

smiths medical
medfusion™

**Medfusion® 4000 Wireless Syringe Infusion Pump
and PharmGuard® Infusion Management Software**



DELIVERING CARE QUICKLY AND CONFIDENTLY

Moment-by-moment decisions are the lifeblood of your work. So, why not choose a smart infusion system that helps confirm your critical decisions to keep you efficient and effective?

The Medfusion® 4000 syringe infusion pump and PharmGuard® infusion management software is a smart, intuitive system that thinks along with you about infusion accuracy and safety.

SAFE. SIMPLE. SMART

NEONATAL AND PEDIATRIC EXPERTISE

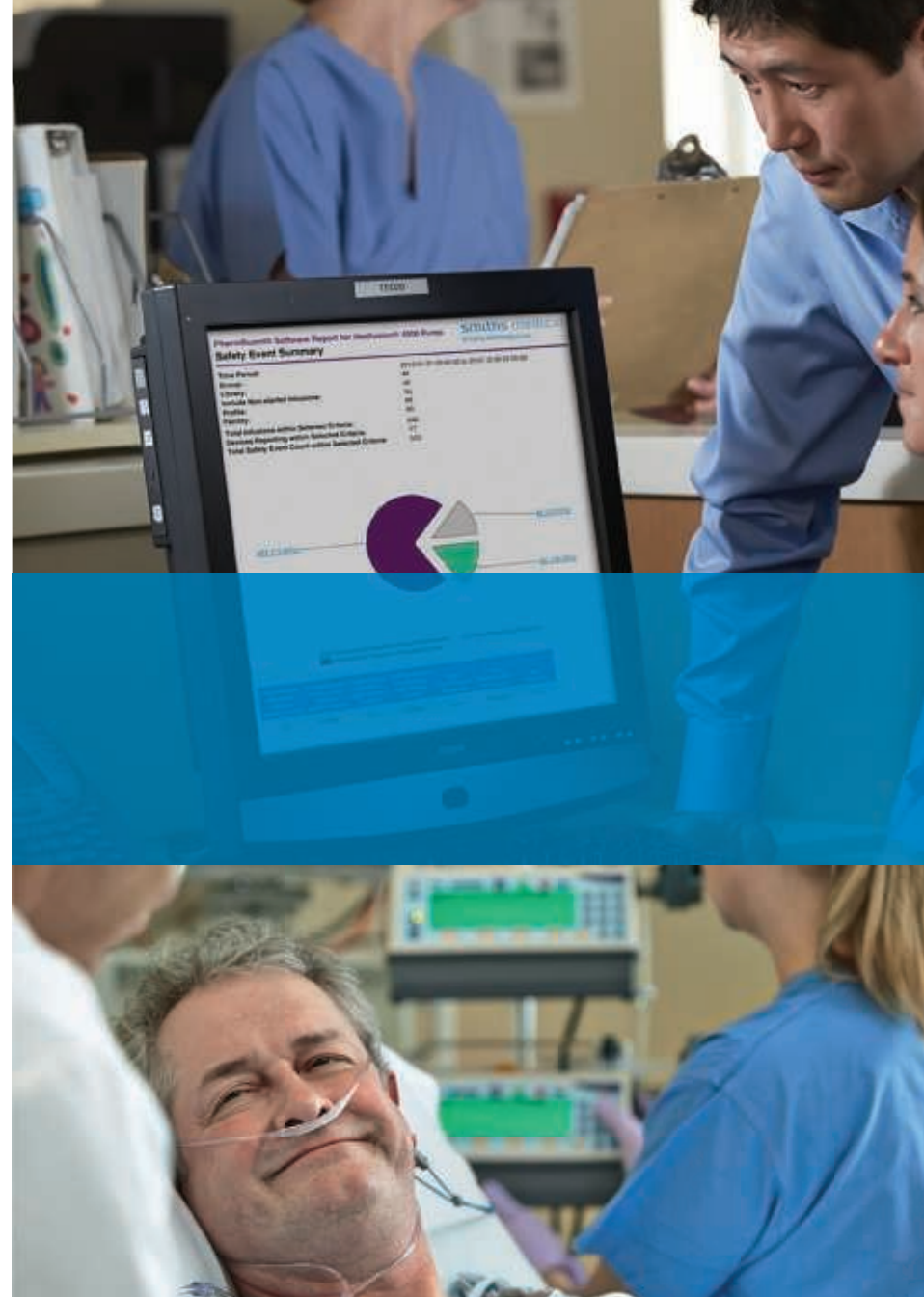
Medfusion® infusion pumps are known for flow rate accuracy. First developed with a National Institutes of Health grant in 1984, they remain NICU-preferred today.


ROBUST REPORTING CAPABILITIES

The pump and software communicate wirelessly, compiling and analyzing data enhancing your CQI efforts with customizable and actionable reports.

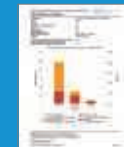
SAFETY OF A MEDICATION LIBRARY

PharmGuard® software detects pump programming errors and helps prevent adverse drug events (ADEs) through drug libraries with hard and soft limits.





IT IS THE MOST
ACCURATE,
EASIEST-TO-USE,
FEATURE-RICH
MEDFUSION®
INFUSION SYSTEM



MEDFUSION® INFUSION PUMP

- Portable for transport care
- Automatically detects various syringe types and sizes from 1mL to 60mL
- Visible syringe to monitor the progress of the infusion
- Allows user-friendly single-handed loading of the syringe
- Large display with TALLman lettering and visible screen in all lighting
- Communications module in each and every base provides wireless access

PHARMGUARD® MEDICATION SAFETY SOFTWARE

Protect your patients from adverse drug events by combining smart pump technology with the safety of a medication library.

PharmGuard® medication safety software is a Dose Error Reduction System (DERS) which helps reduce pump programming errors and ADEs by encouraging the use of standard drug concentrations via customizable drug libraries resident in Medfusion® pumps.

TRUSTED MEDICATION DELIVERY FOR EVERY PATIENT

In the NICU, PICU, ICU, OR and the PACU, you can trust the safety and accuracy of the Medfusion® 4000 syringe infusion pump and PharmGuard® infusion management software system for all your patients, from the youngest to the oldest.

The Medfusion® 4000 syringe pump is intended for small volume infusions, delivering the precise medication dosage to even your tiniest patients. Flow rates deliver with +/- 2% accuracy as low as 0.01 mL/hr.

...AT THE PATIENT'S BEDSIDE

The Medfusion® 4000 infusion pump is always in “medication safety” status, helping to promote your policies and procedures for medication administration and safety. This auto-default to the PharmGuard® drug library enables the use of established drug protocols set by your pharmacists, who can assign hard and soft limits for each drug and profile.

Start an infusion without delay knowing the power of a comprehensive drug library is already activated and supporting you.





FLEXIBLE CONFIGURATIONS FOR THE ENTIRE HOSPITAL

The Medfusion® 4000 syringe infusion pump provides the ability to configure care area profiles and drug protocols which, along with the drug libraries, are maintained with the PharmGuard® infusion management software. Updates are transmitted wirelessly to the entire Medfusion® 4000 pump fleet simultaneously.



CLOSING THE CQI LOOP

Continuous quality improvement is made easier with device-specific reports that are available to the entire infusion management team.

These reports give you the ability to analyze trends, compare performance data against compliance goals, and measure infusion safety to make evidence-based practice decisions.

- Compliance by profile, time of day, trends
- Safety events by drug program, even trigger
- Drug program utilization infusion frequency by drug program
- Device events infusion detail, event history
- Alarm events most frequent, invalid parameter combinations
- Clinical engineering battery status, preventative maintenance, device detail

SPECIFICATIONS



Infusion Pump	
Accuracy	+/- 2%
Size (Height x Width x Depth)	6.2" (16 cm) x 10.5" (27 cm) x 5.7" (14.5 cm)
Weight	3.8 lb (1.7 kg)
Moisture Protection or Fluid Resistant	IPX3 fluid ingress protection
Operating Temperature	41° - 104° F [5° - 40° C]
Relative Humidity	20 - 95% non-condensing
Ambient Pressure	10.2 psia - 15.4 psia (70 kPa - 106 kPa)
MRI Compatibility	Rated MR conditional in accordance with ASTM International
Electromagnetic Compatibility	Tested to EMI/EMC testing per IEC 60601-2-24
Durability (drop height sustainable)	The pump maintains its mechanical integrity and continues to operate within specification after being tested per IEC 60601-1 clause 21.6
Delivery Rate Range (mL/hr)	0.01 - 1130 mL/hr
Minimum Infusion Increment (mL/hr)	0.01 mL/hr
Priming Delivery Rate	300 mL/hr or the default maximum bolus rate for the syringe size being used, whichever is less
Screen Visibility	Excellent visibility. 240 x 64 pixel liquid crystal display. An always-on LED-driven backlight enhances viewing in low light areas
Delivery Modes	Delivery modes are user customizable. Available modes are: mL/hr, dose/min, dose/hr, dose/day, dose/kg/min, dose/kg/hr, dose/kg/day, dose/m2/min, dose/m2/hr, dose/m2/day, mL/kg/min, mL/kg/hr, dose/kg/time, dose/m2/time, mL/kg/time, volume/time, dose/time, intermittent volume/time
Indications / Delivery Routes	Arterial, epidural, enteral, intravenous, intrathecal, and subcutaneous
Dosing Units	Grams, milligrams, micrograms, nanograms, units, milliunits, milliequivalents, and millimoles
Power	Class II - Type CF with functional earth conductor, 110 - 240 VAC, 50/60Hz, 42 VA or rechargeable lithium ion battery
Battery Operating Time	10 hours at 5 mL/hr with 60 mL syringe and a fully charged battery
Recovery Time to Full Battery Charge	10 hours
Compatible Syringes	1 mL - 60 mL syringes by Becton Dickinson WWD, Covidien Monoject™, Terumo®, B.Braun Perfusor®, B.Braun Omnifix®, NeoMed®, Baxa NeoThrive®, Vygon® C-Gon, and Philips Children's Medical Ventures
Equipment Warranty	One year factory warranty with a warranty extension available
Preventative Maintenance (PM)	Annual PM recommended. PM date specified within the PharmGuard® Toolbox 2 software

SPECIFICATIONS CONTINUED

Accessories	
Pole Mounting	Optional rotating pole clamp accessory available
Medication Safety Software	
Dose Error Reduction System	Custom drug libraries are built using PharmGuard® Toolbox 2 V3 software
Dose Delivery Modes	18 delivery modes available, including weight-based modes. Bolus dose option available with limits for dose and time
Minimum Software Requirements	Microsoft® Windows® XP Pro 32-bit with Service Pack 3 or XP Pro 64-bit with Service Pack 2, Microsoft® Vista® 32-bit or 64 bit Business Edition with Service Pack 2, Microsoft® Windows® 7 32-bit or 64-bit Professional, Windows® Server 2003 R2 32-bit or 64-bit with Service Pack 2, Windows® Server 2008 32-bit or 64-bit or Windows® Server 2008 R2 64 bit
Minimum Hardware Requirements	1 GHz 32-bit (x86) processor or 64-bit (x64) processor, 1 GB of system memory (2GB recommended), 15 GB of available space

ORDER INFORMATION

Infusion Pump	
Description	Item Number
Medfusion® 4000 syringe infusion pump	4000-0105
Software	
Description	Item Number
License for PharmGuard® Medication Safety Software	22-0014-0105-01
Annual Subscription, PharmGuard® Server V2.0 Standard Edition	22-0015-01
Annual Subscription, PharmGuard® Server V2.0 Enterprise Edition	22-0016-01
Annual Subscription, PharmGuard® Server V2.0 Lite Edition	22-0024-01
Pole Clamps	
Description	Item Number
Rotating pole clamp (45 and 90 degree)	22-1050-51
Rotating pole clamp (45 and 90 degree) that tilts the pump forward for screen visibility of pumps mounted near the top of the pole	22-1051-51

To learn more, visit www.smiths-medical.com/medfusion
or contact your Smiths Medical representative at 1-800-258-5361

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