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.

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 operate with minimum installation requirements. Results are automatically generated.

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

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

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
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

**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

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**MiniBox & MiniBox+ Technical Specifications**

<table>
<thead>
<tr>
<th>General</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Spirometry Measurements</td>
<td>According to ATS/ERS guidelines</td>
</tr>
<tr>
<td>Volume accuracy</td>
<td>±3% or 50 mL</td>
</tr>
<tr>
<td>Flow accuracy</td>
<td>±5% or 200 mL/s</td>
</tr>
<tr>
<td>Flow range</td>
<td>±16 L/s</td>
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<tr>
<td>Pressure range</td>
<td>±1 PSI, Bi-directional</td>
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<tr>
<td>Dynamic resistance at 14 L/s (spirometer)</td>
<td>&lt;0.7 cmH₂O/(L/s)</td>
</tr>
<tr>
<td>Lung Volume Measurements</td>
<td>TLC, TGV (FRC), RV, IC, ERV, VC</td>
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</table>

<table>
<thead>
<tr>
<th>Standards Compliance</th>
<th></th>
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<tbody>
<tr>
<td>Electrical</td>
<td>IEC 60601-1</td>
</tr>
<tr>
<td>EMC</td>
<td>IEC 60601-1-2</td>
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<thead>
<tr>
<th>Physical</th>
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<tbody>
<tr>
<td>Full HD screen</td>
<td>10.8”</td>
</tr>
<tr>
<td>Dimensions</td>
<td>510x470x310 mm/ 20x18.5x12 inch</td>
</tr>
<tr>
<td>Weight</td>
<td>8Kg / 18lb (MiniBox) 10Kg / 22lb (MiniBox+)</td>
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<thead>
<tr>
<th>Valve</th>
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<tbody>
<tr>
<td>Closing duration</td>
<td>100 ms</td>
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<thead>
<tr>
<th>Electrical</th>
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<tbody>
<tr>
<td>Power</td>
<td>100-240 VAC, 50-60Hz</td>
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<tr>
<th>Gas Analyzer (MiniBox+)</th>
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<tbody>
<tr>
<td>Spectrometer</td>
<td>Infrared (CO,CH₄)</td>
</tr>
<tr>
<td>Range</td>
<td>0-0.35%</td>
</tr>
<tr>
<td>Calibration</td>
<td>Automatic with quality control</td>
</tr>
</tbody>
</table>
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%]

MiniBox™ lung volume measurement closely matches body plethysmography measurements

Comparison to helium dilution and CT imaging

MiniBox™ provides reproducible results for confident interpretation

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.

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Visit us: www.pulm-one.com

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