Diagnosing Better Care

Orbit™
Portable Spirometer

PRE-CALIBRATED
OFFICE MEDIC INTEGRATION

COMPACT & TRANSPORTABLE
LUNG-AGE CALCULATION
Unparalleled Accuracy

The Orbit™ is a full-function portable spirometer which connects directly to your Personal Computer (PC), laptop or tablet. The Orbit™ simplifies spirometry testing by eliminating calibration and sterilization with disposable nose-clips and pre-calibrated mouthpieces. This portable spirometer integrates with Office Medic™ software and your EMR system.

FEATURES & BENEFITS

- **Patient Safety:** Everything the patient touches is thrown away! This reduces the liability associated with cross-contamination. The QRS Pre-Calibrated Mouthpieces and Nose Clips are disposable, eliminating the need for sterilization and calibration.

- **Power Supply:** No batteries required with this device because its power is drawn from the PC.

- **Data Storage:** The PC and EMR connectivity allows for unlimited storage space. An average laptop can store 100,000 or more tests.

- **Report Generation:** When the Orbit™ is combined with Office Medic™ software, customizable reports are generated and JPEGs and PDFs can be created and transferred into patient files.

SPIROMETRY ACCESSORIES

- **QRS Pre-Calibrated Mouthpiece (Z-5000-2608)**
  The QRS Pre-Calibrated Mouthpieces are disposable and calibrated during production using the same equipment LDS Hospital uses to validate spirometers against the ATS’s recommendations for the Standardization of Spirometry.

- **QRS Nose Clips (724050-00)**
  The use of a QRS nose clip for occlusion of the nares is recommended by ATS Standards.

- **QRS 3L Spirometry Syringe (723000-00)**
  According to ATS standards, the volume accuracy of the spirometer must be checked at least daily.

- **Pressure Tubes (Z-7000-2032)**
  Pressure tubes connect the pre-calibrated mouthpieces to the QRS spirometers. They are re-usable, but need to be replaced if kinked or if condensation forms inside the tube.

WHAT’S INCLUDED

- Orbit™ Portable Spirometer
- Pressure Tubes – 2
- QRS Nose Clips – 5
- QRS Pre-Calibrated Mouthpieces – 2
- Office Medic™ software

SPECIFICATIONS

- **RANGE (BTPS):** Flow: ±14 liters/second
  Volume: 0.5 – 8 liters

- **ACCURACY (BTPS):**
  Flow:
  - FEF 25-75: ±5% of indication or ±200 ml/sec, whichever is greater.
  - PEF: ±10% of indication or ±300 ml/sec, whichever is greater.
  - Volume: FVC and FEV1: ±3% of indication or ±50 ml/sec, whichever is greater.
  - MVV: ±10% of indication or ±15 L/min, whichever is greater.

- **CALIBRATION:** ATS 3-speed standard calibration check

- **TESTS PERFORMED:** FVC, Pre/Post Testing, Flow Volume Loop, MVV, SVC

- **DIMENSIONS:** 4.3” x 3.7” x 1.7”

- **WEIGHT:** 0.5 lb.

- **OPERATING CONDITIONS:** 15-40°C, RH 10 to 90% (non-condensing), Atmospheric Pressure: 700 to 1060 hPa

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