EMCO Infusor 860

- Front loading of Syringes for easy syringe placements
- Bright Blue LCD with white characters for easy viewing
- Built-in Microprocessor surveys all operating and alarm parameters
- Self diagnostic facility – checks AC Mains and also prompts the user in case of Wrong entry
- Simply start the pump by selecting the syringe and entering the rate
- Titratin - Only two actions to change the flow rate whilst infusing
- Accepts syringes from 10, 20, 30, 50/60, 100ml of major Indian brands such as DISPOVAN, BD, ROMSONS etc.
- Wide range of flow rates from 0.1ml/hr to 400ml/hr. Infusion can be programmed in time (hr, min, sec)
- High Volumetric Accuracy over the entire delivery range
- Delivery of fluid at quick rate using BOLUS facility. BOLUS delivery can be AUTOMATIC or MANUAL
- BOLUS rate up to 1700ml/hr for 100ml Syringes & 1000ml for 50/60ml Syringes
- "ANTI-BOLUS" system for patient safety
- 3 level Occlusion Pressure settings (High/Med/Low)
- Display of Vital Parameters such as Rate of Infusion, Cumulative Volume Infused and Time of Infusion on LCD Backlit Display
- Audio and Visual alarms to indicate Occlusion, Near end infusion, Syringe empty, End of Infusion, KVO, Low Battery, Insert Syringe, No Mains etc.
- Battery operation possible for Emergencies and Transport. LED indication for battery and mains operation.
- Fluid entry proof control panel to avoid damage to interior circuitry and malfunctioning of the pump.
- Ideally suitable for OT, ICCU, NICU, PICU, Pain Management, Ambulance, etc.
- More than 8000 installations of Syringe Pumps all over India
**Technical Specifications**

**Compatible Syringe Sizes**
- 10, 20, 30, 50/60, 100ml of main brands

**Infusion Flow Rates**

<table>
<thead>
<tr>
<th>Syringe</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>10ml</td>
<td>0.1 - 60 ml/hr</td>
</tr>
<tr>
<td>20ml</td>
<td>0.1 - 100 ml/hr</td>
</tr>
<tr>
<td>30ml</td>
<td>0.1 - 120 ml/hr</td>
</tr>
<tr>
<td>50/60ml</td>
<td>0.1 - 200 ml/hr</td>
</tr>
<tr>
<td>100ml</td>
<td>0.1 - 400 ml/hr</td>
</tr>
</tbody>
</table>

**Volumetric Accuracy**
± 2% or ± 0.1 ml/h – with approved syringes

**Mechanical Accuracy**
± 1%

**Volume To Be Infused (VTBI)**
- 0.1 to 99.9 ml in 0.1 ml steps;
- 100 to 999 ml in 1 ml steps;
- Unlimited entered Volume Purge through Bolus key

**Bolus Rates**

<table>
<thead>
<tr>
<th>Syringe</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>10ml</td>
<td>300 ml/hr</td>
</tr>
<tr>
<td>20ml</td>
<td>500 ml/hr</td>
</tr>
<tr>
<td>30ml</td>
<td>650 ml/hr</td>
</tr>
<tr>
<td>50/60ml</td>
<td>1000 ml/hr</td>
</tr>
<tr>
<td>100ml</td>
<td>1700 ml/hr</td>
</tr>
</tbody>
</table>

**KVO (Keep Vein Open) Rate**

| Infusion Rate | KVO
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1 - 0.5 ml/h</td>
<td>Set Rate</td>
</tr>
<tr>
<td>0.5 - 50 ml/h</td>
<td>0.5 ml/h</td>
</tr>
<tr>
<td>&gt; 50 ml/h</td>
<td>1% of Set Rate</td>
</tr>
</tbody>
</table>

**KVO Volume**
1.0 % of syringe volume

**Standby Time**
1 to 999 min in 1min steps

**Occlusion Alarm Pressure**
- Low: 300 mmHg (40 Kpa, 0.4 Bar)
- Med: 600 mmHg (80 Kpa, 0.8 Bar)
- High: 900 mmHg (120 Kpa, 1.2 Bar)

**Alarms**
- No mains (power failure); Low Battery; Very Low Battery; Occlusion; x min pre-alarm (near end of infusion); Invalid Rate; KOR (KVO); End of Infusion; Syringe Empty; Insert Syringe (Syringe Loading error); Standby time elapsed;
- 2 min inactive ; Internal Error (Malfunction)

**Display Type**
Bright Blue LCD with backlight

**Information on Display**
- Drug Name; Rate; Time Remaining; Total Volume Infused
- Review: Occlusion Level; Bolus ml;
- Volume ml; Syringe size & Brand

**Selectable Options (Setup)**
- Programming of Volume Limit; Infusion Time;
- Bolus Volume; Standby Time; KVO function;
- Key Beep; Autosave (Previous settings stored)
- Display of Syringe Brand

**Special features**
- Drug name display (27 drug library); Standby Time mode; Alarm Repeat in 1 min; Storage of previous infusion parameters

**Protection Against Current Leakage**
Debrillation-proof type CF applied part

**Protection Against Electrical Shocks**
Class II

**Protection Against Splashing Liquid**
IPX4 (splashing water protected)

**Electrical Safety and EMC**
Conforming to IEC 60601-1, 60601-1-2

**Certificate**

**Manufacturing**
Manufactured in association with Viletechmeda (AITECS), Europe

**AC power supply**
220-230 VAC ±10%, 50/60 Hz

**Battery Type**
NiCd, 9.6V, 700 mAh

**Battery Backup**
12 hrs @ 5 ml/h

**Battery Charging time**
Up to 24 hours to 100% charge

**Power Consumption**
10VA (8W) Max

**Dimensions (WxHxD)**
265 x 135 x 185 mm

**Weight**
2.5 kg

**Operating Temperature Range**
+5°C ~ +40°C

**Transport And Storage Temperature**
-20°C ~ +40°C

**Operating Atmospheric Pressure**
450 ~ 795 mmHg

**Permissible Relative Humidity**
10 - 90%, no condensation

**Mounting**
Table Top operation, Universal Pole Clamp

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*Specifications subject to change without prior notice.*