



MasterScreen PFT

Powered by SentrySuite™

MasterScreen PFT powered by **SentrySuite™**, is an effective combination of robust hardware technology and innovative software platform. A complete, stable and durable system made to stand the heaviest workload in your PFT lab. The concept behind MasterScreen PFT with SentrySuite™ proves that accuracy, reliability and low cost of operation can go hand in hand.

From Spirometry to Lung Volumes, from Diffusion Capacity to Lung Mechanics and Bronchial Provocation, MasterScreen PFT is the all-round station for your pulmonary function tests and efficient department workflow.



CareFusion

2 MasterScreen PFT configurations available:

- Spirometry, SB Diffusion and FRC He rebreathing
- Spirometry and SB Diffusion



Complete pulmonary function testing

All measurement programs are now powered by our new SentrySuite™ platform. Besides ease-of-use, flexibility and quality control, the MasterScreen PFT with SentrySuite™ offers you:

- **Enhanced spirometry:** Slow Vital Capacity, Forced Vital Capacity and Maximum Voluntary Ventilation.
- **Static Lung Volumes:** using the Helium rebreathing method for FRC, ERV, RV, TLC, VC, IC.
- **SB Diffusion Realtime:** with continuous, high speed gas analysis, volume and mouth pressure.
- **SB Diffusion Intrabreath:** a non-breath hold maneuver with continuous, high speed gas analysis, volume and mouth pressure.

Options:

- **Cardiac Output during SB Diffusion Intrabreath** using C₂H₂ gas (only available outside the USA).
- **Impulse Oscillometry (IOS)** complements spirometry with airway resistance analysis during tidal breathing, proven highly informative and differentiated in the early detection, follow up of pulmonary diseases and suitable for patients of all ages.
- **APS pro Provocation System** for automated, software controlled, accurate and safe bronchial provocation testing.
- **Rocc** allows for easy and fast resistance testing with just one single occlusion.

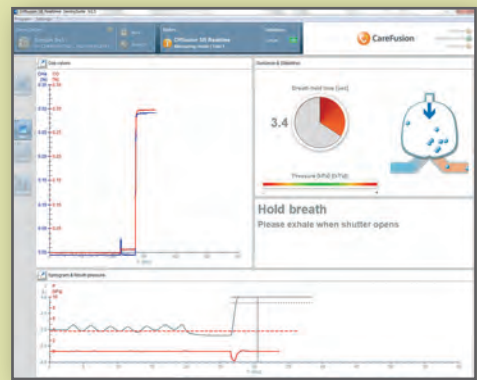
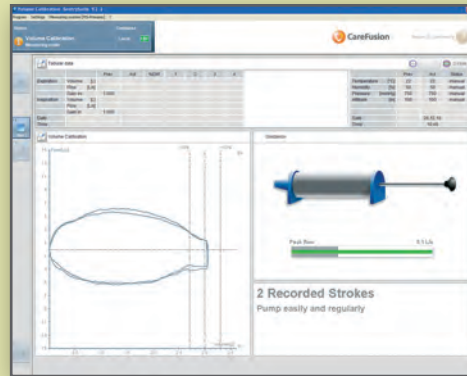
Ideal for:

pulmonary diagnostics, respiratory care departments, clinical labs, allergy labs, pediatrics, physiology, research, occupational medicine, sports medicine, etc.

Featuring SentrySuite™

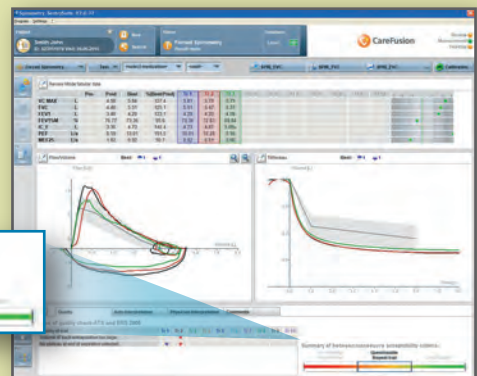
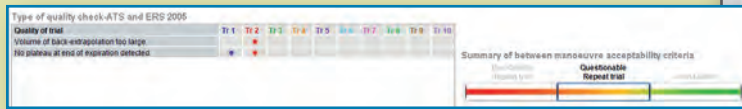
Guidance and coaching

- Appealing incentive screens, friendly, reassuring, helpful, with textual guidance and animated coaching during every test, to guide both operator and patient.



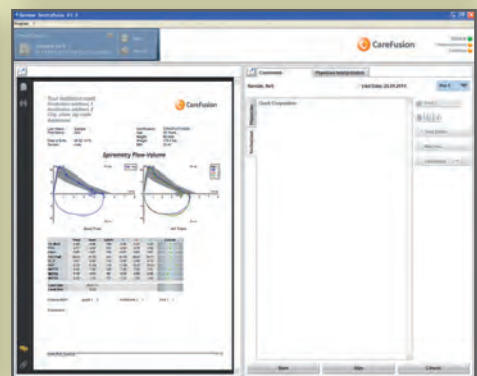
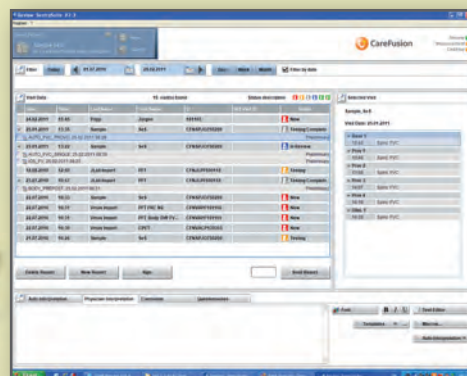
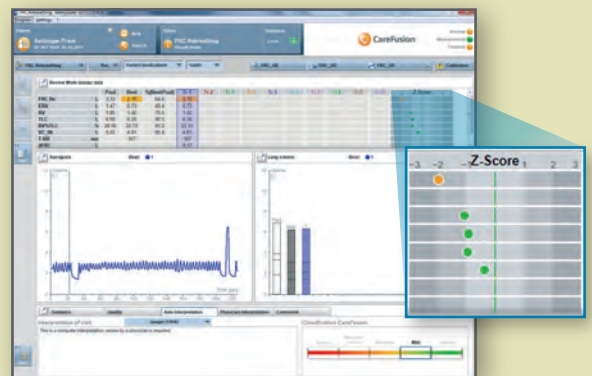
Quality control

- High standard Quality Control based on ATS/ERS or other authors, during and between measurements, with color coded repeatability graph to optimize patient results.



Results review

- Comprehensive results review with clear, easy to read, logical screens, assisting technician and clinician with a variety of tools like Z-score, ATS/ERS classification bar, automated interpretation (Ellis, ITS 1984, Methodist Hospital, JAEGER® 1994, IOS Interpretation) to improve clinical outcome.
- Import data from our Micro Medical, SpiroPro® and FlowScreen® screener spirometers to allow patient further testing, follow-up at home and a full patient picture.



The heart of the system, the JAEGER® flow and volume transducer

The reliable, well proven, accurate, JAEGER® heated pneumotach, used in hundreds of publications is by now a “classic”. Thousands of PFT labs depend daily on its high performance. The heated “PT” can be easily and quickly disassembled for cleaning or used with the practical MicroGard® bacterial filter.



The “Diffusion difference”

One of the best and unmatched features available in the CareFusion MasterScreen PFT, powered by SentrySuite™, is the quality, ease of use, accurate alveolar-capillary diffusion testing, with its unique choice of two methods.

- **The SB Diffusion Realtime test:** standard breath-holding maneuver with all test gases sampled at the mouth, from the start to the end of the test. Discard and sample volumes can be modified to test even the smallest vital capacity subjects and any volume of dead space.
- **The SB Diffusion Intradbreath test** with optionally Pulmonary Blood flow (Q): when breath holding is not easy to obtain, with just a slow inhalation and exhalation, even the less cooperative subjects can be tested. With the optional software and C₂H₂ test gas, Cardiac Output* or Q can be measured with the same maneuver.

*Only available outside the USA

A few of the advantages:

- **Ultra Fast gas analyzer**, for realtime measurement with airway pressure monitoring, during the complete maneuver, drives full quality control, and optimized test results, even with the less cooperative and most severely impaired patients.
- **A unique training mode**, now available for the single breath tests so that the patient, coached by the operator, can practice a test with room air and therefore get faster to qualitative results on the diffusion maneuver without waste of test gas.
- Between trials **on-screen timer** to take better advantage of testing and lab time.
- **Animated and textual guidance** during every test, to assist operator and patient.
- **Classification graph** according to ATS/ERS standards to assist in the diagnostic procedure.

Precision rebreathing technique - FRC Helium

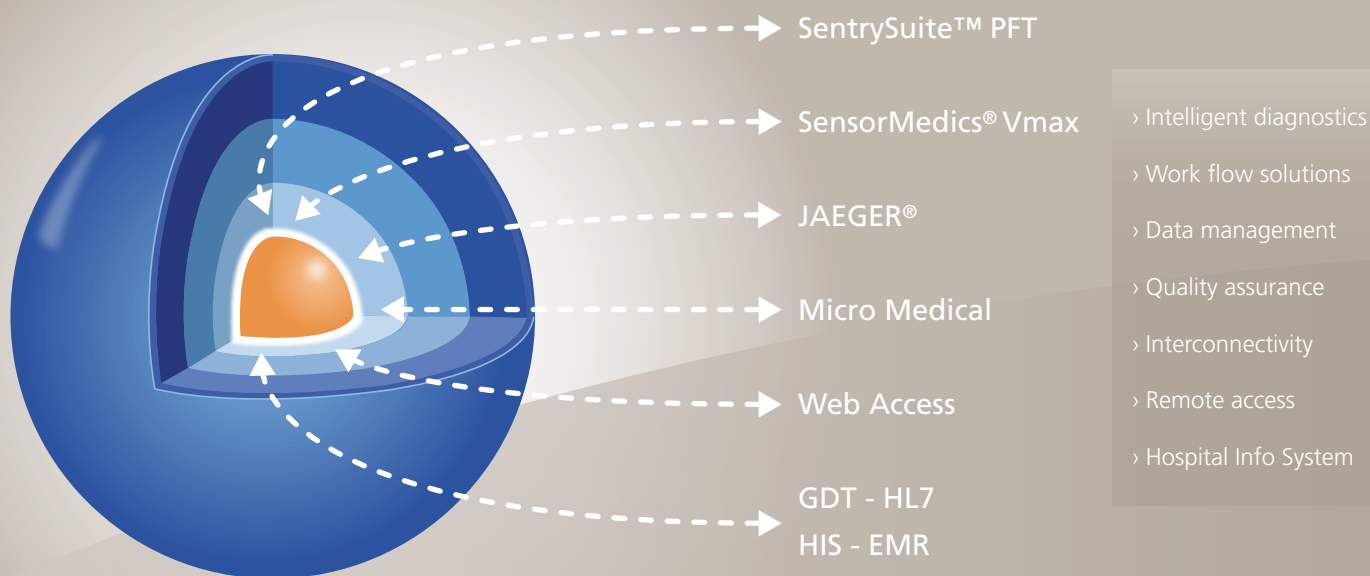
- The parameters acquired by the Helium rebreathing method form the base of a correct physiological diagnosis. The key component in the measurement of static lung volumes is the determination of FRC.



The new SentrySuite™ platform adds value

The new SentrySuite™ is not just software, but is also a watchful eye. Your assistant, who searches and finds, observes and notifies, checks and guides you in your daily pulmonary function testing activities. SentrySuite™ is the system manager that guides users through a smooth, safe, efficient workflow for the testing, analysis and reporting phases, by providing a series of procedural, QA, and analysis tools built into the software and displayed using new screen layouts designed with logic and common-sense.

SentrySuite™ uses SQL Server® 2008 for the best possible data storage and safety, with optimal write and retrieval over networks, the latest computer hardware with Windows® 7 operating platform, and powerful algorithms to fully control the MasterScreen PFT, while adding to the unmatched features of this device the ease-of-use for the less skilled operator or the full configuration capabilities, test options and continuous quality control for all.



SentrySuite™ with SQL database

SentrySuite™ is compatible with your "CareFusion Family" of devices, i.e. the JAEGER® MasterScreen and Oxycon instruments, the SensorMedics® Vmax Encore and the Micro Medical series. All PFT and CPET data collected on these devices (and others!) can be imported, combined, reviewed, interpreted and reported through one "database of record", SentrySuite™.

SentrySuite™ can import some competitors databases as well.

Through life-extension and phased-budgeting, SentrySuite™ offers you a smooth transition to a new cardio-pulmonary diagnostic lab while securing your historical databases and capital investment.

The "CareFusion Experience"


CareFusion Respiratory Diagnostics is a worldwide company with headquarters in the USA and Germany.

An organization with over 60 years of history and experience in the field of pulmonary function testing. It is still today the strongest, most experienced, most reliable supplier of cardiopulmonary diagnostic devices.


Familiar, well established past brands include Godart, Mijnhardt, JAEGER®, Beckman, Gould, SensorMedics® and VIASYS have supplied our pulmonary and exercise labs for decades.

At CareFusion we are "experience" at its highest state, a company that you can rely upon, both now and always.

With our direct offices and exclusive distributors well known all over the world, we are constantly working on developing better products, clinical concepts and healthcare solutions. With our renowned, global Customer Service and Support organization, we stand for the finest support in almost every country, at anytime.

 **CAUTION** — U.S. Federal Law restricts this device to sale by or on the order of a physician.

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