





Product Comparison Matrix

				
	microQuark	Pony FX	Pony FX Mip/Mep	Quark Spiro
Technology				
Spirometer Type	PC based	Desktop	Desktop	Stationary
Flowmeter				
Characteristics	Digital Bidirectional Turbine	Digital Bidirectional Turbine	Digital Bidirectional Turbine	Digital Bidirectional Turbine
Volume Accuracy	±2.5% or 50 mL	±2.5% or 50 mL	±2.5% or 50 mL	±2.5% or 50 mL
Flow Accuracy	±5% or 200 mL/s	±5% or 200 mL/s	±5% or 200 mL/s	±2% or ±20 mL/s
Volume Range	0-12 L	0-12 L	0-12 L	0-12 L
Flow Range	0-16 L/s	0-16 L/s	0-16 L/s	0-16 L/s
Resolution	12 mL	12 mL	12 mL	12 mL
Resistance	<0.8 cmH2O/L/s @14L/s	<0.8 cmH2O/L/s @14L/s	<0.8 cmH2O/L/s @14L/s	<0.6 cmH2O/L/s @ 14 L/s
Calibration	w/ 3L Syringe	w/ 3L Syringe	w/ 3L Syringe	w/ 3L Syringe
Printing				
Built-in high speed thermal printer		●	●	
Direct USB connection w/external printer				
PC printer (through software)	●	●	●	●
Hardware				
Display	PC monitor	Colour LCD 320x240 pixel	Colour LCD 320x240 pixel	PC monitor
Interfaces	USB	USB/RS232	USB/RS232	USB/RS-232
Memory capacity	PC limited	400-600 tests	400-600 tests	PC limited
Batteries Autonomy (operating mode)		5 hours	5 hours	
Electrical Requirements	USB (5V)	AC/DC 100-240V	AC/DC 100-240V	AC/DC 100-240V
Dimensions (cm)	15x4.5x5.3	19.8x23.8x7.6	19.8x23.8x7.6	33x41x16
Weight (g)	77	1200	1200	6000
Tests				
Forced/Slow Vital Capacity (FVC-SVC), Pre/Post	●	●	●	●
Maximum Voluntary Ventilation (MVV)	●	●	●	●
Bronchial Challenge Test	●	●	●	●
Bronchial Challenge Test with integrated dosimeter				○
Airway Resistance (Rocc/Rint)		○	○	○
Respiratory Mechanics (MIP/MEP)			●	
Forced Oscillation Technique (FOT)				○
6 Minute Walk Test (6MWT)				
Oxygen Saturation (SpO ₂ , HR) w/ Nonin® ipod		○	○	

● Standard ○ Upgrade

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