


## CARDIOTHORACIC DRUG DELIVERY


### Drug Library with flow rate calculation

- Suitable for Cardiothoracic patients
- Compact & light weight (1.5Kg)
- Anti-bolus function
- Drug Library (100 drugs) with auto flow rate calculation
- Event log
- Real time clock
- Hospital Name display
- 2ml, 5ml, 10ml, 20ml, 50/60 ml syringe applicable
- LCD Display with user assist menu
- 0.01 ml/ht to 1500 ml/hr flow rate
- Patient end delivery line disconnection alarm
- Battery back up to 8 hrs
- Front loading operation
- Stackable up to 4 pumps.
- Multiple safety alarm facility.
- Dosage ramp up and taper down program.
- Custom programmable mode to accept any brand of syringe.
- Automatic Syringe Size Detection.
- In line program during infusion.
- KVO function.
- Target Volume & Time Setting.
- Infused Volume & Time Display.
- Upgradable to PCA.
- Bolus Function
- Variable Occlusion Pressure.
- 'Syringe not engaged' alarm during infusion.
- LCD, LED Display & User Friendly Operation.




**1.5KG WEIGHT**

Weightless, carrying 4 pumps, mobility is comfortable.



**ANTI BOLUS**

Automatic pressure reduction on the drug delivery line during Occlusion Alarm




**SMALL & COMPACT**

Small & compact, occupies less space near the patient even when 5 pumps are stacked. Allows easy access for medical & paramedical staff.



**HIGH FLOW RATES**

High flow rate of 1500 ml/hr can quickly deliver in an emergency.




**PCA Function**

PCA Handset (Optional Accessory)



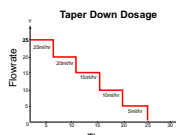
**DELIVERY LINE DISCONNECTED ALARM**

Safety alarms are generated when drug delivery line is accidentally disconnected from patient.




**PORTING MULTIPLE PUMPS**

Easily port 4 pumps on a carrying stand. Enhances patient mobility.



**Dosage Ramp up & Taper Down**

5 Sequential programs for Dosage Ramp up & Taper down function



**Drug Library**

Drug library function with mg/kg/hr, mg/kg/min, mcg/kg/hr, mcg/kg/min

## SPECIFICATION

Power Supply	: DC 18V (1A)
Battery	: 12V (800 mAh) NiMH Battery
Battery Backup	: 8hrs @ 5ml.hr Flow rate on 50ml Syringe
Power Consumption	: 7 VA
Display	: LCD & LED Display.
Applicable Syringe	: 2ml, 5ml, 10ml, 20ml, 30ml, 50/60ml & 100ml Syringes form any brand. Custom Programmable for any brand Syringe also available.
Automatic Syringe Volume Detector	: Available
Flow Rate Range	: 0.01 - 100 ml/Hr (2ml Syringe) 0.1 - 200 ml/Hr (5ml Syringe) 0.1 - 400 ml/Hr (10ml Syringe) 0.1 - 600 ml/Hr (20ml Syringe) 0.1 - 800 ml/Hr (30ml Syringe) 0.1 - 1500 ml/Hr (50ml Syringe) 0.1 - 1500 ml/Hr (100ml Syringe)
Infused Volume	: 0.1 - 9999 ml
Elapsed Time	: Display of Elapsed time from 00:01 to 199:59 hrs
Dosage Taper Up/Down (Sequential Mode)	: Sequential program of 5 different Flow-rate at Different target time or volume available.
KVO	: 0.1ml/Hr to 9.9ml/Hr in 0.1 ml increment.

Bolus	: Purge Bolus & Auto Bolus
Bolus Flow Rate	: 0.1 - 100 ml/Hr (2ml Syringe) 0.1 - 200 ml/Hr (5ml Syringe) 0.1 - 400 ml/Hr (10ml Syringe) 0.1 - 600 ml/Hr (20ml Syringe) 0.1 - 800 ml/Hr (30ml Syringe) 0.1 - 1500 ml/Hr (50ml Syringe) 0.1 - 1500 ml/Hr (100ml Syringe)
Bolus Volume	: 0.1ml to 10 ml in 0.1 ml increments
Occlusion Pressure	: 10 steps selection (OFF to 9 Levels).
Anti-Bolus function	: Available.
Event log with RTC	: Available.
Alarms	<p><b>AL 1</b> - Syringe holder disturbed during infusion.</p> <p><b>tAr.1</b> - Target Volume reached.</p> <p><b>tAr.2</b> - Target time reached.</p> <p><b>End</b> - End of Syringe.</p> <p><b>PCA.d</b> - PCA Probe disconnected.</p> <p><b>OccL</b> - Occlusion.</p> <p><b>OFF</b> - Battery discharged.</p> <p><b>AL 2</b> - Syringe not engaged</p> <p><b>AL 3</b> - Internal mechanism fault.</p>
Audio/Visual Indication & Alarms	Target reached (time or volume), Occlusion, Syringe not engaged, Near to Empty, End of syringe, Battery mode, battery low, Internal mechanism fault, KVO Mode, Bolus Mode, SpO2 Mode, SpO2 Hi/Low alarms, PCA Mode, PCA probe disconnected, Patient end drug line

Modes	: Flow Rate only, Flow Rate & Target volume, Flow Rate & Target Time, Target volume and target time, Drug library mode, Syringe pump with pulse oximeter Mode.
Drug Library	Available with 100 drug name. Flow rate calculation based on patient weight (Kg), Drug Concentration (mg/ml, mcg/ml) and Drug Dosage (mg/kg/hr, mc/kg/min, mcg/kg/hr, mcg/kg/min)
PCA (Optional)	: PCA dose can be preset from 0.1 to 10ml. Minimum locking time interval between two Doses, Time interval from 0 - 24hrs in steps of 1 min, Delivered and non delivered doses display
Accuracy	: Mechanical Accuracy ±1%; Including Syringe ± 3%
Safety Testing	: EN 60601-1. EN 60601-1-2, EN 60601-1-6, EN 60601-1-8, EN 60601-2-24
Certification	: CE, ISO 13485:2003, ISO 9001:2008
Space Occupied	: 2.4 ltrs
Weight	: 1.5 kg
Dimension	: 170 x 107 x 135 ( L x B x H)

## Product Ordering Code



PUM PUM SRXMAX



PUM PUM ADP5IN1



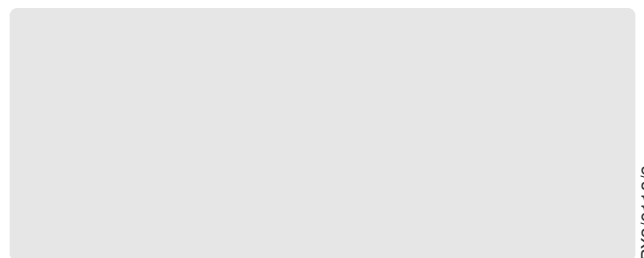
PUM PUM PCASTX

**AKAS**  
Caring 7 billion

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\*Specifications are subject to change without notice