

Welch Allyn SpiroPerfect™ PC-Based Spirometer

Technical Specifications

SpiroPerfect Tests	Computer-based full diagnostic spirometer FVC, SVC, MVV, Pre- and Post-BD	Bi-directional Connectivity	Allscripts MY Way, Allscripts Pro, Allscripts Enterprise, eClinicalWorks, e-MDs, GE Centricity, Gemms, GreenWay, Pactice Partners, NextGen
Sensor Type	Pneumotach	Quality Checks	Effort Acceptability and Test Reproducibility checks Audio and visual incentive for assistance in coaching patients
Power Equipment	None, obtained from USB port	Connectivity	Part of the CardioPerfect™ Diagnostic Suite Export compatible with most electronic medical records programs
Accuracy	Meets or exceeds 1994 ATS standard		Available in multiuser network Telemedicine option for secure e-mail transfer
Reproducibility	Meets or exceeds 1994 ATS standard		
Volume Range	0-14 L		
Flow Range ±14 L/sec			
Software	Windows® XP, Vista and 7 compatible		
Predictive Norms	Berglund 1963, Crapo 1981, Dockery 1983, ECCS/Quanjer 1993, Falaschetti 2004, Forche II 1988, Langhammer 2001, Hedenström 1986, Hibbert 1989, Hsu 1979, Knudson 1976, Knudson 1983, Koillinen 1998, Kory 1961, Morris 1971, NHANES III 1999, Polgar 1971, Roca 1986, Schoenberg 1978, Solymar 1980, Viljanen 1981, Wang 1993, Zapletal 1969	Minimum Computer Requirements (Recommended)	
Interpretation	1991 ATS Interpretation Standards. Automatic can be disabled. Manual interpretation available. Lung age calculation	Processor	Intel® Pentium® III (Pentium IV or higher) Hard Drive 2 GB (4 GB or more)
Reports	Multiple report templates including FVC, SVC, MVV, measurement, and trend	RAM	256 MB (512 MB or higher)
Incentive Graphic Parameters	Fireman FVC, FEV0.5, FEV1, FEV2, FEV3, FEV5, FEV6, FEV0.5, FEV0.5%, FEV1%, FEV1/FVC, FEV2%, FEV3%, FEV5%, FEV6%, PEF, FEF25, FEF50, FEF75, FEFO.2-1.2, FEF25-75, FEF75-85, FEF50/FIF50, FEV1/FEV6, FET, MEF25, MEF50, MEF75, FVC, FIV1, FIV1%, PIF, FIF50 SVC, ERV, IRV, VT, IC, BF, MV, Tin, Tex, Tin/Tex MVV, MV, VT, BF, DFR	Monitor Resolution	1024 x 768 true color
		Operating Systems	Windows® XP, Vista, and 7
		CD-ROM	Required for installation
		Printers	Color printer recommended. Compatible with inkjet and laser printers. Laser printers require a minimum of 2 MB of memory
		Performance Standards	
			SpiroPerfect meets or exceeds the following standards: ATS/ERS—American Thoracic Society/European Respiratory Society, Standardization of Spirometry, 2005 Update NIOSH—National Institute for Occupational Safety and Health OSHA—Occupational Safety and Health Administration SSD—Social Security Disability ECCS—European Community for Coal & Steel

Ordering Information

SPIRO-S	SpiroPerfect™ PC-Based Spirometer Module: PC Spirometer Module with 3 L calibration syringe. Includes: sensor, pressure tubing, 8 flow transducers, electronic operator's manual, Welch Allyn CardioPerfect™ Workstation Software CD, 2 training posters, and quick reference card
SPIRO-NS	SpiroPerfect™ PC-Based Spirometer Module: PC Spirometer Module without 3 L calibration syringe. Includes sensor, pressure tubing, 8 flow transducers, electronic operator's manual, Welch Allyn CardioPerfect™ Workstation Software CD, 2 training posters, and quick reference card
703418	Disposable Spirometer Flow Transducer, 25 pk
703419	Disposable Spirometer Flow Transducer, 100 pk
703415	Pressure Tubing, 2 m
100680	Nose Clip (25 pk)
703480	Calibration Syringe (3 liters)

CPT Codes

94010	Basic Spirometry—Spirometry including graphic record, total and timed vital capacity, expiratory flow rate measurement(s), with or without maximal voluntary ventilation
94060	Pre- and Post-BD—Bronchospasm evaluation: spirometry as in 94010, before and after bronchodilator (aerosol or parental), or before and after exercise

To learn more about the Welch Allyn SpiroPerfect PC-Based Spirometer or to request a demonstration, contact your Welch Allyn representative. You'll find a solution that not only improves patient care, but provides priceless peace of mind.

4341 State Street Road, PO Box 220, Skaneateles, NY 13153-0220
(p) 1.800.535.6663 (f) 1.315.685.2174 www.welchallyn.com

Welch Allyn PC-Based SpiroPerfect™ Spirometer

WelchAllyn
Advancing Frontline Care™



Welch Allyn PC-Based SpiroPerfect Spirometer provides accurate, integrated patient information at your fingertips for improved patient safety and enhanced clinical decisions.

Now you can spend less time with paperwork and more time with your patients. With immediate access to accurate patient data you can clearly evaluate pulmonary obstruction or restriction, help increase success rates of patients who are undergoing smoking cessation, show progress, and help pediatric patients comply with test procedures.

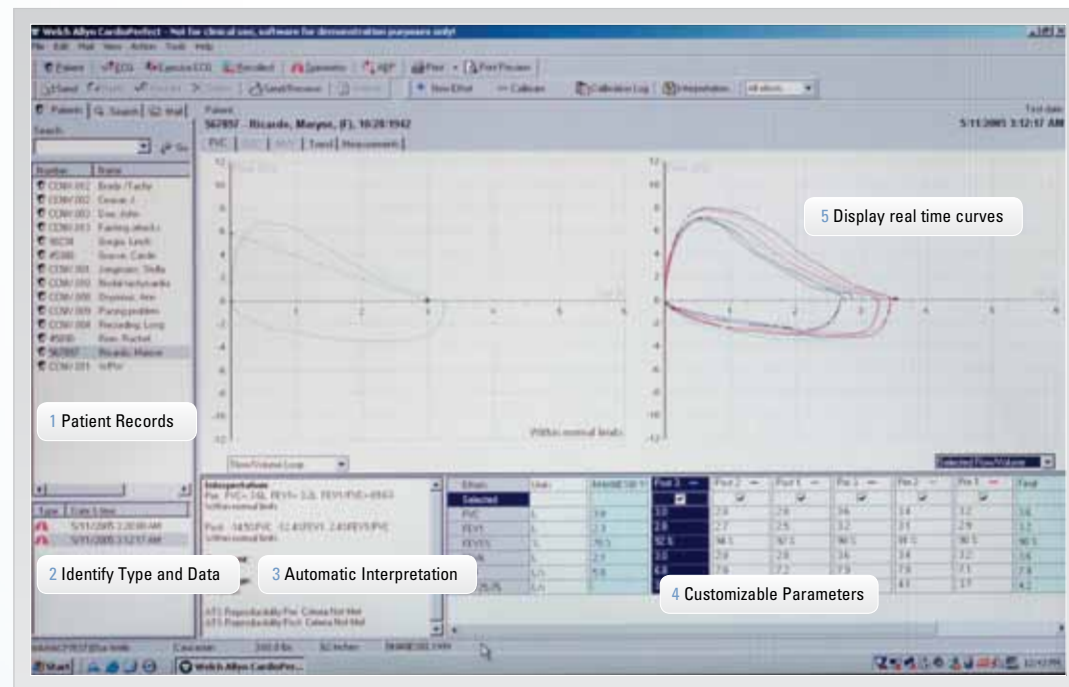
Fast, reliable pre- and post-bronchodilator FVC, SVC and MVV testing with automatic interpretation and reversibility analysis

- View real-time Flow/Volume Loop and Volume/Time graphs
- Instantly verify quality and variability of proper test performance
- Motivate children with incentive graphic—for pediatric patient coaching
- Reduce risk of cross contamination with single-use disposable transducers
- Select single and multiple flow calibration protocols

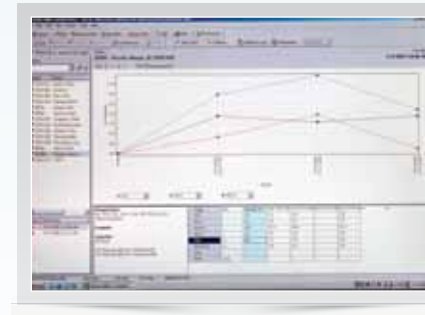
Easily monitor, review, store and print on your existing computer with the Welch Allyn CardioPerfect™ Workstation

- Choose from multiple predicted norms and report formats
- Compare previous tests with the Trending tool
- Make available to multiple staff via computer network
- Bi-directional interface with most Electronic Medical Records or patient management systems for onsite or offsite review of key data.

Integrated.
Customizable.
Intuitive.



- 1 Store, retrieve, print or edit **patient records** using the Welch Allyn CardioPerfect Workstation database.
- 2 Easily **identify** all diagnostic test types and dates that each procedure was performed.
- 3 **Automatic interpretation** follows ATS Interpretative Strategies and test reproducibility criteria.
- 4 See a quick snapshot of patient results. Select from 6 parameters to show real-time testing and summary. View measurement tables with 19 fully **customizable parameters**.
- 5 **Display real time curves** as Flow/Volume, Volume/Time, Flow/Time or Pre, Post. All efforts or best effort can be displayed on the same graph for easy comparison.



- **Compare tests** done on different days and clearly see progress.
- View three parameters at once as a percentage of predictive values or of absolute value.



- Convenient accurate patented **Disposable Flow Transducers**. Use for adults or children
- Breakaway feature minimizes the risk of cross contamination.
- No sterilization, no cleanup—just safety and savings.



- Coach, motivate and make testing more fun.
- The **Incentive Screen** helps children understand your goals and comply with testing protocols.

Get connected to your EHR through Welch Allyn CardioPerfect™ Workstation Software

Perform patient test with Welch Allyn PC-Based SpiroPerfect™ Spirometer

Immediately transfer of test data to the Electronic Health Records Systems

No more copying, scanning and shredding reports—with a bi-directional interface to most EHRs, you can immediately retrieve and capture patient data, acquire a test and view results anywhere on the network.

- Retrieve records with the touch of a key, and review and edit right on the screen
- Store thousands of records with ease
- Immediate access to information from your exam rooms, different office locations, or from home
- Fax or e-mail reports directly for referral consults
- Compare and edit diagnostic test data from any computer on your network
- Add additional cardiopulmonary diagnostic testing modules like ECG, ABPM, or stress as your practice grows
- Copy and paste spiromographs into Microsoft® Word
- Data security features include user roles, password protection and audit trail capability to assign/limit tasks so that data integrity is maintained