Gold Standard PFT Testing

The SpiroAir has a rich heritage from the very origins of pioneering pulmonary function design. The SpiroAir combines all of the renowned engineering features of the Morgan Transfer Test into a sleek modern instrument harnessing the finest transducers ensuring clinical excellence.

Test Capability

When it comes to spirometry, there is no higher standard of measurement than the low resistance rolling seal spirometer! The same spirometer is utilized for measurements of closed-circuit helium dilution FRC. From the test set-up to the elegant O2 delivery during each study, the SpiroAir ensures patient comfort and quality of lung volume measurement.

The same can be said for DLCO, Respiratory Pressures, Bronchial Challenge and Cough Peak Flow testing. This instrument truly sets a standard that few can match!

SpiroAir features

- Gold standard 12L rolling seal spirometer
- Gold standard helium dilution FRC
- Superb reproducibility across all tests
- Pressureless delivery of DLCO gas
- Automatic test preparation
- Very low maintenance requirement or cost

Simple to use yet research grade

With ComPAS testing is as easy as 1, 2, 3...

1. A simple touch on [Spacebar] begins all tests.
2. When maneuvers are completed, the software checks the individual effort against ATS recommended PERFORMANCE criteria. If the effort meets these test standards, a hollow check mark provides visual confirmation.
3. Once the appropriate number of tests meet both PERFORMANCE and REPRODUCIBILITY criteria, solid check marks appear confirming that ATS standards have been met.
Pneumatic piston valve for silent reliable performance and minimal service. Pressureless delivery of DLCO gas.

Ergonomic mobile cart with clever cable management and durable design

All-in-one PC with brilliant visual display and wireless connection to mouse and keyboard

Accessibility drawer and adjustable shelves for printer and keyboard

**Capabilities**

**Test capability:** Static Spirometry, Flow Volume Loops, MVV, DLCO, Lung Volumes by Helium dilution, MIP/MEP, Cough Peak Flow & Bronchial Challenge.

**Optional with Nonin WristOx**

- Bluetooth Six Minute Walk

**ComPAS Features**

- Predicteds
  - GLI, ATS/ERS, Polgar, Knudson, Crapo & Morris, Hsu, Wang & Dockery and many more.

- Reporting
  - Brilliant library of report options:
    - Logo and header design
    - Manual entry information
    - Numerous test graphics
    - Summary of all efforts
    - Overlay of graphics
    - Past test result history
    - Serial data trend graphing
    - Computer impressions
    - Captured digital signature
    - Administrative Reports
    - QA Reports
    - Research Query Reports

**Interfacing**

- Health Level Seven (HL7)

**Remote Interpretation**

- When tests are completed, results can be routed to any network/internet-connected station for physician interpretation

**Remote Support**

- Using secure internet connections

**Specifications**

- **Model Number:** SpiroAir
- **PC Operating System:** Networked or Stand Alone
  - Windows 7 or 8
- **Size (H x W x D):** 15 x 27.5 x 17.5 in
- **Weight:** 40.1 lb
- **Operating Temp Range:** 63 - 99°C
- **Power Supply:** 110v 60Hz
- **Flow Detection Principle:** Lilly type pneumotachograph
- **Volume Detection:** Direct volume displacement
- **Accuracy**
  - Volumes: Better than +/- 3%
  - Flows: Better than +/- 5%
  - (Max 16L/s / Min 0.02L/s)
  - +/- 1% in range 0.1 L/s to 16 L/s
- **Linearity**
  - +/- 1% in range 0.1 L/s to 16 L/s
- **Gas Analyzers**
  - Helium: Thermal conductivity
  - CO: Electrochemical
  - O2: Galvanic Cell
- **Mouth Pressure**
  - Solid State Pressure Transducer
- **Patient Valve**
  - Pneumatic pistons
- **Inspirate Gas Delivery**
  - At atmospheric pressure
- **Mobile Cart:**
  - Dimensions: 32.3 x 26 x 23.6 in
  - Weight: 99 lb
- **Gas Requirement**
  - Test Gas: DLCO mixture (0.300% CO, 10.0% He, 21% O2 balance N2), 100% O2 and 100% He
- **Performance Standards**
  - ATS/ERS 2005 & EN ISO 23747:2009
- **Safety Standards**
  - IEC 60601-1:2005
- **Medical Safety Standard**
  - Medical Devices Directive 93/42/EEC

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