



Excellence in Respiratory Diagnostics

Make The Smart Choice

SMART PFT NEBULIZER

(BRONCHIAL CHALLENGE)



No external compressed air source is required thanks to the integrated low-noise compressor. This device is comfortable, safe, and highly robust, making it ideal for challenge testing.

The compressor operates fully automatically. A built-in panel computer with an LCD display provides straightforward control and user-friendly handling.

Using a standardized nebulizer type recognized by numerous studies, a flow-based trigger sensor synchronizes nebulization with the onset of inhalation. Automated execution protocols can be programmed to streamline routine testing.

The nebulizer and its nebulization method strictly adheres to ATS and ERS recommendations, and is fully CE marked.



SMART USB SPIROMETER



Key Features:

- High-performance spirometer featuring advanced precision technology and an extensive range of test options.
- Utilizes a highly accurate Variable Orifice Pneumatic flow sensor.
- Supports tests including SVC, FVC Pre / Post and MVV, with over 40 parameters available.
- Provides programmable challenge testing protocols.
- Fully CE marked.
- Offers latest GLI and Z-Scores.
- Includes trend reporting, Pre / Post comparison, and an incentive graph for paediatric testing.
- Employs an SQL database for robust data management.
- Delivers customizable reporting with a versatile template builder.

Optional add-ons include: P0.1 / MIP / MEP, ROCC Rhinomanometry, Compliance, and Challenge Testing.



SMART CO DIFFUSION SYSTEM



Key Features:

- **Single-Breath CO Diffusion Test:** Provides fast and reproducible CO transfer capacity assessments.
- **Online Gas Sampling Method:** Accommodates patients with very low vital capacity (Starting at approximately 0.8 L).
- **Fully Automated Testing:** Offers real-time guidance to ensure correct breathing manoeuvres, with GLIs and the latest Z-Scores.
- **Selective & Fast Infrared Gas Analyzer:** Measures both transfer and inert gases (CO & CH4).
- **Demand Valve with Automatic Delivery:** Supplies gas precisely, with no need for manual keyboard input.
- **Altitude Compensation:** Built-in ambient pressure sensor automatically adjusts for elevation changes.
- **Minimal Consumables:** Operates without costly absorber products such as Nafion sampling lines.
- **Fully CE marked.**

Measured Parameters:

DLCO, KCO, TLC, RV, FRC, VA, Tdiff, Hb, VIN (CH4), and RV / TLC.



SMART BODY PLETHYSMOGRAPHY



Key Features:

- **Height-Adjustable, Comfortable Chair**
- **Double-Door, Oval-Shaped Cabin** with a surrounding view panel to minimize claustrophobia
- **3D-Adjustable Device Stand** (optional motorized version)
- **Continuous BTPS Sampling and Calculation** via built-in ambient pressure, temperature, and humidity sensors
- **Efficient Ambient Pressure Movement Compensation**
- **Maintenance-Free Electromagnetic Door Lock** ensuring patient safety
- **Long-Lasting, Stable Materials** used throughout
- **Robust Aluminium Frames**: Box and door frames are crafted from powder-coated, heavy-duty aluminium profiles
- **Convenient Service Access**: Most electronic components are located on the top of the unit, protected by a hood
- **Accommodates Patients with Reduced Mobility**: Fully automated mouth and box pressure controls
- **Optional Special Chair**: Mounted on a telescopic arm for patients with limited mobility or those using wheelchairs.

Fully CE Marked. Comes with the latest GLIs and Z-Scores.

Optional Parameters:

- **Bronchial Challenge Testing**
- **Rhinomanometry**
- **Respiratory Drive (P0.1 / MIP / MEP / ROCC)**
- **Compliance Measurements**

The SMART PFT BODY System is designed to deliver precise, reliable, and user-friendly body plethysmography testing for a broad range of patient needs.



SpiroTech Solutions LLC

(Part of MediTech-PL)

Registered Office

8 The Green

Suite #14674 Dover

Delaware 19901

United States



Reach Out To Us Today !

Specialising In:

Plethysmography

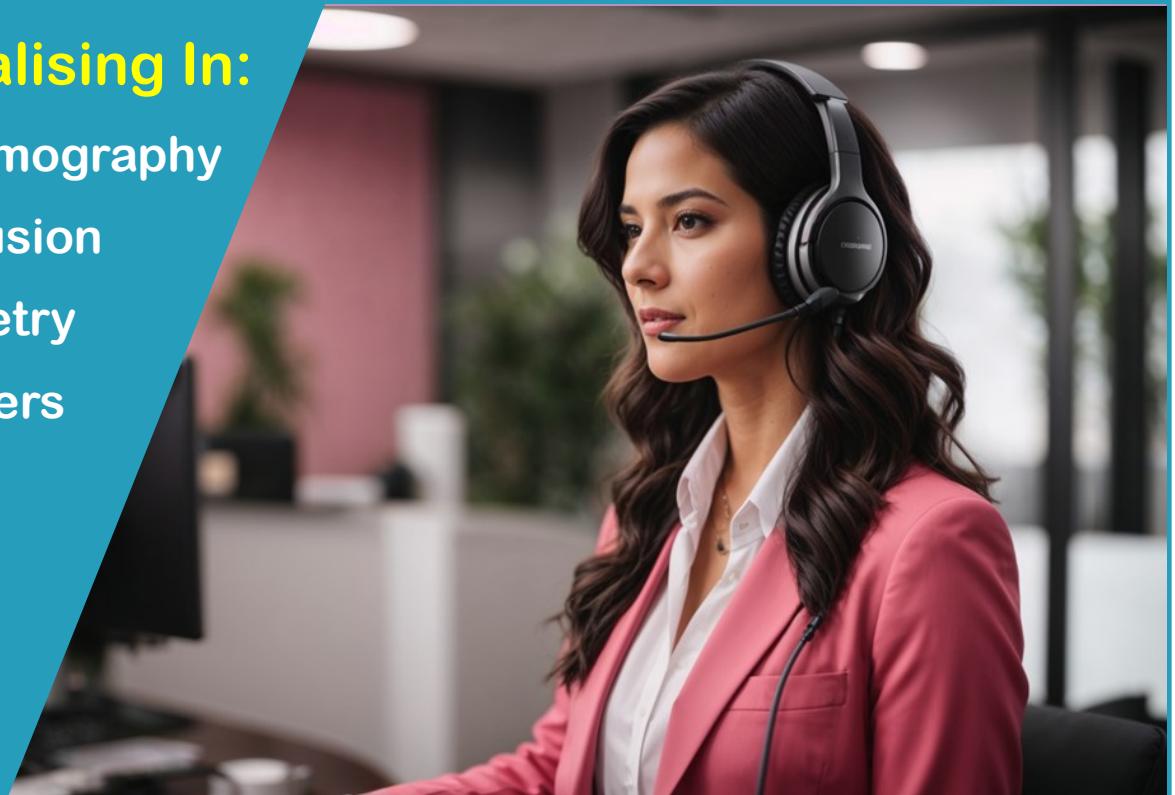
Co Diffusion

Spirometry

Nebulizers

Filters

HL7



We're Waiting For Your Call !

Tel: +48 783 457 707 Email: info@spirotechsolutions.com

Web: www.spirotechsolutions.com