SPIROLAB SPIROMETER: 7" TOUCHSCREEN AND SPO, OPTION



- 33519 SPIROLAB® SPIROMETER WITH 7" TOUCHSCREEN
- 33520 SPIROLAB® SPIROMETER WITH 7" TOUCHSCREEN AND SpO, Fast, simple, durable diagnostic spirometer, made in Italy. **Unbeatable features**
- FVC, VC, MVV, PRE/POST Bronchodilator comparison with a wide range of selectable parameters
- long life rechargeable battery
- colour Touchscreen 7" display
- direct connection to external USB Printer PostScript
- 10,000 Spirometry tests or 500 hours of oximetry recording
- wireless Real Time test on PC via Bluetooth®
- fast and silent built-in B/W printer with customizable printout format

- selectable internal software languages: GB, FR, IT, ES, DE, PT Oximetry option

Available adult and pediatric reusable finger probe. Fast and user friendly

Each function can be activated by a simple touch.

FlowMIR® disposable turbine complies with ATS/ERS standard Totally disposable (mouthpiece, turbine) guarantees 100% hygiene, no cross contamination. No calibration required. Suitable also for pediatric use without need of adaptor.



GIMA code	MIR code	ACCESSORIES AND SPARES	Minimum order
33695	919024	SpO <sub>2</sub> probe - adult - spare	
33696	939006 + 919200	SpO <sub>2</sub> probe - paediatric	
33697	910595	Miniflowmeter with cable - spare	
33410	-	Adult mouthpiece - Ø 30 mm ext	box of 500
33492	-	Thermal paper - 112 mm x 25 m	-
33525	-	Antibacterial filter - disposable	box of 50
33507	910004	Disposable turbine with	box of 60
		integrated mouthpiece	

# **TECHNICAL SPECIFICATIONS - OXIMETRY (33520 only)**

SpO<sub>2</sub> range: 0-99%

SpO, accuracy: ± 2% between 70-99% SpO,

Pulse Rate range: 18-300 BPM

Pulse Rate accuracy: ± 2BPM or 2% whichever is greater

up to 500 hours oximetry Memory capacity:

## OXIMETRY PARAMETERS (33520 only)

%SpO<sub>2</sub> and Pulse Rate (Min, Max, Average), Test duration, Total SpO<sub>2</sub> Events, T90% (SpO₂ time ≤89%), T89% (SpO₂ time ≤88%), T40 (Bradycardia duration with Pulse Rate <40 BPM), T120 (Tachycardia duration with Pulse Rate >120 BPM)

## Suitable for children

Patented pediatric incentive directly on the screen.

### WinspiroPRO®

High perfomances PC software for spirometry and oximetry with free update. Multilanguage software: GB, FR, IT, ES, DE, PT, PL, NL, LV, SE, CZ, RU, TR, JP, CN.





Printout: spirometry report

#### Summary of all tests carried out STANDARD ACCESSORIES

Software WinspiroPRO® Carrying case Battery charger 1 roll thermal paper USB port and cable SpO<sub>2</sub> adult sensor (33520 only) Reusable turbine CD manual: GB, FR, IT, ES, DE, PT Nose clip

#### TECHNICAL SPECIFICATIONS - SPIROMETRY

Rechargeable battery Power supply: approx. 10 hours Autonomy: semiconductor (0-45°C) Temperature sensor: Flow sensor: bi-directional digital turbine

Flow range: ±16L/s Volume accuracy: ±3% or 50mL Flow accuracy: ±5% or 200mL/s Dynamic resistance: <0.5 cm H<sub>2</sub>O/L/s USB 2.0, Bluetooth® 2.1 Connectivity:

Display: 7" colour touch screen LCD, 800x480 resolution

Mouthpieces: Ø 30 mm (1.18 inch) Dimensions: 220x210x51 mm (8,66x8,26x2")

Weight: 1450 g (battery pack included) (3,1lb)

Electrical protection: Class II

Electrical safety standard EN 60601-1 Norms: Electromagnetic compatibility EN 60601-1-2

## SPIROMETRY PARAMETERS

FVC, FEV1, FEV1/FVC, FEV1/VC, PEF, FEF25, FEF50, FEF75, FEF25-75, FEF75-85, Lung Age, Extrapolated Volume, FET, Time to PEF, FEV0.5, FEV0.5/FVC, FEV0.75, FEV0.75/FVC, FEV2, FEV2/FVC, FEV3, FEV3/FVC, FEV6, FEV1/ FEV6, FEV1/PEF, FEV1/FEV0.5, FIVC, FIV1, FIV1/FIVC, PIF, FIF25, FIF50, FIF75, FEF50/FIF50, VC, IVC, IC, ERV, IRV, Rf, VE, VT, tI, tE, VT/tI, tE/tTOT, MVV (measured), MVV (calculated).

## WINSPIROPRO® REQUIREMENTS

Windows 2000, Xp, Vista (32/64 bit), 7 (32/64 bit), 8 and 8.1 (32/64 bit), 10 (32/64 bit). RAM 512 MB