

# MiniBox+

**Complete PFT. Easy. Accurate. Desktop.**

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



## EASY

Easy to operate with minimum set-up. Fully automatic LVM and DLCO measurements. All results automatically generated.



## ACCURATE

Clinically validated in over 500 patients at 8 medical centers, based on comparative data from leading body plethysmography devices.



## DESKTOP

With this desktop, affordable device you can make complete Pulmonary Function Testing (PFT) more accessible to patients while expanding your medical practice.

Also available in MiniBox configuration for spirometry and LVM only

# Meet MiniBox+ :)

## Complete, Point-of-Care Pulmonary Function Testing (PFT)

Desktop Lung Volumes,  
Spirometry & Diffusion Testing

Easy to use, MiniBox+ provides accurate and repeatable, fully automatic measurements of Total Lung Capacity (TLC) and Residual Volume (RV), as well as Spirometry and Single Breath CO Diffusion (DLCO).

### FULLY COMPLIANT WITH ATS/ERS GUIDELINES:

#### SPIROMETRY

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

#### LUNG VOLUMES

Same volumes as body plethysmography including TLC, FRC, RV

#### DIFFUSING CAPACITY

DLCO, VA, DLCO/VA



\* Reference values may not be available for DLCO for children under the age of 7

### PATENTED, FIRST-OF-ITS-KIND METHOD

Gasless, cabinless lung volume measurements with less than 2 minutes of tidal breathing

### USER-FRIENDLY

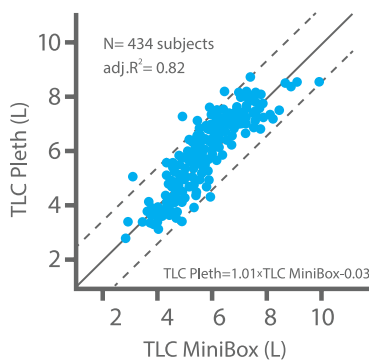
Intuitive user interface, customizable reports, and a wide range of data export options

### FULLY AUTOMATIC LVM AND DLCO

Manual measurement optional

### ACCURATE & REPEATABLE

Automatically generated results minimize technician bias



### FULL SELECTION OF PREDICTED EQUATIONS

Based on wide range of ethnicities

### PEDIATRIC USE

Measurements can be taken on children from age 5

### SIX-MINUTE WALK

6MWT data entry and report capabilities

### COMPLETELY REIMBURSABLE

All tests have a CPT code

### 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

# MiniBox+

## Technical Specifications

### General

Spirometry Measurements	According to ATS/ERS guidelines
Lung Volume Measurements	TLC, TGV (FRC), RV, IC, ERV, VC
DLCO Measurements	DLCO, VA, DLCO/VA
Volume accuracy	±3% or 50 mL
Flow accuracy	±5% or 200 mL/s
Flow range	±14 L/s
Pressure range	±1 PSI, Bi-directional
Dynamic resistance at 12L/s (spirometer)	<1.2 cmH <sub>2</sub> O/(L/s)

### Standards Compliance

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

### Physical

Full HD screen	10.8"
Dimensions	510x470x310 mm/ 20x18.5x12 in
Weight	10Kg / 22lb

### Valve

Closing duration	100 ms
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### Electrical

Power	100-240VAC, 50-60Hz
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### Gas Analyzer

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

With less than 2 minutes of tidal breathing required for Lung Volume Measurements (LVM), this gasless, cabinless system provides maximum patient comfort.

### DIFFUSING CAPACITY (DLCO) TESTING WITH:

#### SINGLE BREATH METHOD

The gold standard for DLCO testing

#### OPTIMAL GAS MIXTURE (CO, CH<sub>4</sub>)

For efficient and rapid measurement of patient samples

#### AUTOMATED AND RAPID CALIBRATION

Performed prior to each measurement, assures accuracy and repeatability







Complete mobility with dedicated MiniBox+ cart


## MiniBox™ delivers accurate TLC measurement with desktop convenience

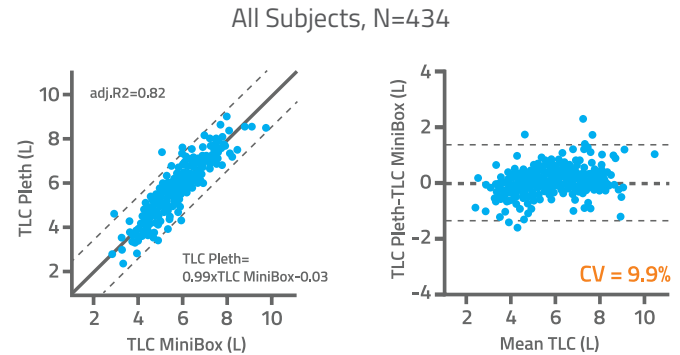
Across a large, diverse population of healthy, obstructive and restrictive patients, the MiniBox provided accurate results in measuring TLC in comparison to market leading Body Plethysmography providers (TLC Pleth).

### 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%]

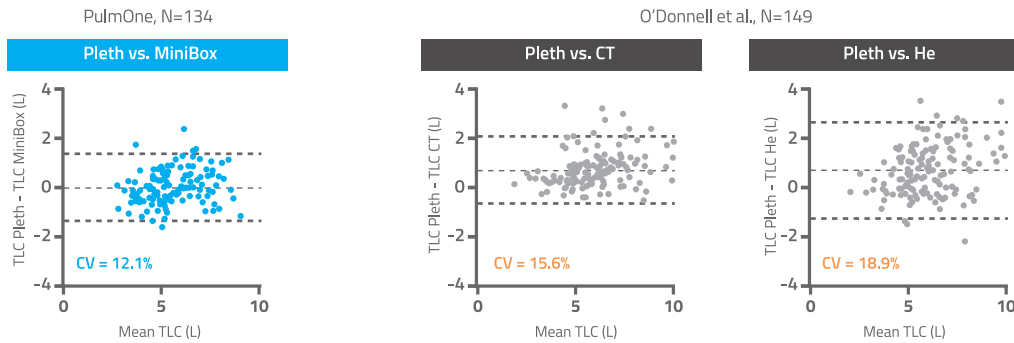


Oral Presentation at ERS 2013. Poster at ATS 2014.

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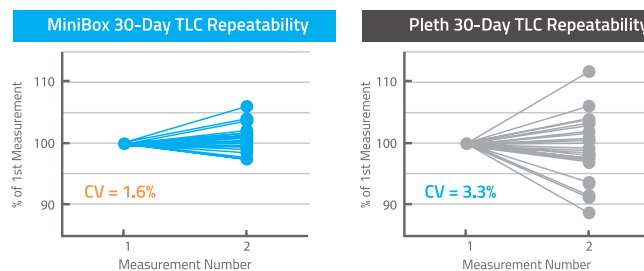
## MiniBox™ lung volume measurement closely matches body plethysmography measurements

### Comparison to helium dilution and CT imaging<sup>4</sup>



<sup>4</sup> O'Donnell, Bankier, Stiebel-Ehner, 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 complete 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.

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**PulmOne**  
PFT Outside The Box