamp and tubing latch
Automatic self-test
Infinite memory retention
Audible alarm volume selection
Alarm history
Epidural delivery
Volume/Time programming for automatic primary or secondary flow rate calculation
Optional secondary alert

1.2 Conventions

This section describes the conventions used throughout this manual:

<table>
<thead>
<tr>
<th>Convention</th>
<th>Application</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>Italic</td>
<td>Reference to a section, figure, or table</td>
<td>(See Figure 3-1, Priming Cassette)</td>
</tr>
<tr>
<td></td>
<td>Function or mode specific instructions</td>
<td>Primary Only: Attach an empty container...</td>
</tr>
<tr>
<td>[ALL CAPS]</td>
<td>Keys or touchswitches on the pump are described all caps in brackets</td>
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</tr>
<tr>
<td>ALL CAPS</td>
<td>Screen displays and pump labels (as appropriate)</td>
<td>BATTERY</td>
</tr>
<tr>
<td>Initial Caps lowercase</td>
<td>Emphasis</td>
<td>...sets are supplied Sterile and are for....</td>
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1.3 Warnings, Cautions, and Notes

Alert messages used throughout this manual are described below. Pay particular attention to these messages.

Specific Precautions can be found in Section 7 of this manual.

WARNING
THIS PUMP CAN ADMINISTER ONLY THOSE ANESTHETICS/ANALGESICS APPROVED FOR EPIDURAL ADMINISTRATION (AS INDICATED OR ALLOWED BY THE DRUGS’ FDA APPROVED LABELING). EPIDURAL ADMINISTRATION OF DRUGS OTHER THAN THOSE INDICATED FOR EPIDURAL USE COULD RESULT IN SERIOUS INJURY TO THE PATIENT.
2.0 GETTING STARTED

This section describes the initial checkout procedures for the Acclaim encore Infusion Pump.

2.1 Unpacking

CAUTION: Product damage may occur unless proper care is exercised during unpacking and checkout. Do not use the pump if it appears damaged in any way. The battery may not be charged upon receipt.

Inspect the pump packaging for visible shipping damage. If any damage is found, contact the delivering carrier immediately.

Carefully remove the pump from the shipping carton. Retain the packing slip and save all packing material in case the pump is damaged or fails the self-test and has to be returned to Hospira.

Inspect the pump thoroughly for damage.

CAUTION: If the pump appears to be damaged; contact Hospira (see Section 6.4, Technical Assistance).

2.2 Self-Test

CAUTION: Do not place the pump in service if it fails the self-test.

Connect the AC power cord to AC power, then confirm that the AC power indicator illuminates (below the ON/OFF key). Place a primed administration set into the tubing door (see Section 4.0, INSTRUCTIONS FOR USE). Close the door. Turn the pump on by pressing [ON/OFF].
The LCD screen displays all the symbols briefly. Verify that the screen display exactly matches the illustration shown at the left. If the LCD screen does not match the illustration, remove the Acclaim encore from service and contact the hospital repair facility or Hospira Technical Support Operations.

After the Acclaim encore completes self-testing, disconnect it from AC power and confirm that BATTERY displays on the screen (indicating battery power is in use). To ensure the battery is fully charged, remove the administration set, then reconnect the Acclaim encore to AC power for a minimum of eight hours in OFF (CHARGE) mode.

**Note:** If an alarm occurs during the self-test, note the message, then take the appropriate corrective action (see Section 6.0, TROUBLESHOOTING). Repeat the self-test. If the alarm recurs, remove the Acclaim encore from service and contact Hospira Technical Support Operations.

**Note:** The Acclaim encore provides an optional Dose Calc function. This function is not enabled (off) when shipped from the factory. When not enabled, the [Dose Calc] key does not respond to user input. To enable the Dose Calc function (per hospital protocol), contact your facilities Biomedical Department.

### 3.0 COMPONENTS

The front and back of the Acclaim encore Infusion Pump components are illustrated below.
3.1 Operating Keys

**PRIMARY DELIVERY:**

- **RATE**
  Selects the primary fluid delivery rate. The delivery rate is programmed using the numeric keypad. The rate range is 1.0 to 99.9 mL/hr in 0.1 mL/hr increments and 100 to 999 mL/hr in 1 mL/hr increments.

- **VTBI**
  Selects the primary fluid volume to be infused/delivered (VTBI). The VTBI rate is programmed using the numeric keypad. The VTBI range is 1.0 to 99.9 mL in 0.1 mL increments and 100 to 9999 mL in 1 mL increments.

**SECONDARY DELIVERY:**

- **RATE**
  Selects the secondary fluid delivery rate. The delivery rate is programmed using the numeric keypad. The rate range is 1.0 to 99.9 mL/hr in 0.1 mL/hr increments and 100 to 999 mL/hr in 1 mL/hr increments.

- **VTBI**
  Selects the secondary fluid volume to be infused/delivered (VTBI). The VTBI range is programmed using the numeric keypad. The VTBI range is 1.0 to 99.9 mL in 0.1 mL increments and 100 to 9999 mL in 1 mL increments.

**TPN:**

- **TPN**
  Delivers a set volume of fluid over a selected time (hours) including the ability to input taper up duration and taper down duration in minutes.

**DOSE CALC**
Delivers in mcg/kg/min dosing.

**GENERAL KEYS:**

- [NUMERIC KEYPAD] is used to program and change delivery rates and volumes.

**CLR VOL**

Cleans the total volume delivered (if pressed twice within 15 seconds).

**SILENCE**
Temporarily mutes audible alarms and stops the LCD screen backlight from flashing. The alarm display continues to flash. The audible alarm resumes after two minutes if the alarm condition is not corrected. To silence a low battery alarm, refer to the alarm tips in Section 6.1, Alarms.
4.0 INSTRUCTIONS FOR USE

This section describes the Acclaim encore Infusion Pump setup, including the use of appropriate administration sets.

4.1 Setup

WARNING

ARRANGE TUBING, CORDS, AND CABLES TO MINIMIZE THE RISK OF PATIENT STRANGULATION OR ENTANGLEMENT.

To set up the Acclaim encore, plug the power cord into an AC power outlet, unless temporary battery operation is desired.

Note: Use AC power whenever possible. To ensure a fully charged battery for emergency use, store the Acclaim encore with the pump connected to AC power.

Set the audio switch to the desired volume level by turning the switch to the upper position for the HIGH setting, the middle position for the MEDIUM setting, or to the bottom position for the LOW setting.

The Acclaim encore may be safely and conveniently mounted on an IV stand.

3.2 Additional Features

AUDIO SWITCH (located on the rear panel) is a toggle switch which has three sound-level settings.

LOCKOUT SWITCH (located on the rear panel) is a pushbutton (Push On, Push Off) switch that may be used to avoid unauthorized changes to the Acclaim encore settings.
4.2 Container and Set Preparation

WARNINGS

THE ACCLAIM encore CAN BE USED ONLY WITH HOSPIRA GRAVITY ADMINISTRATION SETS WITH GREEN SLIDE CLAMPS. THE USE OF ANY OTHER SET WILL RESULT IN A SLIDE CLAMP ALARM.

WHEN STARTING AN INFUSION, CONFIRM THAT THERE IS FLOW IN THE DRIp CHAMBER.

ALWAYS PLACE FILTERS DISTAL TO THE INFUSER TO MINIMIZE THE POSSIBILITY OF UNDERDELIVERY OR AN AIR-IN-LINE ALARM DUE TO OUTGASSING.

Note: To determine the appropriate Hospira administration set to use, see Section 7.5, Sets and Accessories.

Prepare the fluid container and administration set using aseptic technique. Remove protective coverings as the assembly progresses.

4.2.1 CONTAINER PREPARATION

To prepare an IV container:

Close the roller clamp on the administration set.

Expose the outlet of the IV container, then insert the piercing pin into the outlet with a twisting motion.

Suspend the container from the IV stand and fill the drip chamber to the score mark. Do not overfill the drip chamber.

Note: When changing containers, stop the infusion to avoid nuisance air in line alarms, then set up a new VTBI if necessary.

4.2.2 PRIMING THE PRIMARY SET

Note: The set must be manually primed before loading into the pump.

To prime the primary set:

Suspend the primary container administration set drip chamber about 18 inches above the pump.

Prepare and prime the set per the package instructions, taking special care to purge all air bubbles.

Note: Dislodge air from each backcheck valve and Y-site by inverting and tapping it sharply while the fluid is flowing. This helps avoid air in line alarms during operation.

Close the roller clamp.

Close the upper green slide clamp completely for free flow protection.

Note: For sets with backcheck valves, position slide clamp at least 4 inches below the upper backcheck valve.
Complete the procedure by loading the primed administration set into the pump (see Section 4.3, Loading the Tubing).

4.2.3 PREPARING FOR SECONDARY DELIVERY

WARNING

WHEN USING THE PUMP FOR SECONDARY DELIVERY, CONFIRM THAT THE FLUIDS BEING ADMINISTERED ARE CHEMICALLY AND PHYSICALLY COMPATIBLE.

To prepare for secondary delivery:

Confirm that a primary piggyback administration set is in place (set has an upper backcheck valve).

Suspend the primary container from the IV stand using the extension hook provided with the secondary set.

Prepare the secondary set per the package instructions. Attach a needle or blunt cannula (if appropriate) and prime the secondary set. Close the tubing clamp and suspend the secondary container from the IV stand.

Note: When using large secondary containers (500mL or above), confirm that the bottom of the secondary container is at least 7 inches above the fluid level in the primary container. Use additional extension hooks if necessary.

4.3 Loading the Tubing

To load the primed set into the Acclaim encore:

Open the pump door by lifting the door handle.

Connect the secondary set to the upper backcheck Y-injection site (or upper luer port) using aseptic technique (refer to the secondary set package instructions).

Note: At higher secondary rates (i.e. about 300 mL/hr or higher), flow may occur from the both primary and secondary containers. Under these conditions, apply an external clamp (such as a hemostat) to the primary line to prevent flow from the primary container. Closely monitor operation at end of secondary delivery and remove clamp just before secondary container empties, to avoid AIR-IN-LINE alarm.
NOTE: Please review Section 4 for complete instructions for steps 1-5.

1. Prime set.
2. Close roller clamp.
3. Close tubing completely by...
   - slide tubing all the way down to base of slide clamp
4. Open pump door.
5. Push yellow latch to open.
6. Insert closed slide clamp into green slot so base is flush.
7. Secure tubing in "tube guide."
8. Secure tubing in yellow clips.
9. Gently pull tubing and secure in sensor at bottom of pump. Use care not to stretch tubing.
10. Verify tubing is straight in "channel."
11. Close pump door.
12. Open roller clamp. Confirm NO FLOW in drip chamber.
13. Turn pump on.

WARNING: Improper flow or no flow could occur if tubing is NOT properly seated in channel.

Note: Do not use sharp objects such as fingernails, paper clips, or pens to push the tubing into the mechanism.

Note: When air is detected, it will normally be found near the air sensor at the distal end of the pump.

Note: If the administration set is removed from the pump, use a fresh segment of tubing when reloading the administration set back in the pump.
5.0 PROGRAMMING

The Acclaim encore has these delivery modes:

- Primary only delivery
- Secondary delivery (Piggyback Mode)
- Volume/Time delivery
- TPN mode delivery
- DOSE CALC delivery (Weight Based Mode) (optional)

When a rate and a VTBI are entered for the primary and no or incomplete settings are entered for the secondary, the Acclaim encore will deliver primary only.

When a rate and a VTBI are entered for both primary and secondary fluids (secondary delivery), the Acclaim encore completes secondary delivery before it begins primary delivery.

TPN mode delivery is used to deliver a set volume of fluid over a selected time duration in hours. TPN mode features an optional increasing of the delivery rate at the beginning of the programmed delivery (taper up) and an optional decreasing of the delivery rate at the end of the programmed delivery (taper down). The delivery rate in between remains constant.

NOTES

- The device retains all previous therapy settings and fluid delivery data in its memory until the settings are cleared by the user. Check the primary and secondary settings during the initial setup to confirm that all settings are correct. Confirm the proper clearing of the total volume delivered before use.

- Secondary (Piggyback) delivery is available ONLY when a primary delivery has been programmed. Secondary delivery is NOT available in TPN or DOSE CALC modes.

- To activate TPN, press the [TPN] key while pump is stopped.

- To activate Dose Calculation, you must press the [DOSE CALC] key.

- Once [START] has been pressed, the pump operating indicator on the front of the pump is illuminated. This is NOT an indication that fluid is flowing. Check the drip chamber to confirm flow.

- While delivery is in progress and a setup key is pressed, the parameter corresponding to the pressed key will be displayed for 15 seconds. If the [START] key is not pressed to confirm the change entered, the pump will revert back to the previous settings at which the pump was delivering fluid. The screen will continue to flash indicating a change had been attempted. Press [START] to stop flashing.

- Decimals cannot be entered for most values of 100 and greater, nor during entry of TPN mode parameters. In these instances, pressing the decimal key after entering three digits will enter the displayed whole number value. No further number keys will be accepted. Press [CLR] to enter a different number.

- The Acclaim encore provides an optional Dose Calc function. This function is not enabled (off) when shipped from the factory. When not enabled, the [Dose Calc] key does not respond to user input. To enable the Dose Calc function (per hospital protocol), contact your facilities Biomedical Department.
5.1 Primary Only Delivery

During programming, the selected units of measure flash.

To program the Acclaim encore for primary only delivery:

If pump is not already on, press [ON/OFF].

Note: After the self-test, the LCD shows the previously programmed settings and “CLEAR SETTINGS” flashes on the upper part of the screen. The screen will display the settings that were in memory before the device was stopped (primary, secondary, dose calc, or TPN infusions).

For new patient setup, press [CLR] to erase all previous settings, including the total volume delivered. Pressing any other key will retain previous settings.

Press the PRIMARY [RATE] key and enter the primary delivery rate using the numeric keypad (mL/hr).

Press the PRIMARY [VTBI] key and enter the primary volume to be infused (mL). The pump will give a 5 tone alert every minute if the [START] key is not pressed. This reminds the user that the [START] key has not been pressed.

Press [START] to begin primary only delivery. Make sure primary is infusing by observing drops falling in drip chamber of primary infusion.

(Optional): Set the panel lockout switch to LOCKED to avoid unauthorized tampering with the pump (see Section 5.12, Lockout).

To Titrate or change a primary delivery rate while infusing:
Press the PRIMARY [RATE] key, enter a new rate (mL/hr). Rate will flash to indicate it was changed. Press [START] (within 1.5 seconds) to begin infusing at the new rate. Verify flow in drip chamber.

Note: If the [START] key is not pressed (within 15 seconds) as confirmation of the new rate, the setting will return to the old rate and continue to flash. To stop flashing, press [START].

Note: If another delivery setting key was pressed prior to [START], the previous change entry is discarded as not confirmed.

Note: If you change your mind after entering a new delivery parameter, press [CLR] twice.

5.2 Secondary Delivery (Piggyback Mode)

During programming, the selected units of measure flash.

Note: Secondary delivery is not available without primary being programmed. It is also not available when in Dose Calc or TPN mode.

Note: Lower the primary container with the extension hook provided in the secondary set.

To program the Acclaim encore for secondary delivery:

If not already programmed, press the PRIMARY [RATE] key and enter the primary delivery rate using the numeric keypad (mL/hr).
Press the PRIMARY [VTBI] key and enter the primary volume to be infused (mL).

Press the SECONDARY [RATE] key and enter the secondary delivery rate (mL/hr).

Press the SECONDARY [VTBI] key and enter the secondary volume to be infused (mL).

Press [START] to begin secondary delivery. Make sure secondary is infusing by observing drops falling in drip chamber of secondary infusion.

After completion of the secondary volume, the pump automatically switches to the primary rate. If the secondary alert option is enabled, the secondary alert will sound.

Note: If secondary VTBI understates actual total secondary volume, the potential exists for delivering residual secondary volume at the primary rate.

(Optional): Set the panel lockout switch to LOCKED to avoid unauthorized tampering with the pump settings (see Section 5.12, Lockout).

To Titrate or change a secondary delivery rate while infusing:

Press the SECONDARY [RATE] key, enter a new rate using the numeric keypad (mL/hr). Rate will flash to indicate it was changed. Press [START] (within 15 seconds) to begin infusing at the new rate. Verify flow in secondary drip chamber.

Note: If the [START] key is not pressed (within 15 seconds) as confirmation of the new rate, the setting will return to the old rate and continue to flash. To stop flashing, press [START].

Note: If another delivery setting key was pressed prior to [START], the previous change entry is discarded as not confirmed.

Note: If you change your mind after entering a new delivery parameter, press [CLR] twice.

To stop a secondary delivery in progress:

Press the secondary [RATE] or [VTBI] key.

Press [CLR] or enter "0".

Clamp secondary tubing or disconnect from primary set.

Press [START]. Verify flow in primary drip chamber.

The primary infusion begins at this point.

5.3 Volume/Time Delivery

The Acclaim Encore can automatically calculate the primary or secondary delivery rate. To program the Device for Volume/Time delivery:

Press [STOP] (if infusing).

Press the PRIMARY or SECONDARY [VTBI] key and enter the volume to be infused using the numeric keypad (mL).
Press the same [VTBI] key again and enter the time duration of primary or secondary delivery (minutes). The range is 1-1440 minutes.

Press [START]. LCD shows the rate of infusion that the pump has calculated. Verify flow in drip chamber.

Note: If calculated rate is outside limits, a CHECK SETTINGS alarm will occur when [START] key is pressed. RATE will be displayed as four dashes. To correct, press [CLR] and enter values which produce valid rates.

Note: Volume/Time delivery is not available for MICROGRAM delivery.

Note: After a CHECK SETTINGS alarm or entry of new VTBI, TIME setting may change from existing value. [CLR] will set time to "0".

### 5.4 Dose Calculation for MICROGRAM Delivery (optional)

During programming, the selected units of measure flash.

Note: The Acclaim encore provides an optional Dose Calc function. This function is not enabled (off) when shipped from the factory. When not enabled, the [Dose Calc] key does not respond to user input. To enable the Dose Calc function (per hospital protocol), contact your facilities Biomedical Department.

Note: See section 9, Specifications, for range of valid entries.

Note: Secondary delivery is not available in this mode.

To program the Acclaim encore Infusion Pump for MICROGRAM Delivery:

Press [DOSE CALC] and enter the patient weight in kilograms.

Note: If you are not doing weight based dosing (you are doing mcg/min instead of mcg/kg/min) enter zero for the weight.

Press [DOSE CALC] and enter the drug amount (mg).

Press [DOSE CALC] and enter the diluent (mL).

Press [DOSE CALC] and enter the dose rate (mcg/kg/min) or (mcg/min).

Press [DOSE CALC] to display the computed rate (mL/hr).

If the Volume to be Infused (VTBI) is the same as the diluent volume, then press [START] to begin infusion.

If a different volume is to be infused, then press PRIMARY [VTBI] and enter the VTBI (mL).

Press [START]. The pump will ask you to confirm the drug concentration.
If the concentration is correct, press [START] or press [DOSE CALC] to begin changing the concentration and diluent.

Note: To review Microgram Delivery settings, repeatedly press [DOSE CALC] prior to pressing [START] that begins the infusion.
Note: Secondary delivery cannot be programmed when pump is in Dose Calc mode.

Note: If calculated rate (mL/hr) is outside limits, a CHECK SETTINGS alarm will occur.

5.5 To Titrate in MICROGRAM Dosing (optional)

Note: To perform this function, Dose Calc mode must be enabled.

To change dose:

Press [DOSE CALC], enter the new dose rate and press [START].

Note: If the [START] key is not pressed (within 15 seconds) as confirmation of the new Dose rate, the setting will return to the old Dose rate and continue to flash. To stop flashing, press [START].
Note: If another delivery setting key was pressed prior to [START], the previous change entry is discarded as not confirmed.
Note: If you change your mind after entering a new delivery parameter, press [CLR] twice.

To Titrate VTBI (while infusing):

Press Primary [VTBI], enter the new VTBI (mL) and press [START].

Note: If the [START] key is not pressed (within 15 seconds) as confirmation of the new VTBI, the setting will be discarded and the display will continue to flash. To stop flashing, press [START].

Note: If another delivery setting key was pressed prior to [START], the previous change entry is discarded as not confirmed.
Note: If you change your mind after entering a new delivery parameter, press [CLR] twice.

5.6 TPN Mode Delivery

During programming, the selected units of measure flash.

Note: See section 9, Specifications, for range of valid entries.

If pump is not already on, press [ON/OFF].

Note: After the self-test, the screen shows the previously programmed settings and "CLEAR SETTINGS" flashes on the upper part of the screen. The screen will display the settings that were in memory before the device was stopped (primary, secondary, dose calc, or TPN infusions).

For new patient setup, press [CLR] to erase all previous settings, including the total volume delivered. Pressing any other key will retain previous settings.

To Program the Acclaim encore for TPN delivery:

Press [TPN] and enter the total volume of fluid to be delivered using the numeric keypad (mL).

Press [TPN] again and enter the total time (hours) of the infusion.

If taper up or taper down mode is not required, press [START]. Verify flow in drip chamber.

If the taper up feature is desired, press [TPN] again and enter the taper up time (minutes).
5.8 Changing Containers

To change a container, press [STOP]. Spike the new container using aseptic technique. Press PRIMARY or SECONDARY [VTBI]. Enter in the new VTBI. Press [START] to continue the infusion. Verify flow in drip chamber.

5.9 Purge Feature

The Acclaim encore allows the user to purge a segment of air past the distal air sensor in the event of an air-in-line alarm. See Section 5.11, Optional User Settings, for information on enabling the purge feature. To purge the air, press and hold [CLR]. The amount of fluid that can be purged is dependent on the programmed delivery rate. No more than 1 mL can be purged at one time. Press [START] to continue the infusion. Verify flow in drip chamber. Remove air at the nearest Y site.

Purge Parameters and Limits

<table>
<thead>
<tr>
<th>Rate</th>
<th>Maximum Volume per Alarm Occurrence</th>
<th>Purge Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 - 5.9 mL/hr</td>
<td>0 mL</td>
<td>0 mL/hr</td>
</tr>
<tr>
<td>6 - 10.9 mL/hr</td>
<td>0.2 mL</td>
<td>50 mL/hr</td>
</tr>
<tr>
<td>11 - 60.9 mL/hr</td>
<td>0.5 mL</td>
<td>300 mL/hr</td>
</tr>
<tr>
<td>61 - 999 mL/hr</td>
<td>1 mL</td>
<td>999 mL/hr</td>
</tr>
</tbody>
</table>

Note: For any delivery rate less than 6 mL/hr, the purge feature will not function.

5.10 Clearing Total Volume

To clear the total volume that has been delivered:

Record total volume delivered in lower right corner of LCD screen.

Press [CLR VOL]. While the total volume delivered is flashing, press [CLR VOL] again.

Note: If the [CLR VOL] key is not pressed within 15 seconds of the total volume value flashing on the screen, the total volume delivered remains unchanged.

If the taper down feature is desired, press [TPN] again and enter the taper down time (minutes)

Press [START]. Verify flow in drip chamber.

Note: Fluid delivery will occur at a computed steady state rate based on the VTBI and the time entered. If calculated rate is outside limits, a CHECK SETTINGS alarm will occur.

Note: If the taper up time is entered, the rate will start at 1 mL/hr and increase until it reaches the steady state rate.

Note: If the taper down time is entered, the taper down delivery will begin when the remaining volume to deliver equals the volume determined for taper down. The rate will be decreased until completion of the taper delivery volume is reached.

To taper down for an emergency, press [TPN] while the infusion is in progress. Continue pressing [TPN] until the taper down screen appears.

Enter an emergency taper down time and press [START]. Verify flow in drip chamber. The taper down function immediately begins.

Note: After an emergency taper down, the taper VTBI may not be zero. To restart taper, check settings and press [START].

5.7 KVO Operation

When the primary VTBI or taper VTBI is complete or when an emergency taper down is performed, the VTBI COMPLETE alarm sounds and the delivery operation changes to KVO delivery. During KVO operation, fluid is delivered at 1.0 mL/hr.
### 5.11 Optional User Settings

The Acclaim encore has three settings that can be changed by the user:

- Occlusion level
- Purge feature
- Secondary alert

The new selections will remain until the user again changes them with this same procedure. The following table details the optional user settings.

**Note:** In order to access these features, the pump must be off.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Default</th>
<th>Description</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>L2 Occlusion</td>
<td>LOW: L1</td>
<td>LOW: L1 (approximately 6 psi)</td>
<td>Press [ON/OFF].</td>
</tr>
<tr>
<td>Purge Feature</td>
<td>On</td>
<td>The ability to purge during an air-in-line alarm</td>
<td>Press [ON/OFF].</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Press PRIMARY [VTBI] again to toggle on or off.</td>
</tr>
</tbody>
</table>

To check all three settings:

- Toggle from PRIMARY [RATE] to PRIMARY [VTBI] to SECONDARY [RATE] in order to check occlusion level, purge feature, and secondary alert, respectively. Press [ON/OFF] to turn pump off. Press [ON/OFF] again to begin operational programming.

**Air-in-Line Sensitivity**

The Acclaim encore features Air-in-line sensitivity settings that can be adjusted according to the intended use of pump. This feature is available through the General Service Mode and pump must be off.

Press [ON/OFF]. During the Self Test, press and hold the [0] key until the pump displays the software revision number.

Press SECONDARY [VTBI].

See Table on following page.
### 5.12 Lockout

To avoid unauthorized tampering with device settings, use the panel LOCKOUT switch (rear of pump). Press the white switch to activate the lockout. When the lockout switch is on, LOCKED appears on the LCD screen and all keys except the [STOP] key are inactive. If the [STOP] key is pressed, the infusion will stop and the pump will alarm. To enable the keypad and silence the alarm, press the LOCKOUT switch.

**Note:** If the lockout switch has been enabled while the Acclaim 6SCG is turned off, the screen will indicate LOCKED and no programming will be possible once the pump is turned on. In this case, the LOCKOUT switch must be unlocked.

### 5.13 Removal of Tubing

1. With pump stopped or off, close roller clamp.
2. Open the door handle.
3. Press the yellow tubing latch.
4. To remove the tubing from the tubing channel, begin at the bottom of the pump and proceed towards the green slide clamp slot.
5. Grasp the tubing on each side of the green slide clamp.
6. Pull the tubing straight out to remove the slide clamp (in its closed position) from the slide clamp slot.

**WARNING**

DO NOT PRESS THE GREEN SLIDE CLAMP SLOT TAB WHILE REMOVING THE TUBING AND SLIDE CLAMP. DOING SO COULD ALLOW FREE FLOW TO OCCUR.

### Feature | Description | Action
--- | --- | ---
Air-in-line alarm sensitivity setting | L1: Air-in-line alarms at 100 µL or greater of continuous air, or 200 µL of air in any consecutive 2 mL of fluid L2: Air-in-line alarms at 200 µL or greater of continuous air, or 500 µL of air in any consecutive 2 mL of fluid OFF: Air-in-line alarms at 1500 µL or greater of continuous air | Press SECONDARY [VTBI] Each time SECONDARY [VTBI] is pressed, the setting will toggle.

Factory setting is L2 and is the level used for most applications with adult patients. L1 may be indicated when used with increased need to monitor air-in-line. OFF indicated when using Air Eliminating Filters such as used in Home Care for TPN etc. or when infusing enteral fluids/nourishment.

To activate all setting changes, press [ON/OFF] to power off the pump. Press [ON/OFF] again to power on the pump, and the new settings will be active.
6.0 TROUBLESHOOTING

This section contains solutions to correct routine clinical conditions that may occur while using the Acclaim encore Infusion Pump that do not require assistance from hospital or Hospira Technical Support Operations personnel.

Note: The Acclaim encore provides an optional Dose Calc function. This function is not enabled (off) when shipped from the factory. When not enabled, the [DOSE CALC] key does not respond to user input. To enable the Dose Calc function (per hospital protocol), contact your facilities Biomedical Department.

Problems that may occur in the Acclaim encore are in two categories: alarms and malfunctions.

6.1 Alarms

During an alarm condition, the screen backlight and the alarm message flash while an alarm sounds. To clear an alarm condition:

Disable lockout if in use.

Press the [SILENCE] key. Observe the alarm message that is flashing.

Correct the alarm condition as specified in the table below, then press [START]. Verify flow in drip chamber.

Note: If the alarm condition is not corrected, the alarm will occur again two minutes from when the [SILENCE] key was pressed.
The following tips help correct the alarm conditions that may occur:

<table>
<thead>
<tr>
<th>MESSAGE</th>
<th>POSSIBLE CAUSE</th>
<th>CORRECTIVE ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIR IN LINE</td>
<td>Air detected distal to pumping chamber</td>
<td>1) Purge (if enabled). Press and hold down on CLR key until air is visually past air sensor. Evaluate and remove air appropriately. OR 2) Press [STOP], remove and reprim set, then restart.</td>
</tr>
<tr>
<td></td>
<td>See “Air Sensor” Note on page 18.</td>
<td></td>
</tr>
<tr>
<td>AIR IN LINE</td>
<td>Container empty</td>
<td>Change container and reprime set.</td>
</tr>
<tr>
<td>(CONT.)</td>
<td>Tubing not correctly loaded into sensor</td>
<td></td>
</tr>
<tr>
<td>CHECK DOOR</td>
<td>Tubing door open while pumping</td>
<td>Close door, then restart</td>
</tr>
<tr>
<td>CHECK SETTINGS</td>
<td>Primary rate or primary VTBI not set</td>
<td>Enter appropriate settings or press [CLR] key</td>
</tr>
<tr>
<td></td>
<td>Taper VTBI or taper total time = 0</td>
<td>OR</td>
</tr>
<tr>
<td></td>
<td>Taper steady state delivery rate is outside 1-999mL/hr</td>
<td>Press [ON/OFF] key twice to allow Clear Settings</td>
</tr>
<tr>
<td></td>
<td>Taper total time is less than the sum of taper time up and taper time down</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Emergency taper down is set to 0 during taper delivery</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Computed Rate &lt; 1 or &gt;999 ML/HR</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dose Calculation, Drug Amount, Diluent, or Dose is 0.</td>
<td></td>
</tr>
<tr>
<td>BATTERY</td>
<td>Approximately 30 minutes of battery power remains</td>
<td>Connect to AC power</td>
</tr>
<tr>
<td></td>
<td>Note: Pressing the [SILENCE] key mutes the audible alarm for 15 minutes</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Note: When the battery discharges, pumping stops and the alarm sounds continuously for three minutes before the pump shuts down completely</td>
<td></td>
</tr>
<tr>
<td>BATTERY OFF</td>
<td>Battery is not capable of supporting battery operation.</td>
<td>Replace Battery</td>
</tr>
<tr>
<td></td>
<td>Note: If Interruption of Infusion (due to power) poses a patient hazard, remove pump from service.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Note: Press [SILENCE] to clear BATTERY OFF message, turn the pump off, disconnect AC, correct problem, and reconnect AC.</td>
<td></td>
</tr>
</tbody>
</table>
### 6.3 Malfunctions

Upon detection of a malfunction, an "Er" and an error number appear on the screen and the audible alarm sounds.

To verify the malfunction:

- **Er**
- **108**

**Turn the pump off, then on to retest the pump.**

- If the malfunction recurs, press the [SILENCE] key and note the malfunction number.
- If the malfunction continues to recur, remove the Acclaim encore Infusion Pump from service.
- If the lockout switch is in use, disable the lockout switch to enable turning the pump off.

### 6.4 Technical Assistance

For technical assistance, product return authorization, technical training information, or to order parts, accessories, or manuals, contact Hospira Technical Support Operations:

1-800-241-4002

Send all authorized, prepaid returns to the following address:

Hospira, Inc.
Technical Support Operations
755 Jarvis Drive
Morgan Hill, CA 95037

Do not return the Acclaim encore Infusion Pump without prior approval from Hospira Technical Support Operations.

For technical assistance from outside the U.S., contact the nearest Hospira representative.

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### 6.2 Alerts

During interrupted programming of an infusion, an alert sounds every one minute if another key is not pressed. This will occur every minute up to five minutes. After five minutes, the STopped alarm will sound.

**Note:** This Alert will also occur when large digits are flashing to indicate incomplete titration. However, delivery will continue. Press [START] to clear this type of alert.

<table>
<thead>
<tr>
<th>MESSAGE</th>
<th>POSSIBLE CAUSE</th>
<th>CORRECTIVE ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCCLUSION</td>
<td>Clamp closed, Tubing kinked, Possible clotted catheter, Possible misloaded tubing, Proximal or distal occlusion</td>
<td>Open clamps, Unkink tubing, Check IV site, Assure tubing properly loaded in the tube channel, Check clamps, unlock tubing, or check IV site</td>
</tr>
<tr>
<td>STOPPED</td>
<td>No fluid delivery, no alarm conditions, and no key is pressed for five minutes</td>
<td>Restart or press [SILENCE] for an additional 5 minutes. Enter rate or VTBI settings, then press [START]. Verify flow in drip chamber</td>
</tr>
<tr>
<td>VTBI COMPLETE</td>
<td>Primary VTBI completed, Taper VTBI completed</td>
<td>Discontinue infusion, or change container and program new VTBI setting</td>
</tr>
<tr>
<td>LOCKED</td>
<td>[STOP] key pressed during fluid delivery while keypad is locked</td>
<td>Unlock pump, program accordingly, press [START], relock pump. Verify flow in drip chamber</td>
</tr>
<tr>
<td>MESSAGE</td>
<td>POSSIBLE CAUSE</td>
<td>CORRECTIVE ACTION</td>
</tr>
<tr>
<td>--------------</td>
<td>-----------------------------------------------------</td>
<td>-----------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>OCCLUSION</td>
<td>Clamp closed</td>
<td>Open clamps</td>
</tr>
<tr>
<td></td>
<td>Tubing kinked</td>
<td>Unkink tubing</td>
</tr>
<tr>
<td></td>
<td>Possible clotted catheter</td>
<td>Check IV site</td>
</tr>
<tr>
<td></td>
<td>Possible misloaded tubing</td>
<td>Assure tubing properly loaded in the tube channel</td>
</tr>
<tr>
<td></td>
<td>Proximal or distal occlusion</td>
<td>Check clamps, unlock tubing, or check IV site</td>
</tr>
<tr>
<td>STOPPED</td>
<td>No fluid delivery, no alarm conditions, and no key is pressed for five minutes</td>
<td>Restart or press [SILENCE] for an additional 5 minutes. Enter rate or VTBI settings, then press [START]. Verify flow in drip chamber</td>
</tr>
<tr>
<td>VTBI COMPLETE</td>
<td>Primary VTBI completed</td>
<td>Discontinue infusion, or change container and program new VTBI setting</td>
</tr>
<tr>
<td></td>
<td>Taper VTBI completed</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> KVO also displays on the screen indicating the KVO rate is in progress</td>
<td></td>
</tr>
<tr>
<td>LOCKED</td>
<td>[STOP] key pressed during fluid delivery while keypad is locked</td>
<td>Unlock pump, program accordingly, press [START], relock pump. Verify flow in drip chamber</td>
</tr>
</tbody>
</table>

### 6.3 Malfunctions

Upon detection of a malfunction, an “Er” and an error number appear on the screen and the audible alarm sounds.

To verify the malfunction:

- Turn the pump off, then on to retest the pump.
- If the malfunction recurs, press the [SILENCE] key and note the malfunction number.
- If the malfunction continues to recur, remove the Acclaim Encore Infusion Pump from service.
- If the lockout switch is in use, disable the lockout switch to enable turning the pump off.

### 6.4 Technical Assistance

For technical assistance, product return authorization, technical training information, or to order parts, accessories, or manuals, contact Hospira Technical Support Operations:

**1-800-241-4002**

Send all authorized, prepaid returns to the following address:

Hospira, Inc.  
Technical Support Operations  
755 Jarvis Drive  
Morgan Hill, CA 95037

Do not return the Acclaim encore Infusion Pump without prior approval from Hospira Technical Support Operations.

For technical assistance from outside the U.S., contact the nearest Hospira representative.
7.0 PRECAUTIONS

For optimum operation of the Acclaim encore Infusion Pump, observe the following precautions.

7.1 Artifacts

Nonhazardous, low level electrical potentials are commonly observed when fluids are administered using infusion pumps. These potentials are well within accepted safety standards, but may create artifacts on voltage sensing equipment such as ECG, EMG, and EEG machines. These artifacts vary at a rate that is associated with the infusion rate. If the monitoring machine is not operating correctly or has loose or defective connections to its sensing electrodes, these artifacts may be accentuated so as to simulate actual physiological signals. To determine if the abnormality in the monitoring equipment is caused by the infusion pump instead of some other source in the environment, set the infusion pump so that it is temporarily not delivering fluid. Disappearance of the abnormality indicates that it was probably caused by the electronic noise generated by the infusion pump. Proper setup and maintenance of the monitoring equipment should eliminate the artifact. Refer to the appropriate monitoring equipment system documentation for setup and maintenance instructions.

7.2 Healthcare Professional and Patient Related

Product checkout should be performed by qualified personnel only.

Arrange tubing, cords, and cables to minimize the risk of patient strangulation or entanglement.
Consult the drug container labeling to confirm drug compatibility, concentration, delivery rates, and volumes are all suitable for intermittent or continuous secondary or piggyback delivery mode.

Uncontrolled flow or no flow could occur if tubing not properly seated in the tubing channel.

Pull tubing straight, but do not stretch it during the loading process. Stretching tubing could result in underdelivery of fluids.

Always place filters distal to the infuser to minimize the possibility of underdelivery or an air-in-line alarm due to outgassing.

Before opening the tubing door, close the roller clamp on the primary set.

When starting an infusion, confirm that there is flow in the drip chamber after pressing the [START] key.

Setting the primary rate greater than the secondary rate will result in a more rapid infusion of any residual secondary drug remaining in the line.

When using the pump for piggyback delivery, confirm that the fluids being administered are chemically and physically compatible.

In vitro studies have suggested that packed red blood cells with unusually high hematocrit be diluted with blood-compatible fluids, such as 0.9% Sodium Chloride Injection, USP, to decrease hemolysis and increase flow rate.

To prevent freeflow, close the roller clamp on the primary set before removing the administration set from the pump.

Do not depress the green slide clamp slot tab while removing the tubing and slide clamp. Doing so could allow free flow to occur.

### 7.3 Epidural Administration

This device can be used to provide anesthesia or analgesia via the Epidural route for short-term infusion (up to 96 hours), with the following recommendations:

- Only anesthetic/analgesic agents approved for Epidural administration (as indicated or allowed by the drugs’ FDA approved labeling)
- Nylon catheter (Hospira List No. 1193) or a Teflon® catheter (Hospira List No. 6947)
- Pump sets labeled for Epidural use without injection or Y-sites
- Labeling (pump and sets) to indicate ongoing Epidural administration

**Note:** Facilities practicing epidural anesthesia/analgesia must be staffed and equipped to manage cardio-pulmonary resuscitation. Supplies should include oxygen, naloxone, and other appropriate resuscitative drugs and equipment. Continuous monitoring (e.g., oximetry) is recommended for the patient during epidural administration, as well as frequent patient observation for side effects (for up to 24 hours) following completion of drug administration by the epidural route. DELAYED RESPIRATORY DEPRESSION FOLLOWING CONTINUOUS EPIDURAL ADMINISTRATION OF PRESERVATIVE-FREE MORPHINE SULFATE HAS BEEN REPORTED.
7.4 Battery Operation

The battery may not be fully charged upon receipt. Connect the device to AC power for at least eight hours.

If the BATTERY alarm sounds, connect to AC power immediately, as the alarm indicates the battery is low.

7.5 Sets and Accessories

The Acclaim encore is compatible with a wide variety of Hospira administration sets.

**WARNING**

USE ONLY RECOMMENDED HOSPIRA GRAVITY SETS WITH GREEN SLIDE CLAMPS.

**Note:** Accessories are updated without notice. Contact a Hospira representative for current listings.

Guidelines for choosing recommended administration sets:

- When using administration sets with filters, only Hospira sets that include high pressure filters (i.e., can withstand up to 45 psig) should be used. The filter must be placed distal to the pump
- Standard 0.100 ID gravity sets with roller clamp distal to green slide clamp may be used with this pump
- Do not use:
  - Any sets without green slide clamps
  - Any burette sets with automatic shutoff valves or flapper valve sets
  - Any tubing that is .120 ID, .054 ID, .043 ID, or .033 ID
  - Any sets with flashback bulbs or latex sleeves on the distal end of the tubing

Special sets are available for the delivery of nitroglycerin, epidural infusion, 3-in-1 TPN, fats, enteral feedings, and blood.

Sets should be changed in accordance with current, recognized guidelines of IV therapy. Discard sets per hospital procedures.

IV Infusion sets with integral nonblood filters are not for use in the administration of blood, blood products, emulsions, suspensions, or any medications not totally soluble in the solution being administered. These medications may be administered through the lower Y-injection site, below the filter.

7.6 General

Possible explosion hazard exists if used in the presence of flammable anesthetics.

Product damage may occur unless proper care is exercised during unpacking and checkout. Do not use the device if it appears damaged in any way.

Do not place the device in service if it fails the self-test (see Section 2.2, Self-Test for detailed information).

Use of radio frequency emitting devices such as cellular telephones, and two-way radios in close proximity of this pump may affect its operation.

This unit may be affected when used in close proximity to some Electrosurgical Units (ESU) when used at high power settings. Be sure to place the pump and administration sets away from the ESU device and its cables.

The screen displays total volume delivered in 0.1 mL increments from 1.0 to 99.9 mL. 100 to 9999 mL are displayed in 1-mL increments. Any fraction of a milliliter delivered is not displayed, but is retained in memory.
8.0 CLEANING, MAINTENANCE, AND STORAGE

This section describes the cleaning, maintenance, and storage of the Acclaim encore Infusion Pump.

8.1 Cleaning and Sanitizing

For proper maintenance of the pump, observe the following cleaning and sanitizing guidelines.

CAUTIONS: To avoid mechanical or electronic damage, do not immerse the pump in any cleaning fluids or cleaning solutions.

Certain cleaning and sanitizing compounds may slowly degrade components made from some plastic materials. Using abrasive cleaners or cleaning solutions not recommended by Hospira may result in product damage. Do not use compounds containing combinations of isopropyl alcohol and dimethyl benzyl ammonium chloride.

Never use sharp objects such as fingernails, paper clips, or needles to clean any part of the pump.

Do not sterilize by heat, steam, ethylene oxide (ETO), or radiation.

To avoid pump damage, cleaning solutions should be used only as directed in the following table. The disinfecting properties of cleaning solutions vary; consult the manufacturer for specific information.
Establish a routine schedule for cleaning the Acclaim encore. To clean the pump:

Turn the pump off, then disconnect the Acclaim encore from AC power.

The exposed surfaces of the Acclaim encore may be cleaned with a lint-free cloth dampened with one of the other recommended cleaning solutions listed as follows or mild, nonabrasive soapy water.

<table>
<thead>
<tr>
<th>Cleaning Solution</th>
<th>Manufacturer</th>
<th>Preparation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Super Edisonite®</td>
<td>S. M. Edison Co.</td>
<td>Per manufacturer's recommendation</td>
</tr>
<tr>
<td>Vespene® II se</td>
<td>Calgon Vestal Laboratories</td>
<td>Per manufacturer's recommendation</td>
</tr>
<tr>
<td>Manu-Klenz®</td>
<td>Calgon Vestal Laboratories</td>
<td>Per manufacturer's recommendation</td>
</tr>
<tr>
<td>Formula C™</td>
<td>Diversey Corporation</td>
<td>Per manufacturer's recommendation</td>
</tr>
<tr>
<td>Household bleach</td>
<td>Various</td>
<td>Per hospital procedures; do not exceed one part bleach in ten parts water</td>
</tr>
<tr>
<td>Coverage™ HBV</td>
<td>Steris Corporation, a division of Calgon Vestal Laboratories</td>
<td>Per manufacturer's recommendation</td>
</tr>
<tr>
<td>Sporicidin®</td>
<td>Sporicidin International</td>
<td>Per manufacturer's recommendation</td>
</tr>
</tbody>
</table>

8.2 Battery Maintenance

CAUTION: If the BATTERY alarm sounds, connect the Acclaim encore to AC power immediately.

The Acclaim encore can be battery powered for emergency backup and temporary portable operation. A fully charged new battery will provide approximately eight hours of operation at 125 mL/hr or 1000 mL total volume delivered, whichever occurs first. The Acclaim encore should be operated on battery power for six continuous hours at least once every six months for optimum performance and battery life.

The battery charges whenever Acclaim encore is connected to AC power. If the Acclaim encore is turned off, recharge takes approximately eight hours. Recharge takes longer if the pump is turned on.

As a general rule, the more often the battery is partially discharged and recharged, the sooner it will need to be replaced. Consult a qualified hospital biomedical technician for battery replacement if necessary.

To maintain maximum battery charge and to prolong battery life, keep the AC power cord connected to AC power whenever possible.

8.3 Storage

To prolong the life of the Acclaim encore, observe the following guidelines:

- Turn the pump off
- Store the Acclaim encore away from excessive heat, cold, and humidity
- Store the Acclaim encore connected to AC power

8.4 Service

All servicing or adjustments to the Acclaim encore should be referred to qualified technical personnel. A Technical Service Manual may be ordered from Hospira Technical Support Operations.
## 9.0 SPECIFICATIONS

### PHYSICAL:
- **Dimensions:** Approximately 8.25H x 7W x 5.74D inches (excluding pole clamp)
- **Weight:** Approximately 7 lbs (with battery)
- **Casing:** High-impact plastic

### ELECTRICAL:
- **Power Requirements:** 100-130 VAC, 47/63 Hz, less than 35 W
- **Power Cord:** 10 ft. Hospital-grade AC power cord
- **Fuses:** 0.5 A, 250 V, Slow Blowing
- **Battery:** Sealed lead-acid, rechargeable 8 V battery, internal to device. Accessible for ease of field replacement, with leads and polarized connector
- **Battery Life:** A fully charged new battery will provide approximately eight hours of operation at 125 mL/hr or 1000 mL total volume delivered, whichever occurs first. The device should be operated on battery power for six continuous hours at least once every six months for optimum performance and battery life
- **Recharge:** The battery charges whenever the Acclaim encore is connected to AC power. If the pump is turned off, recharge takes approximately eight hours. Recharge takes longer if the pump is turned on.

### ENVIRONMENT:
- **Operating Temperature:** 15° to 35° C, 10% to 90% relative humidity
- **Temperature:** -20° to 60° C
- **Relative Humidity:** 10% to 90%
- **Atmospheric Pressure:** 0-10,000 feet (0-3,000m) or equivalent pressure

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10.0 WARRANTY

Subject to the terms and conditions herein, Hospira, Inc., herein referred to as Hospira, warrants that (a) the product shall conform to Hospira's standard specifications and be free from defects in material and workmanship under normal use and service for a period of one year after purchase, and (b) the replaceable battery shall be free from defects in material and workmanship under normal use and service for a period of 90 days after purchase. Hospira makes no other warranties, express or implied, as to merchantability, fitness for a particular purpose, or any other matter.

Purchaser's exclusive remedy shall be, at Hospira's option, the repair or replacement of the product. In no event shall Hospira's liability arising out of any cause whatsoever (whether such cause be based in contract, negligence, strict liability, other tort or otherwise) exceed the price of such product, and in no event shall Hospira be liable for incidental, consequential, or special damages or losses or for lost business, revenues, or profits. Warranty product returned to Hospira must be properly packaged and sent freight prepaid.

The foregoing warranty shall be void in the event the product has been misused, damaged, altered, or used other than in accordance with product manuals so as, in Hospira's judgment, to affect its stability or reliability, or in the event the serial or lot number has been altered, effaced, or removed.

The foregoing warranty shall also be void in the event any person, including the Purchaser, performs or attempts to perform any major repair or other service on the product without having been trained by an authorized representative of Hospira and using Hospira documentation and approved spare parts. For purposes of the preceding sentence, "major repair or other service" means any repair or service other than the replacement of accessory items such as batteries and detachable AC power cords.
In providing any parts for repair or service of the product, Hospira shall have no responsibility or liability for the actions or inactions of the person performing such repair or service, regardless of whether such person has been trained to perform such repair or service. It is understood and acknowledged that any person other than a Hospira representative performing repair or service is not an authorized agent of Hospira.

For customer service within the United States, contact:

1-877-9HOSPIRA or 1-877-946-7747

For technical assistance and product return authorization within the United States, contact:

1-800-241-4002

For additional technical assistance, including Technical Service Bulletins, technical training, and product information, visit the website at:

www.hospira.com

After authorization, ship prepaid product returns to the following address:

Hospira, Inc.
Technical Support Operations
755 Jarvis Drive
Morgan Hill, CA 95037

Note: Outside the U.S., contact your local Hospira sales office.

CAUTION: Federal (USA) law restricts this pump to sale by or on the order of a physician or other licensed practitioner.

WARNING

POSSIBLE EXPLOSION HAZARD EXISTS IF THE PUMP IS USED IN THE PRESENCE OF FLAMMABLE ANESTHETICS.

Acclaim Infusion Pump and LifeShield® are trademarks of Hospira, Inc. Teflon, Formula C, Mann-Klenz, Veaphene II®a, Super Edisouite, Coverence, and Sporicidin® are not registered trademarks of Hospira, Inc.

CSA is a registered trademark of the Canadian Standards Association. The use of NRTL/C adjacent to the CSA mark indicates that the product has been certified by CSA to U.S. and Canadian Standards. CSA has been accredited by the U.S. Occupational Safety and Health Administration (OSHA), as a Nationally Recognized Test Laboratory (NRTL).

I.V. sets not included

MEDICAL EQUIPMENT