

smiths medical  
graseby™



## Graseby™ 2100 and 2000 Syringe Pump Range

Affordable quality from a name you can trust



# Graseby™ 2100 Syringe Pump



## Body weight mode

The Graseby™ 2100 syringe pump also offers programming in mass units using the body weight mode. Programmable in either mcg/kg/min or mg/kg/hr, the infusion rate is automatically calculated and displayed in mL/hr – simple and easy to use.

## Versatile

The 3 adjustable occlusion pressure settings allow the Graseby™ 2100 and 2000 syringe pumps to be tailored to the specific requirements of the therapeutic care area.

With programmable infusion rates between 0.1 and 1200 mL/hr the Graseby™ 2000 syringe pump range is suitable for a wide variety of clinical settings including anaesthesia and critical care, paediatric and general ward use.

The Graseby™ 2000 range of syringe pumps can be used throughout the hospital providing familiarity and consistency to clinical teams.

## Wide range of syringe brands

The Graseby™ 2000 range of syringe pumps support a wide variety of syringe sizes and brands including major manufacturers and selected local brands. The pumps also provide automatic sensing of 20 mL, 30 mL and 50 mL syringes.

## Subset of Syringe Brands

- APEXMED 20 ML, 50 ML
- AYSET 20 ML, 50 ML
- B BRAUN OMNIFIX 50 ML
- BD PLASTIPAK 20 ML, 30 ML, 50 ML
- FRESENIUS INJECTOMAT 50 ML
- NIPRO 20 ML, 30 ML, 50 ML
- POLFA 20 ML
- ROMSONS JUNIOR 50ML
- TERUMO 20 ML, 30 ML, 50 ML
- UNOLOK 20 ML, 50 ML



# Graseby™ 2000 Syringe Pump



On-pump syringe loading guidelines

3 adjustable occlusion pressure settings

Programmable infusion rates between 0.1 and 1200 mL/hr

Patient tubing holder

The Graseby™ 2000 range of syringe pumps offer affordable quality from a name you can trust.

Recognised in operating theatres, intensive care units and general wards across the world, Graseby™ infusion pumps have been trusted by healthcare professionals for over 40 years.

Both the Graseby™ 2000 and the Graseby™ 2100 syringe pumps provide simple, reliable and easy to use infusions for a wide range of clinical therapy areas.

## Easy to use

The on-pump syringe loading guidelines provide clear instructions to support clinicians where they need it, at the bedside.

The 4 step (syringe brand, infusion rate, VTBI and occlusion level) programming sequence allows for quick and simple programming, meaning clinicians can spend more time with the patient, not the pump.

## Added safety

The Graseby™ 2000 range of syringe pumps also offer a variety of safety features including:

### Post occlusion bolus reduction

In the event of an occlusion alarm the pump will minimise the potential post occlusion bolus by reducing the pressure in the patient tubing.

### Patient tubing holder

The patient tubing holder reduces the risk of accidental syringe displacement if the patient line is inadvertently pulled or caught.

### Wide range of alarms

The pumps feature a wide range of audio and visual alarms including 'syringe error' and 'barrel clamp opened' to ensure clinician awareness and prompt intervention where necessary.

## Specifications

Graseby™ 2100 and 2000	
Weight	2.1 kg (approx, including pole clamp)
Dimensions	307 mm x 133 mm x 128 mm (not including pole clamp)
AC Power Supply	220 – 230V or 110 - 120V (not user adjustable) at 50 - 60Hz
Battery Type	Rechargeable 12 V DC Nickel Metal Hydride Ni-MH
Battery Life	4 hours at 5 mL/h
KVO Rate	0.5 mL/hr (continuous mode, not VTBI)
Programming Range:	
Infusion Rate	0.1 mL/h to 1200 mL/h dependent on syringe size
Volume To Be Infused (VTBI)	0.1 mL to 9999 mL
Occlusion Sensing – Pressure Levels:	
	Approximate Pressure:
Low (L)	300 mmHg ± 100 mmHg      40.0 kPa ± 13.3 kPa
Medium (C)	500 mmHg ± 100 mmHg      66.7 kPa ± 13.3 kPa
High (H)	800 mmHg ± 200 mmHg      106.7 kPa ± 26.7 kPa
Pump Mechanical Accuracy	±2% (for programmed infusion rates of 5 mL/h and above)

Graseby™ 2100 - Body Weight Mode Specifications	
Mass Units	mcg/kg/min or mg/kg/hr
Body Weight	0.1 kg to 300 kg
Drug Mass	0.1 mg to 999.9 mg
Solution Volume	0.1 mL to 999.9 mL

## Product Codes

Graseby™ 2100 Syringe Pump			
Product Code	Language	Voltage	Power Cord Incorporating:
12D1X100	English	220 - 230	Plug based on BS 546
12D1W100	English	220 - 230	Cee 7/7 Schuko plug
12D1T100	English	220 - 230	GB 2099.1 plug
12D1V100	English	220 - 230	CEI 23-50-II plug
12D1Y100	English	220 - 230	BS 1363 plug
12D1S100	English	220 - 230	NEMA 5-15P plug
12D2S100	English	110 - 120	NEMA 5-15 'Hospital Grade' plug

Graseby™ 2000 Syringe Pump			
Product Code	Language	Voltage	Power Cord Incorporating:
11D1X100	English	220 - 230	Plug based on BS 546
11D1W100	English	220 - 230	Cee 7/7 Schuko plug
11D1T100	English	220 - 230	GB 2099.1 plug
11D1V100	English	220 - 230	CEI 23-50-II plug
11D1Y100	English	220 - 230	BS 1363 plug
11D1S100	English	220 - 230	NEMA 5-15P plug
11D2S100	English	110 - 120	NEMA 5-15 'Hospital Grade' plug

For more information visit our website at [www.smiths-medical.com](http://www.smiths-medical.com)

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