

**CRONO**  
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Actual size (1:1)

## Pulsatile ambulatory infusion pump

## DESCRIPTION OF THE PUMP

**Caution: U.S. Federal law restricts this device for sale by or on order of a physician.**

Crono F is a new innovative pulsatile ambulatory infusion pump for controlled drug administration on patients in hospital or in ambulatory care.

The pump is provided with key-pad lock-out functions in order to avoid un-authorized reprogramming of the drug administration protocol.

The liquid crystal display (LCD) shows the information which are helpful both for the clinician and the patient like programming, remaining delivery time and remaining time to the next pulse of prescribed drug.

### TECHNICAL FEATURES

Pump size	77 x 47 x 29 mm.
Weight	115 g (battery included).
Battery	CR 123A 3V Lithium battery (battery life: at least 3 months).
Syringe	Dedicated syringes 10 and 20 ml.
Administration volumes	From 1 ml to 20 ml with steps of 1 ml.
Priming	Available only at the beginning of an infusion or partial infusion. The maximum deliverable volume is 3.0 ml with 0.5 ml increments.
F-bolus dose	Automatic bolus dose is available in two volumes: 25 or 50 $\mu$ l. F-bolus duration is 1 minute for both doses.
Interval time between F-boluses	Programmable from 5 minutes to 300 minutes in steps of 5 minutes.
F-bolus pump mean accuracy	+/- 1%.
F-bolus system:	<ul style="list-style-type: none"><li>• mean accuracy +/- 5%.</li><li>• maximum positive deviation + 13.9%.</li><li>• maximum negative deviation - 18.1%.</li></ul>
Max. occlusion pressure	4.0 bar +/-1.
Data storage	The selected data are automatically stored in the pump memory and they are not lost when the battery is removed.
Motor	DC coreless motor microprocessor controlled, equipped with optical encoder.
Safety circuits	To monitor the correct working of the device intervening in case of anomalies with acoustic warnings and error messages.
Anti free-flow system	To avoid a non controlled flow inside the delivery set due to the action of the force of gravity.
Equipment supplied as standard:	Device case holder, fabric case, elastic belt, support string, two batteries, user's guide.
Warranty:	Two years for any default of manufacture.



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