

CPFS/DTM USB

PC Based Spirometer

Spirometry testing with remarkable accuracy and reproducibility.

A full function spirometry system for testing flow-volume loops, slow vital capacity and maximal voluntary ventilation. From simple spirometry to complete bronchial provocation, the CPFS/D USB is unsurpassed in its testing capabilities and meets or exceeds all current ATS/ERS recommendations for accuracy and performance.

Small size, portable, easy to use software and compatibility with other MedGraphics products, makes the CPFS/D USB the ultimate choice for spirometry testing.

The patented MedGraphics preVentTM Pneumotach provides accurate measurement, convenience and infection control. Its simple snap-in design means easy replacement between patients.

User friendly BREEZESUITE diagnostic software provides quick and easy testing by the clinician. Review and select predictive methodologies, retrieve or store patient tests, and generate complete reports. Flexibility allows this system to be used with a desktop or laptop computer equipped with a USB port.



CPFS/DTM USB System Specifications



Pediatric Incentives

All specifications subject to change without notice. Products may vary from those illustrated. Please contact your MedGraphics Representative for latest information, pricing and product availability.

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Tests Performed

Pre/Post FVC, SVC, MVV and Challenge (with optional Bronchial Provocation software).

Database

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

Interpretation

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

Trend Reports

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

Predicted Normals

BREEZESUITETM contains over 30 authors, the most extensive list of predicted formulas available, including NHANES III.

Database Query

Perform queries of the patient database for quality control or particular sets of patients.

Bronchial Provocation

Optional software for Methacholine, Exercise, or Cold Air Challenges.

Network Capable

With the addition of MedGraphics MultiUser software, the system may be added to a local or wide area network.

Performance Specifications

The CPFS/D USB is a full function spirometry system meeting current ATS/ERS recommendations for accuracy and performance and all applicable safety standards. The system consists of a flow module containing the transducers and electronics to produce a bi-directional flow signal with the MedGraphics preVentTM pneumotach.

Computer Requirements

- Pentium III 800MHz (or faster)
- 256 MB RAM
- 10+ GIG Hard Disk
- CD ROM
- USB Port
- Windows 2000 or XP Professional

Printer:

- Windows compatible

Spirometer Specifications

Measurement Principle

- Patented bi-directional Pitot Tube pneumotach
- Patent numbers: #5,038,773 and #5,119,825
- Flow Range: ± 18 L/second (± 1080 L/min)
- Resolution: 8.64 ml/sec
- Accuracy: $\pm 3\%$ or 50 ml, whichever is greater
- Deadspace: 39 ml
- Resistance: <1.20 cmH₂O/L/sec @ 12 L/sec (exceeds ATS/ERS specifications)

The preVent pneumotach 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%.

Size

- 3 x 3 x 6 in (ht x width x length)
- 8 x 8 x 15 cm

Weight

- 1.25 lbs (0.56 kgs)

Environmental

- Temperature: 5 - 35° C
- Humidity: 5 - 90% non-condensing

Power Requirements

- USB

Software Features

- Report Designer
- Multi-User (optional)
- Query Database (optional)
- User Defined Predicteds
- HIPAA Security