






Product Comparison Matrix						
		microQuark	Pony FX	Pony FX Mip/Mep	Spiropalm 6MWT	Quark Spiro
Technology						
Spirometer Type		PC based	Desktop	Desktop	Desktop	Stationary
Flowmeter						
Characteristics		Digital Bidirectional Turbine	Digital Bidirectional Turbine	Digital Bidirectional Turbine	Digital Bidirectional Turbine	Multi-use Pneumatich (Lilly)
Accuracy		±2% or 20 ml/s	±2% or 20 ml/s	±2% or 20 ml/s	±2% or 20 ml/s	±2% or 20 ml/s
Flow Range		0-16 l/s	0-16 l/s	0-16 l/s	0-16 l/s	0-14 l/sec
Ventilation Range (MVV - Exercise)		0-300 l/min	0-300 l/min	0-300 l/min	0-300 l/min	
Resolution		12 ml	12 ml	12 ml	12 ml	1 ml
Resistance		<0.6 cmH2O/l/s @14l/s	<0.6 cmH2O/l/s @14l/s	<0.6 cmH2O/l/s @14l/s	<0.6 cmH2O/l/s @14l/s	<1.0 cmH2O/l/s @ 14 l/s
Calibration		w/ 3L Syringe	w/ 3L Syringe	w/ 3L Syringe	w/ 3L Syringe	w/ 3L Syringe
Printing						
Built-in high-speed thermal printer (110mm)			•	•		
Direct USB connection w/ external printer (HP PCL-3 compatible)			•	•	•	
PC printer (through software)		•	•	•	•	
Hardware						
Display		PC monitor	Colour LCD 320x240 pixel	Colour LCD 320x240 pixel	LCD B/W 320x240 pixel	PC monitor
Interfaces		USB	USB/RS232	USB/RS232	USB	USB/RS-232
Memory capacity		PC limited	400-600 tests	400-600 tests	600-1000 tests	PC limited
Batteries Autonomy (operating mode)			5 hours	5 hours	6 hours	
Electrical Requirements		USB (5V)	AC/DC 100-240V	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	18.5x8.6x3.1	33x41x16
Weight (gr)		77	1,200	1,200	600	6,000
Software						
PC Software (OMNIA)		•	•	•	•	•
Available languages		Italian, English, Spanish, French, German, Portuguese, Greek, Dutch, Turkish, Russian, Chinese (Traditional & Simplified), Korean, Romanian, Polish, Czech, Norwegian, Hebrew				
PC Configuration		i3 or higher processor speed. Compatible with Windows 7, 8, 8.1, 10 (32 or 64 bit). RAM 4GB (8GB recommended). HD with 10GB of free space				
Predicted Values (partial listing)		2012 Global Lung initiative (GLI), ERS 1993 (ECCS 1983), NHANES III, Knudson 83, ECCS 1971, ITS, Zapletal, LAM, Pneumobil, Gutierrez (Chile), Multicentrico Barcelona, Thai 2000, Austria (Forche), Crapo 1981 user defined predicted calculations.				
Automatic Interpretation		ATS/ERS 2005 (Spirometry), GOLD COPD, ATS/ERS 2005 (Obstruction Reversibility based on FVC Post BD), ATS/ERS 2007 (Obstruction Reversibility based on Rocc)				
Tests						
Spirometry						
Forced/Slow Vital Capacity (SVC-FVC)		•	•	•	•	•
Maximum Voluntary Ventilation (MVV)		•	•	•	•	•
Bronchial Challenge Test (Pre-Post)		•	•	•	•	•
Bronchial Challenge Test with integrated dosimeter						○
Airway Resistance (Rocc/Rint)			○	○		○
Respiratory Mechanics (MIP/MEP)			○	•		
6 Minute Walk Test (6MWT)					•	
Oxygen Saturation (SpO ₂ , HR) w/ Nonin ipod			○	○	•	