



spirobank®

Pocket-size diagnostic spirometer
Ideal for spot screening

New
Generation
with USB



winspiro Express
PC software
included

- Simple to use providing instant high quality printouts
- Reusable and Disposable Turbine available
- Measures the most important spirometric parameters VC, IVC, FVC, FEV1, FEV6, PEF, FEV1/FVC%, FEF25-75%, FIVC, ELA (Estimated Lung Age)
- Spirometry interpretation with traffic light indication
- Internal temperature sensor for BTPS conversion
- USB PC connection for printout and calibration
- Upgradable internal software



Quality Spirometry

FDA	ATS	ISO	ISO
Approved	Standard	9001-2000	13485



Pulmonary Function Test Results

Flow / Volume and Volume / Time Loops



e-hospital
Dipartimento Pneumologico
Dr. Antonio De Angelis

Patient Data

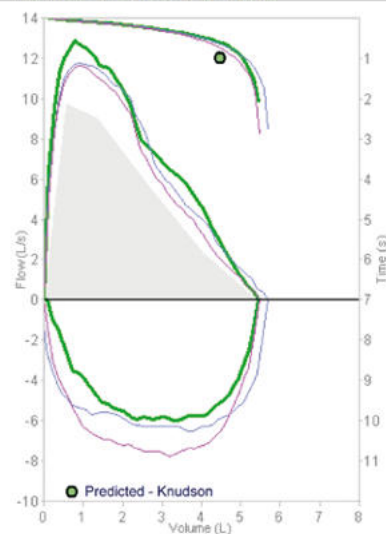
Last name	MARTINI	Age	28
First name	DAVID	Gender	Male
Date of birth	06/05/1975	Height, in	71
Ethnic group	Caucasian	Weight, lb	167

Interpretation

Normal Spirometry

Best values from all loops

Parameters	BTPS	Pred	Measured	%Pred
FVC	L	5,43	5,68	105
FEV1	L	4,49	5,12	114
FEV1/FVC	%	83,2	90,1	108
PEF	L/s	9,77	12,90	132



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Date 24/07/2003 14.34.17

Parameters	BTPS	Predicted	Measured #1	%Predicted	Measured #2	Measured #3
Forced Vital Capacity						
FEV6	L	5,30	5,45	103	5,68	5,47
FVC	L	5,43	5,45	100	5,68	5,47
FEV1	L	4,49	5,06	113	5,12	4,85
FEV1/FVC	%	83,2	92,8	112	90,1	88,7
PEF	L/s	9,77	12,90	132	11,91	11,73
FEF2575	L/s	4,71	7,33	156	6,38	5,88
ELA	Years	33	33	100	33	33

Conclusion / Medical report

Signature

1 / 1



winspiro Express PC software

Extremely simple to use. Once a spirometry test has been carried out the results can be transferred via USB to the PC for printout and storage.

• **Printout**

Spirometry results with Flow/Volume loop and Volume/time curve can be printed in PDF format. Each report is automatically saved complete with patient name and personal data

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Graphic display with
user friendly icons
to facilitate use

actual size

MIR's exclusive disposable flowmeter. (U.S. PATENT No. 7618235)

FlowMir disposable turbine for single patient use

- hygienically packaged
- Available in boxes of 100 pieces
- 100% cross contamination proof.
- Maximum accuracy even at low flows
- Substitutes antibacterial filters at a lower cost



The disposable turbine is fully compliant to ATS/ERS accuracy standards, and unlike most other transducers it is not affected by ambient temperature, humidity and pressure

MIR Exclusive Patent

After patient testing both the turbine and mouthpiece are disposed of, thereby eliminating any chance of cross-contamination. Hygiene is 100% guaranteed.

No other flowmeter can guarantee the same!

Advantages of the disposable turbine

Spirometry testing requires maximum accuracy and hygiene.

FlowMir is the answer to both requirements. This solution represents an advantage compared to antibacterial filters.

Each turbine is quality checked, calibrated with a computerized system, and packaged individually; thus maintaining the original accuracy and hygiene right upon use.

No other flowmeter can guarantee the same!

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Technical specifications

Temperature sensor: semiconductor (0-45 °C)
Flow sensor: bi-directional digital turbine
Max volume: 10 L
Flow range: ± 16 L/s
Volume accuracy: ± 3% or 50 mL, whichever is greater
Flow accuracy: ± 5% or 200 mL/s, whichever is greater
Dynamic resistance at 12L/s: <0.5 cmH₂O/L/s
Display: 128 × 48 pixel, graphic LCD - FSTN
Keyboard: 5 keys Membrane Keyboard
Connectivity: USB
Power supply: 9V DC (PP3 battery)
Dimensions: 6.4 × 1.9 × 1.3 inch (162 × 49 × 32 mm)
Weight: 6.4 Oz (180 gram) with battery

Measured parameters

VC, IVC, FVC, FEV1, FEV6, PEF, FEV1/FVC%, FEF25-75%,
FIVC, ELA (Estimated Lung Age)

Standard price includes

- **spirobank®** base unit
- USB cable
- Carrying bag
- Plastic noseclip
- 9V DC (PP3 battery)
- **winspiro Express** software CD



winspiro Express PC system minimum requirements

- Microsoft Windows 32 bit: Vista, 2000, XP
- Minimum Screen resolution: 800 × 600
- Hard disk space: 500 MB
- USB socket available
- Adobe® Reader® PC Software

Available options

FlowMir Disposable Turbine
Pediatric Reusable mouthpiece

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