



# Vitalograph Morgan PFT—VitaloROV™



## Introducing the VitaloROV

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 with built-in PC 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 VitaloROV, 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
- 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
- Designed for Windows 10 and beyond

# Vitalograph Morgan PFT—VitaloROV™

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 Global) 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:**  $\pm 2\%$  @  $\pm 14$  L/s

**Volume Measurement:** Flow integration @ 100Hz

**Pressure Measurement:** Solid state pressure transducer

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

**Accuracy:**  $\pm 1\%$  of full scale

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

**Accuracy:**  $\pm 0.2\%$

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

**Accuracy:**  $\pm 0.1\%$

**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

Certificate # 700480: MDSAP ISO 13485:2016

ComPAS2 software by Morgan Scientific, Inc.

Certificate # QS60949650004 Rev. 02: MDSAP

ISO 13485:2016/FDA 21 CFR 803, 806, 807

Subparts A to D, 820/CMR

