Pony FX

Desktop Spirometer

> **Effective, simple lung screening in any environment**

- **Full spirometry testing (FVC, SVC, MVV, Pre/Post BD)**

- **Airway resistance by Occlusion Technique (option)**

- **Respiratory Mechanics MIP/MEP (option)**

- **Oxygen Saturimetry with integrated SpO$_2$ monitor (option)**

- **Colour LCD display with real time graphs and embedded high speed Thermal Printer**

- **Turbine flowmeter fully complies with ATS standards**

- **Provided with OMNIA software for data management, real time testing and interpretation on PC**

Advanced desktop spirometer with spirometry, airway resistance and respiratory mechanics

Pony FX is the new generation family of portable spirometers from COSMED, representing the ideal solution for flexible lung function screening in many fields of application.

Two different Pony FX models are now available:

Pony FX: spirometry testing with COSMED validated digital bidirectional turbine flowmeter

Pony FX MIP/MEP: desktop spirometer with included kit for respiratory mechanics measurements (MIP/MEP)

Pony FX design allows easy spirometry testing without sacrificing anything to functionality. An alphanumeric keyboard and the navigator tool allow simple user access to all functions: enter patient data, move rapidly through the menus, perform all available tests and check in real time the correct test execution on the wide colour display. An embedded printer summarizes all the information collected in a comprehensive report.

Spirometry tests can be also performed real-time with Pony FX connected to a PC through the powerful software OMNIA (included in the standard package). OMNIA is easy and intuitive thanks to its innovative user interface and includes beautiful pediatric incentivation for spirometry tests with selectable effort grade.

OMNIA encompasses all the latest industry standards for spirometry tests, including the 2005 ATS/ERS Consensus Statement on the "Standardization of the measurement of spirometry" and the 2012 Global Lung Initiative (GLI) predicted sets.

COSMED
The Metabolic Company

Validation articles

- Crapo R. O. (LDS Hospital) 2004 "Validation of COSMED turbine vs ATS 24 standard volume-time waveforms "
- More scientific studies on www.cosmed.com/bibliography

Technical Specifications

Product	Description	REF
Pony FX	Desktop Spirometer	C09062-01-99
Standard packaging	Main Unit, PC software, turbine flowmeter, adult paper mouthpieces (20 pcs), pediatric paper mouthpieces (20 pcs), pediatric adapter, carrying case, user manual, antibacterial filter (5 pcs), USB cable, power adapter, nose clips (2 pcs), thermal paper roll.	
Pony FX MIP/MEP	Desktop Spirometer w/ Respiratory Mechanics	C09062-05-99
Standard packaging	Main Unit, PC software, turbine flowmeter, adult paper mouthpieces (20 pcs), pediatric paper mouthpieces (20 pcs), MIP/MEP module (pressure line and transducer board), pediatric adapter, carrying case, user manual, antibacterial filter (5 pcs), USB cable, power adapter, nose clips (2 pcs), thermal paper roll.	

Standard Tests (Spirometry)	
Tests	Forced Vital Capacity (FVC) Pre/Post, Slow Vital Capacity (SVC) Pre/Post, Maximum Voluntary Ventilation (MVV), Bronchochallenge - Bronchial Dilator/Constrictor test
Measured Parameters (partial listing)	FVC • IVC • VC • MVV • VT • FEV1 • FEV6 • FEV1/FEV6 • FEV6/FVC • PEF • PIF • FEV1/FVC • FEF 25-75 • FEV1/VC% • %FEV1 • MEF25% • MEF50% • MEF75% • FET 100% • Lung Age • ERV • IRV • VE • Rf • ti • te • ti/t.tot • VT/ti • Best FVC • Best FEV1 • IC
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), Multicèntrico 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)

Hardware	
Dimensions & Weight	198x238x76 cm / 1.2 Kg
Interfaces	USB-A, USB-B, RS 232
Display	Color LCD 320 x 240 pixel
Printer	High speed thermal printer 110 mm
Batteries	Rechargeable Li-ion batteries (2600 mAh)
Power Supply	Input: AC 100-240V, Output: DC 12 V

Flowmeter	Turbine Ø-28mm
Type	Bidirectional Digital Turbine
Resolution	12 ml
Ventilation Range	0-300 l/min
Flow Range	0-16 l/s
Accuracy	$\pm$ 2% or 20 ml/s
Resistance	<0.8 cmH$_2$O /l/s @ 14l/s

Software	OMNIA
Available languages	English, Italian, French, German, Spanish, Dutch, Russian, Chinese, Portuguese
Required PC Configuration	1.4 GHz or faster processor speed. Compatible with Vista (32/64), Windows 7 (32/64), Windows 8 (32/64). RAM 4GB (8GB recommended). 500 MB of free disk space

Options & Accessories	Description	REF
Rocc	Airway Resistance kit (Rocc)	C02650-01-11
Pulse Oximetry	Oximeter Ipod (including finger clip probe)	C02390-01-05
MIP/MEP Module	Respiratory mechanics kit	C03751-01-11
Calibration syringe	3L syringe for accuracy check of flow volume measurements	C00600-01-11

Consumables	Description	REF
Antibacterial filters	Single-use filters to to prevent bacterial and viral cross contamination (50 pcs)	A-182-300-004
Nose clips	Clips for performing spirometry tests (5 pcs)	C00441-01-98
Thermal paper, Pony FX	Rolls for Pony FX thermal printer (10 pcs)	A-196-056-001
Paper mouthpieces	For spirometry testing (500 pcs)	C01805-01-98 (adult) C01814-01-98 (pediatric)

Safety & Quality Standards	
	MDD (93/42 EEC); FDA 510(k); EN 60601-1 (safety) / EN 60601-1-2 (EMC) Complies with ATS/ERS 2005 guidelines

To know more:

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