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 700 patients at 11 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, the 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 AUTOMATIC LVM AND DLCO
Manual measurement optional

ACCUART & REPEATABLE
Automatically generated results

Z-SCORE

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 (OPTIONAL)
HL7 compliant, easily configurable, integrates with all major EMR systems

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

DIFFUSING CAPACITY
DLCO, VA, DLCO/VA
Single breath method

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

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

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

1Read the article
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 stabilisation 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

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### MiniBox+ Technical Specifications

<table>
<thead>
<tr>
<th>General</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Volume accuracy</td>
<td>±2%</td>
</tr>
<tr>
<td>Flow accuracy</td>
<td>±2.5% or 50 mL/s</td>
</tr>
<tr>
<td>Flow range</td>
<td>±14 L/s</td>
</tr>
<tr>
<td>Pressure range</td>
<td>±1 PSI, 7 kPa, Bi-directional</td>
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</tbody>
</table>

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

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 lung 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 Normalised Standard Difference (NSD)**

<table>
<thead>
<tr>
<th></th>
<th>Helium Dilution</th>
<th>Nitrogen washout</th>
<th>Computerized Tomography</th>
<th>MiniBox+</th>
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</thead>
<tbody>
<tr>
<td>%</td>
<td>15.3</td>
<td>14.2</td>
<td>13.1</td>
<td>8.9</td>
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<tr>
<td>Published studies</td>
<td>6</td>
<td>1</td>
<td>4</td>
<td>1</td>
</tr>
</tbody>
</table>

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

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

ABOUT US
PulmOne is a global medical technology company dedicated to providing innovative solutions for pulmonary function testing in any clinical setting. The company’s flagship product, the MiniBox+, is a compact, portable device for cabinless and gasless Lung Volume Measurements, as well as Spirometry and Diffusing Capacity (DLCO). The MiniBox+ meets all American Thoracic Society (ATS) and European Respiratory Society (ERS) guidelines.

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