



SAPPHIRE EPIDURAL

Acute Care Infusion Pump System

Accurate infusion care, simple, fast, effective, and future-ready

The Sapphire Epidural Infusion Pump is a dedicated, color-coded pain management system for epidural infusions. Specifically designed to accommodate with the needs and limitations of Epidural infusion the Sapphire Epidural provides the complete solution for Epidural delivery.

- Compact, lightweight device that is intuitive and easy to use
- Consistent accuracy with robust performance
- Single solution fits all, for any infusion need
- Software-driven, and built-in adaptability

The information provided here does not replace the Sapphire™ user manual 10050-003-0007 Rev.02 / 03.2020. Manufactured by Q Core Medical.


SAPPHIRE
by Eitan Group

OPTIMIZED PATIENT OUTCOMES, FOR THE LONG-RUN

The Sapphire Epidural pump is a sturdy performer packed in a small, simplified design. Programming is quick and easy on its intuitive touchscreen, for setting its feature-rich functionality that combines patented magnetic flow control innovation. With its maximized reliability, low-flow continuity, and built-in adaptability that meets any new requirement, Sapphire simplifies patient care with confidence for the long-run.

The Sapphire Epidural Infusion Pump supports different modes of operation

- CEI (Continuous Epidural Infusion): Delivers Epidural Infusion at a constant rate with the option to administer a clinician bolus
- PCEA (Patient Controlled Epidural Analgesia): Delivers epidural boluses, either alone or in addition to a basal rate. A clinician bolus can also be administered
- Intermittent Epidural: Delivers epidural infusions at intermittent programmed intervals
- PIEB (Programmed Intermittent Epidural Bolus): Intermittent programmed intervals with optional PCEA, in order to allow patient Boluses throughout the infusion

Key features

- Quick access to delivery history during and after infusion
- Configurable delivery limits, per volume or number of doses
- Supports up to 10 different Preset Programs per mode (PCEA/ Epidural Intermittent)
- Optional automatic lock requiring password to start infusion or update infusion parameter

MAKE SAPPHIRE YOUR ADVANTAGE

Dedicated Epidural mode

- Color code differentiated
- Intuitive point-of-care programming
- Configurable settings and patient-specific parameters
- Highest $\pm 2.5\%$ accuracy rate, like leading syringe pumps
- Easy switch between pump and gravity infusion

Exceptional ease that drives patient safety

- Large, clear, color touchscreen
- Quick setup for rapid response
- 4 lock levels
- Dual anti-free flow mechanism in pump and administration set
- Auto restart after downstream occlusion
- Resume option after shutdown during infusion
- On-screen troubleshooting for easy alarm adjustment

Future-ready care and confidence

- Flexible software-driven pump for versatility and fast enhancement
- Cost-effective upgrades
- Powerful platform, one user interface for Epidural infusion need

Thrive with low total cost of ownership

- Minimized costs throughout product life-cycle, from purchase to upgrade
- High uptime, with unique pumping mechanism that reduces wear on moving parts
- Remote upgrading online, and on-site annual certification
- Reduced spending on training and inventory, based on feature-rich functionality and one common user interface across all therapies
- Highly durable with high protection against fluids, impact, and power surges

EPIDURAL KEY SPECIFICATIONS

Dimensions	143 x 96 x 49 mm (5.63 x 3.78 x 1.93 in.) (H x W x D)
Weight (excluding battery)	418 g (14.7 oz.)
Infusion device	Volumetric, peristaltic
Pumping mechanism	Single channel volumetric, with integral pressure sensor
Infusion delivery modes	CEI, PCEA, Epidural Intermittent & PIEB
KVO rate	Up to 20 mL/h in increments of 0.1 mL/h
Accuracy	$\pm 2.5\%$ under normal conditions (per IEC60601-2-24 standard)
Battery	Rechargeable Li-Ion battery 7.4V, 1960 mA/h, 24 hrs @ 125 mL/h (with a fully charged battery and backlight Off) Recharge time: up to 6 hrs (when pump is not in operation)
Continuous Rate	0-25 mL/h in increments of 0.1 mL/h
Configurable Bolus Rate	125/200 mL/h
Volume (VTBI)	0.1 - 9999 mL in increments of 0.1 mL
External power supply	100-240V 50-60 Hz, 0.6A
Downstream occlusion	Up to 1.2 Bar (17.4 PSI or 900 mmHg)
Air in line sensor	Sensor detects single and accumulated bubbles of selectable sizes varying from 0.02 mL - 0.5 mL
Operating temperature	+5° (41°F) to 40°C (104°F)
Water ingress and dust protection	IP24 according to IEC 60601-1-11
Prime	Manual or automatic priming (600 mL/h, or from air in line alarm 900 mL/h)

ABOUT EITAN GROUP

Eitan Group is focused on infusion therapy and technologies, developing future-ready systems for hospital care and ambulatory settings, as well as wearable solutions for easy self-administration. Eitan Group initially entered the infusion market in 2009, and a decade later, with data on over 18 million liters of infusions completed, now consists of three affiliate companies: Q Core Medical, Sorrel Medical and Avoset Health. With a focus on innovating patient-centered care and safety, Eitan Group is reimagining infusion therapy with connected, software-based solutions.

Q Core Medical Ltd.
29 Yad Haruzim St., P.O.Box 8639, Netanya 4250529, Israel
Tel: +972 73 2388888 | Fax: +972 73 2388800
For more information please contact info@qcore.com

EITANGROUP
Innovating Infusion