



CRONO PAR 30



CE
0476

Ambulatory
infusion pump

PUMP DESCRIPTION

The **CRONO PAR 30** ambulatory infusion pump is designed for the subcutaneous infusion of apomorphine in the treatment of Parkinson's disease.

CRONO PAR 30 uses specific 30 ml syringes called reservoirs. Its smaller size and reduced weight make **CRONO PAR 30** ideal for home use, thus giving the patient the freedom to engage in everyday activities during the treatment.

The technical characteristics of the pump are:

- the possibility of selecting two different modes of operation of the device, one of which has base-level functions, called **FrEE** while the other has more advanced functions for patients with greater therapeutic demands, called **Auto**;
- a clock which allows to administer different flow rates over a daily 24-hour period;
- twin microcontrollers making the device safer and more reliable.

The pusher mechanism acts directly on the piston of the reservoir, allowing the pump to administer the drug accurately. For a better absorption of the drug, the pump administers 33µl shots at intervals which depend on the flow rate chosen. If the programmed flow rate is increased, the time interval between the shots decreases proportionally.

CRONO PAR 30 has a liquid crystal display (LCD) which shows practical information to the doctor and patient about the settings, operations and diagnostics of the pump.

TECHNICAL CHARACTERISTICS

Pump dimensions	80 x 47 x 30 mm (3.14 x 1.85 x 1.18 in).
Weight	127 g (4.46 oz.), including battery.
Battery	Lithium CR 123A 3V (battery life approx 100 infusions).
Single-use reservoir	With a 30 ml capacity and a "Luer-Lock" universal security attachment.
Volumes that can be administered	Selectable, from 1 to 30 ml in increments of 1 ml.
Flow rates in FrEE mode (F1, F2, F3)	Programmable from: <ul style="list-style-type: none">• 0.05 ml/h to 1.00 ml/h in increments of 0.01 ml/h;• 1.00 ml/h to 3.00 ml/h in increments of 0.02 ml/h;• 3.00 ml/h to 5.00 ml/h in increments of 0.05 ml/h; • F2 and F3 may also be programmed to 0.00 ml/h or to oFF (flow rate display disabled).
Selectable flow rates in FrEE mode	3, all programmable.
Flow rates in Auto mode (F1, F2, F3)	Programmable from: <ul style="list-style-type: none">• 0.05 ml/h to 1.00 ml/h in increments of 0.01 ml/h;• 1.00 ml/h to 3.00 ml/h in increments of 0.02 ml/h;• 3.00 ml/h to 5 ml/h in increments of 0.05 ml/h;
Selectable flow rates in Auto mode	4, of which 3 are programmable and 1 is fixed at 0 ml/h.
Bolus dose volume	Programmable from 0.00 to 2.00 ml in increments of 0.033 ml.
Interval between bolus doses	Programmable from: <ul style="list-style-type: none">• 5 minutes to 1 hour in increments of 5 minutes;• 1 hour to 24 hour in increments of 15 minutes. It is possible to disable this function by setting no,Lt .
Flow rate precision	+/-2%.
Occlusion pressure	3 selectable values. The pump is set to PL2 (3.2 bar +/-1.5).
Post-occlusion bolus	About 0.8 ml (in PL2 mode).
Electronic circuit	Managed by twin microcontrollers with dedicated software.
Settings memory	All settings are automatically entered in a flash memory which is retained even if the device is left without a battery.
Display	Liquid Crystal Display.
Motor	Coreless DC motor. The microcontroller controls the rotation speed using an infrared encoder.
Settings lock	Two configurable levels.
Safety circuits	Check that the device is functioning correctly, intervening in the event of any anomaly with acoustic signals and messages on the display.
Supplied standard equipment	Ambulatory infusion pump, infuser carry-case, elastic belt, collar strap, fabric case, 2 batteries, battery cover opening tool, user guide.
Guarantee	Two years for manufacturing defects.

