CP CANE
MEDICAL TECHNOLOGY

COMPARISON TABLE BETWEEN
CRONO PAR PUMPS

Technical Characteristics		Crono PAR		Crono PAR 30		Crono PAR 50	
Operating mode		*FREE*	*AUTO*	*FREE*	*AUTO*	*FREE*	*AUTO*
Image							
Pump dimension		77 x 49 x 29 mm		80 x 47 x 30 mm		84 x 55 x 32 mm	
Weight		127 g (including battery and protective wings)		125 g (including battery)		139 g (including battery)	
Protective wings		Two removable wings that protect the reservoir		Not available			
Display		Liquid crystal display (LCD) 11 x 28 mm					
Battery		Lithium CR 123A 3V					
Battery life		Approx 100 infusions					
Single-use reservoirs		Dedicated with a 20 ml capacity and a "Luer-Lock" universal safety attachment		Dedicated with a 30 ml capacity and a "Luer-Lock" universal safety attachment		Dedicated with a 50 ml capacity and a "Luer-Lock" universal safety attachment	
Quantities that can be administered		Selectable, from 1 to 20 ml in 1 ml increments		Selectable, from 1 to 30 ml in 1 ml increments		Selectable, from 1 to 50 ml in 1 ml increments	
Shot volume		22 microlitres (shot: quantity administered for every rotation of the motor)		33 microlitres (shot: quantity administered for every rotation of the motor)		20 microlitres (shot: quantity administered for every rotation of the motor)	
Priming		Prime function is customized with 1.5 ml available. Function available only at the start of infusion					
Flow rate precision		+/- 2%		+/- 3%		+/- 3%	
Occlusion pressure		PL1: 2.5 bar +/-1.5 PL2: 4 bar +/-2 PL3: 5.5 bar +/-2		PL1: 2 bar +/-1 PL2: 2.5 bar +/-1 PL3: 3.5 bar +/-1.5		PL1: 2 bar +/-1 PL2: 2.5 bar +/-1 PL3: 3.5 bar +/-1.5	
Setting parameters	*Pump OFF*	Bolus dose volume Interval between boluses Setting F1, F2, F3 Partial volume Selection of pump version Keyboard lock	Clock Bolus dose volume Interval between boluses Setting F1, F2, F3 Flow rate during 24h Partial volume Selection of pump version Keyboard lock	Bolus dose volume Interval between boluses Setting F1, F2, F3 Partial volume Selection of pump version Keyboard lock	Clock Bolus dose volume Interval between boluses Setting F1, F2, F3 Flow rate during 24h Partial volume Selection of pump version Keyboard lock	Bolus dose volume Interval between boluses Setting F1, F2, F3 Partial volume Selection of pump version Keyboard lock	Clock Bolus dose volume Interval between boluses Setting F1, F2, F3 Flow rate during 24h Partial volume Selection of pump version Keyboard lock
	Pump ON	Selection F1, F2, F3	-	Selection F1, F2, F3	-	Selection F1, F2, F3	-

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Operating mode	*FREE*	*AUTO*	*FREE*	*AUTO*	*FREE*	*AUTO*
Setting reservoir type	Function not available.					
Setting the end of infusion acoustic signal	Function not available.					
Setting the partial volume	It's possible to setting from 1 to 20 ml in steps of 1 ml		It's possible to setting from 1 to 30 ml in steps of 1 ml		It's possible to setting from 1 to 50 ml in steps of 1 ml	
Keyboard lock levels	It's possible to program two different levels of access to the functions of the pump: Level 0 : no restriction Level 1 : allows only the switching on/off and priming of the pump. In condition of keylock on level 1, the display shows the lock symbol	It's possible to program two different levels of access to the functions of the pump: Level 0 : no restriction Level 1 : allows only the switching on/off, priming of the pump, and time setting In condition of keylock on level 1, the display shows the lock symbol	It's possible to program two different levels of access to the functions of the pump: Level 0 : no restriction Level 1 : allows only the switching on/off and priming of the pump In condition of keylock on level 1, the display shows the lock symbol		It's possible to program two different levels of access to the functions of the pump: Level 0 : no restriction Level 1 : allows only the switching on/off and priming of the pump. In condition of keylock on level 1, the display shows the lock symbol	It's possible to program two different levels of access to the functions of the pump: Level 0 : no restriction Level 1 : allows only the switching on/off, priming of the pump, and time setting In condition of keylock on level 1, the display shows the lock symbol
Flow rate	Three flow rate levels settable: F1: from 0.05 to 5.00 ml/h F2: from 0.00 to 5.00 ml/h F3: from 0.00 to 5.00 ml/h F2 and F3 can be disabled (oFF) Access to setting by pressing the d/P button.	Three flow rate levels settable from 0.05 to 5.00 ml/h Access to setting by pressing the d/P button.	Three flow rate levels settable: F1: from 0.05 to 5.00 ml/h F2: from 0.00 to 5.00 ml/h F3: from 0.00 to 5.00 ml/h F2 and F3 can be disabled (oFF) Access to setting by pressing the d/P button.	Three flow rate levels settable from 0.05 to 5.00 ml/h Access to setting by pressing the d/P button.	Three flow rate levels settable: F1: from 0.05 to 5.00 ml/h F2: from 0.00 to 5.00 ml/h F3: from 0.00 to 5.00 ml/h F2 and F3 can be disabled (oFF) Access to setting by pressing the d/P button.	Three flow rate levels settable from 0.05 to 5.00 ml/h Access to setting by pressing the d/P button.
Reading the number of infusions performed	It's possible to display the number of infusions performed.					
Resetting the number of infusions counter	The device contains two infusion counters: one total (non-resettable) and one partial (resettable).					
Pump in ON condition	During the infusion the display shows the time remaining until the end of infusion, with updates every minute.	During the infusion the display shows the time remaining until the end of infusion, with updates every minute, or the flow rate	During the infusion the display shows the time remaining until the end of infusion, with updates every minute.	During the infusion the display shows the time remaining until the end of infusion, with updates every minute, or the flow rate	During the infusion the display shows the time remaining until the end of infusion, with updates every minute.	During the infusion the display shows the time remaining until the end of infusion, with updates every minute, or the flow rate

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Operating mode	*FREE*	*AUTO*	*FREE*	*AUTO*	*FREE*	*AUTO*
Flow rate visualization	The device allows to visualize the flow rate by pressing the button -	The device allows to visualize the flow rate/delivery time by pressing the button -	The device allows to visualize the flow rate set by pressing the button -	The device allows to visualize the flow rate/delivery time by pressing the button -	The device allows to visualize the flow rate set by pressing the button -	The device allows to visualize the flow rate/delivery time by pressing the button -
Safety circuits	1 -Connection and locking of the syringe using a bayonet system and with lock on syringe.					
	2 - Mechanical protection against the reverse polarity of battery					
	3 - 13 different error messages (visual and acoustic) depending on the type of problem identified by the pump safety systems	3 - 14 different error messages (visual and acoustic) depending on the type of problem identified by the pump safety systems	3 - 13 different error messages (visual and acoustic) depending on the type of problem identified by the pump safety systems	3 - 14 different error messages (visual and acoustic) depending on the type of problem identified by the pump safety systems	3 - 13 different error messages (visual and acoustic) depending on the type of problem identified by the pump safety systems	3 - 14 different error messages (visual and acoustic) depending on the type of problem identified by the pump safety systems
	4 - Automatic stop at the end of infusion with acoustic signal, and indication on display.					
	5 - Acoustic signal and indication on display of occlusion, with manual restart of the infusion after occlusion removed.					
	6 - Two different battery thresholds alert the user when it is appropriate to replace the battery.					
Data storage	All settings, including the partial volume, are automatically stored in flash memory and are retained even if the device is left without a battery. The plunger position remains in memory even if the device is left without battery while in the OFF or StoP condition.					
Motor	Coreless DC motor, the rotation of which is controlled by an infrared system					
Electronic circuit	With two microcontrollers that increase reliability and safety.					
Ingress Protection degree	IP 42					