

The Clinical Trial Service Company

Perfusor® Space is a syringe infusion pump that can be used to configure customized, tailor-made solutions as individual pumps, small therapy units, or a complex infusion system.

The small, light and intuitive configuration of the pump provides a user-friendly solution to complex therapies, integrating all clinical areas into one system.

B. Braun Space can also be integrated into the data communications network of every advanced hospital operation.

Advantages

Benefits at a glance :

- Light weight pump (1.4kg) and reliable battery duration of 8 hours on a 25 ml/h rate
- Automatic syringe size recognition and compatible with
- syringes 2/3 ml, 5/6 ml, 10/12 ml, 20 ml, 30/35 ml and 50/60 ml.
- Therapy Profiles available : Dose Rate Calculation, Dose Over Time, Ramp and Taper Mode, Program Mode,
- Intermittent Mode, PCA, TCI, TIVA, KVO and Take Over Mode
- Syringe holder with integrated piston break, protecting against free flow
- Automatic drive technology
- Automatic bolus reduction function triggered by occlusion



- alarm
- Drug Library with capacity to up to 1200 drug names, including therapy data, information and up to 10 concentrations per drug to be stored in 30 different categories. Drug information can be subdivided in 50 categories and up to 16 Patient Profiles.

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IRM LLC

37 Teatralna street, office 3, 21000, Vinnytsya, Ukraine

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TECHNICAL DATA

Type of unit	Infusion Syringe Pump
Classification (acc. to IEC/EN 60601-1)	☒ Defibrillator-proof; CF equipment ☐ Protective Class II; Protective Class I in combination with SpaceStation
Class (acc. to Directive 93/42 EEC)	IIb
Moisture protection	IP 22 (fluid protected for horizontal usage)
External power supply:	
■ Rated voltage	Via B. Braun SpaceStation or optional mains adaptor (rated voltage 100 ... 240 V AC~, 50/60 Hz) for stand alone operation
■ External low voltage	11 ... 16 V DC $\Rightarrow$ via Connection Lead SP 12 V or via SpaceStation
Staff call	Max. 24 V / 0,5 A / 24 VA (VDE 0834)
EMC	IEC/EN 60601-1-2 / 60601-2-24
Time of operation	100 % (continuous operation)
Operating conditions:	
■ Relative humidity	30 % ... 90 % (without condensation)
■ Temperature	+5° C ... +40° C (+41° F ... +105° F)
■ Atmospheric pressure	500 ... 1060 mbar
Storage conditions:	
■ Relative humidity	20 % ... 90 % (without condensation)
■ Temperature	-20° C ... +55° C (-4° F ... +131° F)
■ Atmospheric pressure	500 ... 1060 mbar
Type of battery pack (rechargeable)	Li-Ion NiMH
Operating time of rechargeable battery	Li-Ion Wireless active Perfusor® at 5ml/h typ. 3 hours Wireless active Perfusor® at 25ml/h typ. 2.5 hours Wireless inactive Perfusor® at 5ml/h typ. 17 hours Wireless inactive Perfusor® at 25ml/h typ. 10 hours NiMH at 5ml/h typ. 19 hours at 25ml/h typ. 10 hours
Recharging time	Approx. 6 hours
Weight	Approx. 1.4 kg
Dimensions (W x H x D)	249 x 68 x 152 mm

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Volume preselection	0.1 – 99.99 ml in increments of 0.01 ml 100.0 – 999.0 ml in increments 0.1 ml 1000 – 9999 ml in increments 1 ml																								
Time preselection	00:01 – 99:59 h																								
Accuracy of set delivery rate	± 2 % according to IEC/EN 60601-2-24																								
Occlusion alarm pressure	9 levels from 0.1 bar up to 1.2 bar																								
Max. Volume in case of single fault condition	For incorrect dosages of 0.1 ml due to malfunctions of the device the pump will automatically shut off.																								
Technical inspection (safety check)	Every 2 years																								
Multiple lines connected to one patient port	Connecting multiple infusion lines with different flow rates may affect the rate for all infusions past the point of connection.																								
Selectable delivery rates	Continuous infusion rate range / bolus rates in dependence on syringe sizes: <table><tr><th>Syringe sizes</th><th>Cont. rates*</th><th>Bolus rates</th></tr><tr><td>[ml]</td><td>[ml/h]</td><td>[ml/h]</td></tr><tr><td>50/60</td><td>0.01 – 200 optional 0.01 – 999.9</td><td>1 – 1800</td></tr><tr><td>30/35</td><td>0.01 – 100</td><td>1 – 1200</td></tr><tr><td>20</td><td>0.01 – 100</td><td>1 – 800</td></tr><tr><td>10/12</td><td>0.01 – 50</td><td>1 – 500</td></tr><tr><td>5/6</td><td>0.01 – 50</td><td>1 – 300</td></tr><tr><td>2/3</td><td>0.01 – 25</td><td>1 – 150</td></tr></table>	Syringe sizes	Cont. rates*	Bolus rates	[ml]	[ml/h]	[ml/h]	50/60	0.01 – 200 optional 0.01 – 999.9	1 – 1800	30/35	0.01 – 100	1 – 1200	20	0.01 – 100	1 – 800	10/12	0.01 – 50	1 – 500	5/6	0.01 – 50	1 – 300	2/3	0.01 – 25	1 – 150
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Rate increments	0.01 – 99.99 ml/h in increments of 0.01 ml/h 100.0 – 999.9 ml/h in increments of 0.1 ml/h																								
Accuracy of bolus infusion	typ. ± 2 %																								
Max. bolus after bolus reduction	≤ 0.2 ml																								
KVO-rate	Delivery rate > 10 ml/h: KVO-rate 3 ml/h Delivery rate < 10 ml/h: KVO-rate 1 ml/h Delivery rate < 1 ml/h: KVO-rate = set rate (default setting 0.1 ml/h)																								
Computer connection	USB connection in combination with B. Braun interface lead CAN SP (8713230) including electrical insulation. Please pay attention to safety notices.																								

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