Fact:
The Archer Fish, which live in the Mangroves of South East Asia, are famed for their ability to shoot a highly accurate jet of water from their mouths in order to knock down prey.
Recognised in intensive care units, general wards and specialist care units such as Oncology, Haematology and Neonatal care, the Graseby® Volumetric Pump is trusted by healthcare professionals across the world. Offering versatility and high levels of accuracy, the Graseby® Volumetric Pump meets a broad range of infusion applications including blood transfusion.

The unique air-in-line removal system provides safe and effective fluid delivery.

### Safety Features
- User selectable manual or automatic keypad locks, minimises potential of interference with pump.
- Administration set based free-flow protection.
- Three types of alarms.
- Primary and secondary rate limits.
- Primary and secondary volume to be infused limits.

### Delivery Accuracy ±2%
- Reliable infusions for your patients.

### Modular System
- Allows up to three pumps to be joined together:
  - Space saving.
  - Safety locking feature.
  - Easy to read displays with all three pumps at the same height.
  - Easy to identify IV lines.

### Programmable Default Occlusion Pressure
- Pump starts up in selected occlusion pressure setting.
- Increases safety for all infusions, especially Epidural, Neonates, Paediatrics and Critical Care.

### Specification - Volumetric Infusion Pump

<table>
<thead>
<tr>
<th>Weight</th>
<th>5kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>Including pole clamp</td>
</tr>
<tr>
<td>Height</td>
<td>28cm</td>
</tr>
<tr>
<td>Width</td>
<td>21.5cm</td>
</tr>
<tr>
<td>Depth</td>
<td>22.5cm</td>
</tr>
<tr>
<td>Operating temperatures</td>
<td>18º to 40ºC (64º to 104ºF)</td>
</tr>
<tr>
<td>Storage/transport conditions</td>
<td>-25º to +55ºC (-13º to +131ºF)</td>
</tr>
<tr>
<td>Accuracy</td>
<td>± 2% of displayed rate and volume to be infused</td>
</tr>
</tbody>
</table>

### Programmable options:
- Pump Identifier
- Drug list
- Primary Rate Limits
- Secondary / Bolus Rate Limits
- Secondary / Bolus Volume to be Infused Limits
- IVS Selectable Rate
- Occlusion Default
- Secondary Stop
- Bolus
- Quick Rate Change
- Rate Taper
- Volume Over Time
- Dose Rate Calculation
- Dose Rate Calculation Recovery
- Auto-locking keypad
- Service Date

### Infusion Ranges

| Rate Range Increment |
|---|---|
| Model 500/3000 | 0.1 to 99.9 ml/h 0.1 ml/h |
| 1 to 999 ml/h 1 ml/h |

### Occlusion Pressure Alarms

<table>
<thead>
<tr>
<th>Units</th>
<th>Low</th>
<th>Medium</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>mmHg</td>
<td>103 mmHg</td>
<td>259 mmHg</td>
<td>517 mmHg</td>
</tr>
<tr>
<td>psi</td>
<td>2 psi</td>
<td>5 psi</td>
<td>10 psi</td>
</tr>
<tr>
<td>kPa</td>
<td>13.5 kPa</td>
<td>34.5 kPa</td>
<td>68.9 kPa</td>
</tr>
</tbody>
</table>

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### Paediatric Volumetric Pump
- Flow rate from 0.1 — 99.9 ml/h.
- Low occlusion pressure alarm.
- Specific administration sets.
Three Simple Steps for Unique Air-in-Line Removal

**STEP 1**
Only 0.5ml of air collects in top bubble of cassette. The alarm sounds and the pump stops infusing.

**STEP 2**
Simply open and slowly close door.

**STEP 3**
Closing action pushes air back up into the container. No disconnection from patient needed so minimises risk of infection. No air can be infused to the patient.
VOLUMETRIC PUMP ADMINISTRATION SETS

Filter Set 8C-4260
20 drops per ml drip chamber/1 Y-site.

Product Codes
| Injection Y-site | 21-0302-25 |
| Needlefree Y-site | 21-0402-25 |

Standard Paediatric Set 8C-940
20 drops per ml drip chamber/1 Y-site.

Product Codes
| Injection Y-site | 21-0316-25 |
| Needlefree Y-site | 21-0440-25 |

Standard Adult Set 8C-820
20 drops per ml drip chamber/1 Y-site.

Product Codes
| Injection Y-site | 21-0366-25 |
| Needlefree Y-site | 21-0462-25 |

Standard Paediatric Burette Set 8C-1430
20 drops per ml drip chamber/3 Y-sites, 150ml burette.

Product Codes
| Injection Y-site | 21-0319-25 |
| Needlefree Y-site | 21-0444-25 |

Epidural Set 8C-390
20 drops per ml drip chamber/1 Y-site. Yellow tubing for easier IV/line identification.

Product Codes
| Injection Y-site | 21-0310-25 |
| Needlefree Y-site | 21-0443-25 |

Opaque Set 8C-820-2
Yellow tubing and brown drip chamber for infusion of light sensitive drugs.

Product Codes
| Injection Y-site | 1820-002 |
| Needlefree Y-site | 21-0457-25 |

Standard Blood Set 8C-591
200 micron filter/No Y-site.

Product Codes
| No Y-site | 591-082 |

Standard Blood Set 8C-195
150 micron filter.

Product Codes
| Injection Y-site | 21-0316-25 |
| Needlefree Y-site | 21-0443-25 |

Low Adsorption Set 8C-290
Polyethylene-lined tubing with PVC cassette, specifically for drugs that react with PVC.

Product Codes
| No Y-site | 21-0317-25 |

Piggyback Set (with checkvalve) 8C-4220
Y-site above the cassette for attachment of a secondary infusion. The checkvalve limits secondary fluid from going into the primary bag.

Product Codes
| Injection Y-site | 21-0367-25 |
| Needlefree Y-site | 21-0462-25 |

Piggyback Set (without checkvalve) 8C-230
Y-site above the cassette for attachment of a secondary infusion.

Product Codes
| Injection Y-site | 21-0366-25 |
| Needlefree Y-site | 21-0463-25 |

Administration Sets
Safety, ease of use and choice
- Easy to prime and load administration sets.
- Safety clip for free-flow protection.
- Available with injection Y-site or needlefree Y-site.

Needlefree Administration Sets
Safe
- Eliminates risk of needlestick injury.
- Reduces the risk of contamination.
- Latex free.

Easy to Use
- Three simple steps: clean, connect and disconnect.
- Suitable for luer-lock syringes.
- Flat top allows for easy cleaning.

Cost Effective
- No needles required for accessing port.
- No protective cap required.