



# 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 latest ATS/ERS spirometry, DLCO, lung volume, challenge, reporting, and interpretation guidelines as of 2023
- 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 GLI Global race-neutral reference equations
- Instant rendering of reports. No wait time!
- Customizable testing dashboards
- Real time billing tools with advanced reporting



# Vitalograph Morgan PFT—VitaloLAB™

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 & CH<sub>4</sub> Sensor:** Nondispersive infrared (NDIR)

**Accuracy:** ±1% of full scale

**O<sub>2</sub> Sensor:** Laser Diode Absorption

**Accuracy:** ±0.2%

**CO<sub>2</sub> Sensor:** Infrared

**Accuracy:** ±0.1%

**DLCO Gas:** 0.3% CO, 0.3% CH<sub>4</sub>, balance air

**MBN<sub>2</sub> & SBN<sub>2</sub> Gas:** 100% O<sub>2</sub>

**Span Gas:** 14-16% O<sub>2</sub>, 4-6% CO<sub>2</sub>, balance N<sub>2</sub>

**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

