

Rythmic™ Evolution

PRODUCT INFORMATION

Reference	KP5.04.125.4 Rythmic™ Evolution (blue) KP5.04.136.4 Rythmic™ Evolution (blue rechargeable) KP5.04.261.3 Mini Rythmic™ Evolution Lockable (blue) KP5.04.265.3 Mini Rythmic™ Evolution Lockable (blue rechargeable) KP5.04.141.4 Rythmic™ Evolution Organiser 500 (blue)	KP5.04.144.5 Rythmic™ Evolution Organiser 501 (blue rechargeable) KP5.04.269.1 Mini Rythmic™ Evolution Lockable (blue rechargeable) UK KP5.04.190.1 Rythmic™ Evolution (blue rechargeable) UK KP5.04.151.5 Rythmic™ Evolution Organiser 501 (blue rechargeable) UK KP5.04.186.1 Rythmic™ Evolution (blue rechargeable, No key) UK
Delivery modes	- Continuous - Bolus only - Continuous + bolus - Programmed Automatic Bolus (PAB) with combined PCA	
Flow rate and Accuracy	0.1 to 100 ml/hr (configurable maximum rate) at +/- 5%	
Programming units	ml/mg/µg	
Concentration	0.1 to 99.9 mg/ml and 0.1 to 999.9 µg/ml	
Volume to infuse	1 to 9999 ml	
Bolus dose	0 or from 0.1 to 60 ml with 0.1 ml increment	
Bolus flow rate	100 ml/h, adjustable from 50 to 100 ml/h with 10 ml/h increment	
Lockout interval	0 to 999 minutes	
Special functions	Protocol libraries (60 protocols per library) - Dose limit / x hours and Bolus limit / x hours - Loading dose - Clinician bolus override - Mandatory priming (enabled, warning only, disabled) - Automatic priming through the pump - Lockable pump keyboard	
Therapy monitoring	Recording of patient pain scores with visual analogue scale (VAS) - VAS available in the pump history - Printable and computer downloadable - Ready to Connect to www.micrelcare.net for therapy monitoring through the web	
KVO	0.1 to 2.0 ml/h	
Automatic restart after occlusion release	Yes	
Safety features	Air in line elimination filter - Free flow protection - Programming within protocol limits - Lockable protective cover for drug container - Code protected stop of infusion	
Alarms & warnings	Occlusion (low 0.8 bar, middle 1.2 bar, high 1.6 bar) - Near end and end of infusion - Low and depleted battery - Dose limit, bolus limit - Open mechanism - Preventive maintenance warning	
Access code levels	3	
Programming	Protocol libraries programmed with 'Rythmic™ Evolution Therapy Manager' computer software Direct programming on the pump possible	
Languages	Bulgarian, Croatian, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Lithuanian, Norwegian, Polish, Portuguese, Russian, Serbian, Slovenian, Spanish, Swedish	
History, infusion graph / printout and PC download	Yes, including 6500 time stamped events event log - 'Plug and play' print facility	
Power supply	100 to 240 V, 50-60 Hz (with optional adaptor KS5.01.615.4)	
Preventive maintenance	Every 3 years	

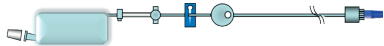
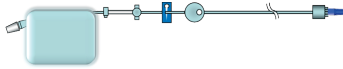
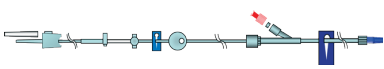
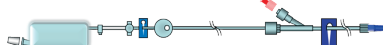
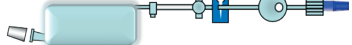
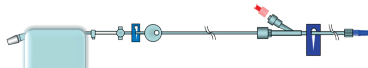


Includes bolus, battery, carrying bag & keys
(carrying bag applies for Rythmic™ Evolution and Mini Rythmic™ Evolution models)



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DEHP free set range

Rythmic Administration Set range for Rythmic™ Evolution systems			
Mini Full Set 100 mL KE1.EE.177.9		Spike Set S KM1.EE. 155.9	
Full Set 200 mL KE1.EE.185.9		Spike Set S Y KM1.EE.187.9	
Y Mini Full Set 100 mL KE1.EE.195.9		Short Set 100 mL KE1.EE.158.9	
Y Full Set 200 mL KE1.EE.196.9		Valve Extension Set with filter 0,2 um KE1.EE.220.1	
Spike Set KM1.EE. 099.1		Luer Set KE1.EE.197.9	

Accessories for Rythmic™ Evolution Systems					
	Carrying bag for Rythmic™ Included in all Rythmic™ Evolution systems KM1.YY.415.2		Carrying bag 500 ml for Rythmic™ and IP Connect KM1.YY.318.2		Mini Rythmic™ Bag 500 ml KM1.YY.365.1
	Mini Rythmic™ Bag Included in all Rythmic™ Evolution systems Blue KM1.YY.400.1		Disposable Carrying bag for Mini Rythmic™ KM1.YY.566.1		Banana carrying bag 200 ml for Mini Rythmic™ KM1.YY.506.2
	IP Connect Pack nc KP5.04.259.2		Evolution Bolus Handset KS5.04.505.2		Micrel Power Adaptor nc (Available also UK and USA Nema) KS5.01.615.4
	Pole Clamp mini Rythmic™ KS5.04.017.5		Rythmic™ holder with Pole Clamp KS5.01.430.3		Pole Clamp Rythmic™ 500/501 KS5.01.524.3

Rythmic™ Evolution

PRODUCT INFORMATION

Reference	KP5.04.263.3 Mini Rythmic™ Evolution Lockable (Yellow) KP5.04.267.3 Mini Rythmic™ Evolution Lockable (Yellow rechargeable) KP5.04.130.3 Rythmic™ Evolution (Yellow) KP5.04.173.4 Rythmic™ Evolution (Yellow rechargeable) KP5.04.147.4 Rythmic™ Evolution Organiser 500 (Yellow)	KP5.04.150.5 Rythmic™ Evolution Organiser 501 (Yellow rechargeable) KP5.04.268.3 Mini Rythmic™ Evolution Lockable (Yellow rechargeable) UK KP5.04.249.1 Rythmic™ Evolution (Yellow rechargeable) UK KP5.04.152.5 Rythmic™ Evolution Organiser 501 (Yellow rechargeable) UK
Delivery modes	- Continuous - Bolus only - Continuous + bolus - Programmed Automatic Bolus (PAB) with combined PCA	
Flow rate and Accuracy	0.1 to 100 ml/hr (configurable maximum rate) at +/- 5%	
Programming units	ml/mg/µg	
Concentration	0.1 to 99.9 mg/ml and 0.1 to 999.9 µg/ml	
Volume to infuse	1 to 9999 ml	
Bolus dose	0 or from 0.1 to 60 ml with 0.1 ml increment	
Bolus flow rate	100 ml/hr, adjustable from 50 to 100 ml/hr with 10 ml/hr increment	
Lockout interval	0 to 999 minutes	
Special functions	Protocol libraries (60 protocols per library) - Dose limit / x hours and Bolus limit / x hours - Loading dose - Clinician bolus override - Mandatory priming (enabled, warning only, disabled) - Automatic priming through the pump - Lockable pump keyboard	
Therapy monitoring	Recording of patient pain scores with visual analogue scale (VAS) - VAS available in the pump history - Printable and computer downloadable - Ready to Connect to www.micrelcare.net for therapy monitoring through the web	
KVO	0.1 to 2.0 ml/hr	
Automatic restart after occlusion release	Yes	
Safety features	Air in line elimination filter - Free flow protection - Programming within protocol limits - Lockable protective cover for drug container - Code protected stop of infusion	
Alarms & warnings	Occlusion (low 0.8 bar, middle 1.2 bar, high 1.6 bar) - Near end and end of infusion - Low and depleted battery - Dose limit, bolus limit - Open mechanism - Preventive maintenance warning	
Access code levels	3	
Programming	Protocol libraries programmed with 'Rythmic™ Evolution Therapy Manager' computer software Direct programming on the pump possible	
Languages	Bulgarian, Croatian, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Lithuanian, Norwegian, Polish, Portuguese, Russian, Serbian, Slovenian, Spanish, Swedish	
History, infusion graph / printout and PC download	Yes, including 6500 time stamped events event log - 'Plug and play' print facility	
Battery autonomy	6 days at 5 ml/hr*	
Power supply	100 to 240 V, 50-60 Hz (with optional adaptor KS5.01.615.4)	
Preventive maintenance	Every 3 years	

*Based on a continuous delivery mode and indicative of battery life, depending on temperature conditions, infusion rate, battery brand and backlight

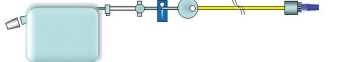
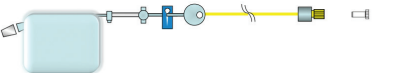
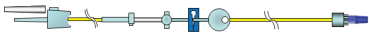
All models include bolus, battery, carrying bag & keys (carrying bag applies for Rythmic™ Evolution and Mini Rythmic™ Evolution models)



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DEHP free set range

Rythmic™ Administration Set range for Rythmic™ Evolution systems

NRfit™ Connector		Luer Connector	
Yellow Spike Set with NRfit™ Connector KE1.EE.337.1		Yellow Mini Full Set 100 mL KE1.EE.167.9	
Yellow Spike Set S with NRfit™ Connector KE1.EE.338.1		Yellow Full Set 200 mL KE1.EE.190.9	
Yellow Mini Full Set 100 mL with NRfit™ Connector KE1.EE.339.1		Yellow Spike Set KM1.EE.160.9	
Yellow Full Set 200 mL with NRfit™ Connector KE1.EE.340.1		Yellow Spike Set S KM1.EE.162.9	

Accessories for Rythmic™ Evolution Systems

	Carrying bag for Rythmic™ Included in all Rythmic™ Evolution systems KM1.YY.415.2		Carrying bag 500 ml for Rythmic™ and IP Connect KM1.YY.318.2		Mini Rythmic™ Bag 500 ml KM1.YY.365.1
	Mini Rythmic™ Bag Included in all Rythmic™ Evolution systems KM1.YY.400.1		Disposable Carrying bag for Mini Rythmic™ KM1.YY.566.1		Banana carrying bag 200 ml for Mini Rythmic™ KM1.YY.506.2
	IP Connect Pack nc KP5.04.259.2		Rythmic™ Evolution Bolus Handset KS5.04.505.2		Micrel Power Adaptor nc (Available also UK and USA Nema) KS5.01.615.4
	Pole Clamp mini Rythmic™ KS5.04.017.5		Rythmic™ holder with Pole Clamp KS5.01.430.3		Pole Clamp Rythmic™ 500/501 KS5.01.524.3

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