

# Ambulatory pump

TECHNOLOGY FOR HEALTH



## **CRONO S-PID 100**

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## PUMP DESCRIPTION

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CRONO S-PID 100 uses 100 ml dedicated reservoirs.

The main features of the pump are:

- the possibility of selecting between time or flow rate programming mode;
- the possibility of dividing the volume contained in the syringe over several infusion sites (feature available only in flow rate mode).

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 immunoglobulins.

CRONO S-PID 100 is provided with a liquid crystal display which shows useful information to the doctor and to the patient on the pump's settings, operation and diagnostics.

**CRONO S-PID 100**

## TECHNICAL FEATURES

<b>PUMP DIMENSIONS</b>	88 x 59 x 56 mm (3.46 x 2.31 x 2.20 in).
<b>PUMP WEIGHT</b>	140 g (4.50 oz.), including battery.
<b>BATTERY</b>	Lithium CR 123A 3V (battery life about 60/80 infusions).
<b>SINGLE-USE RESERVOIRS</b>	Reservoir with a 100 ml capacity and a "Luer-Lock" universal security attachment.
<b>PARTIAL VOLUME</b>	Selectable, from 1 to 100 ml in 1 ml.
<b>TIME MODE (DELIVERY TIME)</b>	Selectable, from 20' to 500 h.
<b>FLOW RATE MODE</b>	Selectable, from 0.2 ml/h to 300 ml/h.
<b>SETTING OF THE NUMBER OF INFUSION SITES (ONLY IN FLOW RATE MODE)</b>	Selectable, from 1 to 5 sites.
<b>AVAILABLE PRIMING VOLUME</b>	3.0 ml.
<b>FLOW RATE PRECISION</b>	+/- 3 %.
<b>OCCLUSSION PRESSURE</b>	2.2 bar +/- 1.
<b>SHOT VOLUME</b>	20 microlitres (shot: quantity administered for every rotation of the motor).
<b>POST-OCCLUSSION BOLUS</b>	About 4.0 ml.
<b>SETTINGS MEMORY</b>	All settings are automatically stored in a flash memory which is retained even if the device is left without a battery. The settings are stored for a period of 10 years, twice the expected life time of the pump.
<b>DISPLAY</b>	Liquid crystal display (dimensions 11 x 28 mm; 0.43 x 1.0 in).
<b>MOTOR</b>	Coreless DC motor, the rotation of which is controlled by an infrared system.
<b>SETTINGS LOCK</b>	Two configurable levels.
<b>ELECTRONIC CIRCUIT WITH TWIN MICROCONTROLLERS</b>	Ensures a more reliable and safer infusion system.
<b>SAFETY CIRCUITS</b>	They check that the device is functioning correctly, intervening in the event of any anomaly with acoustic signals and messages on the display.
<b>INGRESS PROTECTION RATING</b>	IP 42.
<b>EQUIPMENT SUPPLIED</b>	Ambulatory pump, infuser carry-case, elastic belt, supporting cord, fabric pouch, 2 batteries, battery cover opening tool and user manual.
<b>GUARANTEE</b>	Two years for manufacturing defects.