

# MiniBox+

**Complete Pulmonary Function Testing.  
Because Spirometry is just not enough.**



## EASY

Easy to operate with minimum set-up. Fully automatic Lung Volumes 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.



## INNOVATIVE

With our innovative, easy-to-use, and patient-friendly technology, lung function testing is now easily accessible to all.

Also available in MiniBox configuration for spirometry and lung volumes only

# MiniBox+

## Complete, All-in-One Pulmonary Function Testing (PFT)

### Desktop Plethysmography, 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  
Single breath method



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

#### OTHER MEASUREMENTS

6MWT, Provocation

#### INNOVATIVE

Fully-automated Quality Control algorithms enable ease-of use and reliability

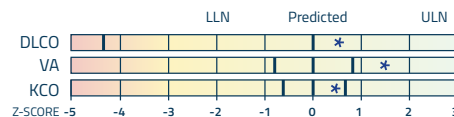
#### FULLY AUTOMATIC LVM AND DLCO

Manual measurement optional

#### ACCURATE & REPEATABLE

Automatically generated results minimize technician bias

#### Z-SCORE



#### USER-FRIENDLY

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

#### FULL SELECTION OF PREDICTED EQUATIONS

GLI reference values are standard for both Spirometry and Diffusion

#### PORTABLE

Lightweight with small footprint; Optional cart

#### PEDIATRIC USE

Measurements can be taken on children from age 5

#### GASLESS & CABINLESS PLETHYSMOGRAPHY

No sensation of claustrophobia; Can test obese, wheelchair-bound, or bedridden patients

#### CALIBRATION-FREE

Due to unique sensor technology



#### CONNECTIVITY

HL7 compliant, easily configurable, integrates with all major EHR systems

# MiniBox+

## Technical Specifications

### General

Volume accuracy	±2%
Flow accuracy	±2.5% or 50 mL/s
Flow range	±14 L/s
Pressure range	±1 PSI, 7 kPa, Bi-directional
Dynamic resistance at 12L/s (spirometer)	<1.2 cmH2O/(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	8 kg / 18 lbs

### Valve

Closing duration	100 ms
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### Electrical

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

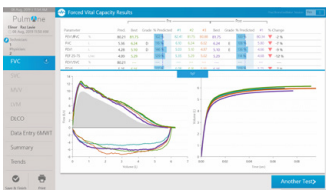
Spectrometer	Infrared (CO, CH4)
Range	0-0.35%
Calibration	Automatic with quality control
Response time	t0-90 85 ms

With just 60 seconds of tidal breathing required for Lung Volume Measurements, this gasless, cabinless system provides maximum patient comfort.

### EASE OF USE

- ✓ Automatic zeroing of analyzers before each measurement
- ✓ No stabilization time for plethysmography
- ✓ Warm-up time for analyzer less than 10 min
- ✓ Volume Gas graph for diffusion measurement
- ✓ Fast analyzer with response time t0-90 in less than 85 ms

### FLOW VOLUME

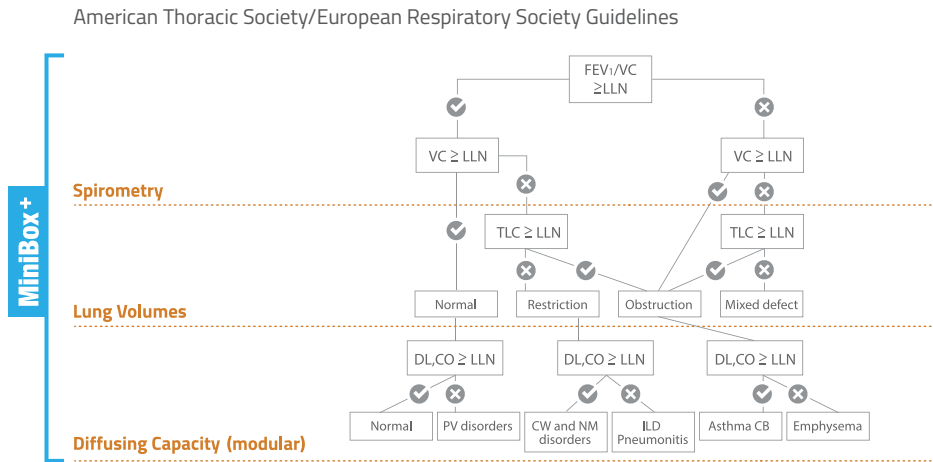


### INCENTIVES



For a complete list of technical specs

## MiniBox+ meets ATS/ERS Guidelines. And goes beyond.



## 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).

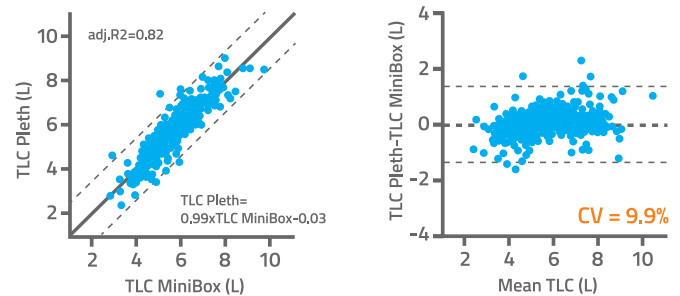
### Multi-center study

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

### Study results

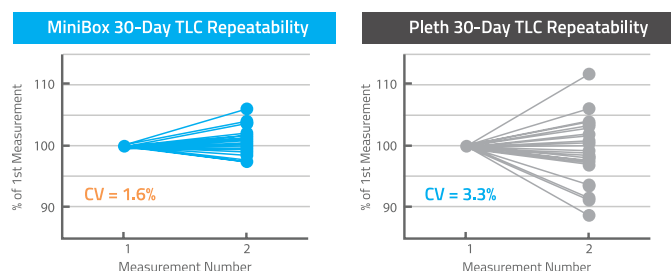
- High correlation vs. Body Box [Coefficient of Variation (CV) of 9.9%]

All Subjects, N=434



Oral Presentation at ERS 2013. Poster at ATS 2014.

## MiniBox+ provides reproducible results for confident interpretation



Oral Presentation at ERS 2013. Poster at ATS 2014.

## Save time, space and costs. With the 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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