

# CADD-Solis VIP™ 2120 Ambulatory Infusion Pump



21-2120-xxxx-yy CADD-Solis VIP PharmGuard™ Enabled Ambulatory Infusion Pump, 4 AA Batteries, Security Key, Product Literature

21-2127-xxxx-yy CADD-Solis VIP Manual Mode Ambulatory Infusion Pump, 4 AA Batteries, Security Key, Product Literature

## Technical Specifications

- › The CADD-Solis VIP (variable infusion profile) ambulatory infusion pump is designed to promote patient care and safety for a variety of adult and paediatric patients, as well as clinical care areas.
- › The CADD-Solis VIP PharmGuard Enabled pump can be programmed with a pump protocol configuration consisting of a therapy, qualifier and drug. The pump can deliver medication via patient-controlled analgesia (PCA), continuous, intermittent, variable stepped rate and tapered infusions. In addition, the PharmGuard Enabled pump has a factory library preloaded on the pump with additional safety limits and an efficient manual programming of each infusion.
- › The CADD-Solis VIP Manual Mode pump can deliver medication via PCA, continuous, intermittent, variable stepped rate and tapered infusions with an efficient manual programming of each infusion. No drug library functionality is available and is solely manual programming.

## Delivery Modes

- › **PCA** delivery is used for therapies that require a continuous rate of infusion or patient-controlled demand doses, or both, such as patient-controlled analgesia.
- › **Continuous** delivery allows the infusion of drug/fluid at a constant, programmed rate.
- › **Intermittent** delivery allows the infusion of a specific volume of drug/fluid at a regular, programmed interval.
- › **Step** delivery allows an incremental increase in infusion rate to a specified maximum infusion rate for a specified total infusion volume.
- › **Taper** delivery allows a plateau rate of infusion with the option of tapering at the beginning and/or end and has a programmable KVO rate at the end of the infusion.

## Designed to be easy to use and enable safe use at home

- › The CADD-Solis VIP ambulatory infusion pump is convenient for use at home with a small, portable design and easy-to-use interface.
- › The intuitive help screens enable troubleshooting at home and can limit the need for clinician intervention.
- › Colour-coded screens provide instant status of therapy progress.
- › CADD reservoirs help to support medication security and free-flow protection of fluid delivery.
- › Differentiated alarms by colour and sound with high (red), medium (amber), and low (blue) priorities.

## Range of pouches to help patient ambulate while receiving their infusion

### REUSABLE POUCHES

- › Backpack (3 L capacity) (A)
- › Backpack (1 L capacity) (B)
- › 250/500 mL Pump Pouch with waist belt and shoulder strap (C)
- › 50/100 mL Pump Pouch (D)
- › 250/500 mL Pump Pouch with waist belt (E)

### SINGLE-USE POUCHES

- › 50/100 mL Pump Pouch (F)
- › 250/500 mL Pump Pouch (G)



### General Pump Specifications

|                                               |                                                                                                                                                                                                      |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Indications                                   | Intravenous, intra-arterial, subcutaneous, intraperitoneal, perineural, surgical site, epidural space or subarachnoid space infusion                                                                 |
| Pump size                                     | 4.1 cm x 10.2 cm x 12.7 cm (1.6 in. x 4 in. x 5 in.) excluding cassette or other accessories                                                                                                         |
| Weight                                        | 595 g (21 oz.) including 4 AA alkaline batteries, excluding other accessories                                                                                                                        |
| Onboard protocol library                      | Stores up to 500 protocols                                                                                                                                                                           |
| Security                                      | Cassette/keypad lock and three customisable security access levels: keypad code, clinician code, and administrator code                                                                              |
| Accuracy                                      | +/- 6% (nominal)                                                                                                                                                                                     |
| Reservoir volume                              | 0 to 9,999 mL; programmable in 1 mL increments, displayed in 0.1 mL increments                                                                                                                       |
| Delayed start                                 | 0 to 96 hrs in 5 min increments                                                                                                                                                                      |
| Classification                                | CF<br>Class II                                                                                                                                                                                       |
| System operating temperature                  | 2°C to 40°C<br>36°F to 104°F                                                                                                                                                                         |
| System storage and transportation temperature | -20°C to 60°C<br>-4°F to 140°F                                                                                                                                                                       |
| Ingress protection                            | IP24 per IEC 60529                                                                                                                                                                                   |
| Power sources                                 | <ul style="list-style-type: none"> <li>› AC adapter</li> <li>› CADD-Solis rechargeable battery pack</li> <li>› Four AA alkaline batteries (for example, Duracell® PC1500/MN1500, IEC LR6)</li> </ul> |
| Battery life                                  | Alkaline battery – 124 hrs @ 5 mL/hr (continuous & PCA)<br>Rechargeable battery pack – 60 hrs @ 5 mL/hr (continuous & PCA)                                                                           |
| Pump alarms                                   | High priority<br>Medium priority<br>Low priority<br>Informational messages/alerts                                                                                                                    |
| Maximum infusion pressure                     | 1.86 bar<br>27.0 psi                                                                                                                                                                                 |
| High-pressure alarm threshold                 | 1.24 bar ± 0.62 bar<br>18 ± 9 psi                                                                                                                                                                    |
| Air detector alarm                            | Low<br>High                                                                                                                                                                                          |
| Warranty                                      | 2 yrs                                                                                                                                                                                                |

## Delivery Specifications

### PCA Delivery Specifications

|                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Programming units                                     | <ul style="list-style-type: none"> <li>› Milliliters (mL)</li> <li>› Milligrams (mg)</li> <li>› Micrograms (mcg)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                         |
| Concentration                                         | <b>mg/mL:</b> <ul style="list-style-type: none"> <li>› 0.1 to 0.5 mg/mL in increments of 0.1 mg/mL</li> <li>› 0.5 to 1 mg/mL in increments of 0.5 mg/mL</li> <li>› 1 to 15 mg/mL in increments of 1 mg/mL</li> <li>› 15 to 100 mg/mL in increments of 5 mg/mL</li> </ul> <b>mcg/mL:</b> <ul style="list-style-type: none"> <li>› 1 to 15 mcg/mL in increments of 1 mcg/mL</li> <li>› 15 to 100 mcg/mL in increments of 5 mcg/mL</li> <li>› 100 to 500 mcg/mL in increments of 100 mcg/mL</li> </ul> |
| Continuous rate                                       | 0 to 100 mL/hr (or the mg or mcg equivalent)                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| PCA dose                                              | 0 mL to 50 mL (or the mg or mcg equivalent)<br>Max delivery rate (continuous rate + PCA dose): 40 to 250 mL/hr                                                                                                                                                                                                                                                                                                                                                                                      |
| PCA dose lockout                                      | 1 min to 24 hrs in the following increments: <ul style="list-style-type: none"> <li>› 1 min for values between 1 and 20 min</li> <li>› 5 min between 20 min and 24 hrs</li> </ul>                                                                                                                                                                                                                                                                                                                   |
| Max doses per hour                                    | 1 to 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Delivery limit amount                                 | 0.1 to 1,900 mL (or the mg or mcg equivalent) in increments of: <ul style="list-style-type: none"> <li>› 0.01 mL from 0.1 to 0.5 mL</li> <li>› 0.1 mL from 0.5 to 100 mL</li> <li>› 1 mL from 100 to 1,000 mL</li> <li>› 10 mL from 1,000 to 1,900 mL</li> </ul>                                                                                                                                                                                                                                    |
| Clinician bolus                                       | 0 to 50 mL (or mg or mcg equivalent)                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Delivery limit method                                 | <ul style="list-style-type: none"> <li>› Delivery limit</li> <li>› Max doses per hour</li> <li>› Not in use</li> </ul>                                                                                                                                                                                                                                                                                                                                                                              |
| Delivery limit period                                 | 1 to 12 hrs in increments of 1 hr                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Max delivery rate, combined bolus and continuous rate | 40 to 250 mL/hr in increments of 1 mL                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| KVO rate                                              | <ul style="list-style-type: none"> <li>› 0 mL/hr</li> <li>› 0.1 mL/hr</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                    |

### Continuous Delivery Specifications

|                 |                  |
|-----------------|------------------|
| Continuous rate | 0.1 to 500 mL/hr |
| KVO rate        | 0.1 to 10 mL/hr  |

### Intermittent Delivery Specifications

|                      |                                 |
|----------------------|---------------------------------|
| Dose volume          | 0.1 to 1,000 mL                 |
| Dose duration        | 1 min to 24 hr                  |
| Dose cycle           | 10 min to 96 hr                 |
| Next dose start time | 0 to 96 hrs in 5 min increments |
| KVO rate             | 0 to 10 mL/hr                   |

### Step Delivery Specifications

|                      |                                                                       |
|----------------------|-----------------------------------------------------------------------|
| Initial rate         | 0.4 to 499 mL/hr                                                      |
| Plateau rate         | 0.4 to 500 mL/hr                                                      |
| Rate increment       | 0.4 to 499 mL/hr                                                      |
| Infusion volume      | 1 to 9,990 mL                                                         |
| Step duration        | 15 min to 24 hrs                                                      |
| KVO rate             | 0 to 10 mL/hr                                                         |
| Step infusion alerts | <ul style="list-style-type: none"> <li>› On</li> <li>› Off</li> </ul> |

### Taper Delivery Specifications

|                          |                        |
|--------------------------|------------------------|
| Infusion volume          | 1 to 9,990 mL          |
| Taper up                 | 0 min to 99:40 hr:min  |
| Taper down               | 0 min to 99:40 hr:min  |
| Infusion duration        | 10 min to 99:50 hr:min |
| KVO rate                 | 0 to 10 mL/hr          |
| Plateau rate upper limit | 0.1 to 500 mL/hr       |