

SPIROVIT SP-1

Portable Spirometry System

Features

- Handy standalone basic spiro device
- FVC, SVC, MVV, MV and pre/post medication tests with choice of predicted normals
- Internal memory for up to 100 tests
- Mains and Battery operation
- Ready-to-file reports within seconds on 3.6" (90 mm) paper
- Comparison of predicted and actual values
- Automatic interpretation
- Affordable, fast, reliable, Simple operation



The SPIROVIT SP-1 is a unique solution to simplify complex lung function testing. The LCD displays real-time flow/volume loops and detailed measurement matrices. The data can be either printed within seconds or transmitted to a PC.



Reusable Sensor SP-20
SCHILLER's SP-20 reusable sensors are small, lightweight and very easy to clean. The low-cost filters provide the most economical method of performing pulmonary function tests.



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Technical Data SPIROVIT SP-1

General

Dimensions: 290 x 210 x 69 mm, app. 2.9 kg; 11.4 x 8.3 x 2.7 in, app. 6.3 lbs
Power supply requirements: 220–240V, nominal 230V, 50/60 Hz, or 100-115V, nominal 115V, 50/60 Hz; mains-independent operation with built-in rechargeable battery and charger unit, LED indication for line or battery operation
Battery charging time: 15 hours for a completely discharged battery (Battery Charging < 3 hours to 60 % capacity)
Battery capacity: 2 hours of normal use
Power consumption: max. 28VA
Storage: Memory for up to 100 tests
Liquid Crystal Display:
- Liquid crystal display for graphic and alphanumeric representation
- Resolution: 192 x 64 dots
- Contrast is manually variable via keyboard
Chart paper: Thermoreactive, Z-folded, width 90 mm/3.6 in, perforation each page
Printing process: High-resolution thermal printhead, 8 dots/mm
Paper speed: 25 mm/s
Control panel and keyboard: User-friendly rubber keys, LED indicators

Safety Standards

Safety Standards: MDD 93/42/EEC, Annex II; EN 60601-1: 1990; IEC 60601-1-2
Safety class: BF according to IEC 60601-1
Protection class:
- I according to IEC 60601-1, CSA 22.2 and UL 2601 (units with internal battery)
- IIa according to MDD 93/42/EEC (medical guideline)
Conformity: -0123 according 93/42/EEC
Environmental conditions:
- Temperature operating: 10° to 40° C/50° to 104° F
- Temperature storage: -10° to 55° C/14° to 122° F
- Relative humidity: 25 to 95 % (not condensed)
- Pressure operating: 700–1060 hPa

Hardware Options

Transport case, 3 litre calibration syringe (optional)
Standard Interfaces: 1x RS-232 serial interface for software upgrade

Spirometry

Measured Values:
FVC: FVC, FEV0.5, FEV1.0, FEV3.0, FEV0.5/FVC, FEV1.0/FVC, FEV3.0/FVC, FEV0.2-1.2, FEF25–75%, FEF75–85%, PEF, MEF75%, MEF50%, MEF25%, FIVC, FIV1.0, FIV1.0/FVC, FIV1.0/FVC, PIF, MIF50%
SVC: SVC, ERV, IRV, TV
MV: MV, RR, TV
MVV: MVV, RR, TV
Prediction equation:
- Adults: ECCS / Austrian / Berglund/ Finnish/ Indian/ Thai/ Morris/ Crapo/ Knudson 76/ Polgar/ Composite
- Children: Quanier & Tammeling, Austria, India, Knudson 76, Polgar
- Comparison pre/post medication possible
- Extrapolated predicted values
Presentation:
- Flow/ volume loop
- Flow/ time plot
- Measurement values table
Standards Compliance: ATS, OSHA, NIOSH

Sensors

SPIROVIT SP-20
Pneumotoc Flow sensor for Pulmonary Function Testing with Reusable Sensor:
- Dimensions: 125 x 36 x 28 mm, app. 160g; 4.9 x 1.4 x 1.1 in., app. 0.34 lbs
- Measurement method : Flow sensor"
- Measurement ranges : Flow: 0 to ± 16 l/s; volume: 0 to ± 15 litres"
- Measurement accuracy : ± 2%"
- Flow impedance : < 0.2 mbar * s/l at 12 l/s"

Certification

CE 0123

Standard Accessories

- SP 20 Sensor - 1 no.
- Disposable Filter for SP 20 Sensor - 1 box
- Adaptor for Spiro Sensor-1 no.
- Holder for Spiro Sensor - 1 no.
- Nose clip - 2 nos.
- Mains cable- 1 no.
- Thermal paper - 1 no.
- Disposable mouthpieces- 100 nos.
- Warranty card- 1 no.
- User Manual - 1 no.

Accessories shown are not part of standard configuration All registered trademarks acknowledged.

Technical data are subject to change without notice

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