

Goodbye Body Box Hello MiniBox™ :)

MiniBox is the world's first desktop, gasless device for lung volume measurements, as well as spirometry and diffusion testing*, in the physician's clinic.



Easy to use, MiniBox provides accurate and repeatable measurements of Total Lung Capacity (TLC) and Residual Volume (RV), as well as fully automated, single breath CO Diffusion (DLCO)*. With less than 2 minutes of tidal breathing required for Lung Volume Measurements (LVM), this gasless, cabinless system provides maximum patient comfort.



EASY

Easy to operate with minimum installation requirements. Results are automatically generated.



ACCURATE

Clinically validated in over 400 patients at 6 medical centers, based on comparative data from leading body plethysmography devices.



DESKTOP

This desktop, affordable device makes Pulmonary Function Testing (PFT) more accessible to patients, while enabling you to expand your medical practice.

Meet MiniBox :)

Desktop Lung Volumes & Spirometry Testing

FULLY COMPLIANT WITH ATS/ERS GUIDELINES:

LUNG VOLUMES

Same volumes as body plethysmography including TLC, FRC, RV

SPIROMETRY

Complete set of 30+ parameters including FEV1, FVC, SVC, MVV



PATENTED, FIRST-OF-ITS-KIND METHOD

For gasless, cabinless lung volume measurement with less than 2 minutes of tidal breathing, ensuring maximum patient comfort

USER-FRIENDLY

Intuitive user interface, customizable reports, and a wide range of data export options

LIGHTWEIGHT AND PORTABLE

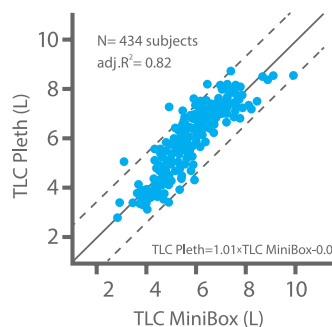
Weight: 8kg / 18lb
Dimensions: 510x470x310mm / 20x18.5x12 inch
Optional Cart

EMR CAPABILITIES

Compatible with current EMR systems

ACCURATE & REPEATABLE

Automatically generated results minimize technician bias



Oral Presentation
at ERS 2013.
Poster at ATS 2014.

FULL SELECTION OF PREDICTED EQUATIONS

Based on wide range of ethnicities

PEDIATRIC USE

Measurements can be taken on children from age 4

MULTI-LANGUAGE CAPABILITIES

For international use

MINIMAL DOWNTIME

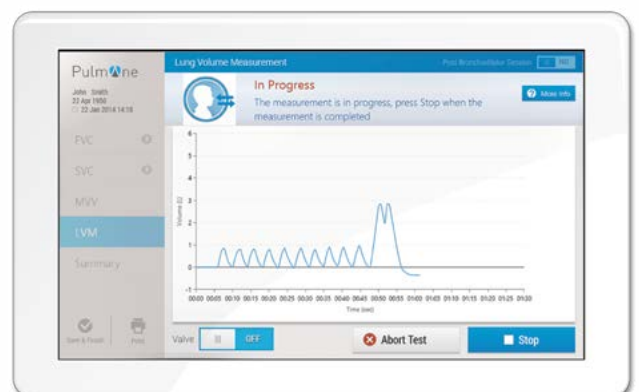
Replacement device provided promptly

WORLDWIDE TECHNICAL SUPPORT

Including easy software upgrades

HIGH QUALITY DISPLAY

Full HD 10.8-inch screen



A typical lung volumes test

Meet MiniBox+ :)

Desktop Lung Volumes, Spirometry & Diffusion Testing

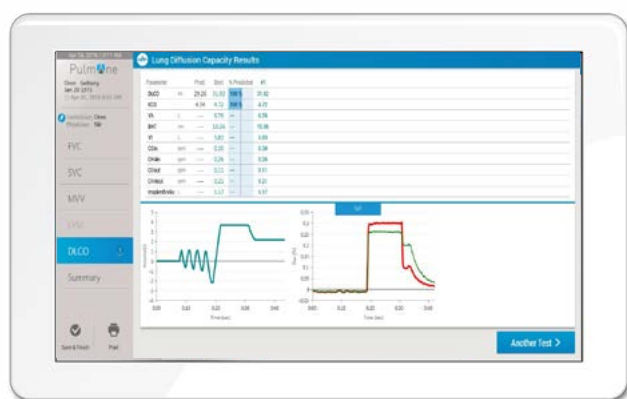
MiniBox+ offers
all the value of the MiniBox

PLUS

An integrated module
for Carbon Monoxide Diffusing Capacity (DLCO) testing.

DLCO PARAMETERS MEASURED:

Calculated DLCO, Calculated VA, BHT, KCO



A typical lung diffusion test

SINGLE BREATH METHOD

The gold standard for DLCO testing

FULLY AUTOMATED MEASUREMENT PROCESS

Manual Measurement Optional

OPTIMAL GAS MIXTURE (CO, CH₄)

For efficient and rapid measurement of patient samples

AUTOMATED AND RAPID CALIBRATION

Performed prior to each measurement, assures accuracy and repeatability

COMPLETE MOBILITY

Can be used with small gas cylinder and dedicated MiniBox cart

MiniBox & MiniBox+ Technical Specifications

General

Spirometry Measurements	According to ATS/ERS guidelines
Volume accuracy	±3% or 50 mL
Flow accuracy	±5% or 200 mL/s
Flow range	±16 L/s
Pressure range	±1 PSI, Bi-directional
Dynamic resistance at 14 L/s (spirometer)	<0.7 cmH ₂ O/(L/s)
Lung Volume Measurements	TLC, TGV (FRC), RV, IC, ERV, VC

Standards Compliance

Electrical	IEC 60601-1
EMC	IEC 60601-1-2

Physical

Full HD screen	10.8"
Dimensions	510x470x310 mm/ 20x18.5x12 inch
Weight	8Kg / 18lb (MiniBox) 10Kg / 22lb (MiniBox+)

Valve

Closing duration	100 ms
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Electrical

Power	100-240 VAC, 50-60 Hz
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Gas Analyzer (MiniBox+)

Spectrometer	Infrared (CO,CH ₄)
Range	0-0.35%
Calibration	Automatic with quality control


MiniBox™ delivers accurate TLC measurement with desktop convenience

Across a large, diverse population of healthy, obstructive and restrictive patients, the MiniBox provided accurate results in measuring TLC in comparison to market leading Body Plethysmography providers (TLC Pleth).

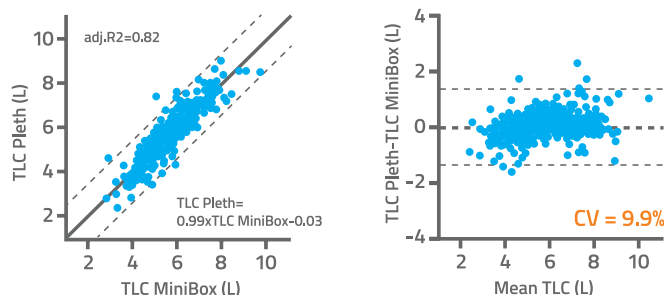
Multi-center study

-  434 subjects
-  6 leading medical centers
-  Compared with 3 different Body Box devices
-  All ages, respiratory disorders, genders, severities, lung volumes

Study results

-  High correlation vs. Body Box [Coefficient of Variation (CV) of 9.9%]

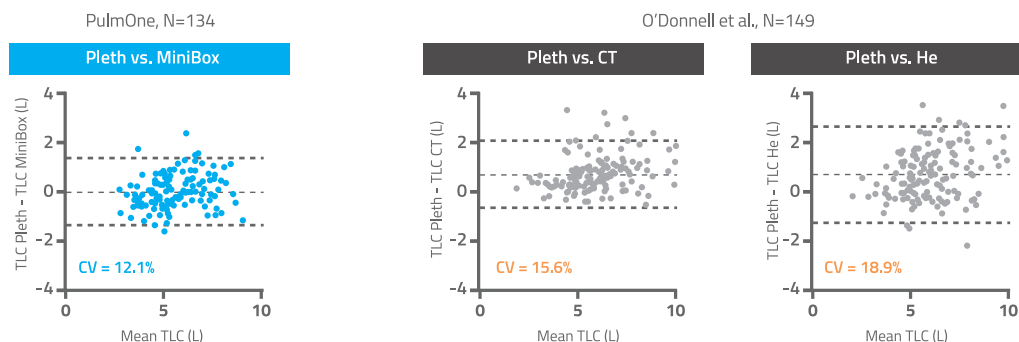
All Subjects, N=434



Oral Presentation at ERS 2013. Poster at ATS 2014.

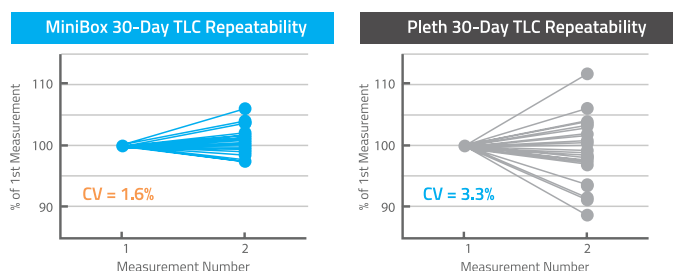
MiniBox™ lung volume measurement closely matches body plethysmography measurements

Comparison to helium dilution and CT imaging⁴



⁴ O'Donnell, Bankier, Stiebellehner, Reilly, Brown and Loring, Chest 2010; 137; 1108-1115.

MiniBox™ provides reproducible results for confident interpretation



Oral Presentation at ERS 2013.
Poster at ATS 2014.

Expand your clinic today. With MiniBox.

About Us

PulmOne is a global medical technology company dedicated to providing innovative solutions for pulmonary function testing (PFT) in the physician's clinic. At PulmOne, we develop patient-friendly, hassle-free, and budget-conscious devices that deliver a wide range of accurate measurements for the diagnosis, treatment, and monitoring of respiratory diseases.

PulmOne International Tel: +972-77-510 0938

Email us: globalinfo@pulm-one.com

Visit us: www.pulm-one.com

PulmOne
PFT Outside The Box