

CPFS/D USB™

Spirometer



When you need full-function spirometry and space is at a premium, the CPFS/D USB spirometer is a most fitting solution. This small, portable system may look unassuming, but it's powered by the versatile Ascent™ cardiorespiratory diagnostic software, so you can be sure it will do more than meet your testing and data management needs. Because it's designed to work with MGC Diagnostics' proprietary preVent® flow sensor, it provides superior infection control and needs no recalibration or warm-up between patients.

Unlike our competitors, we incorporate the same measurement technique (preVent) for all of our pulmonary function testing products—so you can always be assured of accurate, reliable data comparisons from test to test.

The CPFS/D USB spirometer is compatible with desktop and laptop computers for maximum flexibility, and it meets or exceeds ATS/ERS standards and specifications. Amid all these capabilities, it even manages to provide some little extras, such as incentive graphs for spirometry, which are ideal for pediatric populations.

One little box. Myriad capabilities. All powered through a single USB connection.

TEST PERFORMED

Pre/post FVC, SVC, MVV and challenge (with optional bronchial provocation software)

PREDICTED NORMALS

The cardiorespiratory diagnostic software contains over 30 authors, the most extensive list of predicted formulas available, including NHANES III and Global Lung Initiative (GLI 2012 & Race Neutral).

DATABASE

Patient data are stored in Microsoft SQL database, providing the flexibility to access, manipulate and report data in multiple ways.

INTERPRETATION

Optional auto interpretation software allows for an immediate computerized assessment of testing results.

TREND REPORTS

Trend reports allow printing and graphing data from previous patient visits so that progress can be monitored.

DATABASE QUERY

Queries of the patient database can be performed for quality control or particular sets of patients.

BRONCHIAL PROVOCATION

Optional software is available for methacholine, mannitol, exercise or cold-air challenges.

NETWORK CAPABLE

With the addition of AscentConnect™ networking software, the system may be added to a local or wide area network.

PERFORMANCE SPECIFICATIONS

The system consists of a flow module containing the transducers and electronics to produce a bidirectional flow signal with the MGC Diagnostics preVent flow sensor.



SPECIFICATIONS

MEASUREMENT PRINCIPLE

- Patented bidirectional Pitot tube flow sensor
- Flow Range: ± 18 L/s
- Resolution: 8.65 mL/s
- Accuracy: $\pm 2\%$ or 50 mL, whichever is greater
- Deadspace: 39 mL
- Resistance: < 1.5 cm H₂O/L/s @ 14 L/s (exceeds ATS/ERS specifications)

SIZE

- H x W x D: 2.6 x 3.4 x 5.9 in (6.6 x 8.7 x 15 cm)

WEIGHT

- 1lbs (0.45 kg)

OPTIONAL CART

- Top Shelf (W x D): 19 x 13 in (48.25 x 33 cm)
- Bottom Shelf (W x D): 18 x 12 in (45.75 x 30.5 cm)
- Wheel Base: (W x D): 24 x 26 in (61 x 66 cm)
- Height: 34 in (86.4 cm)
- Weight: 37 lbs (16.8 kg)

ENVIRONMENTAL CONDITIONS

- Temperature: 59-95° F (15-35° C)
- Humidity: 5-90% non-condensing

POWER REQUIREMENTS

- USB from computer

INTEGRATED ENVIRONMENTAL MONITOR

- Temperature
- Humidity
- Barometric Pressure



SOFTWARE FEATURES

- Complete spirometry
- Report designer
- User-defined predicted formulas
- Roles Base Security with Auditing
- Disability reports
- Trend reports
- Networking (optional)
- Query database (optional)
- Bronchial provocation (optional)
- Auto Interpretation software (optional)
- Electronic signature (optional)

The preVent flow sensor has been independently validated and shown to meet ATS recommendations for accuracy against the 24 standard waveforms of Hankinson and Graner, for FVC, FEV1, FEF 25-75%.



Patient Incentive Screen

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