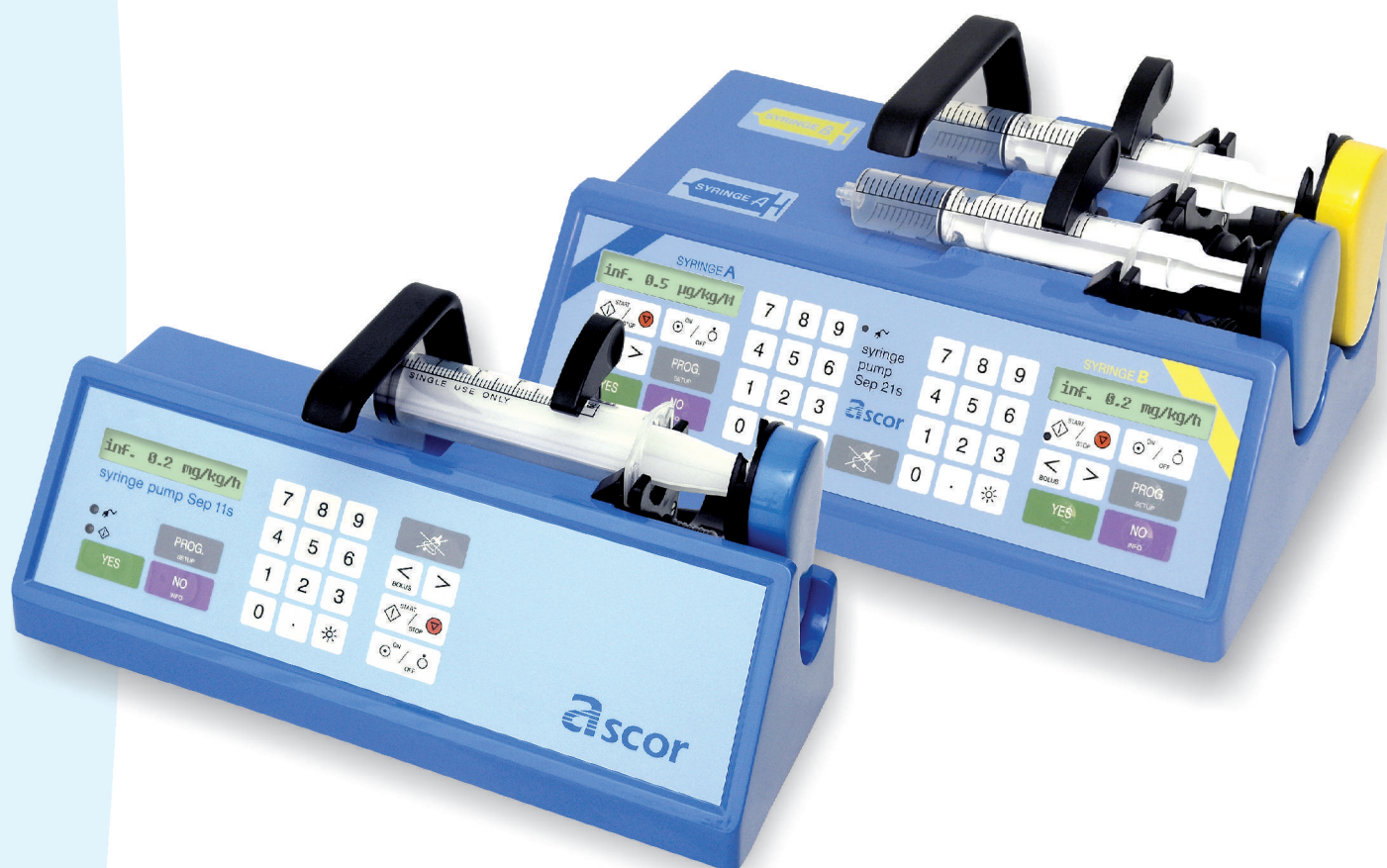




Single-Syringe Pump **SEP 11S** and Double-Syringe Pump **SEP 21S**

Simple, safe & reliable

Designed to meet the needs of modern I.V. therapy in neonatal/pediatric/adult ICU, CCU, anesthesia, cardiology and oncology.



Key features:

- user friendly software simplifies set-up and operation
- wide range of infusion rate
- over 40 types of compatible syringes (10-60 ml)
- drug dose calculation
- automatic & manual bolus capability
- easy modification of infusion parameters in running course
- comprehensive system of audible and visual alarms & warnings
- long battery life
- 4 modes of operation: flow rate, flow rate and volume, flow rate and time, volume over time

Please visit our web-site: www.ascor.com.pl to get a detailed information about our whole product range.

Single-Syringe Pump SEP 11S and Double-Syringe Pump SEP 21S

Performances:

Flow rate range:	0.1 - 500 ml/h for 50 ml syringe 0.1 - 300 ml/h for 30 ml syringe 0.1 - 250 ml/h for 20 ml syringe 0.1 - 150 ml/h for 10 ml syringe (0.1 - 99.9 ml/h in 0.1 ml/h steps; 100 - 500 ml/h in 1 ml/h steps)
Volume to be infused:	0.1 - 1000 ml (0.1 - 99.9 ml in 0.1 ml steps; 100 - 1000 ml in 1 ml steps)
Maximum bolus rate:	1000 ml/h for 50 ml syringe 600 ml/h for 30 ml syringe 500 ml/h for 20 ml syringe 300 ml/h for 10 ml syringe
Bolus dose / Induction dose:	limited to syringe size
Mass units programming:	units available: ml/h, µg/h, mg/h, µg/kg/h, mg/kg/h, µg/kg/min, mg/kg/min
Drug concentration:	0.01 µg/ml ÷ 1000 mg/ml
Patient weight:	up to 200 kg
Infusion time selection:	up to 100 h
KVO rate:	0.1 - 5 ml/h, programmable in 0.1 ml/h steps
Flow rate accuracy:	±2%
Occlusion pressure limit:	3 - level selection: high - 120 kPa ± 30 medium - 90 kPa ± 20 low - 60 kPa ± 20
Compatible syringes:	10, 20, 30 and 50/60 ml
Syringe brands:	B.BRAUN, BD, MONOJECT, CODAN, TERUMO, IVAC, INJECTOMAT, PENTAFERTE and other (see operating manual)
Extended system of alarms and warnings (both audible and visual):	Alarms: no syringe, empty syringe, end of infusion, occlusion, no mains, discharged battery, internal malfunction. Prealarms: 5 minutes left to the end of infusion or till the syringe gets empty, low battery

Technical specifications:

Power supply:	230 VAC ± 10%, 50/60 Hz, max. 10 VA or from a built-in rechargeable battery, optional 10 - 15 V DC for transport applications
Power consumption:	max. 10 VA
Built-in battery:	rechargeable, NiCd of increased durability
Battery life:	24 h at a flow rate of 5 ml/h
Battery charging time:	24 h
Electrical safety:	Class I, type BF (IEC 601 part 1), IP31
Weight:	SEP 11S - 2,8 kg • SEP 21S - 4,6 kg
Dimensions (W x D x H):	SEP 11S - 310 x 170 x 140 mm • SEP 21S - 310 x 220 x 140 mm
Operating conditions:	10° - 40° C; relative humidity: 20 - 90%

Other features:

External alarm socket:	24 V, 1A
STAND-BY function:	0 ÷ 24 h

Note: Specifications and design are subject to change for improvement without notice

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