

Product Comparison Matrix



Features	microQuark	Pony FX	Pony FX Flowsafe	Spiropalm	Spiropalm 6MWT	Quark Spiro
Type of product	PC based	Desktop	Desktop	Hand-held	Hand-held	Stationary
Integrated Thermal printer		High-speed 110 mm	High-speed 110 mm			
Display	PC monitor	Colour LCD 320x240 pixel	Colour LCD 320x240 pixel	LCD B/W 320x240 pixel	LCD B/W 320x240 pixel	PC monitor
Patient Set-up (Spirometry)	Mouthpieces/Filters	Mouthpieces/Filters		Mouthpieces/Filters	Mouthpieces/Filters	Mouthpieces/Filters
Patient Set-up (6MWT)					Face Mask (6MWT),	
Integrated Pulse Oximeter		Nonin ipod (option)	Nonin ipod (option)	Nonin ipod (option)	Nonin ipod	Nonin ipod (option)
PC Software	•	•	•	•	•	•
USB Direct Printing		HP PCL-3 compatible	HP PCL-3 compatible	HP PCL-3 compatible	HP PCL-3 compatible	
PC/Printer Interface	USB	USB/RS232	USB/RS232	USB	USB	USB/RS-232
Memory capacity	PC limited	400-600 tests	400-600 tests	600-1000 tests	600-1000 tests	PC limited
Calibration	3L Syringe (option)	3L Syringe (option)	3L Syringe (option)	3L Syringe (option)	3L Syringe (option)	3L Syringe (option)
Batteries Autonomy (operating mode)		5 hours	5 hours	6 hours	6 hours	
Electrical Requirements	USB (5V)	AC/DC 100-240V	AC/DC 100-240V	AC/DC 100-240V	AC/DC 100-240V	AC/DC 100-240V
Dimensions (cm)	50x4.5x53	20x2.8x7.6	20x2.8x7.6	18x7.5x3	18x7.5x3	33x41x16
Weight (gr)	77	1,200	1,200	300	300	6,000

Flowmeter	microQuark	Pony FX	Pony FX Flowsafe	Spiropalm	Spiropalm 6MWT	Quark Spiro
Type	Turbine	Turbine	Single-use Pneumatich	Turbine	Turbine	Multi-use Pneumatich
Characteristics	Digital Bidirectional	Digital Bidirectional	Lilly	Digital Bidirectional	Digital Bidirectional	Lilly
Accuracy	±2%	±2%	±2%	±2%	±2%	±2%
Flow Range	0.08-20 l/s	0.08-20 l/s	0.04-16 l/s	0.08-20 l/s	0.08-20 l/s	0.04-16 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	1 ml	12 ml	12 ml	1 ml
Resistance	<0.6 cmH2O/l/s @14l/s	<0.6 cmH2O/l/s @14l/s	<1.0 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
Additional available flowmeters			Multi-use Pneumatich			Single-use Pneumatich, Turbine

Measurements	microQuark	Pony FX	Pony FX Flowsafe	Spiropalm	Spiropalm 6MWT	Quark Spiro
--------------	------------	---------	------------------	-----------	----------------	-------------

Spirometry

Forced/Slow Vital Capacity (SVC-FVC)	•	•	•	•	•	•
Maximum Voluntary Ventilation (MVV)	•	•	•	•	•	•
Bronchial Challenge Test (Pre-Post)	•	•	•	•	•	•
Bronchial Challenge Test with integrated dosimeter						○
Airway Resistance (Roccc/Rint)		○	○			○

6 Minute Walk Test (6MWT)

Ventilation (VE)					•	
Respiratory Frequency (RF)					•	
Dynamic Inspiratory Capacity (IC)					•	
Dyspnea & Fatigue (Borg Scale)					•	
Breathing Reserve (BR)					•	
Oxygen Saturation (SpO ₂)		○	○	○	•	○
Heart Rate (HR)		○	○	○	•	○

• Standard ○ Option