



Vitalograph Morgan PFT—VitaloLAB™



Introducing the VitaloLAB

With decades of experience innovating the latest solutions in lung function testing, Vitalograph and Morgan Scientific have partnered to deliver the most technologically advanced hardware and software for PFT testing on the market. Flexible EMR integrations, remote interpretation, stunning reports, ease of use, and patient comfort are all hallmarks of the VitaloLab powered by COMPAS2.



Features

- Cart-based full PFT system for accurate point of care testing
- Simple to use with research grade results
- Compliant with the latest guidelines for accuracy, reproducibility, and grading
- Removes the need for costly add-ons and upgrades with a wide range of standard tests
- Performs spirometry, challenge, diffusion capacity, lung volumes, and gas distribution measurements



It's time to look at PFT from a different angle

The all new VitaloLAB, manufactured by Vitalograph and powered by COMPAS2 is the most advanced combination in pulmonary function hardware and software available. The world of PFT is being revolutionized!



Spectacular new technology

The world's most powerful and advanced PFT solution just got better.

- Uniquely advanced American fast gas technology
- Compliant to 2019 ATS/ERS Guidelines
- End-to-end encryption for data storage and transit
- Updated reports and challenge testing from the latest ATS guidelines
- Support for single sign-on with Windows
- Support for separate race-ethnicity and birth sex-gender identification
- Instant rendering of reports. No wait time!
- Customizable testing dashboards
- Real time billing tools with advanced reporting
- Designed for Windows 10 and beyond



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The ultimate power of
ComPAS2—the world's most
advanced PFT software

Fast-gas diffusing capacity,
multi-breath & single-breath
Nitrogen washout lung volumes

Stylish adjustable-height cart
with integrated articulating arm
for patient valve



Test gas delivery at
atmospheric pressure—no
added resistance!

World-class interpretation
workflow and EMR integration

Amazingly quiet and pleasant
patient and technician
experience

Verifiable no-compromise
accuracy & reliability



Capabilities

Test capability: Forced Vital Capacity, Slow Vital Capacity, Maximum Voluntary Ventilation, Cough Peak Flow, Bronchial Challenge, Maximum Pressures, Diffusing Capacity (FG), Nitrogen Washout (Single- and Multi-breath), Lung Clearance Index, Nasal Inspiratory Pressure, Hypoxia Altitude Simulation Test, Arterial Blood Gases, Six Minute Walk (with optional WristOx), BODE Index

Predicted Normal Protocols: Global Lung Initiative (GLI) Spirometry, DLCO, Lung Volumes; NHANESIII, ATS/ERS; Polgar; Knudson; Crapo; Morris; and many more

Reporting: Brilliant library of comprehensive report options including: logo and header design, manual entry information, test graphics, all-effort options, graphic overlays, prior results, serial data graphing, customizable computer impressions, digital signature, administrative reports, QA reports, research queries

EMR Interfacing: Health Level Seven (HL7)

Remote Interpretation: Configurable workflows to route to any network-connected workstation for interpretation

Remote Support: Using secure internet connections



Specifications

Model number: 9100

Size (sensor enclosure): 20 x 15.5 x 5.3 in

Weight: 20 lbs (9 kg)

Operating Temperature: 32-122°F / 0-50°C

Connection to PC: USB

Power: 110VAC 60Hz

Flow Measurement: Heated Lilly pneumotachograph

Accuracy: ±2% @ ±14 L/s

Volume Measurement: Flow integration @ 100Hz

Pressure Measurement: Solid state pressure transducer

CO & CH₄ Sensor: Nondispersive infrared (NDIR)

Accuracy: ±1% of full scale

O₂ Sensor: Laser Diode Absorption

Accuracy: ±0.2%

CO₂ Sensor: Infrared

Accuracy: ±0.1%

DLCO Gas: 0.3% CO, 0.3% CH₄, balance air

MBN₂ & SBN₂ Gas: 100% O₂

Span Gas: 15% O₂, 5% CO₂, balance N₂

Patient Valve: Pneumatic pistons

Inspirate Gas Delivery: At atmospheric pressure

Performance Standards: ATS/ERS 2019, EN ISO 13485

Safety Standards: IEC 60601-1:2005,

Medical Devices Directive: 93/42/EEC

Designed and manufactured by Vitalograph under ISO 13485:2003,
FDA 21CFR820, CMDR

ComPAS2 software by Morgan Scientific, Inc.

ISO 13485:2003, Certificate #14378

