BODYGUARD 323™
AMBULATORY INFUSION PUMP

The BodyGuard 323™ Ambulatory Infusion Pump is a multi-therapy pump suitable for the hospital and homecare environments with three programmable modes (TPN, continuous and step).
Main Features:

- The piston pump mechanism ensures unparalleled accuracy and linearity of infusion, even at lowest rates to meet the standards of the most demanding specialities.
- Configurable modes of operation which can be set to a speciality or patients understanding – TPN, continuous and step.
- Adjustable air-in-line detection. The cumulative ultrasonic counter can be set according to local protocols.
- Variable occlusion pressure settings, configurable to the route of infusion/patient type.
- Lightweight and compact, suitable for both bedside and ambulatory use.
- A delayed start infusion option means no reminder and no additional clinical intervention needed once pump has been set up for general infusion.
- Designed to be intuitive to program and use.
- Automatic occlusion alarm cancelling and infusion restart on resolution of inadvertent simple line kinking episodes.
Safety Features:
• Built-in event log automatically records accurate and reliable data on pump use
• Lockable keypad to prevent inadvertent key presses
• Fixed or variable code protected programmes that are configured and locked into the pump memory and can only be accessed by authorised personnel or technicians
• Post Occlusion Bolus Reduction System will safely release pressure from the line, following an occlusion, without administering a post occlusion bolus
• Pump event log accessible via INFO MENU or downloaded to PC through BodyComm® software

Modes of Operation:
• Parenteral nutrition (PN)
• Continuous
• Step
**Intended Use:**
The BodyGuard 323™ Infusion Pump System is designed for infusion of medications or fluids requiring continuous or intermittent delivery at precisely-controlled infusion rates through clinically acceptable routes of administration, including but not limited to:

- Intravenous
- Subcutaneous
- Percutaneous
- Intra-arterial

**Common Applications:**
- Parenteral nutrition (PN)
- Maintenance of general fluids or medication

Speak to our team who have the knowledge and experience to support you in choosing the right medical infusion products to meet your requirements.
Accessories and Consumables

Accessories

- Carry Pouch 100ml
- Carry Pouch 250ml/500ml
- Blue 3 Litre Rucksack
- Black 2 Litre Rucksack
- Grey 2 Litre Rucksack
- Pink 2 Litre Rucksack
- Battery Cell X2 9V
- Battery Charging Cable (DC Cable)
- External Battery Charger
- Charger LED and DC
- Charger - No Display
- Standard Life Battery 1800mAh
- Extended Life Battery 3600mAh
- 13A Plug Lead 1.8m (Straight)
- BodyComm® Kit
- UK Wall Charger - 8.2V
The BodyGuard 323™ Ambulatory Infusion Pump has a range of dedicated administration sets. These are 1.2 and 0.2 micron filter with optional manual priming valve. All sets are non-DEHP¹ PVC plasticized with TOTM², are BSE-TSE³ free, latex free and EVA⁴ free. Length and priming volume are approximate.

For more information on administration sets or for product codes, please visit our website; cmemedical.co.uk. You can also contact our Customer Support team on 01253 206700 or email customersupport@cmemedical.co.uk

References
Ongoing Support

**Clinical Support Network**
We cover the UK and work in partnership with healthcare providers to help ensure successful pump conversions and deliver device user training programmes. All our Clinical Support Specialists have backgrounds in areas such as critical care, pain management, theatre and recovery, community and palliative care.

**Technical Support**
Our Technical Support team comprises of experienced medtech engineers who ensure quality servicing, maintenance and repair of our products. Please contact our team to discuss the different levels of service support available to best suit your needs.

**Quality Assurance and Regulatory Support**
Our team of experienced Quality Assurance professionals can resolve customer complaints, conduct first line testing (in conjunction with our Technical Support team), whilst managing relations with local regulatory bodies, supplier and quality audits and regulatory approvals.
Regional Field Sales Support
When you want to make informed choices about which products will meet the needs of your service and patients, our team has the knowledge and experience to talk to you, wherever you are in the UK or Ireland.

Customer Support
Whether you are a clinician, an engineer or a patient using CME Medical products or services, our team of experienced customer support professionals are available to deal with your enquiry.
<table>
<thead>
<tr>
<th><strong>Device type</strong></th>
<th>Piston mechanism, ambulatory infusion pump with a single channel</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Flow rate</strong></td>
<td>0.1ml/hr to 100ml/hr in 0.1ml/hr increments and 100ml/hr to 1,200ml/hr in 1ml/hr increments</td>
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<tr>
<td><strong>Priming rate</strong></td>
<td>100ml/hr to 1,200ml/hr in 1ml/hr increments</td>
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<tr>
<td><strong>Total infused volume</strong></td>
<td>0.1ml to 1,000ml</td>
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<tr>
<td><strong>Pump accuracy</strong></td>
<td>+/- 5%</td>
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<tr>
<td><strong>KVO rate</strong></td>
<td>0ml/hr to 50 ml/hr</td>
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<tr>
<td><strong>Air sensor</strong></td>
<td>Ultrasonic, adjustable air bubble size</td>
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<tr>
<td><strong>Maximum pressure</strong></td>
<td>+/-155mmHg (+/-3psi)</td>
</tr>
<tr>
<td><strong>Power supply</strong></td>
<td>AC mains power</td>
</tr>
<tr>
<td><strong>Battery</strong></td>
<td>Rechargeable, Li-Polymer, 7.4V, 1800mAh (typical)</td>
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<tr>
<td><strong>Battery operation at 125 ml/hr</strong></td>
<td>11.3 hours (average) infusing @ 350ml/hr</td>
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<tr>
<td><strong>Battery charging</strong></td>
<td>Battery charging commences automatically when the pump is mounted into the charger unit (docking station) that is connected to an AC Mains source. (LED confirmation of AC Mains connected)</td>
</tr>
<tr>
<td><strong>Alarms</strong></td>
<td>Air/upstream occlusion, down occlusion, door open, pump paused too long (un-attended), end program, end battery, missing key, restart pump, system/technical problem, wrong TPN data, lock mode, fatal error</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>112mm x 89mm x 32mm</td>
</tr>
<tr>
<td><strong>Classification</strong></td>
<td>Type CF Equipment, degree of protection against electrical shock class II equipment, IPX3 protection against ingress of water</td>
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<tr>
<td><strong>Housing</strong></td>
<td>ABS (fire retardant)</td>
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<tr>
<td><strong>Weight</strong></td>
<td>397g (with battery)</td>
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<tr>
<td><strong>Electrical safety</strong></td>
<td>Complies with EN 60601-1 (Medical Electrical Equipment Safety), IEC 60601-2-24 (Infusion pumps and controllers), IEC 60601-1-4 (Programmable Electrical Medical System)</td>
</tr>
<tr>
<td><strong>Standards</strong></td>
<td>Manufactured in accordance with ISO 9001;2008 and ISO 13485;2003. CE marked (In accordance with the Medical Devices Directive 93/42/EEC)</td>
</tr>
<tr>
<td><strong>EMC</strong></td>
<td>The BodyGuard Infusion System is designed to be in compliance with EN 60601-1 (safety) and IEC 601-1-2 (EMC)</td>
</tr>
<tr>
<td><strong>Environmental specifications</strong></td>
<td><strong>Non operating conditions (transportation and storage):</strong></td>
</tr>
<tr>
<td><strong>Temperature</strong></td>
<td>-25°C to +50°C (-13°F to +122°F)</td>
</tr>
<tr>
<td><strong>Humidity</strong></td>
<td>5% to 100% R.H., non-condensing</td>
</tr>
<tr>
<td><strong>Air pressure</strong></td>
<td>48kPa to 110kPa</td>
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<tr>
<td><strong>Operating conditions</strong></td>
<td><strong>The system may not meet all performance specifications if operated outside of the following conditions:</strong></td>
</tr>
<tr>
<td><strong>Temperature</strong></td>
<td>+18°C to +45°C (+59°F to +113°F)</td>
</tr>
<tr>
<td><strong>Humidity</strong></td>
<td>20% to 90% R.H. at +40°C, non-condensing</td>
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<tr>
<td><strong>Air pressure</strong></td>
<td>70kPa to 110kPa</td>
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