

Safety

Connectivity

Mobility

Rythmic™ Ultima

Rythmic™ Ultima XS Yellow
Rythmic™ Ultima S Yellow
Rythmic™ Ultima XL Yellow

micrel
Elevating infusion care

Technical specifications

Rythmic™ Ultima XS, S and XL (Yellow)

Model	REF	Wifi	Cellular*	Dimension (W x H x D)	Weight
Rythmic™ Ultima XS (Yellow)	15101	•		131 x 90 x 48 mm	398g
Rythmic™ Ultima XS (Yellow) Cellular	15102	•	•		
Rythmic™ Ultima S (Yellow)	15105	•		131 x 140 x 48 mm	443g
Rythmic™ Ultima S (Yellow) Cellular	15106	•	•		
Rythmic™ Ultima XL (Yellow)	15109	•		129 x 298 x 78 mm	792g
Rythmic™ Ultima XL (Yellow) Cellular	15110	•	•		

* 3G with 2G fallback

Delivery modes	 • Continuous  • Bolus only	 • Continuous + Bolus  • Programmed Automatic Bolus (PAB)
Flow rate and accuracy	0.1 to 600 mL/h ± 5%	
Programming units	mL/mg/µg	
Concentration	0.1 to 99.9 mg/mL (0.1mg/mL incr.) and 0.1 to 999.9 µg/mL (0.1 µg/mL incr.)	
Volume to infuse	1 to 9999 mL (1 mL incr.)	
Patient bolus amount	0 or from 0.1 to 60 mL (0.1 mL incr.) // 0.1 to 999.9 mg (0.1 mg incr.) // 0.1 to 999.9 µg (0.1 µg incr.)	
Bolus rate	from 20 to 600 mL/h (10 ml/h incr.)	
Bolus lockout interval	0 to 999 min(1 min incr.)	
Safety features	• Air in line eliminating filter • Anti-siphon valve in administration sets • Air detection	• Drug library & Protocol list with hard & soft limits • Lockable protective drug container cover • 3 code protected and configurable access levels
Special functions	• Drug library (up to 300 medication protocols) • Protocol list (up to 150 medication protocols) • Dose limit/x hours and Bolus limit/y hours • Loading dose • Clinician bolus override	• Mandatory priming (enabled, warning only, disabled) • Automatic priming through the pump • Delayed start (up to 24 hours) • Lockable pump keyboard • Automatic restart after occlusion release
Connectivity features	• 'Ready to connect' to www.micrelcare.net for therapy monitoring	• Wi-Fi and cellular
Network specification	• Cellular connecivity via Micro SIM (Not included/in option) via 2G (GSM/GPRS): 900/1800 MHz 3G (UMTS/HSPA): 900/2100 MHz	• GSM/(E)GPRS - 900/1800 MHz (max. power 2 W) • 802.11b/g/n (2.4 GHz, max. power 0.1 W)
Infusion monitoring	Pain scores (list & graph) // Bolus events (list & graph) // Patient bolus per hour (demanded & given) // Remaining time // Total amount and bolus amount infused // History, Computer downloadable // Connect to www.micrelcare.net for remote therapy monitoring (cloud-/ web-based)	
Programming	• Direct manual programming • Programming using protocol libraries with safety limits, created in Infusion Library module of Micrelcare	
KVO	0 to 2.0 ml/h (0.1 mL/h incr.)	
Priming rate & time	max. 600 mL/h // Average time to prime a Full set is 10-15 seconds, to prime a Spike set is 8-10 seconds	
Occlusion limits	3 levels: low = 0.5 bar, medium = 1 bar, high = 1.5 bar	
High priority alarms	Air in line // Battery depleted // Battery missing // Bolus key stuck // Device error // Door open // Up-/Downstream occlusion // Infusion completed // Pump stop or running KVO // Key stuck // Pump unattended // Set misplaced	
Low priority alarms	Battery Low // Bolus handset disconnected // Date and time settings may be lost // Library Data Lost // Infusion near end // Preventive maintenance due // Pump cannot start // Pump settings lost	
Air detector	Yes and adjustable air bubble size: 0.1 mL, 0.5 mL, 1 mL, Off	
Event log	6500 time-stamped events	
Preventive maintenance	Every 2 years (or 2500 litres of operation)	
Power supply and autonomy**	• 2x AA Alkaline batteries (LR6): 350 hrs at 1 mL /h • Rechargeable battery (1400 mAh): 260 hrs at 1 mL/h, rechargeable in 3.5 h • Power supply mains: 100 to 240 V, 50-60 Hz, 170 mA	
Applied standards	ISO 13485 // EN IEC 60601-1 // EN IEC 60601-1-2 // EN IEC 60601-1-8 // EN IEC 60601-1-11 // EN IEC 60601-2-24	
Packaging content	Bolus handset // 2 x AA Alkaline battery // Instruction for use // Short insruction for use // Keys // XS, S: carrying case	

** Wireless connectivity disabled

Rythmic™ Administration Sets

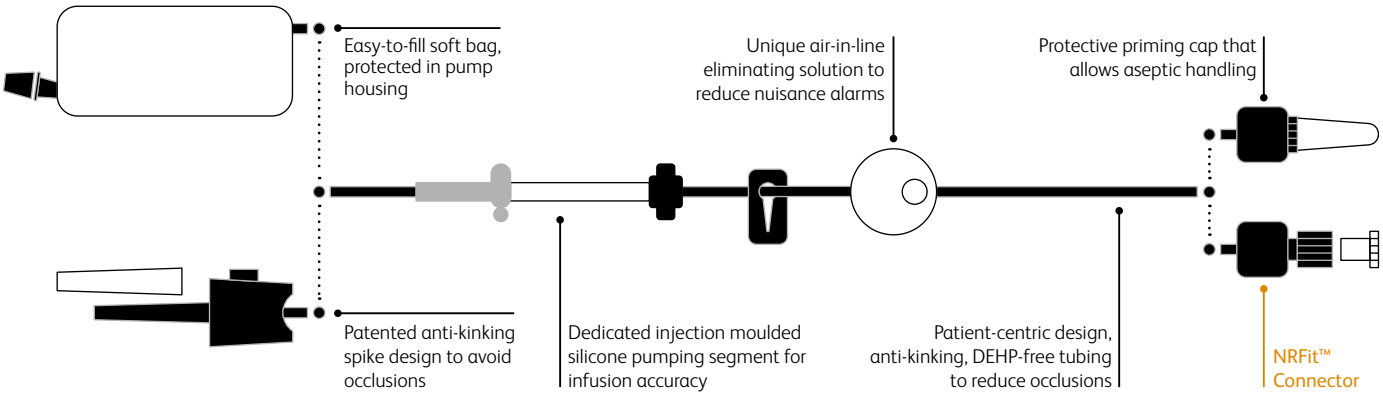
for Rythmic™ Ultima XS, S and XL (Yellow)

Set type	REF	Priming volume (ml)	Up-Downstream tubing length (cm)	Filter pore size (µm)	Units/box	Compatible with pump size
• **Yellow Mini Full Set 100 mL** • **Yellow Mini Full Set 100 mL with NRFit™ Connector ***	KE1.EE.167.0 KE1.EE.339.2	1.9	–/150	0.2	20	XS + S
• **Yellow Mini Full Set 200 mL** • **Yellow Mini Full Set 200 mL with NRFit™ Connector *** • **Yellow Mini Full Set 250 mL** • **Yellow Mini Full Set 250 mL with NRFit™ Connector ***	KE1.EE.190.0 KE1.EE.340.2 KE1.EE.362.1 KE1.EE.360.1	1.9	–/150	0.2	20	S
• **Yellow Spike Set** • **Yellow Spike Set with NRFit™ Connector *** Supports infusion from external third-party medication	KM1.EE.160.0 KM1.EE.337.2	2.6	60/150	0.2	20	XS + S + XL
• **Yellow Spike Set S** • **Yellow Spike Set S with NRFit™ Connector *** Supports infusion from external third-party medication	KM1.EE.162.0 KM1.EE.187.2	2.6	20/220	0.2	20	XS +S + XL

* Male NRFit™ Connector: Compliance to ISO 80369-6 Standard for Male Neuraxial Lock Connectors

- External third party containers can be connected via respective Rythmic administration set
- XS model accommodates custom bags up to 100 mL, S model up to 250 mL, XL model up to 500 mL
- Full Set 250 ml variants: availability depending on market

Set features for bag and spike sets



- Anti free flow, pressure activated and one-way check valve
- DEHP and Latex free
- Storage Temperature: 5 – 30° C
- Sterilisation: ETO
- Shelf life: 60 months

Rythmic™ Accessories

Rythmic™ pumps should only be used with dedicated Rythmic™ accessories

Rythmic™ XS Carrying Bag



- Weight: 132 g
- Dimensions (h x w x d): 14,5 x 10,5 x 5,5 cm

REF: 81074

Rythmic™ S Carrying Bag



- Weight: 150 g
- Dimensions (h x w x d): 14,5 x 14,5 x 5 cm

REF: 81060

Rythmic™ XL Carrying Shoulder Bag



- Weight: 1.200 g
- Dimensions (h x w x d): 33 x 20 x 9 cm

REF: KM1.YY.418.2

Rythmic™ XS Carrying Shoulder Bag, 1000 mL



- Weight: 1.500 g
- Dimensions (h x w x d): 40 x 20 x 10 cm

REF: KM1.YY.563.1

Rythmic™ XS Carrying Waist Bag, 250 mL



- Weight: 260 g
- Dimensions (h x w x d): 14 x 33 x 10 cm
- Capacity of the waist bag: up to 250 mL

REF: KM1.YY.506.2

Rythmic™ XL Carrying Shoulder Strap

REF: KM1.YY.491.2

Rythmic™ XS Carrying Shoulder Bag single use



- Weight: 8 g
- Dimensions (h x w): 10 x 14 cm

REF: KM1.YY.566.1

Rythmic™ S Carrying Shoulder Bag single use



- Weight: 10 g
- Dimensions (h x w): 15 x 15 cm

REF: KM1.YY.547.1

Rythmic™ XL Carrying Shoulder Bag single use



- Weight: 18 g
- Dimensions (h x w): 30 x 17 cm

REF: KM1.YY.548.1

Rythmic™ Ultima/Serena Rechargeable Battery



- Weight: 33 g
- 1400 mAh

REF: 81070

Rythmic™ Power Adaptor Plug



REF:
KS5.04.043.1 Type A (US)
KS5.01.615.4 Type C (EU)
KS5.04.021.2 Type G (UK)
KS5.04.041.1 Type I (AU)

MicrelCom System (RS232 & USB)

Compatible with all Rythmic™ pumps
- Connects the pump with the PC
- Provided with USB to serial adaptor.

REF: KS5.04.046.1

Bolus Handset Rythmic™ Ultima



Compatible with all Rythmic™ Ultima pumps, generates tactial (vibration) and visual feedback when requesting a bolus

REF: 81043

Rythmic™ Pole Clamp

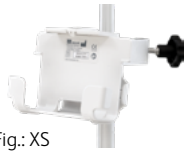


Fig.: XS

Compatible with Rythmic™ pumps XS & XL

REF:
KS5.04.017.5 (size XS)
KS5.01.524.3 (size XL)

Rythmic™ Permanent Key



Compatible with all Rythmic™Ultima XS, S pumps

REF: KM1.YY.595.1

Rythmic™ Key Set



2 keys with ring and clip.
Compatible with all Rythmic™ Ultima XS, S pumps

REF: KS5.01.190.1

Rythmic™ Organizer 500/501 Keys

2 keys.
Compatible with Rythmic™ Ultima XL pumps

REF: KS5.01.199.1

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