PulmOne
PFT Outside The Box

MiniBox+

Cabinless Plethysmography is here to stay.



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.

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

- IN AS LITTLE AS 60 SEC
Same volumes as body plethysmography including TLC, FRC, RV - with proven equivalency to body box[1]

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

Provocation;
6MWT and MIP/MEP (data entry only)

INNOVATIVE

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

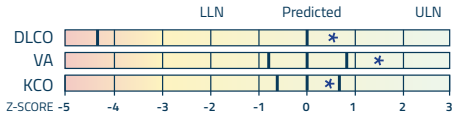
FULLY AUTOMATIC LVM AND DLCO

Manual measurement optional

ACCURATE & REPEATABLE

Automatically generated results

Z-SCORE



EASY TO USE

Intuitive user interface, easy-to-access reports and 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

SHORT TESTING TIME

Complete PFTs in as little as 15-20 minutes

GASLESS & CABINLESS PLETHYSMOGRAPHY

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

SAFE

Complies with industry safety guidelines for COVID-19 (ATS/ APCCSDD Task Force, ERS Group 9.1)

MINIMAL TURNAROUND TIME BETWEEN PATIENTS

5-minute wipe-down, self-calibration, mobility for uninterrupted patient flow during room ventilation

CONNECTIVITY

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

1. Berger KI, Adam O, Dal Negro RW, Kaminsky DA, et al. Validation of a novel compact system for the measurement of lung volumes. Chest, 01 Feb 2021, DOI: 10.1016/j.chest.2021.01.052.

With as little as 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
- Time-to-test: as little as 15-20 minutes with pre-and post-spirometry

FLOW VOLUME



INCENTIVES





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

Electrical

Power	100-240VAC,50-60Hz

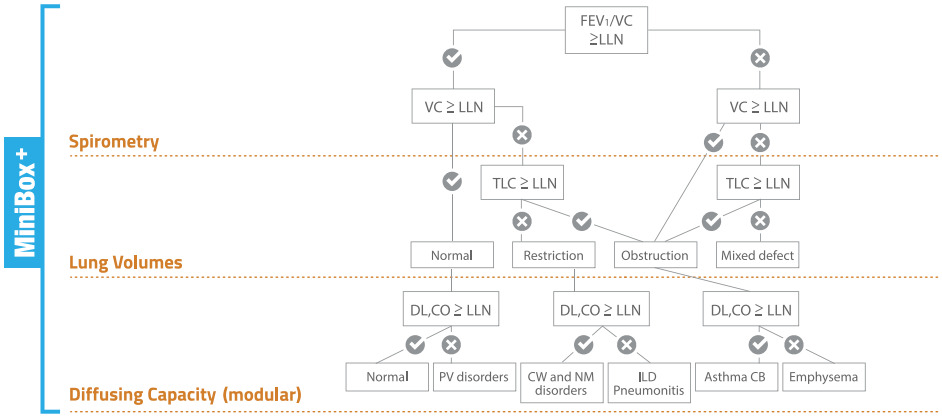
Gas Analyzer

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

For a complete list of technical specs

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

American Thoracic Society/European Respiratory Society Guidelines



2V. Brusasco, R. Crapo and G. Viegi. 2005. ATS/ERS Task Force: Standardisation of Lung Function Testing. Eur Respir J2005; 26, 948-968

Automatic interpretation of testing results according to these guidelines is provided on each patient report.

MiniBox+ lung volumes shown to be equivalent to body box in multi-center study

In a groundbreaking multi-center study published in CHEST in Feb 2021, lung volumes measured with the MiniBox+™ were shown to be equivalent to body plethysmography ("body box") in both healthy participants as well as those with lungs disease.

Multi-center study

- 266 subjects
- 5 leading medical centers
- Compared with 3 different Body Box devices
- All ages, respiratory disorders, genders, severities

Study results

MiniBox+ lung volumes were more reproducible and correlated better with body plethysmography than the other leading office-based techniques.

Mean Normalized Standard Difference (NSD)

	Helium Dilution	Nitrogen washout	Computerized Tomography	MiniBox+
%	15.3	14.2	13.1	8.9
Published studies	6	1	4	1

Mean Normalized Standard Difference (NSD) for TLC data when compared with body plethysmography

Save time, space and costs. With the MiniBox+.

Other models available:
- MiniBox: Spirometry and Lung Volumes
- MiniBox DLCO: Spirometry and DLCO

Both may be upgraded to MiniBox+ at any time.

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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