





ANNEX 01

1. Infusion Pump

Model Classification: Volumetric pump: CF, Defibrillation-proof, protection class I

Quantity: 20

Specifications;

| | Volume preselection: |
|------------------|---|
| Delivery Rate | • 0.1- 99.99 ml in increments of 0.01ml |
| | • 100.0 - 999.0 ml in increments of 0.1ml |
| | • 1000 – 99999 ml in increments of 1ml |
| Bolus parameters | Bolus volumes: 0.1 – 99.9/500ml |
| | Bolus delivery rate: 1 – 999ml/h |
| | Interval times: max 99h 59min |
| KVO-rate | Delivery rate ≥ 10 ml/h: KVO-rate 3 ml/h |
| | Delivery rate < 10 ml/h: KVO-rate 1 ml/h |
| | • Delivery rate < 1 ml/h: KVO-rate = set rate (default setting 0.1ml/h) |
| | Delivery volume pre-setting: 0.1-9999.9ml |
| | Time pre-selection: max 99h 59min |
| | Automatic calculation of the delivery rate: based on volume and time pre-selection |
| Function | Dose calculation: automatic calculation of the delivery rate, ml/h based on the entry |
| spectrum | of the drug concentration in conjunction with the desired dosage, selectable in |
| | microgram, mg, IE, mmol, body weight and time-based, e.g.mg/kg/min |
| | Standby pause: max 24h, set values remain stored |
| | History: times-based storage of 350 actions for therapy analysis |
| Dienlay | Delivery rate, current infusion, infused volume/time, dose |
| Display | Mains / Battery operation, battery capacity |
| | Deactivation of drip control in conjunction with volume pre-selection |
| Safety system | Flow clamp: prevent free flow when pump door is open |
| | Air detector: Minimizes the risk or air detection |
| | Selectable occlusion alarm pressure setting: 0.6/1.2bar |
| | Date lock: keys are blocked |
| | Visual and acoustic alarms with interruption of pump operation: signals delivery |
| | failure in case of system defects, pressure alarm, stand-by alarm, battery alarm |
| | Staff call connection |
| History Protocol | 3000 last history entries 100 events for system diagnose |

6521661, Email address: info@krh·gov·mv





| Mains/Battery operation | Voltage 230V AC – 50Hz Battery operating time: Minimum 10 h |
|-------------------------|--|
| Warranty | Minimum 12months |
| Standards | Must comply with CE standards |
| Accessories | Original Administration sets for the pump model – 500pcs for each unit Provide user and technical manuals |

2. Syringe Infusion Pump

Model classification: Defibrillation-proof: CF equipment, Protection class II, IIb

Quantity: 20

Specifications;

| | Moisture protection IP 22 (fluid protection for horizontal usage) |
|----------|--|
| | Syringe Selection |
| | • 2/3, 5,10,20 and 50/60 ml |
| | User-specific configuration possible |
| | Delivery rate |
| | Volume preselection: |
| | - 99.99 ml in increments of 0.01 ml |
| | • 100.0 – 999.0 ml in increments of 0.1 ml |
| | • 1000 – 9999 ml in increments of 1 ml |
| General | Rate increments: |
| General | • -99.99 ml/h in increments of 0.01ml/h |
| | • 100.0 – 999.9 ml/h in increments of 1 ml |
| | Accuracy of bolus infusion: |
| | • +/-2% |
| | Bolus delivery rate: |
| | • 1 – 1800ml/h |
| | Function spectrum |
| | Delivery volume pre-setting: 0.1 – 9999.9 ml |
| | Time pre-selection: 00:01-99:00 hr. |
| | Automatic calculation of the delivery rate: based on volume over time |
| Delivery | Syringe type / size, Deliver rate, current infusion, infused volume, pressure alarm, alarm sources, mains/battery operation capacity |

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| | Drug Library with capacity to up to 1200 drug names, including therapy data, |
|--------------|---|
| | information and up to 10 concentrations per drug to be stored in 30 different |
| | categories. |
| | Safety systems |
| | Automatic recognition of syringe size / fixation. |
| | Occlusion alarm pressure limits selectable: 0.3/0/1.2bar |
| | Automatic reduction of the bolus volume following pressure alarm |
| | Date lock – Keys are blocked |
| | Pre – alarms: 3min before syringe is empty, 30 mins before battery is discharged |
| | System alarm signal a defect / delivery failure |
| | Staff call connection |
| | PC connectivity to transfer the data in PFD with required accessories and software. |
| | RS232 or Service plugs if required |
| | • Voltage 100 240V AC ~ 50/60Hz |
| Mains/Batter | • External Voltage: 11 16V DC via Connection lead SP 12 V or via Space station |
| operation | Li-ion, NiMH battery – rechargeable |
| | Battery operating time: Minimum 10 h at <10ml/h |
| Warranty | Minimum 12 months |
| | |
| Standards | Must comply with CE standards |
| | |
| Accessories | Original Administration set for the pump model – 500 pcs for each unit |
| Accessories | User and Technical manual |
| | |