

 **INfusia SP7s**

 **INfusia VP7s**



INFUSION

Flow rate range	50 ml syringe: From 0.1 to 1800.0 ml/h 30 ml syringe: From 0.1 to 1200.0 ml/h 20ml syringe: From 0.1 to 800.0 ml/h 10ml syringe: From 0.1 to 400.0 ml/h 5 ml syringe: From 0.1 to 200.0 ml/h Increment: 0.1 ml/h for all syringe types
Syringe capacities	5 ml, 10 ml, 20 ml, 30 ml, 50 ml/60 ml
Accuracy	± 5 % on 24 h with infusion of 1 liter maximum (in accordance with EN/IEC 60601-2-24)
Volume to be infused	From 0.0 to 9999.9 ml, 0.1 ml increment
Infusion time	From 00 h 01 min to 99 h 59 min, min increment
Priming	Manual or by using the purge/bolus function of the pump
Bolus or purge rate	50 ml syringe: From 0.1 to 1800.0 ml/h 30 ml syringe: From 0.1 to 1200.0 ml/h 20ml syringe: From 0.1 to 800.0 ml/h 10ml syringe: From 0.1 to 400.0 ml/h 5 ml syringe: From 0.1 to 200.0 ml/h Increment: 0.1 ml/h for all syringe types
Bolus volume	From 1.0 to 100.0 ml, 0.1 ml increment
KVO rate	From 0.1 to 1.0 ml/h or the last delivery rate

Parameters in Dose mode

Drug Mass	From 0.1 to 999.9, 0.1 increment
Drug Mass Units	g, mg, U, IU
Dose	From 0.001 to 9.999, 0.001 increment; From 10.00 to 99.99, 0.01 increment; From 100.0 to 999.9, 0.1 increment; From 1000 to 9999, 1 increment
Dose Units	ng/kg/min, ug/kg/min, mg/kg/min, g/kg/min, U/kg/min, IU/kg/min, ng/kg/h, ug/kg/h, mg/kg/h, g/kg/h, U/kg/h, IU/kg/h, ng/min, ug/min, mg/min, g/min, U/min, IU/min, ng/h, ug/h, mg/h, g/h, U/h, IU/h, ml/h.
Patient Weight	From 0.1 to 300kg, 0.1 increment
Solution Volume	From 0.1 to 60.0 ml, 0.1 ml increment

PRESSURE MANAGEMENT

Pressure modes	3 pre-set levels available: High (H): 135 kPa ± 15% Medium (M): 100 kPa ± 20% Low (L): 65 kPa ± 30%
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ALARMS

Pump status	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
Syringe position control	Syringe barrel clasp check, flange insertion, plunger head detection
Infusion control	Occlusion pressure alarm, end of infusion alarm and near empty alarm
Device control	Disengaged syringe alarm, low battery alarm and technical malfunction alarm

TECHNICAL SPECIFICATIONS

Display	Blue LCD display (9.6 x 2.9 cm)
Stackability	Stack up to maximum of 8 channels
Dimensions/ Weight	(L/W/H) 230 x 150 x 125 mm (Not including Pole clamp), Approx. 2.2 kg
Battery	11.1 Vdc, 2000 mAh - Li-ion polymer battery The battery operating time is up to 8 hours when fully charged running at a rate of 25 ml/h Battery recharge: Pump OFF: < 10 h, Pump ON: < 14 h
Compliance Standard	EN/IEC 60601-1, EN/IEC 60601-2-24, EN/IEC60601-1-8, IEC 60529:2001
Waterproofness	IPX4
Electrical compliance	Protection against leakage current: type CF applied part Protection against electric shocks: class I
Power supply	AC 100 ~ 240 V, 50/60 Hz

INFUSION

Flow rate range	From 1.0 to 1200 ml/h or from 1 to 400 drops/min Increments: 0.1 ml/h (from 1.0 to 99.9 ml/h), 1ml/h (from 100 to 1200 ml/h) or 1 drop/min
Flow rate accuracy	± 5 % on 24 h with infusion of 1 liter maximum (in accordance with EN/IEC 60601-2-24)
Volume to be infused	From 0.0 to 9999 ml, 1 ml increment
Infusion time	From 00 h 01 min to 99 h 59 min, 1 ml increment
Purge rate	600 ml/h
Bolus rate	From 1 to 1200 ml/h Increment: 0.1 ml/h for flow rate < 100 ml/h, 1 ml/h for flow rate ≥ 100ml/h
Bolus volume to be infused	From 1 to 100 ml, 1 ml increment
KVO rate	1 ml/h for infusion flow rate ≤ 10 ml/h 3 ml/h for infusion flow rate > 10 ml/h

Parameters in Dose mode

Drug Mass	From 0.1 to 999.9, 0.1 increment
Drug Mass Units	g, mg, U, IU
Dose	From 0.000 to 9.999, 0.001 increment From 10.00 to 99.99, 0.01 increment From 100.0 to 999.9, 0.1 increment From 1000 to 9999, 1 increment
Dose Units	ng/kg/min, ug/kg/min, mg/kg/min, g/kg/min, U/kg/min, IU/kg/min, ng/kg/h, ug/kg/h, mg/kg/h, g/kg/h, U/kg/h, IU/kg/h, ng/min, ug/min, mg/min, g/min, U/min, IU/min, ng/h, ug/h, mg/h, g/h, U/h, IU/h, ml/h.
Patient Weight	From 0.1 to 300.0 kg, 0.1 kg increment
Solution Volume	From 0 to 9999 ml, 1 ml increment

PRESSURE MANAGEMENT

Pressure Modes	3 pre-set levels available: High (H): 125 kPa ± 20% Medium (M): 80 kPa ± 25% Low (L): 40 kPa ± 50%
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ALARMS

Pump status	Text display of current status, red alarm alert for warnings, KVO and Bolus indicator All alarms are expressed by means of light indicators, written words and sound beeps
Infusion control	Occlusion pressure alarm, end of infusion alarm, air bubble alarm, rate error alarm and empty bag alarm
Device control	Door open alarm, low battery alarm, technical fault alarm

TECHNICAL SPECIFICATIONS

Pumping mechanism	Linear peristaltic pumping system
Display	Blue LCD display (3.1 x 9.5 cm)
Dimensions / Weight	(L/W/H) 122 x 135 x 232 mm (Not including Pole clamp), 2 kg
Battery	11.1 Vdc, 2000 mAh - Li-ion polymer battery Battery operating time: The battery operating time is up to 8 hours when fully charged running at a rate of 25 ml/h. Battery recharge: Pump OFF: < 10 h, Pump ON: < 14 h
Sensitivity of Air Sensor	50µL
Compliance Standard	EN/IEC 60601-1, EN/IEC 60601-2-24, EN/IEC60601-1-8, IEC 60529:2001
Waterproofness	IPX4
Electrical compliance	Protection against leakage current: type CF applied part Protection against electric shocks: class I
Power supply	100 ~ 240 Vac, 50/60 Hz, 35 VA