



spirolab III: diagnostic spirometer with oximetry option

spirolab III: FVC, VC with breathing pattern plus MVV tests with real time curves

High resolution colour screen

Fast but silent thermal printer

Digital turbine flow meter with guaranteed accuracy in all environmental conditions

PRE-POST bronchodilator comparison

Selectable language and predicted values

Connectivity: USB, Bluetooth® and RS232

Paediatric Incentive

spirolab III complies with the new ATS and ERS standards

Fast

Simple

Durable

Accurate

Powerful

Innovative

Bluetooth® and USB connectivity

SPECIFICATIONS

SPIROLAB III

Spirometry features

Records best 3 trials.
Up to 8 blows on one screen.
Internal temperature sensor for BTPS conversion.

Finger Oximeter (option)

Short or long term (overnight) SpO2 and Pulse Rate measurements. ODI, NOD, T90%, T89%, T88, T87%
Sleep oximetry with desaturation events. Oximetry during exercise test.

Two different flowmeters available
FlowMir disposable turbine for single patient use
High accuracy. Easy to replace. Very low cost.
Designed for use with MIR spirometers. FlowMIR is factory calibrated. Available in box of 100 pieces.
No maintenance - No filter - No problem.
Hygiene 100% guaranteed by single packaging.

MIR digital reusable and disposable turbines are developed in full compliance with ATS standards and guarantee accuracy in all environmental conditions
Reusable turbine for long term operation
High accuracy. Long term stability. Easy to clean or sterilize
Precise measurement The proven MIR turbine flow sensor requires no calibration and complies with the severe ATS 24/26 waveforms.

Paediatric Incentive

A unique feature within winspiroPRO is a series of amusing user-selectable paediatric incentive screens and animations, which use an algorithm which takes into account both the expired volume and the flow of the subject.

Portable spirometry

Only 1.9 kg for truly portable spirometry. Rechargeable battery plus mains power. Internal temperature sensor for automatic BTPS conversion. Upgradeable internal software by connecting to the PC.

Standard device includes

Spirolab III
winspiroPRO CD
Carrying case

winspiroPRO Software

On-line PC connection with icon interface.
Real time Flow/Volume and Volume/time curves.
Bronchial challenge with FEV1 dose-response.
Integration with Electronic Medical Record.
Paediatric incentive animations.
Lung age estimation.
Data and graphs export also via e-mail.

Technical specifications

Parameters:
(* Best value) FVC, FEV1, FEV1/FVC%, FEV6, FEV1/FEV6%, PEF, FEF25%, FEF50%, FEF75%, FEF25-75%, FET, Vext, FIVC, FIV1, FIV1/FIVC%, PIF, *FVC, *FEV1, *PEF, VC, IVC, IC, ERV, FEV1/VC%, VT, VE, Rf, ti, te, ti/t-tot, VT/ti, MVV
Power supply: Rechargeable battery and mains power
Temperature sensor: Semiconductor (0-45° C)
Flow/volume transducer: bi-directional digital turbine
Flow range: ± 16 Ls
Volume accuracy: $\pm 3\%$ or 50 mL
Flow accuracy: $\pm 5\%$ or 200 mL/s
Dynamic resistance: <0.5 cmH2O/L/s
Connectivity: USB, Bluetooth, RS 232
Display: FSTN graphic, 320 x 240 pixel
Printer/paper: Thermal, 112 mm width
Mouthpieces: 30 mm external diameter
Dimensions: 310 x 205 x 65 mm
Weight: 1,9 Kg circa
Carrying-case: included

Finger Oximeter Technical specifications (option)

SpO2 range: 0-99%
SpO2 accuracy: $\pm 2\%$ between 70-99% SpO2
Pulse Rate range: 30-254 BPM
Pulse Rate accuracy: ± 2 BPM or 2%

winspiroPRO software

SpO2 and Pulse Rate graphic trend
Flexible reporting with several printout categories
Statistical analysis of desaturation events

PC system requirements Microsoft Windows 98 (Second Edition), NT 4.0, 2000, Me, XP
Minimum CPU clock 300 Mhz
Minimum RAM: 64 MB (128 MB on Windows NT)
Recommended RAM: 128 MB
USB socket available (RS 232 option)
Screen resolution 1024 x 768
Hard disk space required: 160MB

Quality spirometry
CE 0476, FDA Approved; ATS Standard, ISO 9001-2000, 13485