

SYSTEM SPECIFICATIONS

SPECIFICATION	DESCRIPTION		
Electronic Medical Records Integration	Allows integration with an Electronic Medical Records (EMR) system, which enables features such as auto-programming of infusion parameters and auto-documentation of infusion therapy information.		
Pump and EMR Association Barcoding	 2-D Unique Identifier Barcode on pump screen display 1-D Unique Identifier Barcode on pump screen display Unique Identifier number on pump screen display Hospital Affixed Barcode 		
Safety Features	 Auto-programming & Auto-documentation EM Dose Error Reduction Software Single Step Rate or Dose Change Limits Time Change Alert Keypad Lock mL/hr Change Confirmation Allow/Disallow mL/hr programming for non-m Post occlusion bolus compensation Rapid occlusion detection for low flow rates 		
Dose IQ Safety Software	 32 care areas 1,000 modifiers, up to 5 per drug 800 clinical advisories 	Pump. ontinuous and volume/time drugs entries based on clinical evidence	

SPECIFICATION	DESCRIPTION	
Drug Library Transfer	 Automatic drug library activation without end user intervention or power cycling of the pump Transfer the drug library Using a wireless network connection any time the pump is on or off (when Sleep Mode is enabled in the drug library file) Transfer the drug library using USB flash drive 	
Administration Sets	All nDEHP tubing	
Real Time Location Services	When the system is in Sleep Mode (AC or Battery), the system reports its location to the network at the time interval (\pm 10%) set in the drug library file.	
Battery Sleep Mode	 The battery pack shall support Sleep Mode (Battery) of at least 14 consecutive days under the following conditions: New, fully charged battery Check-in interval of once per hour Available wireless network connectivity to IQ Enterprise Connectivity Suite 	
Weight	2.8 kg (6.17 lbs) – excludes power adapter	
Overall Pump Size	Height: 10.2 cm (4 in) Width: 24 cm (9.4 in) Depth: 16.1 cm (6.3 in)	
Linear Travel Accuracy	RATEACCURACY $0.01 - 0.49 \text{ mL/hr}$ $\pm 5\%$ $0.5 - 1200 \text{ mL/hr}$ $\pm 2\%$ The overall flow rate accuracy is a factor of pump linear travel accuracy and syringe dimensional accuracy. *These figures are based on sequential 1 hour samples for compatible syringes, subject to the syringe minimum/maximum rates in the Compatible Syringes List (https://service.baxter.com/documents). At flow rates ≤ 0.1 mL/hr, the sample window is defined as the greater of 1 hour or 5% of the syringe volume.	

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Infusion Delivery Modes	 Continuous Amount/Time Volume/Time (including multi-syringe) Basic Mode Enteral 	
Dose Mode Continuous Setting	mL/hr, mL/kg/min, mL/kg/hr, g/hr, mg/hr, mg/kg/hr, mg/min, mg/kg/min, mg/kg/day, mcg/hr, mcg/kg/hr, mcg/min, mcg/kg/min, mcg/kg/day, ng/min, ng/kg/min, Units/hr, Units/kg/hr, Units/min, Units/kg/min, mUnits/min, mUnits/kg/hr, mUnits/kg/min, mEq/hr, mEq/kg/hr, mmol/hr, mmol/kg/hr, MillionUnits/day	
Dose Mode Loading Dose and Bolus	mL, mL/kg, g, mg, mg/kg, mcg, mcg/kg, ng, ng/kg, Units, Units/kg, mUnits, mUnits/kg, mEq, mEq/kg, mmol, mmol/kg	
Dose Modes: Amount/Time Infusions	mL/kg, g, g/kg, g/m², mg, mg/kg, mg/m², mcg, mcg/kg, mcg/m², Units, Units/kg, Units/m², mEq, mEq/kg, mmol, mmol/kg, MillionUnits, MillionUnits/kg, MillionUnits/m²	
Auto-Programming	 Continuous Infusions Amount Over Time Infusions Volume Over Time Infusions Bolus and Loading Doses Rate Changes Dose Changes Disposable Changes Weight or BSA Changes 	
Flow Rate	0.01 – 99.99 mL/hr (precision 0.01 mL/hr) 100.0 – 999.9 mL/hr (precision 0.1 mL/hr) 1000 – 1200 mL/hr (precision 1 mL/hr)	

SPECIFICATION	DESCRIPTION		
KVO	At the completion of an infusion, if the user has configured a KVO for the infusion, the Novum IQ SYR pump will infuse at the KVO rate, or the current infusion rate, whichever is lower until the syringe is empty or reaches the end of travel.		
	Syringe Size (Capacity, mL)	Maximum KVO Flow Rate (mL/hr)	
	1	1	
	3	1	
	5	1.25	
	6	1.5	
	10	2.5	
	12	3	
	20	5	
	30	5	
	35	5	
	50	5	
	60	5	
Total Volume	The Novum IQ SYR pump supports the following range and decimal increment for the total volume given (X): Range: 0.01 - 999mL		
Max Volume Limit per Line Flush	0.1 to 10 mL (inclusive)		
Patient Weight and BSA Limits	Weight Limits: 0.1 – 500 kg BSA Limits: 0.1 m ² – 4m ²		

Tall Man LetteringTALLman lettering functionality is provided to help distinguish between similar
sound-alike drug names which may help reduce eye strain and assist the user in
making the correct selection.

SPECIFICATION	DESCRIPTION
Logging Memory	 While not in use, the Novum IQ SYR pump's memory will retain the last programmed setup screen for 24 hours In case the Novum IQ SYR pump is powered down, the pump history log will be maintained, and a time stamp will be added to the log recording the beginning and end of the down time After a total loss of power, the contents of the log will not be lost Minimum 4,400 Event Log Capacity NOTE: An event is any user-confirmed data entered into the pump. Once the maximum log file size is reached, the data for each new event replaces the data for the oldest event (the data for the oldest event is lost).
AC Power Adaptor	 AC Power Adaptor, low profile, covers only one outlet, Medical Grade (IEC60601-1-2:2014): Input: 100-240 V~, 50-60 Hz, max current draw of 0.5A Output: 16 VDC/1.25A, short circuit protected Cord length: 3.0 m (approximately 9.8 ft)
Battery Power and Capacity	 Novum IQ SYR Smart Battery Pack Lithium Ion, 10.8 VDC Nominal Capacity 10.5 hrs typical (at 5 mL/hr at the highest backlight setting) Capacity 8 hrs (at 10 mL/hr at the medium backlight setting and Wi-Fi on) 16 hr recharge time at 23°C ± 2°C (73.4°± 3.6°F)
Device Classification	 The Novum IQ SYR pump is classified according to Medical Electrical Equipment standards as: Class II Equipment Type CF Applied Part (Note: Applied part is IV Administration Set) Continuous Operation Disinfect according to manufacture cleaning instructions Not suitable for use in the presence of a flammable anesthetic mixture with air or with oxygen or nitrous oxide. IPX2 - Water protection (offers protection from dripping water when the Novum IQ SYR pump is rotated 15 degrees any direction from vertical for at least 10 minutes).
Pumping Mechanism	Motorized pumping lead screw mechanism
Display	Color LCD Front-Lit Super Fine TFT Screen with 800x480 pixel resolution

SPECIFICATION	DESCRIPTION			
Alarm Volume and Tone	 Variable, three levels: high, medium (default), low Alarm tone IEC 60601-1-8 Compliant 			
Maximum Allowable Pressure while in Downstream Occlusion	310 kPA (45 psi)			
Downstream	Adjustable Pressure			
Occlusion Detection	Setting	Occlusion Pressure (PSI)	Lower Limit (PSI)	Upper Limit (PSI)
	Very High (VH)	32.5	20	45
	High (H)	17	10	24
	Medium High (MH)	15	10	20
	Medium (M)	11	6	16
	Low (L)	9	4	14
	Very Low (VL)	6	1	11
Bi-Directional Wireless Communication	 EMR Integration Drug Library Transfer CQI Reporting. Conforms to industry standards IHE profiles for device integration. PCD-01 (Auto-documentation volume increments) PCD-10 (Auto-documentation events) PCD-03 (Auto-programming) PCD-04 (Alarm routing) 			
Operational Conditions	Operating temperature: 10 to 40°C (50 to 104°F), 10–95% relative humidity non- condensing Atmospheric Pressure: 70 kPA to 102 kPA			
Storage and Packing Conditions	Storage temperat	ture: -10 to 49°C (14 to) 120°F), 10-95% re	lative humidity non-
Wireless Network	• Frequency: 2.	.4 Ghz, 5.0 Ghz		
Interface		E 802.11 a/b/g/n/ac		
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SPECIFICATION	DESCRIPTION	
Software Updates	Wireless OTA Firmware, USB flash drive	
Wireless Security	 WEP (Wired Equivalent Privacy) Encryption: 64/128-bit (RC4) WPA/WPA2/802.11i Encryption: TKIP, CCMP (AES) Wireless Security WPA-PSK WPA2-PSK 802.1X authentication PEAP/MSCHAPv2 EAP-TLS EAP-TTLS/PAP EAP-TTLS/MSCHAPv2 	
External Interfaces	USB 2.0 Type-A receptacle, 250 mA	
Device Useful Life	10 years	

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