

Technology for health

CRONO 50 SC

REF: PS3AC



Ambulatory infusion pump

INTENDED PURPOSE

CRONO 50 SC is an ambulatory pump for subcutaneous infusion of drugs in palliative care of terminally ill patients.

PUMP DESCRIPTION

CRONO 50 SC is a medical device.

CRONO 50 SC is an union of high technology and innovative design. Its compact size and light weight make it ideal for home use. **CRONO** 50 SC uses 50 ml dedicated reservoirs.

An outstanding feature of the pump is its ability to allow 4 modes of administration:

- · Continuous;
- Bolus on request (PCA);
- · Clinical bolus (managed by the doctor);
- Combined (continuous + bolus on request + clinical bolus).

The pump is equipped with a settings lock to prevent incorrect or unauthorised administration.

The pusher mechanism, which operates directly on the rubber piston of the reservoir, enables the pump to combine high delivery pressure with excellent precision while administering the drugs.

CRONO 50 SC is provided with a liquid crystal display (LCD) which shows practical information to the doctor and patient about the settings, operations and diagnostics of the pump.

TECHNICAL FEATURES

Pump dimensions

55 mm (2.17 in)			
	84 mm	42 mm	
(3.31 in) (1.65 in			
139 g (4.90 oz.), including battery			
Lithium CR123A 3V (battery life about 90 infusions)			
Dedicated with a 50 ml capacity and a Luer-Lock universal se			
Programmable from 1 ml to 50 ml in increments of 1 ml			
Only available at the start of the infusion. The maximum of is 1.5 ml			

	84 mm 42 mm (1.65 in)		
Pump weight	139 g (4.90 oz.), including battery		
Battery	Lithium CR123A 3V (battery life about 90 infusions)		
Single-use reservoir	Dedicated with a 50 ml capacity and a Luer-Lock universal security attachment		
Administrable volumes	Programmable from 1 ml to 50 ml in increments of 1 ml		
Prime function	Only available at the start of the infusion. The maximum deliverable volume is 1.5 ml		
Flow rate	Programmable, from 0.05 to 5 ml/h in increments of 0.01 ml/h The function can be excluded by setting 0 ml/h		
Bolus dose	Programmable, from 0.10 ml to 2 ml in increments of 0.02 ml It is possible to disable this function by setting 0 ml		
Clinical bolus	Programmable, from 0.10 ml to 2 ml in increments of 0.02 ml The function can be excluded by setting 0 ml		
Interval between boluses	Programmable from 5 min to 24 h with the following modes: from 5 min to 1 h in increments of 5 min from 1 h to 24 h in increments of 15 min It is possible to disable this function by setting no,Lt		
Bolus doses deliverable in one hour	From 0 to 12 boluses. The function may be disabled by setting no,Ln		
Shot volume	20 μl (minimum quantity administered at each motor rotation)		
Flow rate precision	+/- 3 %		
Occlusion pressure	1.8 bar +/- 0.8 (PL1) ; 2.2 bar +/- 1 (PL2) ; 3.2 bar +/- 1.2 (PL3)		
Post-occlusion bolus	About 0.8 ml (PL1), 1.1 ml (PL2), 1.3 (PL3)		
Settings memory	All settings are automatically stored in a flash memory which is retained even if the device is left without a battery.		
Display	Liquid crystal display (LCD) (dimensions 11 x 28 mm; 0.43 x 1.1 in)		
Motor	Coreless DC motor, the rotation of which is controlled by an infrared system		
Settings lock	Two configurable levels		
Electronic circuit with twin microcontrollers	Ensures a more reliable and safer infusion system		
Safety circuits	These check that the device is functioning correctly, intervening in the event of any anomaly with sounds and messages on the display		
Ingress protection rating	IP 42		
Anti-free-flow safety system	Avoids the occurrence, within the delivery set, of a flow not under the control of the instrument but caused by the effect of gravity		
Buzzer sound pressure level	53 dBA +/- 5 dBA		
Warranty	2 years from the date of purchase against any material or manufacturing defects		
Standard equipment	CRONO 50 SC ambulatory pump, Carry-case, Elastic belt, Fabric case, Collar strap, 2 Batteries (1 of which in the pump), Battery-cover opening tool, 2 Instructions for use (doctor and patient)		
Environmental conditions for use	+5°C / +40°C 15% / 90% RH (non-condensing, water vapour partial pressure max 50 hPa) 700 hPa / 1060 hPa		
Environmental conditions for storage and transport	-25°C / +70°C 15% / 90% RH		

