PC-SPIROMETRY

Standalone or with Diagnostic System

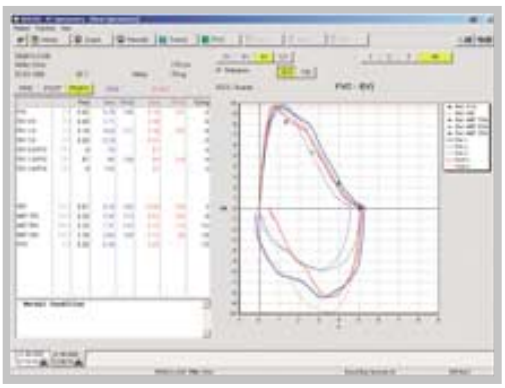
Pulmonary Function Testing has never been easier with SCHILLER's latest technology in PC-Spirometry. Our Windows based program can be used either as a standalone PC-Spirometry System on a Laptop or in combination with the CARDIOVIT AT-104 PC Diagnostic System.

SP-250

SP-260

Sensors SP-250/260

Both Pneumotacho Sensors distinguish themselves through their easy handling. They are ergonomically shaped, pleasantly lightweight and thereby comfortable to hold. The SP-250 has a disposable sensor, which is replaced after each use. This ensures hygienically impeccable work and increases the efficiency as the sensor does not need to be disinfected between use, making the system available any time. The disposable sensors are all tested for minimum tolerance and thereby warrant an absolutely exact measurement. The SP-260 allows the same accuracy as the SP-250, but with a reusable sensor. The sensor's inner tube can be removed and can easily be cleaned using a common disinfectant. In this sensor it is only necessary to replace the small measurement filter and the cardboard mouthpiece. This reduces material cost – ideal if there are only a few measurements carried out each day.



Comprehensive Pulmonary Function Testing

Four measurement programs for inspiratory and exspiratory tests are available: FVC, SVC, MVV and MV, with nominal/actual differences calculated automatically and pre/post medication comparisons to aid diagnostics.

Easy operation

One button push starts the tests. Our program is Windows based and therefore very user-friendly designed. Tests can be carried as many times as desired with the results clearly displayed on the screen. The flow/volume, the volume/time and the flow loop trace is shown in real time and in color. Calibration takes normally less than a minute!

Storage and printing

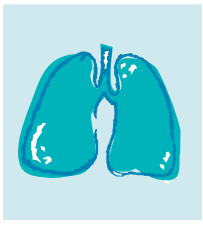
Pulmonary function data is saved using the on-board Data Management SEMA-200; all previous examinations are easily accessed and viewed on the screen. Clean, clear, ready-to-file reports are printed on a laser or color ink-jet printer in seconds.

Interpretation/Diagnosis

The software gives diagnosis indications when requested. You can select firm terminology from a data base and extend it with your own text. In addition, our "Interpretation Quadrant", which differentiates between "Normal", "Obstructive", "Restrictive" or "Combined", complements the diagnostic information.

Long-Term Comparisons/Trends

When a series of recordings from one patient is available, trend traces can be shown. You select, which of 24 different measurement values should be compared and view them in order.



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Measurement table

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Technical Data PC-Spirometry:

System: According to CARDIOVIT AT-104 PC

Conformity: CE according to 93/42/EEC

Measured Values:

FVC: FVC, $FEV_{0.5}$, $FEV_{1.0}$, $FEV_{3.0}$, $FEV_{0.5}$/FVC, $FEV_{1.0}$/FVC, $FEV_{3.0}$/FVC, $FEF_{0.2-1.2}$, $FEF_{25-75\%}$, $FEF_{75-85\%}$, PEF, $MEF_{75\%}$, $MEF_{50\%}$, $MEF_{25\%}$, FIVC, $FIV_{1.0}$, $FIV_{1.0}$/FIVC, $FIV_{1.0}$/FVC, PIF, $MIF_{50\%}$

SVC: SVC, ERV, IRV, TV

MV: MV, RR, TV

MVV: MVV, RR, TV

Presentation:
- Flow/volume graph
- Volume/time graph
- Flow loop
- Measurement values table
- Measurement values table
- Trend display at >1 recording per patient
- Interpretation quadrant

Prediction Equation:
- **Adults:** ECCS, Austria, Crapo, Morris, Knudson, Knudson 76, Polgar, Berglund, Finland, India, Composite
- **Children:** Quanier & Tammeling, Austria, India, Knudson, Knudson 76, Polgar
- **Extrapolated predicted values**
- **Comparison pre/post medication possible**

Standards Compliance: ATS, OSHA, NIOSH

SPIROVIT SP-250 Pneumotacho Flowsensor for Pulmonary Function Testing with disposable Sensors:

Dimensions SP-250:
118 x 36 x 28 mm, approx. 120 g; 4.6 x 1.4 x 1.1 in., approx. 0.26 lbs

Measuring Method: Pneumotachometer

Measuring Accuracy: According ATS < 3%

Flow Impedance: <0.2 mbar *s/l at 12 l/s

SPIROVIT SP-260 Pneumotacho Flowsensor for Pulmonary Function Testing with reusable Sensor:

Dimensions SP-260:
125 x 36 x 28 mm, approx. 160 g; 4.9 x 1.4 x 1.1 in., approx. 0.34 lbs

Measuring Method, Measuring Ranges, Measuring Accuracy, Flow Impedance same as SP-250

Basic Unit:
- PC-Spirometry program with four inspiratory and exspiratory pulmonary function tests
- 1 pneumotach sensor (choice of SP-250 disposable or SP-260 reusable sensor)
- Accessories: 2 noseclips and either 1 pack of disposable plastic mouthpieces (for SP-250) or 1 pack of disposable filters (for SP-260)
- SCHILLER Software CD ROM
- Interface adapter PC Spirometry
- 1 operating manual

Option: Calibration syringe

PC Requirements:
- Pentium II
- RS-232 Interface for Sensor
- Windows 98, NT or 2000

Technical Data are subject to change without notice.

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Part No. 2.500360

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The Art of Diagnostics