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# INfusia

## SP7 Syringe Infusion Pump

For Veterinary Use Only

The INfusia syringe pump is designed for continuous delivery of medications, nutrients or other parenteral fluids by Veterinary Professionals.

System Accuracy  $\pm 3\%$

Accepts syringes that are compatible with ISO 7886-1

Four delivery modes: Rate, Time, and Dose Modes (mcg/kg/min and mg/kg/hr)

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Hardware		Performance	
Mechanism	Piston driver mechanism	Priming	Manual or by using the purge/bolus function of the pump
Accuracy	+/- 3% ±1% device accuracy (without disposable variability), ±3% total accuracy	KVO rate	1.0 mL/h or the most recent delivery rate, whichever is lower
A/C power	Yes	Rate titration	Yes, In rate mode
D/C power	Yes	Loading dose	Yes
Battery	Lithium-ion polymer battery: 11.1 Vdc, 2000 mAh	Delivery modes	Rate Mode Time Mode Dose Mode mcg/kg/min mg/kg/h
Battery charger	Internal	Drug mass	0.1 to 999.9 mg (0.1 increments)
Battery life	Approx. 8 hrs at 5 mL/hr.	Dose	0.01 to 99.9 mcg/kg/min 0.01 to 99.9 mg/kg/h
Battery recharge time	Pump OFF: < 10 h, Pump ON: < 14 h	Patient weight	0.0 to 99.9 kg, in 0.1 increments 100 to 300 kg, in 1 kg increments
Weight	5.1 lbs (2.3 kg)	Solution volume	0.1 to 199.9 mL, in 0.1 mL increments
Dimensions	W x D x H 9.1 x 6.1 x 5 in.	Safety Systems	
Syringe sizes	5, 10, 20, 30, 50/60 mL	Alarm Volume	Adjustable Low, Medium, High
Display	Color LCD screen with LCD displays	Occlusion settings	3 preset levels High (H) 900 - 1125 mmHg Medium (M) 600 - 900 mmHg Low (L) 375 - 600 mmHg
Screen size	4.1 x 1.3 in.	Post-occlusion bolus reduction	Yes
Key pad	Increment and decrement arrows	Pump status -alarm indicators	Green light running on arrow display for infusion in progress, red alarm alert for warnings, KVO and Bolus indicator All alarms are expressed by means of light indicators, written words and sound beeps
Infusion log	Biomed accessible, 5000 most recent infusion and alarm history events	Syringe position control	Syringe barrel clamp check, flange insertion, plunger head detection
Calibration	Direct access to syringe calibration on front panel	Infusion control -alarms	Occlusion pressure alarm, end of infusion alarm and near empty alarm
Communication		Device control - alarms	Disengaged syringe alarm, low battery alarm and technical malfunction alarm
RS232	Yes	Air sensor	N/A
Performance		Key pad lock	Automatic key pad lock
Flow rate range	50 mL syringe-0.1 to 1800 mL/h 30 mL syringe-0.1 to 1200 mL/h 200 mL syringe-0.1 to 800 mL/h 10 mL syringe-0.1 to 400 mL/h 5 mL syringe-0.1 to 200 mL/h Increments: 0.1 mL/h for all syringe types	Technical Specifications	
Infusion time	1 to 1999 min (Increments 1 min)	Compliance standard	EN/IEC 60601-1, EN/IEC 60601-2-24, EN/IEC 60601-1-2, IEC 60529:2001
Volume to be Infused (TAR. VOL.)	0.0 to 1999.9 mL (1 mL increments)	Waterproofness	IPX4
Bolus rate	50 mL syringe: From 0.1 to 1800.0 mL/h 30 mL syringe: From 0.1 to 1200.0 mL/h 20 mL syringe: From 0.1 to 800.0 mL/h 10 mL syringe: From 0.1 to 400.0 mL/h 5 mL syringe: From 0.1 to 200.0 mL/h Increments: 0.1 mL/h for all syringe types	Electrical compliance	Protection against leakage current: CF type Protection against electric shocks: class I
Bolus volume	1.0 to 100.0 mL, 0.1 mL increments	Power supply	100 Vac - 240 Vac, 50/60 Hz, 35 VA
Purge rate	50 mL syringe: From 0.1 to 1800.0 mL/h 30 mL syringe: From 0.1 to 1200.0 mL/h 20 mL syringe: From 0.1 to 800.0 mL/h 10 mL syringe: From 0.1 to 400.0 mL/h 5 mL syringe: From 0.1 to 200.0 mL/h Increments: 0.1 mL/h for all syringe types	Environmental	RoHS Compliance 2017
		EMC (Electromagnetic Compatibility)	NRTL Mark (UL) EN/IEC 60601-1-2/AC2010 EN/IEC 60601-2-24

Refer to the instructions for use for a list of warnings and precautions associated with the device.

**⚠ Warning: Flow rate accuracy can be influenced by extension set configuration, fluid viscosity, and fluid temperature.**

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