



For everyone

ML3500 Mk8

Desktop spirometer



A desktop spirometer developed for occupational health professionals and breathing experts who regularly conduct lung function tests to identify respiratory issues.

Supportive design

With a high-resolution colour touch screen and an icon-based menu and stylus, the ML3500-Mk8 is an intuitive spirometer enabling Vital Capacity (VC) and Forced Vital Capacity (FVC) spirometry tests to be performed with ease.

The spirometer offers real time viewing when lung function tests are being performed, and the combined on-screen prompts for slow start, low volume, and short blow during the spirometry test ensures a high level of quality control.

Testing

The ML3500-Mk8 features 41 parameters with actual, predicted, and percent predicted values, as well as normal range, with the option of interpretation and equivalent lung age reporting.

A full internal database allows complete patient recall on both data and measured loops. All of the chosen parameter results are displayed with an option to review the volume/time curves and the flow/volume curves, so the user can obtain accurate results for further investigation.

Test results may be shown on the colour screen, saved in memory, printed on an internal printer, and/or exported to the optional spirometry PC database for complete flexibility.

Gold Standard transducer

The gold standard digital volume transducer is recognised internationally for accuracy and being able to measure at very low flow rates, so healthcare professionals can be confident that test results are reliable and precise when considering a lung function diagnosis.

Hygiene

The ML3500-Mk8 allows for a variety of mouthpieces to be used in conjunction with an occupational screening programme ensuring safe and hygienic testing.

Disposable turbines with mouthpieces are an optional extra for eliminating cross contamination and providing a sanitary and accurate solution.

Bacterial viral filter (BVF) mouthpieces provide a safe way to complete spirometry whilst providing reassurance to the patient.

Key features

Compliant to ERS 2005 standard
High-definition, icon-based, colour display
On screen predicted value and results interpretation
Numerous predicted values and languages
Test quality assurance prompts
Integrated high-resolution printer with paper load mechanism
2000 patient test memory capability
PC interface and optional software

Visit www.amplivox.com/spirometry/ml3500-mk8 to learn more about the features and benefits of the ML3500-Mk8

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Technical specifications

Physical data

Storage:	2000 patients with tests including Flow/Volume loops and Volume/ Time graphs
Printer output: (internal printer):	13mm/s (avg)
Power supply:	Input: 100-240V AC 50-60Hz. Output: 12V 2.5A
Battery pack:	Rechargeable NiMH 8.4V 1Ah
Dimensions (L x W x H):	255 x 120 x 35mm
Transducer	50 x 60 x 90
Weight (central unit):	Excluding any transducers: 630g / 1.38lbs
Temperature:	The instrument will operate in a uniform environment of 0°C-40°C, out of direct sunlight
Operating humidity:	30-90% non-condensing
Storage temperature:	-20°C to +70°C
Storage humidity:	10% to 90% RH
Connectivity:	RS232 serial and USB 1.1

Measurements and accuracy

Measurements (forced):	VC, FEV.75, FEV1, FEV3, FEV6, FVC, PEF, FEV.75/VC, FEV.75/FVC, FEV1/VC, FEV1/FVC (FER), FEV3/VC, FEV3/FVC, FEV.75/FEV6, FEV1/FEV6, FEF25 (MEF75), FEF50 (MEF50), FEF75 (MEF25), FEF25-75 (MMEF), FEF50/VC, FEF50/FVC, MMEF/FVC (FEF25-75/FVC), FIV1, FIVC, PIF, FIV1/FIVC (FIR), FIF25 (MIF75), FIF50 (MIF50), FIF75 (MIF25), R50 (FEF50/FIF50), MET25-75, FET, MVV (ind)
Measurements (relaxed):	EVC, IVC, IC,VT (TV), ,Ti,Te,Ti/Ttot,VT/ Ti (TV/Ti), IRV,
Tests per subject:	Five relaxed VC manoeuvres and 8 forced manoeuvres for each baseline and two post examinations
Predicted values:	Various - dependant upon national preference
Transducer:	Micro Medical Gold Standard Bi-Directional Digital Volume
Resolution:	10ml volume 0.03l/s ow
Accuracy:	+/-3%.To ATS/ERS 2005 Standardisation of spirometry for flows and volumes

Please note: The ML3500-Mk8 is manufactured by CareFusion and distributed by Amplivox Ltd.

Standard equipment

- Noseclip
- Carry case
- Mains charger
- Stylus

Optional equipment

- Spirometry database software
- 3L calibration syringe
- Disposable turbine and mouthpiece
- Disposable one-way mouthpiece
- Disposable BVF mouthpiece



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The Amplivox policy is one of continuous development and consequently the equipment may vary in detail from the description and specification in this publication.